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show icam entries acl module inst

show icam entries acl module <module> inst <inst> [history <num_intervals>] [sort { top <top_x> | sort-order { ascending | descending } | filter <f_f> [exact] | top <top_x> sort-order { ascending | descending } | top <top_x> filter <f_f> [exact] | top <top_x> sort-order { ascending | descending } filter <f_f> [exact] | top <top_x> filter <f_f> [exact] sort-order { ascending | descending } | sort-order { ascending | descending } top <top_x> | sort-order { ascending | descending } filter <f_f> [exact] | sort-order { ascending | descending } filter <f_f> [exact] top <top_x> | sort-order { ascending | descending } top <top_x> filter <f_f> [exact] | filter <f_f> [exact] top <top_x> | filter <f_f> [exact] sort-order { ascending | descending } | filter <f_f> [exact] top <top_x> sort-order { ascending | descending } | filter <f_f> [exact] sort-order { ascending | descending } top <top_x> }] [__readonly__ <module> <instance> [<num_intervals>] [{ TABLE_ACL_entries <Feature> <Pkt_Type> <SourceIP_Mask_DestIP_Mask> <Action> <Intf_name> <Stats> [<Rate>] }]]

Syntax Description

show	Show running system information
icam	intelligent CAM
entries	TCAM Entries with result and stats
acl	ACL entries
module	Module Number
module	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
inst	Enter Instance Number
sort	(Optional) Sorted display
top	(Optional) Show top x% entries (Default:100%)
top_x	(Optional) x% of entries to be displayed
sort-order	(Optional) Choose the order of displaying sorted entries (Default:descending)
ascending	(Optional) Sort in Ascending order of Stats
descending	(Optional) Sort in Descending order of Stats
filter	(Optional) Feature to be filtered (Default:All)
f_f	(Optional) Enter feature to be filtered
exact	(Optional) Exact match for feature filter
history	(Optional) Show entries history
num_intervals	(Optional) Number of intervals to display

__readonly__	(Optional) Read Only
module	(Optional) Module number
instance	(Optional) Instance number
num_intervals	(Optional) Number of intervals displayed
TABLE_ACL_entries	(Optional) Table for ACL entries
Feature	(Optional) Feature name
Pkt_Type	(Optional) Packet type
SourceIP_Mask_DestIP_Mask	(Optional) IP addresses
Action	(Optional) Action
Intf_name	(Optional) Interface name
Stats	(Optional) Total stats
Rate	(Optional) Rate packets/sec

Command Mode

- /exec

show icam health

show icam health [__readonly__ { <Version> } [{ TABLE_cpu <CpuTypeName> <CpuTypeValue> }] [{ TABLE_mem <MemTypeName> <MemTypeValue> }] [{ TABLE_ps <PsTypeName> <PsTypeValue> }]]

Syntax Description

show	Show running system information
icam	iCAM - intelligent CAM
health	Health status
__readonly__	(Optional)
Version	(Optional) Version of output format
TABLE_cpu	(Optional) Table CPU Usage
CpuTypeName	(Optional) CPU Usage Type
CpuTypeValue	(Optional) CPU Usage Value
TABLE_mem	(Optional) Table Memory Usage
MemTypeName	(Optional) Memory Usage Type
MemTypeValue	(Optional) Memory Usage Value
TABLE_ps	(Optional) Table Power Supply Usage
PsTypeName	(Optional) Power Supply Information Type
PsTypeValue	(Optional) Power Supply Information Value

Command Mode

- /exec

show icam itd

show icam itd [__readonly__ { <Version> } [{ TABLE_svc <Svc> <DG> [{ TABLE_stats <OrigNode> <AssignTo> <Mode> <PktCnt> <PktPct> }] }]]

Syntax Description

show	Show running system information
icam	iCAM - intelligent CAM
itd	Intelligent Traffic Director
__readonly__	(Optional)
Version	(Optional) Version of output format
TABLE_svc	(Optional) Table service
Svc	(Optional) Service
DG	(Optional) Device Group
TABLE_stats	(Optional) Table stats
OrigNode	(Optional) Original Node
AssignTo	(Optional) Assigned to
Mode	(Optional) Mode
PktCnt	(Optional) Packet Count
PktPct	(Optional) Packet Percentage

Command Mode

- /exec

show icam prediction entries acl module inst

show icam prediction entries acl module <module> inst <inst> <YYYY> <Month> <Date> <Time> [top <top_x>] [__readonly__ <module> <instance> [{ TABLE_PREDICTION_ACL_entries <Feature> <Pkt_Type> <Value_Mask> <Action> <Intf_name> <Stats> <Prediction> }]]

Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
entries	TCAM Entries with result and stats
acl	ACL entries
module	Module Number
module	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
inst	Enter Instance Number
YYYY	Enter year in YYYY format
Month	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
Date	Enter day of month in dd format
Time	Enter hour, minutes, seconds as HH:MM:SS
top	(Optional) Show top x% entries (Default:1%)
top_x	(Optional) x% of entries to be displayed
__readonly__	(Optional) Read Only
module	(Optional) Module number
instance	(Optional) Instance number
TABLE_PREDICTION_ACL_entries	(Optional) Table for ACL entries prediction
Feature	(Optional) Feature name
Pkt_Type	(Optional) Packet type
Value_Mask	(Optional) Value mask
Action	(Optional) Action
Intf_name	(Optional) Interface name

Stats	(Optional) Current stats
Prediction	(Optional) Prediction

Command Mode

- /exec

show icam prediction resource acl_tcam mod inst trend

show icam prediction resource { acl_tcam | acl-tcam } mod <module> inst <inst> trend [__readonly__ <module> <instance> [{ TABLE_PREDICTION_ACL_feature <Feature> <Dir> <TCAM> <BANK> <Feature_Entries1> <Free_Entries1> <Percent_Util1> <Feature_Entries2> <Free_Entries2> <Percent_Util2> <Feature_Entries3> <Free_Entries3> <Percent_Util3> }] [<mod> <inst> { TABLE_PREDICTION_ACL_tcam <Tcam_no> <Bank_no> <Used1> <Free1> <Util1> <Used2> <Free2> <Util2> <Used3> <Free3> <Util3> }]]

Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
resource	TCAM Resource utilization
acl_tcam	ACL TCAM resource
acl-tcam	ACL TCAM resource
mod	Module Number
module	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
inst	Enter Instance Number
trend	ACL Prediction Trend
__readonly__	(Optional) Read Only
module	(Optional) Module number
instance	(Optional) Instance number
TABLE_PREDICTION_ACL_feature	(Optional) ACL Feature utilization predictions
Feature	(Optional) Feature name
Dir	(Optional) Direction
TCAM	(Optional) TCAM entry
BANK	(Optional) BANK entry
Feature_Entries1	(Optional) +24Hr Feature_Entries
Free_Entries1	(Optional) +24Hr Free_Entries
Percent_Util1	(Optional) +24Hr Percent_Util

Feature_Entries2	(Optional) +48Hr Feature_Entries
Free_Entries2	(Optional) +48Hr Free_Entries
Percent_Util2	(Optional) +48Hr Percent_Util
Feature_Entries3	(Optional) +1wk Feature_Entries
Free_Entries3	(Optional) +1wk Free_Entries
Percent_Util3	(Optional) +1wk Percent_Util
mod	(Optional) Module number
inst	(Optional) Instance number
TABLE_PREDICTION_ACL_tcam	(Optional) ACL TCAM utilization predictions
Tcam_no	(Optional) Tcam number
Bank_no	(Optional) Bank number
Used1	(Optional) +24Hr Used
Free1	(Optional) +24Hr Free
Util1	(Optional) +24Hr Percent_Util
Used2	(Optional) +48Hr Used
Free2	(Optional) +48Hr Free
Util2	(Optional) +48Hr Percent_Util
Used3	(Optional) +1wk Used
Free3	(Optional) +1wk Free
Util3	(Optional) +1wk Percent_Util

Command Mode

- /exec

show icam prediction resource module inst

show icam prediction resource { acl_tcam | acl-tcam | fib_tcam | fib-tcam } module <module> inst <inst> <YYYY> <Month> <Date> <Time> [__readonly__ <module> <instance> [{ TABLE_PREDICTION_ACL_feature <Feature> <Dir> <TCAM> <BANK> <Feature_Entries> <Free_Entries> <Percent_Util> }] [<mod> <inst> { TABLE_PREDICTION_ACL_tcam <Tcam_no> <Bank_no> <Used> <Free> <Percent_Util> }] [{ TABLE_PREDICTION_FIB_tcam <Class> <Used_Entries> <Max_Entries> <Percent_Util> }]]

Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
resource	TCAM Resource utilization
acl_tcam	ACL TCAM resource
acl-tcam	ACL TCAM resource
fib_tcam	FIB TCAM resource
fib-tcam	FIB TCAM resource
module	Module Number
module	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
inst	Enter Instance Number
YYYY	Enter year in YYYY format
Month	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
Date	Enter day of month in dd format
Time	Enter hour, minutes, seconds as HH:MM:SS
__readonly__	(Optional) Read Only
module	(Optional) Module number
instance	(Optional) Instance number
TABLE_PREDICTION_ACL_feature	(Optional) ACL Feature utilization predictions
Feature	(Optional) Feature name
Dir	(Optional) Direction

TCAM	(Optional) TCAM entry
BANK	(Optional) BANK entry
Feature_Entries	(Optional) Feature_Entries
Free_Entries	(Optional) Free_Entries
Percent_Util	(Optional) Percent_Util
mod	(Optional) Module number
inst	(Optional) Instance number
TABLE_PREDICTION_ACL_tcam	(Optional) ACL TCAM utilization predictions
Tcam_no	(Optional) Tcam number
Bank_no	(Optional) Bank number
Used	(Optional) Used
Free	(Optional) Free
Percent_Util	(Optional) Percent_Util
TABLE_PREDICTION_FIB_tcam	(Optional) FIB TCAM utilization predictions
Class	(Optional) FIB class
Used_Entries	(Optional) Used entries
Max_Entries	(Optional) Max entries
Percent_Util	(Optional) Percent_Util

Command Mode

- /exec

show icam prediction scale

show icam prediction scale [{ { l2-switching [mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans | total-vlans-x-ports | vlans | infra { mac } | stp { mst-instance | mst-vport | rpvst-vport | rpvst-vlan | isolated-portvlan } | vlan { vlan-count }] } | { multicast-routing [multicast-routes | igmp-groups | pim-neighbors | outgoing-interfaces | routing-forwarding { route-v4 | route-v6 | outgoing-interface } | igmp { group } | pim { neighbor }] } | { unicast-routing [bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes | ipv6-host-routes | ipv4-isis-routes | ospf-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf | bfd { session } | bgp { neighbor } | eigrp { route | neighbor } | hsrp { mac } | arp { arp-count } | ipv6-nd { nd-count } | routing { host-route-v4 | host-route-v6 | lpm-route-v4 | lpm-route-v6 } | isis { adjacency | bfd-session | route } | ospf { neighbor | lsa | area } | vrf { vrf-count } | vrrp { grp-per-intf } | pbr { seq-per-policy | nh-per-policy | ace-v4 | ace-v6 | ace-v4v6 | intf } | vrrp3 { grp-per-intf | grp-dft-timer | grp-relax-timer | path-dft-timer | grp-and-path }] } | { vxlan [igmp { vlan | vtep | underlay-mcast-group } | fl { vni | underlay-mcast-group | overlay-mac | vtep | ir-peer | ir-vni | ir-mac | vlan-mapping-under-intf | vlan-mapping-in-switch | static-mac-to-vtep | vlan-logical-port-vp | vlan-per-fex-port | vni-for-vpc-gw | igmp-group } | bgp { vni | svi | vrf | underlay-mcast-group | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } | bgp-ir { vni | svi | vrf | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group }] } }] <YYYY> <Month> <Date> <Time> [__readonly__ [<Info_Thres> <Warn_Thres> <Crit_Thres>] [{ TABLE_technology <Technology> [{ TABLE_feature <Feature> <Verified_Scale> <Config_Scale> [{ TABLE_feature_stats <Used_Entries> [<Cur_Util>] }] }] }]]

Syntax Description

show	Show running system information
icam	intelligent CAM
scale	Verified scale
prediction	Machine learning prediction
l2-switching	(Optional) Layer 2 switching
multicast-routing	(Optional) Multicast routing
unicast-routing	(Optional) Unicast routing
vxlan	(Optional) VxLAN
mac-addresses	(Optional) MAC addresses
mst-instances	(Optional) MST instances
mst-vports	(Optional) MST virtual ports
rpvst-vports	(Optional) RPVST virtual ports
rpvst-vlans	(Optional) RPVST VLANs
total-vlans-x-ports	(Optional) Total number of VLANs x ports with switchport isolated
vlans	(Optional) VLANs

infra	(Optional) Infrasture
mac	(Optional) MAC Address
vlan	(Optional) VLAN
vlan-count	(Optional) Number of VLANs
stp	(Optional) Spanning Tree Protocol
mst-instance	(Optional) MST instances
mst-vport	(Optional) MST virtual ports
rpvst-vport	(Optional) RPVST virtual ports
rpvst-vlan	(Optional) RPVST VLANs
isolated-portvlan	(Optional) Total number of VLANs x ports with switchport isolated
multicast-routes	(Optional) Multicast routes
igmp-groups	(Optional) IGMP groups
pim-neighbors	(Optional) PIM neighbors
outgoing-interfaces	(Optional) Outgoing interfaces
routing-forwarding	(Optional) Routing and forwarding
route-v4	(Optional) IPv4 Route
route-v6	(Optional) IPv6 Route
outgoing-interface	(Optional) Outgoing interface
igmp	(Optional) IGMP
group	(Optional) IGMP snooping group
pim	(Optional) PIM
neighbor	(Optional) PIM neighbor
bfd-sessions	(Optional) BFD sessions
eigrp-routes	(Optional) EIGRP routes
ipv4-arp	(Optional) IPv4 ARP
ipv4-host-routes	(Optional) IPv4 host routes
ipv6-host-routes	(Optional) IPv6 host routes
ipv4-isis-routes	(Optional) IS-ISv4 routes
ospf-nbr	(Optional) OSPF neighbors

ospf-lsa	(Optional) OSPF LSAs
ospf-area	(Optional) OSPF Areas
ospf-vrf	(Optional) OSPF VRFs
ospf-passive-intf	(Optional) OSPF passive interfaces
bfd	(Optional) BFD
session	(Optional) BFD session
bgp	(Optional) BGP
neighbor	(Optional) BGP neighbor
eigrp	(Optional) EIGRP
route	(Optional) EIGRP route
neighbor	(Optional) EIGRP neighbor
hsrp	(Optional) HSRP
mac	(Optional) HSRP MAC
arp	(Optional) ARP
arp-count	(Optional) ARP count
ipv6-nd	(Optional) IPv6 ND
nd-count	(Optional) ND count
routing	(Optional) Routing
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
lpm-route-v4	(Optional) IPv4 LPM route
lpm-route-v6	(Optional) IPv6 LPM route
isis	(Optional) IS-IS
adjacency	(Optional) IS-ISv4 adjacency
bfd-session	(Optional) IS-ISv4 BFD session
route	(Optional) IS-ISv4 route
ospf	(Optional) OSPF
neighbor	(Optional) OSPF neighbor
lsa	(Optional) OSPF LSA

area	(Optional) OSPF Area
vrf	(Optional) VRF
vrf-count	(Optional) VRF count
vrrp	(Optional) VRRP
grp-per-intf	(Optional) VRRP groups per interface
pbr	(Optional) PBR
seq-per-policy	(Optional) PBR Configured sequences per policy
nh-per-policy	(Optional) PBR NextHop per policy
ace-v4	(Optional) PBR IPv4 ACEs
ace-v6	(Optional) PBR IPv6 ACEs
ace-v4v6	(Optional) PBR IPv4 and IPv6 ACEs
intf	(Optional) Interfaces with PBR policy
vrrp3	(Optional) VRRPv3
grp-per-intf	(Optional) VRRPv3 groups per interface
grp-dft-timer	(Optional) VRRPv3 groups with default timers (1 s)
grp-relax-timer	(Optional) VRRPv3 groups with relaxed timers (3 s)
path-dft-timer	(Optional) Pathways with one VRRPv3 group with default timer (1 s)
grp-and-path	(Optional) VRRPv3 groups and pathways combined
igmp	(Optional) IGMP snooping over VXLAN
vlan	(Optional) VLAN
vtep	(Optional) VTEP Peers
underlay-mcast-group	(Optional) Underlay multicast group
fl	(Optional) VXLAN Flood and Learn
vni	(Optional) VNI
underlay-mcast-group	(Optional) Underlay multicast group
overlay-mac	(Optional) Overlay MAC address
vtep	(Optional) Remote VTEP
ir-peer	(Optional) Ingress replication peer
ir-vni	(Optional) Ingress replication L2 VNI

ir-mac	(Optional) Ingress replication MAC address
vlan-mapping-under-intf	(Optional) VLAN translations under an interface
vlan-mapping-in-switch	(Optional) VLAN translations in a switch
static-mac-to-vtep	(Optional) Static MACs to remote VTEP
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLANs per FEX port
vni-for-vpc-gw	(Optional) L2 routed VNIs for vPC-centralized gateway
igmp-group	(Optional) IGMP group
bgp	(Optional) BGP eVPN
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
underlay-mcast-group	(Optional) Underlay multicast group
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
bgp-ir	(Optional) BGP eVPN Ingress Replication
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route

host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
__readonly__	(Optional) Read Only
Info_Thres	(Optional) Configured info threshold percent
Warn_Thres	(Optional) Configured warning threshold percent
Crit_Thres	(Optional) Configured critical threshold percent
TABLE_technology	(Optional) Table technology
Technology	(Optional) Technology name
TABLE_feature	(Optional) Table feature
Feature	(Optional) Feature name
Verified_Scale	(Optional) Verified scale
Config_Scale	(Optional) Configured scale
TABLE_feature_stats	(Optional) Table feature stats
Used_Entries	(Optional) Used entries
Cur_Util	(Optional) Current utilization
YYYY	Enter year in YYYY format
Month	Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec
Date	Enter day of month in dd format
Time	Enter hour, minutes, seconds as HH:MM:SS

Command Mode

- /exec

show icam resource module inst

show icam resource { acl_tcam | acl-tcam | fib_tcam | fib-tcam } module <module> inst <inst> [history <num_intervals>] [__readonly__ <module> <instance> [{ TABLE_feature_resource <Feature> <TCAM> <BANK> [{ TABLE_ingress_stats <Feature_Entries> <Free_Entries> <Percent_Util> <Timestamp> }] }] [{ TABLE_egress_feature_resource <Feature> <TCAM> <BANK> [{ TABLE_egress_stats <Feature_Entries> <Free_Entries> <Percent_Util> <Timestamp> }] }] [<mod> <inst> { TABLE_tcam_bank_utilization <Tcam_no> <Bank_no> [{ TABLE_tcam_bank_stats <Used> <Free> <Percent_Util> <Timestamp> }] }] [{ TABLE_global_configs <Atomic_Update> <Bank_Chain_Mode> <Dynamic_Bank_Mapping> <LOU_Threshold_Value> }] [{ TABLE_fib_resource <Class> [{ TABLE_fib_stats <Used_Entries> <Max_Entries> <Percent_Util> <Timestamp> }] }]]

Syntax Description

show	Show running system information
icam	intelligent CAM
resource	TCAM Resource utilization
acl_tcam	ACL TCAM resource
acl-tcam	ACL TCAM resource
fib_tcam	FIB TCAM resource
fib-tcam	FIB TCAM resource
module	Module Number
module	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
inst	Enter Instance Number
history	(Optional) Show resource history
num_intervals	(Optional) Number of intervals in history
__readonly__	(Optional) Read Only
module	(Optional) Module number
instance	(Optional) Instance number
TABLE_feature_resource	(Optional) Table for ingress feature resources
Feature	(Optional) Feature name
TCAM	(Optional) TCAM entry
BANK	(Optional) BANK entry

TABLE_ingress_stats	(Optional) Table for ingress feature stats
Feature_Entries	(Optional) Feature_Entries
Free_Entries	(Optional) Free_Entries
Percent_Util	(Optional) Percent_Util
Timestamp	(Optional) Timestamp
TABLE_egress_feature_resource	(Optional) Table for egress feature resources
Feature	(Optional) Feature name
TCAM	(Optional) TCAM entry
BANK	(Optional) BANK entry
TABLE_egress_stats	(Optional) Table for egress feature stats
Feature_Entries	(Optional) Feature_Entries
Free_Entries	(Optional) Free_Entries
Percent_Util	(Optional) Percent_Util
Timestamp	(Optional) Timestamp
mod	(Optional) Module number
inst	(Optional) Instance number
TABLE_tcam_bank_utilization	(Optional) Table for tcam and bank utilization
Tcam_no	(Optional) Tcam number
Bank_no	(Optional) Bank number
TABLE_tcam_bank_stats	(Optional) Table for tcam and bank stats
Used	(Optional) Used
Free	(Optional) Free
Percent_Util	(Optional) Percent_Util
Timestamp	(Optional) Timestamp
TABLE_global_configs	(Optional) TABLE_global_configs
Atomic_Update	(Optional) Atomic_Update
Bank_Chain_Mode	(Optional) Bank_Chain_Mode
Dynamic_Bank_Mapping	(Optional) Dynamic_Bank_Mapping
LOU_Threshold_Value	(Optional) LOU_Threshold_Value

TABLE_fib_resource	(Optional) Table for fib resources
Class	(Optional) FIB class
TABLE_fib_stats	(Optional) Table for fib resource stats
Used_Entries	(Optional) Used entries
Max_Entries	(Optional) Max entries
Percent_Util	(Optional) Percent_Util
Timestamp	(Optional) Timestamp

Command Mode

- /exec

show icam scale

show icam scale [{ { l2-switching [mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans | total-vlans-x-ports | vlans | infra { mac } | stp { mst-instance | mst-vport | rpvst-vport | rpvst-vlan | isolated-portvlan } | vlan { vlan-count }] } | { multicast-routing [multicast-routes | igmp-groups | pim-neighbors | outgoing-interfaces | routing-forwarding { route-v4 | route-v6 | outgoing-interface } | igmp { group } | pim { neighbor }] } | { unicast-routing [bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes | ipv6-host-routes | ipv4-isis-routes | ospf-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf | bfd { session } | bgp { neighbor } | eigrp { route | neighbor } | hsrp { mac } | arp { arp-count } | ipv6-nd { nd-count } | routing { host-route-v4 | host-route-v6 | lpm-route-v4 | lpm-route-v6 } | isis { adjacency | bfd-session | route } | ospf { neighbor | lsa | area } | vrf { vrf-count } | vrrp { grp-per-intf } | pbr { seq-per-policy | nh-per-policy | ace-v4 | ace-v6 | ace-v4v6 | intf } | vrrp3 { grp-per-intf | grp-dft-timer | grp-relax-timer | path-dft-timer | grp-and-path }] } | { vxlan [igmp { vlan | vtep | underlay-mcast-group } | fl { vni | underlay-mcast-group | overlay-mac | vtep | ir-peer | ir-vni | ir-mac | vlan-mapping-under-intf | vlan-mapping-in-switch | static-mac-to-vtep | vlan-logical-port-vp | vlan-per-fex-port | vni-for-vpc-gw | igmp-group } | bgp { vni | svi | vrf | underlay-mcast-group | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } | bgp-ir { vni | svi | vrf | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group }] } }] [history <num_intervals> [sort { current-scale [ascending | descending] | polled-timestamp [newest | oldest] }] | utilization | thresholds] [__readonly__ [<Info_Thres> <Warn_Thres> <Crit_Thres>] [{ TABLE_technology <Technology> [{ TABLE_feature <Feature> [<Instance>] [<Verified_Scale> <Config_Scale>] [{ TABLE_feature_stats <Used_Entries> [<Cur_Util>] [<Thres_Exceeded> <Polled_TS>] [<Avg_Util>] [<Week_Util> <Week_TS>] [<Peak_Util> <Peak_TS>] [<Info_Thres_Exceed> <Info_Thres_Exceed_TS> <Warn_Thres_Exceed> <Warn_Thres_Exceed_TS> <Crit_Thres_Exceed> <Crit_Thres_Exceed_TS>] }] }] }]]

Syntax Description

show	Show running system information
icam	intelligent CAM
scale	Verified scale
l2-switching	(Optional) Layer 2 switching
multicast-routing	(Optional) Multicast routing
unicast-routing	(Optional) Unicast routing
vxlan	(Optional) VxLAN
mac-addresses	(Optional) MAC addresses
mst-instances	(Optional) MST instances
mst-vports	(Optional) MST virtual ports
rpvst-vports	(Optional) RPVST virtual ports
rpvst-vlans	(Optional) RPVST VLANs
total-vlans-x-ports	(Optional) Total number of VLANs x ports with switchport isolated

vlans	(Optional) VLANs
infra	(Optional) Infrasture
mac	(Optional) MAC Address
vlan	(Optional) VLAN
vlan-count	(Optional) Number of VLANs
stp	(Optional) Spanning Tree Protocol
mst-instance	(Optional) MST instances
mst-vport	(Optional) MST virtual ports
rpvst-vport	(Optional) RPVST virtual ports
rpvst-vlan	(Optional) RPVST VLANs
isolated-portvlan	(Optional) Total number of VLANs x ports with switchport isolated
multicast-routes	(Optional) Multicast routes
igmp-groups	(Optional) IGMP groups
pim-neighbors	(Optional) PIM neighbors
outgoing-interfaces	(Optional) Outgoing interfaces
routing-forwarding	(Optional) Routing and forwarding
route-v4	(Optional) IPv4 Route
route-v6	(Optional) IPv6 Route
outgoing-interface	(Optional) Outgoing interface
igmp	(Optional) IGMP
group	(Optional) IGMP snooping group
pim	(Optional) PIM
neighbor	(Optional) PIM neighbor
bfd-sessions	(Optional) BFD sessions
eigrp-routes	(Optional) EIGRP routes
ipv4-arp	(Optional) IPv4 ARP
ipv4-host-routes	(Optional) IPv4 host routes
ipv6-host-routes	(Optional) IPv6 host routes
ipv4-isis-routes	(Optional) IS-ISv4 routes

ospf-nbr	(Optional) OSPF neighbors
ospf-lsa	(Optional) OSPF LSAs
ospf-area	(Optional) OSPF Areas
ospf-vrf	(Optional) OSPF VRFs
ospf-passive-intf	(Optional) OSPF passive interfaces
bfd	(Optional) BFD
session	(Optional) BFD session
bgp	(Optional) BGP
neighbor	(Optional) BGP neighbor
eigrp	(Optional) EIGRP
route	(Optional) EIGRP route
neighbor	(Optional) EIGRP neighbor
hsrp	(Optional) HSRP
mac	(Optional) HSRP MAC
arp	(Optional) ARP
arp-count	(Optional) ARP count
ipv6-nd	(Optional) IPv6 ND
nd-count	(Optional) ND count
routing	(Optional) Routing
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
lpm-route-v4	(Optional) IPv4 LPM route
lpm-route-v6	(Optional) IPv6 LPM route
isis	(Optional) IS-IS
adjacency	(Optional) IS-ISv4 adjacency
bfd-session	(Optional) IS-ISv4 BFD session
route	(Optional) IS-ISv4 route
ospf	(Optional) OSPF
neighbor	(Optional) OSPF neighbor

lsa	(Optional) OSPF LSA
area	(Optional) OSPF Area
vrf	(Optional) VRF
vrf-count	(Optional) VRF count
vrrp	(Optional) VRRP
grp-per-intf	(Optional) VRRP groups per interface
pbr	(Optional) PBR
seq-per-policy	(Optional) PBR Configured sequences per policy
nh-per-policy	(Optional) PBR NextHop per policy
ace-v4	(Optional) PBR IPv4 ACEs
ace-v6	(Optional) PBR IPv6 ACEs
ace-v4v6	(Optional) PBR IPv4 and IPv6 ACEs
intf	(Optional) Interfaces with PBR policy
vrrp3	(Optional) VRRPv3
grp-per-intf	(Optional) VRRPv3 groups per interface
grp-dft-timer	(Optional) VRRPv3 groups with default timers (1 s)
grp-relax-timer	(Optional) VRRPv3 groups with relaxed timers (3 s)
path-dft-timer	(Optional) Pathways with one VRRPv3 group with default timer (1 s)
grp-and-path	(Optional) VRRPv3 groups and pathways combined
igmp	(Optional) IGMP snooping over VXLAN
vlan	(Optional) VLAN
vtep	(Optional) VTEP Peers
underlay-mcast-group	(Optional) Underlay multicast group
fl	(Optional) VXLAN Flood and Learn
vni	(Optional) VNI
underlay-mcast-group	(Optional) Underlay multicast group
overlay-mac	(Optional) Overlay MAC address
vtep	(Optional) Remote VTEP
ir-peer	(Optional) Ingress replication peer

ir-vni	(Optional) Ingress replication L2 VNI
ir-mac	(Optional) Ingress replication MAC address
vlan-mapping-under-intf	(Optional) VLAN translations under an interface
vlan-mapping-in-switch	(Optional) VLAN translations in a switch
static-mac-to-vtep	(Optional) Static MACs to remote VTEP
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLANs per FEX port
vni-for-vpc-gw	(Optional) L2 routed VNIs for vPC-centralized gateway
igmp-group	(Optional) IGMP group
bgp	(Optional) BGP eVPN
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
underlay-mcast-group	(Optional) Underlay multicast group
vtep	(Optional) VTEP
mac	(Optional) MAC address
host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
bgp-ir	(Optional) BGP eVPN Ingress Replication
vni	(Optional) VNI
svi	(Optional) SVI with Anycast Gateway
vrf	(Optional) VRF
vtep	(Optional) VTEP
mac	(Optional) MAC address

host-route-v4	(Optional) IPv4 host route
host-route-v6	(Optional) IPv6 host route
overlay-lpm-route-v4	(Optional) IPv4 LPM route
overlay-lpm-route-v6	(Optional) IPv6 LPM route
vlan-logical-port-vp	(Optional) VLAN logical port VP count
vlan-per-fex-port	(Optional) VLAN per FEX port
igmp-group	(Optional) IGMP group
history	(Optional) Show scale history
num_intervals	(Optional) Number of intervals in history
sort	(Optional) Sorted display
current-scale	(Optional) Sort records by current-scale value
ascending	(Optional) Sort current-scale values in ascending order
descending	(Optional) Sort current-scale values in descending order
polled-timestamp	(Optional) Sort records by polled-timestamp
newest	(Optional) Sort with newest record first
oldest	(Optional) Sort with oldest record first
utilization	(Optional) Show utilization statistics
thresholds	(Optional) Show thresholds statistics
__readonly__	(Optional) Read Only
Info_Thres	(Optional) Configured info threshold percent
Warn_Thres	(Optional) Configured warning threshold percent
Crit_Thres	(Optional) Configured critical threshold percent
TABLE_technology	(Optional) Table technology
Technology	(Optional) Technology name
TABLE_feature	(Optional) Table feature
Feature	(Optional) Feature name
Instance	(Optional) Instance name. Present if the record is for a specific instance on the system (i.e. module, port combination or specific application instance in a VDC)
Verified_Scale	(Optional) Verified scale

Config_Scale	(Optional) Configured scale
TABLE_feature_stats	(Optional) Table feature stats
Used_Entries	(Optional) Used entries
Cur_Util	(Optional) Current utilization
Thres_Exceeded	(Optional) Threshold type exceeded
Polled_TS	(Optional) Polled timestamp
Avg_Util	(Optional) Average utilization
Week_Util	(Optional) 1 week utilization
Week_TS	(Optional) 1 week peak utilization timestamp
Peak_Util	(Optional) Peak utilization
Peak_TS	(Optional) Peak utilization timestamp
Info_Thres_Exceed	(Optional) Number of times info threshold exceeded
Info_Thres_Exceed_TS	(Optional) Last info threshold exceeded timestamp
Warn_Thres_Exceed	(Optional) Number of times warning threshold exceeded
Warn_Thres_Exceed_TS	(Optional) Last warning threshold exceeded timestamp
Crit_Thres_Exceed	(Optional) Number of times critical threshold exceeded
Crit_Thres_Exceed_TS	(Optional) Last critical threshold exceeded timestamp

Command Mode

- /exec

show ieth-header-decode

show ieth-header-decode <ieth>

Syntax Description

show	Show running system information
ieth-header-decode	Show decode of ieth header
ieth	ieth header in hex (0xFF...) or string (FF..) form

Command Mode

- /exec

show imp client

show imp client

Syntax Description

show	Show running system information
imp	ipsec management process
client	Show ipsec clients name

Command Mode

- /exec

show imp client sa

show imp client sa

Syntax Description

show	Show running system information
imp	IPSec management process
client	IMP clinet
sa	Display all SAs

Command Mode

- /exec

show inband-telemetry exporter

show inband-telemetry exporter [<exportername>] [__readonly__ <exporter> <description> <dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <seq_num>]

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
exporter	Show INT Exporter Configuration
exportername	(Optional) Specify an exporter
__readonly__	(Optional)
exporter	(Optional)
description	(Optional)
dest	(Optional)
vrf	(Optional)
vrf_id	(Optional)
vrf_resolved	(Optional)
dest_udp	(Optional)
source_intf	(Optional)
source_ip	(Optional)
dscp	(Optional)
seq_num	(Optional)

Command Mode

- /exec

show inband-telemetry flow-profile

show inband-telemetry flow-profile [<flow-profilename>] [__readonly__ <flow-profile> <description> <dscp> <age> <latency>]

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
flow-profile	Show INT flow Profile Configuration
flow-profilename	(Optional) Specify an flow Profile
__readonly__	(Optional)
flow-profile	(Optional)
description	(Optional)
dscp	(Optional)
age	(Optional)
latency	(Optional)

Command Mode

- /exec

show inband-telemetry monitor

show inband-telemetry monitor [<monitorname> [cache [detailed]]] [__readonly__ <monitor> <use_count> <description> <record> <event> <exporter> <bucket_id> <src_addr> <dest_addr> <watchlist>]

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
monitor	Show Monitor Configuration
monitorname	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents
__readonly__	(Optional)
monitor	(Optional)
use_count	(Optional)
description	(Optional)
record	(Optional)
event	(Optional)
exporter	(Optional)
bucket_id	(Optional)
src_addr	(Optional)
dest_addr	(Optional)
watchlist	(Optional)

Command Mode

- /exec

show inband-telemetry queue-profile

show inband-telemetry queue-profile [<queue-profilename> | queue-profile-default] [__readonly__ <queue-profile> <description> <depth> <latency>]

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
queue-profile	Show INT Queue Profile Configuration
queue-profilename	(Optional) Specify an Queue Profile
queue-profile-default	(Optional) Show INT Queue Profile Default Configuration
__readonly__	(Optional)
queue-profile	(Optional)
description	(Optional)
depth	(Optional)
latency	(Optional)

Command Mode

- /exec

show inband-telemetry record

show inband-telemetry record [{ <recordname> }] [__readonly__ <record> <description> <use_count>]

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
record	Show Record Configuration
recordname	(Optional) Specify a record
__readonly__	(Optional)
record	(Optional)
description	(Optional)
use_count	(Optional)

Command Mode

- /exec

show inband-telemetry sessions

show inband-telemetry sessions [<monitorname>] [__readonly__ <monitor>]

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
sessions	Show Session Configuration
monitorname	(Optional) Specify a monitor
__readonly__	(Optional)
monitor	(Optional)

Command Mode

- /exec

show inband-telemetry watchlist

show inband-telemetry watchlist [{ <watchlistname> }] [__readonly__ <watchlist> <use_count> <description> <num_aces> <ace_seq_num> <ace_action> <ace_type> <ace_sip> <ace_sip_len> <ace_dip> <ace_dip_len>]

Syntax Description

show	Show running system information
inband-telemetry	Show INT information
watchlist	Show watchlist Configuration
watchlistname	(Optional) Specify a watchlist
__readonly__	(Optional)
watchlist	(Optional)
use_count	(Optional)
description	(Optional)
num_aces	(Optional)
ace_seq_num	(Optional)
ace_action	(Optional)
ace_type	(Optional)
ace_sip	(Optional)
ace_sip_len	(Optional)
ace_dip	(Optional)
ace_dip_len	(Optional)

Command Mode

- /exec

show incompatibility-all system

show incompatibility-all { system <uri0> | nxos <uri1> } [__readonly__ { [TABLE_incompat_all <Str1> [<Serv>] [<Cap>] [<Desc>] [<Req>] [<Enable>]] [<Dynamic>] }]

Syntax Description

show	Show running system information
incompatibility-all	Show incompatible configurations for the entire system
system	show incompatibilities with an image
uri0	Enter image uri
nxos	show incompatibilities with an image
uri1	Enter image uri
__readonly__	(Optional)
TABLE_incompat_all	(Optional) Show incompatibility system table
Str1	(Optional)
Serv	(Optional)
Cap	(Optional)
Desc	(Optional)
Req	(Optional)
Enable	(Optional)
Dynamic	(Optional)

Command Mode

- /exec

show incompatibility system

show incompatibility { system <uri0> | nxos <uri1> } [__readonly__ { [TABLE_incompat <Str1> [<Serv>] [<Cap>] [<Desc>] [<Req>] [<Enable>]] [<Dynamic>] }]

Syntax Description

show	Show running system information
incompatibility	Show incompatible configurations
system	show incompatibilities with an image
uri0	Enter image uri
nxos	show incompatibilities with an image
uri1	Enter image uri
__readonly__	(Optional)
TABLE_incompat	(Optional) Show incompatibility system table
Str1	(Optional)
Serv	(Optional)
Cap	(Optional)
Desc	(Optional)
Req	(Optional)
Enable	(Optional)
Dynamic	(Optional)

Command Mode

- /exec

show install

show install { inactive | active [brief] | committed } [__readonly__ { <curr_nxos_image> [TABLE_smu_list <install_smu_id> +] [TABLE_package_list <package_id> +] [TABLE_base_package_list <base_package_id> +] }]

Syntax Description

show	Show running system information
install	Install related show commands
inactive	Inactive packages
active	Active packages
brief	(Optional) Brief
committed	Committed packages
__readonly__	(Optional)
curr_nxos_image	(Optional) NXOS image
TABLE_smu_list	(Optional)
install_smu_id	(Optional) install operation smu identifier
TABLE_package_list	(Optional)
package_id	(Optional) Package name
TABLE_base_package_list	(Optional)
base_package_id	(Optional) Base package name

Command Mode

- /exec

show install all failed-standby

show install all failed-standby [__readonly__ { [TABLE_installFailStandby <Str1>] }]

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	Show install all information
failed-standby	show log from failed standby
__readonly__	(Optional)
TABLE_installFailStandby	(Optional) Install failed-standby table
Str1	(Optional)

Command Mode

- /exec

show install all failure-reason

show install all failure-reason [__readonly__ { [TABLE_installFailReason <installFailReasonStr>] }]

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
failure-reason	Show failure reason for the last install all
__readonly__	(Optional)
TABLE_installFailReason	(Optional) Install failure-reason table
installFailReasonStr	(Optional)

Command Mode

- /exec

show install all impact

show install all impact [nxos <uri>] + [non-disruptive]

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
impact	show impact of the install all command
nxos	(Optional) boot-variable name
uri	(Optional) Enter image uri
non-disruptive	(Optional) non-disruptive show install

Command Mode

- /exec

show install all impact epld

show install all impact epld <uri1> [__readonly__ [{ TABLE_compat <module> <type> <upgradable> <impact> <reason> }]]

Syntax Description

show	Show running system information
install	Show the software install status
all	show install all information
impact	show impact of the install all epld command
epld	Show EPLD install information
uri1	Local URI containing EPLD Image
__readonly__	(Optional)
TABLE_compat	(Optional)
module	(Optional)
type	(Optional)
upgradable	(Optional)
impact	(Optional)
reason	(Optional)

Command Mode

- /exec

show install all status

show install all status

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
status	show status of the current or last install all

Command Mode

- /exec

show install all time-stats

show install all time-stats [detail | handshake]

Syntax Description

show	Show running system information
install	Show the software install impact between two images
all	show install all information
time-stats	show overall time statistics of the last install all
detail	(Optional) show detailed time statistics of the last install all
handshake	(Optional) show handshake time statistics for sysmgr and lc processes of the last install all

Command Mode

- /exec

show install epld status

show install epld status [__readonly__ [{ TABLE_data <entry_num> [<header_info>] <module_num> <time> [<epld_install_name>] [<reason>] [<status>] [TABLE_epld [<epld_name>] [<curr_ver>] [<old_ver>]] }]]

Syntax Description

show	Show running system information
install	Show the software install status
epld	Show EPLD install information
status	Show status of previous EPLD upgrades
__readonly__	(Optional)
TABLE_data	(Optional)
entry_num	(Optional)
header_info	(Optional)
module_num	(Optional)
time	(Optional)
epld_install_name	(Optional)
reason	(Optional)
status	(Optional)
TABLE_epld	(Optional)
epld_name	(Optional)
curr_ver	(Optional)
old_ver	(Optional)

Command Mode

- /exec

show install log

show install log { [<id> | from <id1>] [detail] [reverse] | [last] } [__readonly__ { current_time <curr_time> [TABLE_show_log_output <install_id> <install_log_entry> +] }]

Syntax Description

show	Show running system information
install	Install related show commands
log	log
id	(Optional) Install Identifies
from	(Optional) Starting at this install identifier
id1	(Optional) Install Identifier
detail	(Optional) Detailed information including impacted processes
reverse	(Optional) Displays the logs in reverse order
last	(Optional) Display the logs for last install operation
__readonly__	(Optional)
current_time	(Optional) current time
curr_time	(Optional) current time
TABLE_show_log_output	(Optional)
install_id	(Optional) install operation id
install_log_entry	(Optional) install log entry

Command Mode

- /exec

show install mode

show install mode [__readonly__ { <install_mode> <image_type> }]

Syntax Description

show	Show running system information
install	Install related show commands
mode	Display mode and type of booted image
__readonly__	(Optional)
install_mode	(Optional) install mode
image_type	(Optional) image type

Command Mode

- /exec

show install packages

show install packages [__readonly__ { <curr_nxos_image> [TABLE_package_list <package_name> <version> <state> <signature>] }]

Syntax Description

show	Show running system information
install	Install related show commands
packages	All packages
__readonly__	(Optional)
curr_nxos_image	(Optional) NXOS image
TABLE_package_list	(Optional)
package_name	(Optional) Package name
version	(Optional) Package version
state	(Optional) package state
signature	(Optional) Signature

Command Mode

- /exec

show install patches

show install patches [__readonly__ { <curr_nxos_image> [TABLE_smu_list <install_smu_id> <install_smu_state> [TABLE_module_list <install_modno> <install_mod_smu_state>]] }]

Syntax Description

show	Show running system information
install	Install related show commands
patches	All Patches
__readonly__	(Optional)
TABLE_smu_list	(Optional)
curr_nxos_image	(Optional) NXOS image
install_smu_id	(Optional) install operation smu identifier
install_smu_state	(Optional) install operation smu state
TABLE_module_list	(Optional)
install_modno	(Optional) install operation module number
install_mod_smu_state	(Optional) install operation module state

Command Mode

- /exec

show interface

show interface <ifmgmt> [__readonly__ TABLE_interface <interface> <state> [<state_rsn_desc>] [<state_rsn>] [<eth_rsn_fac>] [<eth_rsn_code>] [<admin_state>] [<share_state>] [<eth_bundle>] [<eth_dce_mode>] [<vpc_status>] [<eth_hw_desc>] [<eth_hw_addr>] [<eth_bia_addr>] [<desc>] [<eth_ip_addr>] [<eth_ip_mask>] [<eth_ip_prefix>] [<eth_mtu>] [<eth_bw>] [<eth_encap_vlan>] [<eth_dly>] [<eth_reliability>] [<eth_txload>] [<eth_rxload>] [<encapsulation>] [<medium>] [<eth_loopback>] [<eth_keepalive>] [<eth_duplex>] [<eth_speed>] [<eth_mode>] [<eth_ratemode>] [<eth_autoneg>] [<eth_beacon>] [<eth_media>] [<eth_in_flowctrl>] [<eth_out_flowctrl>] [<eth_mdix>] [<eth_swt_monitor>] [<eth_ethertype>] [<eth_members>] [<eth_clk_mode>] [<eth_arp_type>] [<eth_arp_timeout>] [<eth_last_in>] [<eth_last_out>] [<eth_out_hang>] [<eth_clear_counters>] [<eth_link_flapped>] [<eth_inq_size>] [<eth_inq_max>] [<eth_inq_drops>] [<eth_inq_flush>] [<eth_out_drop>] [<eth_q_strategy>] [<eth_outq_size>] [<eth_outq_max>] [<eth_reset_cntr>] [<mgmt_hw_desc>] [<mgmt_hw_addr>] [<mgmt_ip_addr>] [<mgmt_ip_mask>] [<mgmt_mtu>] [<mgmt_speed>] [<mgmt_duplex>] [<vdc_lvl_in_avg_bits>] [<vdc_lvl_in_avg_pkts>] [<vdc_lvl_out_avg_bits>] [<vdc_lvl_out_avg_pkts>] [<vdc_lvl_in_pkts>] [<vdc_lvl_in_ucast>] [<vdc_lvl_in_mcast>] [<vdc_lvl_in_bcast>] [<vdc_lvl_in_bytes>] [<vdc_lvl_in_bps>] [<vdc_lvl_in_pps>] [<vdc_lvl_out_pkts>] [<vdc_lvl_out_ucast>] [<vdc_lvl_out_mcast>] [<vdc_lvl_out_bcast>] [<vdc_lvl_out_bytes>] [<vdc_lvl_out_bps>] [<vdc_lvl_out_pps>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifmgmt	Enter interface type and number in module/slot format
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
state	(Optional) Interface state
state_rsn_desc	(Optional) Interface state reason detailed
state_rsn	(Optional) Interface state reason
eth_rsn_fac	(Optional) State reason facility
eth_rsn_code	(Optional) State reason code
admin_state	(Optional) Interface admin state
share_state	(Optional) Interface ownership
eth_bundle	(Optional) Belongs to bundle
eth_dce_mode	(Optional) DCE mode description
vpc_status	(Optional) VPC status

eth_hw_desc	(Optional) HW description
eth_hw_addr	(Optional) HW address
eth_bia_addr	(Optional) bia address
desc	(Optional) Interface description
eth_ip_addr	(Optional) IP Address
eth_ip_mask	(Optional) IP address mask
eth_ip_prefix	(Optional) IP address prefix
eth_mtu	(Optional) MTU
eth_bw	(Optional) Bandwidth
eth_encap_vlan	(Optional) Encapsulation Vlan
eth_dly	(Optional) Delay
eth_reliability	(Optional) Reliability
eth_txload	(Optional) Tx load
eth_rxload	(Optional) Rx load
encapsulation	(Optional) Encapsulation
medium	(Optional) medium type
eth_loopback	(Optional) Loopback
eth_keepalive	(Optional) Keepalive
eth_duplex	(Optional) Duplex
eth_speed	(Optional) Speed
eth_mode	(Optional) Port mode
eth_ratemode	(Optional) Rate mode
eth_autoneg	(Optional) Autonegotiation
eth_beacon	(Optional) Beacon
eth_media	(Optional) Media type
eth_in_flowctrl	(Optional) Input flowcontrol
eth_out_flowctrl	(Optional) Output flowcontrol
eth_mdix	(Optional) Mdix
eth_swt_monitor	(Optional) Switchport Monitor

eth_ethertype	(Optional) EtherType
eth_members	(Optional) Members in this channel
eth_clk_mode	(Optional) Clock mode
eth_arp_type	(Optional) ARP type
eth_arp_timeout	(Optional) ARP timeout
eth_last_in	(Optional) Last input
eth_last_out	(Optional) Last output
eth_out_hang	(Optional) Last output hang
eth_clear_counters	(Optional) Last clearing of show interface counters
eth_link_flapped	(Optional) Last link flapped
eth_inq_size	(Optional) Input queue size
eth_inq_max	(Optional) Input queue max
eth_inq_drops	(Optional) Input queue drops
eth_inq_flush	(Optional) Input queue flushes
eth_out_drop	(Optional) Output drops
eth_q_strategy	(Optional) Queueing strategy
eth_outq_size	(Optional) Output queue size
eth_outq_max	(Optional) Output queue max
eth_reset_cntr	(Optional) Interface resets
mgmt_hw_desc	(Optional) HW description
mgmt_hw_addr	(Optional) HW address
mgmt_ip_addr	(Optional) IP address
mgmt_ip_mask	(Optional) IP address mask
mgmt_mtu	(Optional) MTU
mgmt_speed	(Optional) Speed
mgmt_duplex	(Optional) Duplex
vdc_lvl_in_avg_bits	(Optional) VDC level average input bits
vdc_lvl_in_avg_pkts	(Optional) VDC level average input packets
vdc_lvl_out_avg_bits	(Optional) VDC level average output bits

vdc_lvl_out_avg_pkts	(Optional) VDC level average output packets
vdc_lvl_in_pkts	(Optional) VDC level input packets
vdc_lvl_in_ucast	(Optional) VDC level input unicast packets
vdc_lvl_in_mcast	(Optional) VDC level input multicast packets
vdc_lvl_in_bcast	(Optional) VDC level input broadcast packets
vdc_lvl_in_bytes	(Optional) VDC level input bytes
vdc_lvl_in_bps	(Optional) VDC level input bytes per second
vdc_lvl_in_pps	(Optional) VDC level input packets per second
vdc_lvl_out_pkts	(Optional) VDC level output packets
vdc_lvl_out_ucast	(Optional) VDC level output unicast packets
vdc_lvl_out_mcast	(Optional) VDC level output multicast packets
vdc_lvl_out_bcast	(Optional) VDC level output broadcast packets
vdc_lvl_out_bytes	(Optional) VDC level output bytes
vdc_lvl_out_bps	(Optional) VDC level output bytes per second
vdc_lvl_out_pps	(Optional) VDC level output packets per second

Command Mode

- /exec

show_interface

show_interface <single>

Syntax Description

show_interface	Port_mgr hidden command
single	interface type and number in module/slot format

Command Mode

- /exec

show interface

show interface <ifid_brief1> [brief] [__readonly__ [{ TABLE_interface_vfc [<interface_vfc>] [<vsan_brief>] [<oper_port_state>] [<port_state>] [<bound_interface>] [<port_desc>] [<port_des>] [<mgmt_hw_desc1>] [<mgmt_hw_addr1>] [<port_name>] [<hardware>] [<sfp>] [<port_wwn>] [<peer_port_wwn>] [<admin_mode>] [<admin_trunk_mode>] [<snmp_trap>] [<status>] [<state_rsn1>] [<fcot_info>] [<bind_info>] [<bind_mac>] [<bind_type>] [<port_mode>] [<fcid>] [<cfg_port_vsan>] [<vsan>] [<port_rate_mode>] [<oper_speed>] [<admin_speed>] [<port_channel>] [<ip_addr1>] [<oper_txbbcredit>] [<oper_rxbbcredit>] [<port_bb_scn>] [<admin_rxbufsize>] [<admin_port_encap>] [<admin_beacon_mode>] [<admin_fec_state>] [<oper_fec_state>] [<bundle_if_index>] [<trkd_if_index>] [<trk_cfg_vsans>] [<trkd_port_state>] [<num_ports>] [TABLE_trk_intf [<trk_intf>]] [<info_type_num>] [<info_model_num>] [<info_manufacturer>] [<info_port_id>] [<active_vsan>] [<trunk_vsan_up>] [<trunk_vsan_isolated>] [<trunk_vsan_initializing>] [<in_bps>] [<in_byps>] [<in_fps>] [<out_bps>] [<out_byps>] [<out_fps>] [<total_in_frames>] [<total_in_bytes>] [<total_in_discards>] [<total_in_errors>] [<invalid_crc>] [<unknown_class_frames>] [<frames_too_long>] [<frames_too_short>] [<total_out_frames>] [<total_out_bytes>] [<total_out_discards>] [<total_out_errors>] [<in_ols>] [<in_lrr>] [<in_nos>] [<in_loop_inits>] [<out_ols>] [<out_lrr>] [<out_nos>] [<out_loop_inits>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<fcoe_in_pkts>] [<fcoe_in_octets>] [<fcoe_out_pkts>] [<fcoe_out_octets>] [TABLE_members [<port_channel_member>]] [<interface_last_changed>] [<time_last_cleared>] }] [{ TABLE_interface_brief_vfc [<interface_vfc>] [<vsan_brief>] [<admin_mode>] [<admin_trunk_mode>] [<status>] [<fcot_info>] [<bind_info>] [<bind_type>] [<bind_mac>] [<port_rate_mode>] [<oper_speed>] [<port_channel>] [<ip_addr>] }]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_brief1	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface
__readonly__	(Optional) Read Only
interface_vfc	(Optional) Interface index
TABLE_interface_vfc	(Optional) show interface
vsan_brief	(Optional) vsan for brief
oper_port_state	(Optional) oper port state
port_state	(Optional) port state
bound_interface	(Optional) bound interface
port_desc	(Optional) port description
port_des	(Optional) port description
mgmt_hw_desc1	(Optional) HW description

mgmt_hw_addr1	(Optional) HW address
port_name	(Optional) port description
hardware	(Optional) Hardware is
sfp	(Optional) sfp
port_wwn	(Optional) port wwn
peer_port_wwn	(Optional) peer port wwn
admin_mode	(Optional) admin mode
admin_trunk_mode	(Optional) admin trunk mode
snmp_trap	(Optional) snmp trap
status	(Optional) Status
state_rsn1	(Optional) state reason
fcot_info	(Optional) fcot info
bind_info	(Optional) bind interface
bind_mac	(Optional) bind mac
bind_type	(Optional) bind type
port_mode	(Optional) port mode
fcid	(Optional) fcid
cfg_port_vsan	(Optional) config port vsan
vsan	(Optional) vsan for brief
port_rate_mode	(Optional) operation port rate mode
oper_speed	(Optional) speed
admin_speed	(Optional) admin speed
port_channel	(Optional) port channel
ip_addr1	(Optional) Ip address
oper_txbbcredit	(Optional) oper tx bbcredit
oper_rxbbcredit	(Optional) oper rx bbcredit
port_bb_scn	(Optional) port bb scn
admin_rxbufsize	(Optional) admin rx bufsize
admin_port_encap	(Optional) admin port encap

admin_beacon_mode	(Optional) admin beacon mode
admin_fec_state	(Optional) admin fec state
oper_fec_state	(Optional) oper fec state
bundle_if_index	(Optional) bundle if index
trkd_if_index	(Optional) Trunk interfaces
trk_cfg_vsans	(Optional) Trunk vsans
trkd_port_state	(Optional) trunk port state
num_ports	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
trk_intf	(Optional) track interface
info_type_num	(Optional) info type num
info_model_num	(Optional) info model num
info_manufacturer	(Optional) info manufacturer
info_port_id	(Optional) info port id
active_vsan	(Optional) allowed and active vsan
trunk_vsan_up	(Optional) trunk vsan up
trunk_vsan_isolated	(Optional) trunk vsan isolated
trunk_vsan_initializing	(Optional) trunk vsan initializing
in_bps	(Optional) input bits/sec
in_byps	(Optional) input bytes/sec
in_fps	(Optional) input frames/sec
out_bps	(Optional) output bits/sec
out_byps	(Optional) output bytes/sec
out_fps	(Optional) output frames/sec
total_in_frames	(Optional) total in frames
total_in_bytes	(Optional) total in bytes
total_in_discards	(Optional) total in discards
total_in_errors	(Optional) total in errors
invalid_crc	(Optional) invalid crc

unknown_class_frames	(Optional) unknown class frames
frames_too_long	(Optional) frames too long
frames_too_short	(Optional) frames too short
total_out_frames	(Optional) total out frames
total_out_bytes	(Optional) total out bytes
total_out_discards	(Optional) total out discards
total_out_errors	(Optional) total out errors
in_ols	(Optional) input OLS
in_lrr	(Optional) input LRR
in_nos	(Optional) input NOS
in_loop_inits	(Optional) input loop inits
out_ols	(Optional) output OLS
out_lrr	(Optional) ouput LRR
out_nos	(Optional) output NOS
out_loop_inits	(Optional) output loop inits
rx_b2b_perf_buff	(Optional) rx b2b performance buff
rx_b2b_credit	(Optional) rx b2b credit
tx_b2b_credit	(Optional) tx b2b credit
tx_b2b_low_pri_cre	(Optional) tx b2b low pri credit
fcoe_in_pkts	(Optional) fcoe in pkts
fcoe_in_octets	(Optional) fcoe in octets
fcoe_out_pkts	(Optional) fcoe out pkts
fcoe_out_octets	(Optional) fcoe out octets
TABLE_members	(Optional) table for port-channel member interface
port_channel_member	(Optional) port-channel member interface
interface_last_changed	(Optional) interface last changed
time_last_cleared	(Optional) counters last cleared
TABLE_interface_brief_vfc	(Optional) show interface brief table
interface_vfc	(Optional) Interface index

vsan_brief	(Optional) vsan brief
admin_mode	(Optional) admin mode
admin_trunk_mode	(Optional) admin trunk mode
status	(Optional) status
fcot_info	(Optional) fcot info
bind_info	(Optional) bind interface
bind_type	(Optional) bind type
bind_mac	(Optional) bind mac address
port_rate_mode	(Optional) rate mode
oper_speed	(Optional) speed
port_channel	(Optional) port channel number
ip_addr	(Optional) IP address

Command Mode

- /exec

show interface

show interface <ifid_brief2> [brief] [__readonly__ [{ TABLE_interface_fc [<interface_vfc>] [<vsan_brief>] [<oper_port_state>] [<port_state>] [<bound_interface>] [<port_desc>] [<port_des>] [<mgmt_hw_desc1>] [<mgmt_hw_addr1>] [<port_name>] [<hardware>] [<sfp>] [<port_wwn>] [<peer_port_wwn>] [<admin_mode>] [<admin_trunk_mode>] [<snmp_trap>] [<status>] [<state_rsn1>] [<fcot_info>] [<bind_info>] [<bind_mac>] [<bind_type>] [<port_mode>] [<fcid>] [<cfg_port_vsan>] [<vsan>] [<port_rate_mode>] [<oper_speed>] [<admin_speed>] [<port_channel>] [<ip_addr1>] [<oper_txbbcredit>] [<oper_rxbbcredit>] [<port_bb_scn>] [<admin_rxbufsize>] [<admin_port_encap>] [<admin_beacon_mode>] [<admin_fec_state>] [<oper_fec_state>] [<bundle_if_index>] [<trkd_if_index>] [<trk_cfg_vsans>] [<trkd_port_state>] [<num_ports>] [TABLE_trk_intf [<trk_intf>]] [<info_type_num>] [<info_model_num>] [<info_manufacturer>] [<info_port_id>] [<active_vsan>] [<trunk_vsan_up>] [<trunk_vsan_isolated>] [<trunk_vsan_initializing>] [<in_bps>] [<in_byps>] [<in_fps>] [<out_bps>] [<out_byps>] [<out_fps>] [<total_in_frames>] [<total_in_bytes>] [<total_in_discards>] [<total_in_errors>] [<invalid_crc>] [<unknown_class_frames>] [<frames_too_long>] [<frames_too_short>] [<total_out_frames>] [<total_out_bytes>] [<total_out_discards>] [<total_out_errors>] [<in_ols>] [<in_lrr>] [<in_nos>] [<in_loop_inits>] [<out_ols>] [<out_lrr>] [<out_nos>] [<out_loop_inits>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<fcoe_in_pkts>] [<fcoe_in_octets>] [<fcoe_out_pkts>] [<fcoe_out_octets>] [TABLE_members [<port_channel_member>]] [<interface_last_changed>] [<time_last_cleared>] }] [{ TABLE_interface_brief_fc [<interface_fc>] [<vsan_brief>] [<admin_mode>] [<admin_trunk_mode>] [<status>] [<fcot_info>] [<bind_info>] [<bind_type>] [<bind_mac>] [<port_rate_mode>] [<oper_speed>] [<port_channel>] [<ip_addr>] }] [{ TABLE_interface_brief_san_pc [<interface_san>] [<vsan_brief>] [<admin_trunk_mode>] [<status>] [<port_rate_mode>] [<oper_speed>] [<ip_addr>] }]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_brief2	Enter interface type and number in module/slot format
brief	(Optional) Show brief info of interface
__readonly__	(Optional) Read Only
interface_vfc	(Optional) Interface index
TABLE_interface_fc	(Optional) show interface
vsan_brief	(Optional) vsan for brief
oper_port_state	(Optional) oper port state
port_state	(Optional) port state
bound_interface	(Optional) bound interface
port_desc	(Optional) port description
port_des	(Optional) port description

mgmt_hw_desc1	(Optional) HW description
mgmt_hw_addr1	(Optional) HW address
port_name	(Optional) port description
hardware	(Optional) Hardware is
sfp	(Optional) sfp
port_wwn	(Optional) port wwn
peer_port_wwn	(Optional) peer port wwn
admin_mode	(Optional) admin mode
admin_trunk_mode	(Optional) admin trunk mode
snmp_trap	(Optional) snmp trap
status	(Optional) Status
state_rsn1	(Optional) state reason
fcot_info	(Optional) fcot info
bind_info	(Optional) bind interface
bind_mac	(Optional) bind mac
bind_type	(Optional) bind type
port_mode	(Optional) port mode
fcid	(Optional) fcid
cfg_port_vsan	(Optional) config port vsan
vsan	(Optional) vsan for brief
port_rate_mode	(Optional) operation port rate mode
oper_speed	(Optional) speed
admin_speed	(Optional) admin speed
port_channel	(Optional) port channel
ip_addr1	(Optional) Ip address
oper_txbbcredit	(Optional) oper tx bbcredit
oper_rxbbcredit	(Optional) oper rx bbcredit
port_bb_scn	(Optional) port bb scn
admin_rxbufsize	(Optional) admin rx bufsize

admin_port_encap	(Optional) admin port encap
admin_beacon_mode	(Optional) admin beacon mode
admin_fec_state	(Optional) admin fec state
oper_fec_state	(Optional) oper fec state
bundle_if_index	(Optional) bundle if index
trkd_if_index	(Optional) Trunk interfaces
trk_cfg_vsans	(Optional) Trunk vsans
trkd_port_state	(Optional) trunk port state
num_ports	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
trk_intf	(Optional) track interface
info_type_num	(Optional) info type num
info_model_num	(Optional) info model num
info_manufacturer	(Optional) info manufacturer
info_port_id	(Optional) info port id
active_vsan	(Optional) allowed and active vsan
trunk_vsan_up	(Optional) trunk vsan up
trunk_vsan_isolated	(Optional) trunk vsan isolated
trunk_vsan_initializing	(Optional) trunk vsan initializing
in_bps	(Optional) input bits/sec
in_byps	(Optional) input bytes/sec
in_fps	(Optional) input frames/sec
out_bps	(Optional) output bits/sec
out_byps	(Optional) output bytes/sec
out_fps	(Optional) output frames/sec
total_in_frames	(Optional) total in frames
total_in_bytes	(Optional) total in bytes
total_in_discards	(Optional) total in discards
total_in_errors	(Optional) total in errors

invalid_crc	(Optional) invalid crc
unknown_class_frames	(Optional) unknown class frames
frames_too_long	(Optional) frames too long
frames_too_short	(Optional) frames too short
total_out_frames	(Optional) total out frames
total_out_bytes	(Optional) total out bytes
total_out_discards	(Optional) total out discards
total_out_errors	(Optional) total out errors
in_ols	(Optional) input OLS
in_lrr	(Optional) input LRR
in_nos	(Optional) input NOS
in_loop_inits	(Optional) input loop inits
out_ols	(Optional) output OLS
out_lrr	(Optional) ouput LRR
out_nos	(Optional) output NOS
out_loop_inits	(Optional) output loop inits
rx_b2b_perf_buff	(Optional) rx b2b performance buff
rx_b2b_credit	(Optional) rx b2b credit
tx_b2b_credit	(Optional) tx b2b credit
tx_b2b_low_pri_cre	(Optional) tx b2b low pri credit
fcoe_in_pkts	(Optional) fcoe in pkts
fcoe_in_octets	(Optional) fcoe in octets
fcoe_out_pkts	(Optional) fcoe out pkts
fcoe_out_octets	(Optional) fcoe out octets
TABLE_members	(Optional) table for port-channel member interface
port_channel_member	(Optional) port-channel member interface
interface_last_changed	(Optional) interface last changed
time_last_cleared	(Optional) counters last cleared
TABLE_interface_brief_fc	(Optional) show interface brief table

interface_fc	(Optional) Interface index
ip_addr	(Optional) IP address
vsan_brief	(Optional) vsan brief
admin_mode	(Optional) admin mode
admin_trunk_mode	(Optional) admin trunk mode
status	(Optional) status
fcot_info	(Optional) fcot info
bind_info	(Optional) bind interface
bind_type	(Optional) bind type
bind_mac	(Optional) bind mac address
port_rate_mode	(Optional) rate mode
oper_speed	(Optional) speed
port_channel	(Optional) port channel number
TABLE_interface_brief_san_pc	(Optional) show interface brief for san-po
interface_san	(Optional) san_po interface
vsan_brief	(Optional) vsan brief
admin_trunk_mode	(Optional) admin trunk mode
status	(Optional) status
port_rate_mode	(Optional) rate mode
oper_speed	(Optional) speed
ip_addr	(Optional) IP address

Command Mode

- /exec

show interface

show interface <ifid> [quick] [__readonly__ TABLE_interface <interface> [<desc>] [[<svi_if_index>] [<svi_admin_state>] [<oper_state>] [<svi_rsn_desc>] [<svi_line_proto>] [<svi_hw>] [<svi_mac>] [<svi_desc>] [<svi_ip_addr>] [<svi_ip_mask>] [<svi_mtu>] [<svi_bw>] [<svi_delay>] [<vlan_id>] [<type>]] [[<svi_tx_load>] [<svi_rx_load>]] [[<svi_carrier_delay_sec>] [<svi_carrier_delay_msec>] [<svi_arp_type>] [<svi_arp_timeout>]] [[<svi_time_last_cleared>]] [{ [TABLE_sec_vlan] [<sec_vlan>] [<sec_vlan_type>] }] [[<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_inrate2_summary_bits>] [<eth_inrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_load_interval3_rx>] [<eth_inrate3_bits>] [<eth_inrate3_pkts>] [<eth_load_interval3_tx>] [<eth_outrate3_bits>] [<eth_outrate3_pkts>] [<eth_inrate3_summary_bits>] [<eth_inrate3_summary_pkts>] [<eth_outrate3_summary_bits>] [<eth_outrate3_summary_pkts>] [<eth_l2_ucastpkts>] [<eth_l2_ucastbytes>] [<eth_l2_mcastpkts>] [<eth_l2_mcastbytes>] [<eth_l2_bcastpkts>] [<eth_l2_bcastbytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_ucastbytes>] [<eth_l3in_mcastpkts>] [<eth_l3in_mcastbytes>] [<eth_l3in_bcastpkts>] [<eth_l3in_bcastbytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_ucastbytes>] [<eth_l3out_mcastpkts>] [<eth_l3out_mcastbytes>] [<eth_l3out_bcastpkts>] [<eth_l3out_bcastbytes>] [<eth_l3in_routed_pkts>] [<eth_l3in_routed_bytes>] [<eth_l3out_routed_pkts>] [<eth_l3out_routed_bytes>] [<eth_l3avg1_inbytes>] [<eth_l3avg1_inpkts>] [<eth_l3avg1_outbytes>] [<eth_l3avg1_outpkts>] [<eth_l3avg2_inbytes>] [<eth_l3avg2_inpkts>] [<eth_l3avg2_outbytes>] [<eth_l3avg2_outpkts>] [<eth_l3avg3_inbytes>] [<eth_l3avg3_inpkts>] [<eth_l3avg3_outbytes>] [<eth_l3avg3_outpkts>] [<eth_inpkts>] [<eth_inbytes>] [<eth_nobuf>] [<eth_inbcast>] [<eth_inmcast>] [<eth_inucast>] [<eth_ingiants>] [<eth_ipmcast>] [<eth_inhw_switched>] [<eth_insw_switched>] [<eth_runts>] [<eth_storm_supp>] [<eth_throtles>] [<eth_inerr>] [<eth_crc>] [<eth_ecc>] [<eth_frame>] [<eth_overrun>] [<eth_ignored>] [<eth_watchdog>] [<eth_outbcast>] [<eth_outmcast>] [<eth_outucast>] [<eth_outgiants>] [<eth_inpause>] [<eth_dribble>] [<eth_in_ifdown_drops>] [<eth_bad_eth>] [<eth_bad_proto>] [<eth_outpkts>] [<eth_outbytes>] [<eth_underrun>] [<eth_outhw_switched>] [<eth_outsw_switched>] [<eth_outerr>] [<eth_coll>] [<eth_resets>] [<eth_babbles>] [<eth_latecoll>] [<eth_deferred>] [<eth_lostcarrier>] [<eth_nocarrier>] [<eth_outpause>] [<eth_buffail>] [<eth_bufswapped>] [<eth_arpdrops>] [<eth_out_ifdown_drops>] [<eth_single_coll>] [<eth_multi_coll>] [<eth_excess_coll>] [<eth_jabbers>] [<eth_shortframe>] [<eth_indiscard>] [<eth_bad_encap>] [<eth_outcrc>] [<eth_symbol>] [<eth_out_drops>] [<eth_sqetest>] [<eth_inb64>] [<eth_inb65_127>] [<eth_inb128_255>] [<eth_inb256_511>] [<eth_inb512_1023>] [<eth_inb1024_1518>] [<eth_inb1519_1548>] [<eth_intrunk>] [<eth_outb64>] [<eth_outb65_127>] [<eth_outb128_255>] [<eth_outb256_511>] [<eth_outb512_1023>] [<eth_outb1024_1518>] [<eth_outb1519_1548>] [<eth_outtrunk>] [<eth_bpdu_outlost>] [<eth_cos0_outlost>] [<eth_cos1_outlost>] [<eth_cos2_outlost>] [<eth_cos3_outlost>] [<eth_cos4_outlost>] [<eth_cos5_outlost>] [<eth_cos6_outlost>] [<eth_cos7_outlost>] [<eth_fcoe_in_pkts>] [<eth_fcoe_in_octets>] [<eth_fcoe_out_pkts>] [<eth_fcoe_out_octets>] [<eth_nfcoe_in_pkts>] [<eth_nfcoe_in_octets>] [<eth_nfcoe_out_pkts>] [<eth_nfcoe_out_octets>] [<eth_eee_atx_lpi_msec>] [<eth_eee_arcv_lpi_msec>] [<eth_eee_atx_lpi_transitions>] [<eth_eee_arcv_lpi_transitions>] [<eth_phy_ber_count>] [<eth_phy_errblks_count>]] [[<svi_routed_pkts_in>] [<svi_routed_bytes_in>] [<svi_routed_pkts_out>] [<svi_routed_bytes_out>] [<svi_ucast_pkts_in>] [<svi_ucast_bytes_in>] [<svi_mcast_pkts_in>] [<svi_mcast_bytes_in>] [<svi_ucast_pkts_out>] [<svi_ucast_bytes_out>] [<svi_mcast_pkts_out>] [<svi_mcast_bytes_out>] [<svi_ipv4_ucast_pkts_in>] [<svi_ipv4_ucast_bytes_in>] [<svi_ipv4_ucast_pkts_out>] [<svi_ipv4_ucast_bytes_out>] [<svi_ipv4_mcast_pkts_in>] [<svi_ipv4_mcast_bytes_in>] [<svi_ipv4_mcast_pkts_out>] [<svi_ipv4_mcast_bytes_out>] [

<svi_ipv6_ucast_pkts_in>] [<svi_ipv6_ucast_bytes_in>] [<svi_ipv6_ucast_pkts_out>] [<svi_ipv6_ucast_bytes_out>] [<svi_ipv6_mcast_pkts_in>] [<svi_ipv6_mcast_bytes_in>] [<svi_ipv6_mcast_pkts_out>] [<svi_ipv6_mcast_bytes_out>] [<svi_average_input_bits>] [<svi_average_input_packets>] [<svi_average_output_bits>] [<svi_average_output_packets>] [<svi_rate_in_mins>]] [[<svi_reliability>]] [<switchport>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid	Enter interface type and number in module/slot format
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
desc	(Optional) Interface description
svi_if_index	(Optional) Interface
svi_admin_state	(Optional)
oper_state	(Optional)
svi_rsn_desc	(Optional) Interface state reason detailed
svi_line_proto	(Optional)
svi_hw	(Optional) Hardware
svi_mac	(Optional) Address
svi_desc	(Optional) Interface Description
svi_ip_addr	(Optional) IP Address
svi_ip_mask	(Optional) IP address mask
svi_mtu	(Optional) MTU size in bytes
svi_bw	(Optional) Bandwidth in kilobits
svi_delay	(Optional) Throughput delay (tens of microseconds)
vlan_id	(Optional) Vlan
type	(Optional) type
svi_tx_load	(Optional) Tx Load
svi_rx_load	(Optional) Rx Load

svi_carrier_delay_sec	(Optional) carrier delay value in seconds
svi_carrier_delay_msec	(Optional) carrier delay value in milli-seconds
svi_arp_type	(Optional) ARP type
svi_arp_timeout	(Optional) ARP timeout value
svi_time_last_cleared	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans
sec_vlan	(Optional) vlan id
sec_vlan_type	(Optional) secondary vlan type
eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(Optional) interval 1 input rate bits/sec
eth_inrate1_pkts	(Optional) interval 1 input rate pkts/sec
eth_load_interval1_tx	(Optional) interval 1 timer value in sec
eth_outrate1_bits	(Optional) interval 1 output rate bits/sec
eth_outrate1_pkts	(Optional) interval 1 output rate pkts/sec
eth_inrate1_summary_bits	(Optional) interval 1 input rate bit summary
eth_inrate1_summary_pkts	(Optional) interval 1 input rate pkt summary
eth_outrate1_summary_bits	(Optional) interval 1 output rate bit summary
eth_outrate1_summary_pkts	(Optional) interval 1 output rate pkt summary
eth_load_interval2_rx	(Optional) interval 2 timer value in sec
eth_inrate2_bits	(Optional) interval 2 input rate bits/sec
eth_inrate2_pkts	(Optional) interval 2 input rate pkts/sec
eth_load_interval2_tx	(Optional) interval 2 timer value in sec
eth_outrate2_bits	(Optional) interval 2 output rate bits/sec
eth_outrate2_pkts	(Optional) interval 2 output rate pkts/sec
eth_inrate2_summary_bits	(Optional) interval 2 input rate bit summary
eth_inrate2_summary_pkts	(Optional) interval 2 input rate pkt summary
eth_outrate2_summary_bits	(Optional) interval 2 output rate bit summary
eth_outrate2_summary_pkts	(Optional) interval 2 output rate pkt summary
eth_load_interval3_rx	(Optional) interval 3 timer value in sec

eth_inrate3_bits	(Optional) interval 3 input rate bits/sec
eth_inrate3_pkts	(Optional) interval 3 input rate pkts/sec
eth_load_interval3_tx	(Optional) interval 3 timer value in sec
eth_outrate3_bits	(Optional) interval 3 output rate bits/sec
eth_outrate3_pkts	(Optional) interval 3 output rate pkts/sec
eth_inrate3_summary_bits	(Optional) interval 3 input rate bit summary
eth_inrate3_summary_pkts	(Optional) interval 3 input rate pkt summary
eth_outrate3_summary_bits	(Optional) interval 3 output rate bit summary
eth_outrate3_summary_pkts	(Optional) interval 3 output rate pkt summary
eth_l2_ucastpkts	(Optional) L2 switched ucast pkts
eth_l2_ucastbytes	(Optional) L2 switched ucast bytes
eth_l2_mcastpkts	(Optional) L2 switched mcast pkts
eth_l2_mcastbytes	(Optional) L2 switched mcast bytes
eth_l2_bcastpkts	(Optional) L2 switched bcast pkts
eth_l2_bcastbytes	(Optional) L2 switched bcast bytes
eth_l3in_ucastpkts	(Optional) IPv4 L3 in switched ucast pkts
eth_l3in_ucastbytes	(Optional) IPv4 L3 in switched ucast bytes
eth_l3in_mcastpkts	(Optional) IPv4 L3 in switched mcast pkts
eth_l3in_mcastbytes	(Optional) IPv4 L3 in switched mcast bytes
eth_l3in_bcastpkts	(Optional) L3 in switched bcast pkts
eth_l3in_bcastbytes	(Optional) L3 in switched bcast bytes
eth_l3out_ucastpkts	(Optional) IPv4 L3 out switched ucast pkts
eth_l3out_ucastbytes	(Optional) IPv4 L3 out switched ucast bytes
eth_l3out_mcastpkts	(Optional) IPv4 L3 out switched mcast pkts
eth_l3out_mcastbytes	(Optional) IPv4 L3 out switched mcast bytes
eth_l3out_bcastpkts	(Optional) L3 out switched bcast pkts
eth_l3out_bcastbytes	(Optional) L3 out switched bcast bytes
eth_l3in_routed_pkts	(Optional) L3 in routed pkts
eth_l3in_routed_bytes	(Optional) L3 in routed bytes

eth_l3out_routed_pkts	(Optional) L3 out routed pkts
eth_l3out_routed_bytes	(Optional) L3 out routed bytes
eth_l3avg1_inbytes	(Optional) Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	(Optional) Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	(Optional) Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	(Optional) Load interval 1 L3 average out switched pkts
eth_l3avg2_inbytes	(Optional) Load interval 2 L3 average in switched bytes
eth_l3avg2_inpkts	(Optional) Load interval 2 L3 average in switched pkts
eth_l3avg2_outbytes	(Optional) Load interval 2 L3 average out switched bytes
eth_l3avg2_outpkts	(Optional) Load interval 2 L3 average out switched pkts
eth_l3avg3_inbytes	(Optional) Load interval 3 L3 average in switched bytes
eth_l3avg3_inpkts	(Optional) Load interval 3 L3 average in switched pkts
eth_l3avg3_outbytes	(Optional) Load interval 3 L3 average out switched bytes
eth_l3avg3_outpkts	(Optional) Load interval 3 L3 average out switched pkts
eth_inpkts	(Optional) Packets input
eth_inbytes	(Optional) Bytes input
eth_nobuf	(Optional) No buffer received
eth_inbcast	(Optional) Broadcasts
eth_inmcast	(Optional) Multicasts
eth_inucast	(Optional) Unicasts
eth_ingiants	(Optional) giants
eth_ipmcast	(Optional) IP multicast
eth_inhw_switched	(Optional) Input H/W Switched
eth_insw_switched	(Optional) Input S/W Switched
eth_runts	(Optional) runts
eth_storm_supp	(Optional) storm suppression
eth_throtles	(Optional) throttles
eth_inerr	(Optional) input errors
eth_crc	(Optional) CRC

eth_ecc	(Optional) ECC
eth_frame	(Optional) frame
eth_overrun	(Optional) overrun
eth_ignored	(Optional) ignored
eth_watchdog	(Optional) watchdog
eth_outbcast	(Optional) Broadcasts
eth_outmcast	(Optional) Multicasts
eth_outucast	(Optional) Unicasts
eth_outgiants	(Optional) giants
eth_inpause	(Optional) pause input
eth_dribble	(Optional) input packets with dribble condition
eth_in_ifdown_drops	(Optional) Input if-down drops
eth_bad_eth	(Optional) bad ether type drop
eth_bad_proto	(Optional) bad protocol drops
eth_outpkts	(Optional) packets output
eth_outbytes	(Optional) bytes output
eth_underrun	(Optional) underruns
eth_outhw_switched	(Optional) Out H/W Switched
eth_outsw_switched	(Optional) Out S/W Switched
eth_outerr	(Optional) output errors
eth_coll	(Optional) collisions
eth_resets	(Optional) interface resets
eth_babbles	(Optional) babbles
eth_latecoll	(Optional) late collision
eth_deferred	(Optional) deferred
eth_lostcarrier	(Optional) lost carrier
eth_nocarrier	(Optional) no carrier
eth_outpause	(Optional) PAUSE output
eth_buffail	(Optional) output buffer failures

eth_bufswapped	(Optional) output buffers swapped out
eth_arpdrops	(Optional) arp drops
eth_out_ifdown_drops	(Optional) Output if-down drops
eth_single_coll	(Optional) single collisions
eth_multi_coll	(Optional) multi collisions
eth_excess_coll	(Optional) excessive collisions
eth_jabbers	(Optional) jabbers
eth_shortframe	(Optional) short frames
eth_indiscard	(Optional) discards
eth_bad_encap	(Optional) bad encapsulation
eth_outcrc	(Optional) Output CRC
eth_symbol	(Optional) symbol errors
eth_out_drops	(Optional) output drops
eth_sqetest	(Optional) SQE test
eth_inb64	(Optional) input pkts between 0 and 64 bytes
eth_inb65_127	(Optional) input pkts between 65 and 127 bytes
eth_inb128_255	(Optional) input pkts between 128 and 255 bytes
eth_inb256_511	(Optional) input pkts between 256 and 511 bytes
eth_inb512_1023	(Optional) input pkts between 512 and 1023 bytes
eth_inb1024_1518	(Optional) input pkts between 1024 and 1518 bytes
eth_inb1519_1548	(Optional) input pkts between 1519 and 1548 bytes
eth_intrunk	(Optional) input trunk pkts
eth_outb64	(Optional) output pkts between 0 and 64 bytes
eth_outb65_127	(Optional) output pkts between 65 and 127 bytes
eth_outb128_255	(Optional) output pkts between 128 and 255 bytes
eth_outb256_511	(Optional) output pkts between 256 and 511 bytes
eth_outb512_1023	(Optional) output pkts between 512 and 1023 bytes
eth_outb1024_1518	(Optional) output pkts between 1024 and 1518 bytes
eth_outb1519_1548	(Optional) output pkts between 1519 and 1548 bytes

eth_outtrunk	(Optional) output trunk pkts
eth_bpdu_outlost	(Optional) BPDU output lost
eth_cos0_outlost	(Optional) output pkts
eth_cos1_outlost	(Optional) output pkts
eth_cos2_outlost	(Optional) output pkts
eth_cos3_outlost	(Optional) output pkts
eth_cos4_outlost	(Optional) output pkts
eth_cos5_outlost	(Optional) output pkts
eth_cos6_outlost	(Optional) output pkts
eth_cos7_outlost	(Optional) output pkts
eth_fcoe_in_pkts	(Optional) fcoe in pkts
eth_fcoe_in_octets	(Optional) fcoe in octets
eth_fcoe_out_pkts	(Optional) fcoe out pkts
eth_fcoe_out_octets	(Optional) fcoe out octets
eth_nfcoe_in_pkts	(Optional) nfcoe in pkts
eth_nfcoe_in_octets	(Optional) nfcoe in octets
eth_nfcoe_out_pkts	(Optional) nfcoe out pkts
eth_nfcoe_out_octets	(Optional) nfcoe out octets
eth_eee_atx_lpi_msec	(Optional) Tx Lpi usec
eth_eee_arcv_lpi_msec	(Optional) Rx Lpi usec
eth_eee_atx_lpi_transitions	(Optional) Tx Lpi requests
eth_eee_arcv_lpi_transitions	(Optional) Rx Lpi indications
eth_phy_ber_count	(Optional) Bit error rate counter
eth_phy_errblks_count	(Optional) Errored blocks counter
svi_reliability	(Optional) Reliability
switchport	(Optional) Switchport enabled

Command Mode

- /exec

show interface

show interface [controller | quick] [__readonly__ TABLE_interface <interface> [<state>] [<state_rsn_desc>] [<state_rsn>] [<vsan_brief>] [<oper_port_state>] [<port_state>] [<bound_interface>] [<port_desc>] [<port_des>] [<mgmt_hw_desc1>] [<mgmt_hw_addr1>] [<port_name>] [<hardware>] [<sfp>] [<port_wwn>] [<peer_port_wwn>] [<admin_mode>] [<admin_trunk_mode>] [<snmp_trap>] [<status>] [<state_rsn1>] [<fcot_info>] [<bind_info>] [<bind_mac>] [<bind_type>] [<port_mode>] [<fcid>] [<cfg_port_vsan>] [<vsan>] [<port_rate_mode>] [<oper_speed>] [<admin_speed>] [<port_channel>] [<ip_addr1>] [<oper_txbbcredit>] [<oper_rxbbcredit>] [<port_bb_scn>] [<admin_rxbufsize>] [<admin_port_encap>] [<admin_beacon_mode>] [<admin_fec_state>] [<oper_fec_state>] [<bundle_if_index>] [<trkd_if_index>] [<trk_cfg_vsans>] [<trkd_port_state>] [<num_ports>] [TABLE_trk_intf [<trk_intf>]] [<info_type_num>] [<info_model_num>] [<info_manufacturer>] [<info_port_id>] [<active_vsan>] [<trunk_vsan_up>] [<trunk_vsan_isolated>] [<trunk_vsan_initializing>] [<in_bps>] [<in_byps>] [<in_fps>] [<out_bps>] [<out_byps>] [<out_fps>] [<total_in_frames>] [<total_in_bytes>] [<total_in_discards>] [<total_in_errors>] [<invalid_crc>] [<unknown_class_frames>] [<frames_too_long>] [<frames_too_short>] [<total_out_frames>] [<total_out_bytes>] [<total_out_discards>] [<total_out_errors>] [<in_ols>] [<in_lrr>] [<in_nos>] [<in_loop_inits>] [<out_ols>] [<out_lrr>] [<out_nos>] [<out_loop_inits>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<fcoe_in_pkts>] [<fcoe_in_octets>] [<fcoe_out_pkts>] [<fcoe_out_octets>] [TABLE_members [<port_channel_member>]] [<interface_last_changed>] [<time_last_cleared>] [<interface_quick>] [<vsan_brief_quick>] [<oper_port_state_quick>] [<port_state_quick>] [<bound_interface_quick>] [<port_desc_quick>] [<port_des_quick>] [<mgmt_hw_desc1_quick>] [<mgmt_hw_addr1_quick>] [<port_name_quick>] [<hardware_quick>] [<sfp_quick>] [<port_wwn_quick>] [<peer_port_wwn_quick>] [<admin_mode_quick>] [<admin_trunk_mode_quick>] [<snmp_trap_quick>] [<status_quick>] [<state_rsn1_quick>] [<fcot_info_quick>] [<bind_info_quick>] [<bind_mac_quick>] [<bind_type_quick>] [<port_mode_quick>] [<fcid_quick>] [<cfg_port_vsan_quick>] [<vsan_quick>] [<port_rate_mode_quick>] [<oper_speed_quick>] [<admin_speed_quick>] [<port_channel_quick>] [<ip_addr1_quick>] [<oper_txbbcredit_quick>] [<oper_rxbbcredit_quick>] [<port_bb_scn_quick>] [<admin_rxbufsize_quick>] [<admin_port_encap_quick>] [<admin_beacon_mode_quick>] [<admin_fec_state_quick>] [<oper_fec_state_quick>] [<bundle_if_index_quick>] [<trkd_if_index_quick>] [<trk_cfg_vsans_quick>] [<trkd_port_state_quick>] [<num_ports_quick>] [TABLE_trk_intf_quick [<trk_intf_quick>]] [<info_type_num_quick>] [<info_model_num_quick>] [<info_manufacturer_quick>] [<info_port_id_quick>] [<active_vsan_quick>] [<trunk_vsan_up_quick>] [<trunk_vsan_isolated_quick>] [<trunk_vsan_initializing_quick>] [<in_bps_quick>] [<in_byps_quick>] [<in_fps_quick>] [<out_bps_quick>] [<out_byps_quick>] [<out_fps_quick>] [<total_in_frames_quick>] [<total_in_bytes_quick>] [<total_in_discards_quick>] [<total_in_errors_quick>] [<invalid_crc_quick>] [<unknown_class_frames_quick>] [<frames_too_long_quick>] [<frames_too_short_quick>] [<total_out_frames_quick>] [<total_out_bytes_quick>] [<total_out_discards_quick>] [<total_out_errors_quick>] [<in_ols_quick>] [<in_lrr_quick>] [<in_nos_quick>] [<in_loop_inits_quick>] [<out_ols_quick>] [<out_lrr_quick>] [<out_nos_quick>] [<out_loop_inits_quick>] [<rx_b2b_perf_buff_quick>] [<rx_b2b_credit_quick>] [<tx_b2b_credit_quick>] [<tx_b2b_low_pri_cre_quick>] [<fcoe_in_pkts_quick>] [<fcoe_in_octets_quick>] [<fcoe_out_pkts_quick>] [<fcoe_out_octets_quick>] [TABLE_members_quick [<port_channel_member_quick>]] [<interface_last_changed_quick>] [<time_last_cleared_quick>] [<eth_rsn_fac>] [<eth_rsn_code>] [<admin_state>] [<share_state>] [<parent_interface>] [<vpc_status>] [<eth_bundle>] [<eth_hw_desc>] [<eth_hw_addr>] [<eth_bia_addr>] [<desc>] [<eth_ip_addr>] [<eth_ip_mask>] [<eth_ip_prefix>] [<eth_mtu>] + [<eth_bw>] [<eth_dly>] [<eth_reliability>] [<eth_txload>] [<eth_rxload>] [<eth_encap_vlan>] [<encapsulation>] [<medium>] [<eth_mode>] [<eth_duplex>] [<eth_speed>] [<eth_media>] [<eth_beacon>] [<eth_autoneg>] [<eth_in_flowctrl>] [<eth_out_flowctrl>] [<eth_mdix>

] [<eth_ratemode>] [<eth_swt_monitor>] [<eth_ethertype>] [<eth_eee_state>] [<eth_admin_fec_state>] [<eth_oper_fec_state>] [<eth_members>] [<eth_link_flapped>] [<eth_clear_counters>] [<eth_reset_cntr>] [<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_inrate2_summary_bits>] [<eth_inrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_load_interval3_rx>] [<eth_inrate3_bits>] [<eth_inrate3_pkts>] [<eth_load_interval3_tx>] [<eth_outrate3_bits>] [<eth_outrate3_pkts>] [<eth_inrate3_summary_bits>] [<eth_inrate3_summary_pkts>] [<eth_outrate3_summary_bits>] [<eth_outrate3_summary_pkts>] [<eth_l2_ucastpkts>] [<eth_l2_ucastbytes>] [<eth_l2_mcastpkts>] [<eth_l2_mcastbytes>] [<eth_l2_bcastpkts>] [<eth_l2_bcastbytes>] [<eth_l3in_routed_pkts>] [<eth_l3in_routed_bytes>] [<eth_l3out_routed_pkts>] [<eth_l3out_routed_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_ucastbytes>] [<eth_l3in_mcastpkts>] [<eth_l3in_mcastbytes>] [<eth_l3in_bcastpkts>] [<eth_l3in_bcastbytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_ucastbytes>] [<eth_l3out_mcastpkts>] [<eth_l3out_mcastbytes>] [<eth_l3out_bcastpkts>] [<eth_l3out_bcastbytes>] [<eth_l3avg1_inbytes>] [<eth_l3avg1_inpkts>] [<eth_l3avg1_outbytes>] [<eth_l3avg1_outpkts>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_inpkts>] [<eth_inbytes>] [<eth_jumbo_inpkts>] [<eth_storm_supp>] [<eth_runts>] [<eth_giants>] [<eth_crc>] [<eth_nobuf>] [<eth_inerr>] [<eth_frame>] [<eth_overrun>] [<eth_underrun>] [<eth_ignored>] [<eth_watchdog>] [<eth_bad_eth>] [<eth_bad_proto>] [<eth_in_ifdown_drops>] [<eth_dribble>] [<eth_indiscard>] [<eth_inpause>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_outpkts>] [<eth_outbytes>] [<eth_jumbo_outpkts>] [<eth_outerr>] [<eth_coll>] [<eth_deferred>] [<eth_latecoll>] [<eth_lostcarrier>] [<eth_nocarrier>] [<eth_babbles>] [<eth_outdiscard>] [<eth_outpause>] [<mgmt_hw_desc>] [<mgmt_hw_addr>] [<mgmt_ip_addr>] [<mgmt_ip_mask>] [<mgmt_mtu>] [<mgmt_speed>] [<mgmt_duplex>] [<vdc_lvl_in_avg_bits>] [<vdc_lvl_in_avg_pkts>] [<vdc_lvl_out_avg_bits>] [<vdc_lvl_out_avg_pkts>] [<vdc_lvl_in_pkts>] [<vdc_lvl_in_ucast>] [<vdc_lvl_in_mcast>] [<vdc_lvl_in_bcast>] [<vdc_lvl_in_bytes>] [<vdc_lvl_in_bps>] [<vdc_lvl_in_pps>] [<vdc_lvl_out_pkts>] [<vdc_lvl_out_ucast>] [<vdc_lvl_out_mcast>] [<vdc_lvl_out_bcast>] [<vdc_lvl_out_bytes>] [<vdc_lvl_out_bps>] [<vdc_lvl_out_pps>] [<mgmt_in_pkts>] [<mgmt_in_bytes>] [<mgmt_in_mcast>] [<mgmt_in_compressed>] [<mgmt_in_errors>] [<mgmt_in_frame>] [<mgmt_in_overrun>] [<mgmt_in_fifo>] [<mgmt_out_pkts>] [<mgmt_out_bytes>] [<mgmt_out_underruns>] [<mgmt_out_errors>] [<mgmt_out_collisions>] [<mgmt_out_fifo>] [<mgmt_out_carrier>] [<mgmt_align_err>] [<mgmt_fcs_err>] [<mgmt_xmit_err>] [<mgmt_rcv_err>] [<mgmt_undersize>] [<mgmt_outdisc>] [<mgmt_single_col>] [<mgmt_multi_col>] [<mgmt_late_col>] [<mgmt_excess_col>] [<mgmt_carri_sen>] [<mgmt_runts>] [<mgmt_giants>] [<mgmt_sqetest_err>] [<mgmt_deferred_tx>] [<mgmt_inmactx_err>] [<mgmt_inmacrx_err>] [<mgmt_symbol_err>] [<loop_in_pkts>] [<loop_in_bytes>] [<loop_in_mcast>] [<loop_in_compressed>] [<loop_in_errors>] [<loop_in_frame>] [<loop_in_overrun>] [<loop_in_fifo>] [<loop_out_pkts>] [<loop_out_bytes>] [<loop_out_underruns>] [<loop_out_errors>] [<loop_out_collisions>] [<loop_out_fifo>] [<loop_out_carriers>] <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type> <keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> } <dest-hostname> <vrf_name> <tunnel_vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu> <tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate> <tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> [<svi_if_index>] [<svi_admin_state>] [<oper_state>] [<svi_rsn_desc>] [<svi_line_proto>] [<svi_hw>] [<svi_mac>] [<svi_desc>] [<svi_ip_addr>] [<svi_ip_mask>] [<svi_mtu>] [<svi_bw>] [<svi_delay>] [<vlan_id>] [<type>] [<svi_tx_load>] [<svi_rx_load>] [<svi_carrier_delay_sec>] [<svi_carrier_delay_msec>] [<svi_arp_type>] [<svi_arp_timeout>] [<svi_time_last_cleared>] { [TABLE_sec_vlan] [<sec_vlan>] [<sec_vlan_type>] } [<svi_routed_pkts_in>] [<svi_routed_bytes_in>] [<svi_routed_pkts_out>] [<svi_routed_bytes_out>] [<svi_ucast_pkts_in>] [<svi_ucast_bytes_in>] [<svi_mcast_pkts_in>] [

<svi_mcast_bytes_in>] [<svi_ucast_pkts_out>] [<svi_ucast_bytes_out>] [<svi_mcast_pkts_out>] [<svi_mcast_bytes_out>] [<svi_ipv4_ucast_pkts_in>] [<svi_ipv4_ucast_bytes_in>] [<svi_ipv4_ucast_pkts_out>] [<svi_ipv4_ucast_bytes_out>] [<svi_ipv4_mcast_pkts_in>] [<svi_ipv4_mcast_bytes_in>] [<svi_ipv4_mcast_pkts_out>] [<svi_ipv4_mcast_bytes_out>] [<svi_ipv6_ucast_pkts_in>] [<svi_ipv6_ucast_bytes_in>] [<svi_ipv6_ucast_pkts_out>] [<svi_ipv6_ucast_bytes_out>] [<svi_ipv6_mcast_pkts_in>] [<svi_ipv6_mcast_bytes_in>] [<svi_ipv6_mcast_pkts_out>] [<svi_ipv6_mcast_bytes_out>] [<svi_average_input_bits>] [<svi_average_input_packets>] [<svi_average_output_bits>] [<svi_average_output_packets>] [<svi_rate_in_mins>] [<svi_reliability>] [<overlay_addr>] [<overlay_addr_mask>] [<overlay_mtu>] [<overlay_bandwidth>] [<overlay_encap_str>] [<overlay_vrf>] [<overlay_src_addr>] [<overlay_dst_addr>] [<overlay_last_link_flap>] [<overlay_clear_counters>] [<overlay_load_interval>] [<overlay_rx_ucastpkts>] [<overlay_rx_ucastbytes>] [<overlay_rx_mcastpkts>] [<overlay_rx_mcastbytes>] [<overlay_rx_pkts>] [<overlay_rx_bytes>] [<overlay_rx_bcastpkts>] [<overlay_rx_bcastbytes>] [<overlay_rx_bitrate>] [<overlay_rx_pktrate>] [<overlay_tx_ucastpkts>] [<overlay_tx_ucastbytes>] [<overlay_tx_mcastpkts>] [<overlay_tx_mcastbytes>] [<overlay_tx_bcastpkts>] [<overlay_tx_bcastbytes>] [<overlay_tx_pkts>] [<overlay_tx_bytes>] [<overlay_tx_bitrate>] [<overlay_tx_pktrate>] <switchport>]

Syntax Description

show	Show running system information
interface	Show interface status and information
controller	(Optional) Show controller configured interfaces
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
state_rsn_desc	(Optional) Interface state reason detailed
state_rsn	(Optional) Interface state reason
vsan_brief	(Optional) vsan for brief
oper_port_state	(Optional) oper port state
port_state	(Optional) port state
bound_interface	(Optional) bound interface
port_desc	(Optional) port description
port_des	(Optional) port description
mgmt_hw_desc1	(Optional) HW description
mgmt_hw_addr1	(Optional) HW address

port_name	(Optional) port description
hardware	(Optional) Hardware is
sfp	(Optional) sfp
port_wwn	(Optional) port wwn
peer_port_wwn	(Optional) peer port wwn
admin_mode	(Optional) admin mode
admin_trunk_mode	(Optional) admin trunk mode
snmp_trap	(Optional) snmp trap
status	(Optional) Status
state_rsn1	(Optional) state reason
fcot_info	(Optional) fcot info
bind_info	(Optional) bind interface
bind_mac	(Optional) bind mac
bind_type	(Optional) bind type
port_mode	(Optional) port mode
fcid	(Optional) fcid
cfg_port_vsan	(Optional) config port vsan
vsan	(Optional) vsan for brief
port_rate_mode	(Optional) operation port rate mode
oper_speed	(Optional) speed
admin_speed	(Optional) admin speed
port_channel	(Optional) port channel
ip_addr1	(Optional) Ip address
oper_txbbcredit	(Optional) oper tx bbcredit
oper_rxbbcredit	(Optional) oper rx bbcredit
port_bb_scn	(Optional) port bb scn
admin_rxbufsize	(Optional) admin rx bufsize
admin_port_encap	(Optional) admin port encap
admin_beacon_mode	(Optional) admin beacon mode

admin_fec_state	(Optional) admin fec state
oper_fec_state	(Optional) oper fec state
bundle_if_index	(Optional) bundle if index
trkd_if_index	(Optional) Trunk interfaces
trk_cfg_vsans	(Optional) Trunk vsans
trkd_port_state	(Optional) trunk port state
num_ports	(Optional) number of ports
TABLE_trk_intf	(Optional) trunk interfaces
trk_intf	(Optional) track interface
info_type_num	(Optional) info type num
info_model_num	(Optional) info model num
info_manufacturer	(Optional) info manufacturer
info_port_id	(Optional) info port id
active_vsan	(Optional) allowed and active vsan
trunk_vsan_up	(Optional) trunk vsan up
trunk_vsan_isolated	(Optional) trunk vsan isolated
trunk_vsan_initializing	(Optional) trunk vsan initializing
in_bps	(Optional) input bits/sec
in_byps	(Optional) input bytes/sec
in_fps	(Optional) input frames/sec
out_bps	(Optional) output bits/sec
out_byps	(Optional) output bytes/sec
out_fps	(Optional) output frames/sec
total_in_frames	(Optional) total in frames
total_in_bytes	(Optional) total in bytes
total_in_discards	(Optional) total in discards
total_in_errors	(Optional) total in errors
invalid_crc	(Optional) invalid crc
unknown_class_frames	(Optional) unknown class frames

frames_too_long	(Optional) frames too long
frames_too_short	(Optional) frames too short
total_out_frames	(Optional) total out frames
total_out_bytes	(Optional) total out bytes
total_out_discards	(Optional) total out discards
total_out_errors	(Optional) total out errors
in_ols	(Optional) input OLS
in_lrr	(Optional) input LRR
in_nos	(Optional) input NOS
in_loop_inits	(Optional) input loop inits
out_ols	(Optional) output OLS
out_lrr	(Optional) ouput LRR
out_nos	(Optional) output NOS
out_loop_inits	(Optional) output loop inits
rx_b2b_perf_buff	(Optional) rx b2b performance buff
rx_b2b_credit	(Optional) rx b2b credit
tx_b2b_credit	(Optional) tx b2b credit
tx_b2b_low_pri_cre	(Optional) tx b2b low pri credit
fcoe_in_pkts	(Optional) fcoe in pkts
fcoe_in_octets	(Optional) fcoe in octets
fcoe_out_pkts	(Optional) fcoe out pkts
fcoe_out_octets	(Optional) fcoe out octets
TABLE_members	(Optional) table for port-channel member interface
port_channel_member	(Optional) port-channel member interface
interface_last_changed	(Optional) interface last changed
time_last_cleared	(Optional) counters last cleared
interface_quick	(Optional) Interface index
vsan_brief_quick	(Optional) vsan for brief
oper_port_state_quick	(Optional) oper port state

port_state_quick	(Optional) port state
bound_interface_quick	(Optional) bound interface
port_desc_quick	(Optional) port description
port_des_quick	(Optional) port description
mgmt_hw_desc1_quick	(Optional) HW description
mgmt_hw_addr1_quick	(Optional) HW address
port_name_quick	(Optional) port description
hardware_quick	(Optional) Hardware is
sfp_quick	(Optional) sfp
port_wwn_quick	(Optional) port wwn
peer_port_wwn_quick	(Optional) peer port wwn
admin_mode_quick	(Optional) admin mode
admin_trunk_mode_quick	(Optional) admin trunk mode
snmp_trap_quick	(Optional) snmp trap
status_quick	(Optional) Status
state_rsn1_quick	(Optional) state reason
fcot_info_quick	(Optional) fcot info
bind_info_quick	(Optional) bind interface
bind_mac_quick	(Optional) bind mac
bind_type_quick	(Optional) bind type
port_mode_quick	(Optional) port mode
fcid_quick	(Optional) fcid
cfg_port_vsan_quick	(Optional) config port vsan
vsan_quick	(Optional) vsan for brief
port_rate_mode_quick	(Optional) operation port rate mode
oper_speed_quick	(Optional) speed
admin_speed_quick	(Optional) admin speed
port_channel_quick	(Optional) port channel
ip_addr1_quick	(Optional) Ip address

oper_txbbcredit_quick	(Optional) oper tx bbcredit
oper_rxbbcredit_quick	(Optional) oper rx bbcredit
port_bb_scn_quick	(Optional) port bb scn
admin_rxbufsize_quick	(Optional) admin rx bufsize
admin_port_encap_quick	(Optional) admin port encap
admin_beacon_mode_quick	(Optional) admin beacon mode
admin_fec_state_quick	(Optional) admin fec state
oper_fec_state_quick	(Optional) oper fec state
bundle_if_index_quick	(Optional) bundle if index
trkd_if_index_quick	(Optional) Trunk interfaces
trk_cfg_vsans_quick	(Optional) Trunk vsans
trkd_port_state_quick	(Optional) trunk port state
num_ports_quick	(Optional) number of ports
TABLE_trk_intf_quick	(Optional) trunk interfaces
trk_intf_quick	(Optional) track interface
info_type_num_quick	(Optional) info type num
info_model_num_quick	(Optional) info model num
info_manufacturer_quick	(Optional) info manufacturer
info_port_id_quick	(Optional) info port id
active_vsan_quick	(Optional) allowed and active vsan
trunk_vsan_up_quick	(Optional) trunk vsan up
trunk_vsan_isolated_quick	(Optional) trunk vsan isolated
trunk_vsan_initializing_quick	(Optional) trunk vsan initializing
in_bps_quick	(Optional) input bits/sec
in_byps_quick	(Optional) input bytes/sec
in_fps_quick	(Optional) input frames/sec
out_bps_quick	(Optional) output bits/sec
out_byps_quick	(Optional) output bytes/sec
out_fps_quick	(Optional) output frames/sec

total_in_frames_quick	(Optional) total in frames
total_in_bytes_quick	(Optional) total in bytes
total_in_discards_quick	(Optional) total in discards
total_in_errors_quick	(Optional) total in errors
invalid_crc_quick	(Optional) invalid crc
unknown_class_frames_quick	(Optional) unknown class frames
frames_too_long_quick	(Optional) frames too long
frames_too_short_quick	(Optional) frames too short
total_out_frames_quick	(Optional) total out frames
total_out_bytes_quick	(Optional) total out bytes
total_out_discards_quick	(Optional) total out discards
total_out_errors_quick	(Optional) total out errors
in_ols_quick	(Optional) input OLS
in_lrr_quick	(Optional) input LRR
in_nos_quick	(Optional) input NOS
in_loop_inits_quick	(Optional) input loop inits
out_ols_quick	(Optional) output OLS
out_lrr_quick	(Optional) ouput LRR
out_nos_quick	(Optional) output NOS
out_loop_inits_quick	(Optional) output loop inits
rx_b2b_perf_buff_quick	(Optional) rx b2b performance buff
rx_b2b_credit_quick	(Optional) rx b2b credit
tx_b2b_credit_quick	(Optional) tx b2b credit
tx_b2b_low_pri_cre_quick	(Optional) tx b2b low pri credit
fcoe_in_pkts_quick	(Optional) fcoe in pkts
fcoe_in_octets_quick	(Optional) fcoe in octets
fcoe_out_pkts_quick	(Optional) fcoe out pkts
fcoe_out_octets_quick	(Optional) fcoe out octets
TABLE_members_quick	(Optional) table for port-channel member interface

port_channel_member_quick	(Optional) port-channel member interface
interface_last_changed_quick	(Optional) interface last changed
time_last_cleared_quick	(Optional) counters last cleared
eth_rsn_fac	(Optional) State reason facility
eth_rsn_code	(Optional) State reason code
admin_state	(Optional) admin state
share_state	(Optional) Interface ownership
parent_interface	(Optional) parent interface
vpc_status	(Optional) VPC status
eth_bundle	(Optional) Belongs to bundle
eth_hw_desc	(Optional) HW description
eth_hw_addr	(Optional) HW address
eth_bia_addr	(Optional) bia address
desc	(Optional) Interface description
eth_ip_addr	(Optional) IP Address
eth_ip_mask	(Optional) IP address mask
eth_ip_prefix	(Optional) IP address prefix
eth_mtu	(Optional) MTU
eth_bw	(Optional) Bandwidth
eth_dly	(Optional) Delay
eth_reliability	(Optional) Reliability
eth_txload	(Optional) Tx load
eth_rxload	(Optional) Rx load
eth_encap_vlan	(Optional) Encapsulation Vlan
encapsulation	(Optional) Encapsulation
medium	(Optional) medium type
eth_mode	(Optional) Port mode
eth_duplex	(Optional) Duplex
eth_speed	(Optional) Speed

eth_media	(Optional) Media type
eth_beacon	(Optional) Beacon
eth_autoneg	(Optional) Autonegotiation
eth_in_flowctrl	(Optional) Input flowcontrol
eth_out_flowctrl	(Optional) Output flowcontrol
eth_mdix	(Optional) Mdix
eth_ratemode	(Optional) Rate mode
eth_swt_monitor	(Optional) Switchport Monitor
eth_ethertype	(Optional) EtherType
eth_eee_state	(Optional) EEE state
eth_admin_fec_state	(Optional) Admin FEC state
eth_oper_fec_state	(Optional) Oper FEC state
eth_members	(Optional) Members in this channel
eth_link_flapped	(Optional) Last link flapped
eth_clear_counters	(Optional) Last clearing of show interface counters
eth_reset_cntr	(Optional) Interface resets
eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(Optional) interval 1 input rate bits/sec
eth_inrate1_pkts	(Optional) interval 1 input rate pkts/sec
eth_load_interval1_tx	(Optional) interval 1 timer value in sec
eth_outrate1_bits	(Optional) interval 1 output rate bits/sec
eth_outrate1_pkts	(Optional) interval 1 output rate pkts/sec
eth_inrate1_summary_bits	(Optional) interval 1 input rate bit summary
eth_inrate1_summary_pkts	(Optional) interval 1 input rate pkt summary
eth_outrate1_summary_bits	(Optional) interval 1 output rate bit summary
eth_outrate1_summary_pkts	(Optional) interval 1 output rate pkt summary
eth_load_interval2_rx	(Optional) interval 2 timer value in sec
eth_inrate2_bits	(Optional) interval 2 input rate bits/sec
eth_inrate2_pkts	(Optional) interval 2 input rate pkts/sec

eth_load_interval2_tx	(Optional) interval 2 timer value in sec
eth_outrate2_bits	(Optional) interval 2 output rate bits/sec
eth_outrate2_pkts	(Optional) interval 2 output rate pkts/sec
eth_inrate2_summary_bits	(Optional) interval 2 input rate bit summary
eth_inrate2_summary_pkts	(Optional) interval 2 input rate pkt summary
eth_outrate2_summary_bits	(Optional) interval 2 output rate bit summary
eth_outrate2_summary_pkts	(Optional) interval 2 output rate pkt summary
eth_load_interval3_rx	(Optional) interval 3 timer value in sec
eth_inrate3_bits	(Optional) interval 3 input rate bits/sec
eth_inrate3_pkts	(Optional) interval 3 input rate pkts/sec
eth_load_interval3_tx	(Optional) interval 3 timer value in sec
eth_outrate3_bits	(Optional) interval 3 output rate bits/sec
eth_outrate3_pkts	(Optional) interval 3 output rate pkts/sec
eth_inrate3_summary_bits	(Optional) interval 3 input rate bit summary
eth_inrate3_summary_pkts	(Optional) interval 3 input rate pkt summary
eth_outrate3_summary_bits	(Optional) interval 3 output rate bit summary
eth_outrate3_summary_pkts	(Optional) interval 3 output rate pkt summary
eth_l2_ucastpkts	(Optional) L2 switched ucast pkts
eth_l2_ucastbytes	(Optional) L2 switched ucast bytes
eth_l2_mcastpkts	(Optional) L2 switched mcast pkts
eth_l2_mcastbytes	(Optional) L2 switched mcast bytes
eth_l2_bcastpkts	(Optional) L2 switched bcast pkts
eth_l2_bcastbytes	(Optional) L2 switched bcast bytes
eth_l3in_ucastpkts	(Optional) L3 in switched ucast pkts
eth_l3in_ucastbytes	(Optional) L3 in switched ucast bytes
eth_l3in_mcastpkts	(Optional) L3 in switched mcast pkts
eth_l3in_mcastbytes	(Optional) L3 in switched mcast bytes
eth_l3in_bcastpkts	(Optional) L3 in switched bcast pkts
eth_l3in_bcastbytes	(Optional) L3 in switched bcast bytes

eth_l3out_ucastpkts	(Optional) L3 out switched ucast pkts
eth_l3out_ucastbytes	(Optional) L3 out switched ucast bytes
eth_l3out_mcastpkts	(Optional) L3 out switched mcast pkts
eth_l3out_mcastbytes	(Optional) L3 out switched mcast bytes
eth_l3out_bcastpkts	(Optional) L3 out switched bcast pkts
eth_l3out_bcastbytes	(Optional) L3 out switched bcast bytes
eth_l3in_routed_pkts	(Optional) L3 in routed pkts
eth_l3in_routed_bytes	(Optional) L3 in routed bytes
eth_l3out_routed_pkts	(Optional) L3 out routed pkts
eth_l3out_routed_bytes	(Optional) L3 out routed bytes
eth_l3avg1_inbytes	(Optional) Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	(Optional) Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	(Optional) Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	(Optional) Load interval 1 L3 average out switched pkts
eth_inucast	(Optional) Unicasts
eth_inmcast	(Optional) Multicasts
eth_inbcast	(Optional) Broadcasts
eth_inpkts	(Optional) Packets input
eth_inbytes	(Optional) Bytes input
eth_jumbo_inpkts	(Optional) Incoming jumbo pkts
eth_storm_supp	(Optional) storm suppression
eth_runts	(Optional) runts
eth_giants	(Optional) giants
eth_crc	(Optional) CRC
eth_nobuf	(Optional) No buffer received
eth_inerr	(Optional) input errors
eth_frame	(Optional) frame
eth_overrun	(Optional) overrun
eth_underrun	(Optional) underruns

eth_ignored	(Optional) ignored
eth_watchdog	(Optional) watchdog
eth_bad_eth	(Optional) bad ether type drop
eth_bad_proto	(Optional) bad protocol drops
eth_in_ifdown_drops	(Optional) Input if-down drops
eth_dribble	(Optional) input packets with dribble condition
eth_indiscard	(Optional) discards
eth_inpause	(Optional) pause input
eth_outucast	(Optional) Unicasts
eth_outmcast	(Optional) Multicasts
eth_outbcast	(Optional) Broadcasts
eth_outpkts	(Optional) packets output
eth_outbytes	(Optional) bytes output
eth_jumbo_outpkts	(Optional) Outgoing jumbo pkts
eth_outerr	(Optional) output errors
eth_coll	(Optional) collisions
eth_deferred	(Optional) deferred
eth_latecoll	(Optional) late collision
eth_lostcarrier	(Optional) lost carrier
eth_nocarrier	(Optional) no carrier
eth_babbles	(Optional) babbles
eth_outdiscard	(Optional) output discard
eth_outpause	(Optional) PAUSE output
mgmt_hw_desc	(Optional) HW description
mgmt_hw_addr	(Optional) HW address
mgmt_ip_addr	(Optional) IP address
mgmt_ip_mask	(Optional) IP address mask
mgmt_mtu	(Optional) MTU
mgmt_speed	(Optional) Speed

mgmt_duplex	(Optional) Duplex
vdc_lvl_in_avg_bits	(Optional) VDC level average input bits
vdc_lvl_in_avg_pkts	(Optional) VDC level average input packets
vdc_lvl_out_avg_bits	(Optional) VDC level average output bits
vdc_lvl_out_avg_pkts	(Optional) VDC level average output packets
vdc_lvl_in_pkts	(Optional) VDC level input packets
vdc_lvl_in_ucast	(Optional) VDC level input unicast packets
vdc_lvl_in_mcast	(Optional) VDC level input multicast packets
vdc_lvl_in_bcast	(Optional) VDC level input broadcast packets
vdc_lvl_in_bytes	(Optional) VDC level input bytes
vdc_lvl_in_bps	(Optional) VDC level input bytes per second
vdc_lvl_in_pps	(Optional) VDC level input packets per second
vdc_lvl_out_pkts	(Optional) VDC level output packets
vdc_lvl_out_ucast	(Optional) VDC level output unicast packets
vdc_lvl_out_mcast	(Optional) VDC level output multicast packets
vdc_lvl_out_bcast	(Optional) VDC level output broadcast packets
vdc_lvl_out_bytes	(Optional) VDC level output bytes
vdc_lvl_out_bps	(Optional) VDC level output bytes per second
vdc_lvl_out_pps	(Optional) VDC level output packets per second
mgmt_in_pkts	(Optional) Input packets
mgmt_in_bytes	(Optional) Input bytes
mgmt_in_mcast	(Optional) Input multicast frames
mgmt_in_compressed	(Optional) Input compressed
mgmt_in_errors	(Optional) Input errors
mgmt_in_frame	(Optional) Input frame errors
mgmt_in_overrun	(Optional) Input overrun
mgmt_in_fifo	(Optional) Input fifo
mgmt_out_pkts	(Optional) Output packets
mgmt_out_bytes	(Optional) Output bytes

mgmt_out_underruns	(Optional) Output overruns
mgmt_out_errors	(Optional) Output errors
mgmt_out_collisions	(Optional) Output collisions
mgmt_out_fifo	(Optional) Output fifo
mgmt_out_carrier	(Optional) Output carrier errors
mgmt_align_err	(Optional) Align error
mgmt_fcs_err	(Optional) FCS error
mgmt_xmit_err	(Optional) Transmit error
mgmt_rcv_err	(Optional) Receive error
mgmt_undersize	(Optional) Undersize
mgmt_outdisc	(Optional) Out discard
mgmt_single_col	(Optional) Single collision
mgmt_multi_col	(Optional) Multiple collision
mgmt_late_col	(Optional) Late collision
mgmt_excess_col	(Optional) Excess collision
mgmt_carri_sen	(Optional) Carrier sense
mgmt_runts	(Optional) Runts
mgmt_giants	(Optional) Giants
mgmt_sqetest_err	(Optional) SQETest error
mgmt_deferred_tx	(Optional) Deferred tx
mgmt_inmactx_err	(Optional) In MAC tx
mgmt_inmacrx_err	(Optional) In MAC rx
mgmt_symbol_err	(Optional) Symbol error
loop_in_pkts	(Optional) Input packets
loop_in_bytes	(Optional) Input bytes
loop_in_mcast	(Optional) Input multicast
loop_in_compressed	(Optional) Input compressed
loop_in_errors	(Optional) Input errors
loop_in_frame	(Optional) Input frame errors

loop_in_overrun	(Optional) Input overrun
loop_in_fifo	(Optional) Input fifo
loop_out_pkts	(Optional) Output packets
loop_out_bytes	(Optional) Output bytes
loop_out_underruns	(Optional) Output underruns
loop_out_errors	(Optional) Output errors
loop_out_collisions	(Optional) Output collisions
loop_out_fifo	(Optional) Output fifo
loop_out_carriers	(Optional) Output carrier errors
admin-state	(Optional)
tunnel-ipv4	(Optional) interface IPv4 address
mtu	(Optional) interface Maximum Transmission Unit
bandwidth	(Optional) interface Bandwidth in kilobits
encap-type	(Optional)
keepalive-period	(Optional) keealive period
keepalive-retries	(Optional) number of retries
src-ipv4	(Optional) tunnel source IPv4 address
src-intf	(Optional) tunnel source interface
dest-ipv4	(Optional) tunnel destination IPv4 address
dest-hostname	(Optional) tunnel destination hostname
vrf_name	(Optional) transport VRF name
tunnel_vrf_name	(Optional) tunnel VRF name
wccp_header	(Optional) wccp header
ttl_val	(Optional) tunnel time to live value
tunnel_pmtud_age_time	(Optional) tunnel path MTU discovery age time
tunnel_pmtud_min_mtu	(Optional) tunnel path MTU discovery min mtu
tunnel_pmtud	(Optional) tunnel path MTU discovered
tunnel_pgm_mtu	(Optional) tunnel actual programmed MTU
tunnel_rx_pkt_count	(Optional) total number of packets received

tunnel_rx_byte_count	(Optional) total number of bytes received
tunnel_rx_rate	(Optional) packets input rate per 5 minutes
tunnel_tx_pkt_count	(Optional) total number of packets transmitted
tunnel_tx_byte_count	(Optional) total number of bytes transmitted
tunnel_tx_rate	(Optional) packets transmitted per 5 minutes
tunnel_clear_counter	(Optional) Last clearing of show interface counters
svi_if_index	(Optional) Interface
svi_admin_state	(Optional)
oper_state	(Optional)
svi_rsn_desc	(Optional) Interface state reason detailed
svi_line_proto	(Optional)
svi_hw	(Optional) Hardware
svi_mac	(Optional) Address
svi_desc	(Optional) Interface Description
svi_ip_addr	(Optional) IP Address
svi_ip_mask	(Optional) IP address mask
svi_mtu	(Optional) MTU size in bytes
svi_bw	(Optional) Bandwidth in kilobits
svi_delay	(Optional) Throughput delay (tens of microseconds)
vlan_id	(Optional) Vlan
type	(Optional) type
svi_tx_load	(Optional) Tx Load
svi_rx_load	(Optional) Rx Load
svi_carrier_delay_sec	(Optional) carrier delay value in seconds
svi_carrier_delay_msec	(Optional) carrier delay value in milli-seconds
svi_arp_type	(Optional) ARP type
svi_arp_timeout	(Optional) ARP timeout value
svi_time_last_cleared	(Optional) Time last cleared
TABLE_sec_vlan	(Optional) secondary vlans

sec_vlan	(Optional) vlan id
sec_vlan_type	(Optional) secondary vlan type
svi_reliability	(Optional) Reliability
overlay_addr	(Optional) Overlay address
overlay_addr_mask	(Optional) Overlay address mask
overlay_mtu	(Optional) MTU
overlay_bandwidth	(Optional) Bandwidth
overlay_encap_str	(Optional) Encap type
overlay_vrf	(Optional) VRF
overlay_src_addr	(Optional) Source address
overlay_dst_addr	(Optional) Destination address
overlay_last_link_flap	(Optional) Last link flap
overlay_clear_counters	(Optional) Last clearing of show interface counters
overlay_load_interval	(Optional) Load interval
overlay_rx_ucastpkts	(Optional) Received ucast pkts
overlay_rx_ucastbytes	(Optional) Received ucast bytes
overlay_rx_mcastpkts	(Optional) Received mcast pkts
overlay_rx_mcastbytes	(Optional) Received mcast bytes
overlay_rx_bcastpkts	(Optional) Received bcast pkts
overlay_rx_bcastbytes	(Optional) Received bcast bytes
overlay_rx_pkts	(Optional) Total received pkts
overlay_rx_bytes	(Optional) Total received bytes
overlay_rx_bitrate	(Optional) Receive bit rate
overlay_rx_pktrate	(Optional) Receive pkt rate
overlay_tx_ucastpkts	(Optional) Trasnmitted ucast pkts
overlay_tx_ucastbytes	(Optional) Trasnmitted ucast bytes
overlay_tx_mcastpkts	(Optional) Trasnmitted mcast pkts
overlay_tx_mcastbytes	(Optional) Trasnmitted mcast bytes
overlay_tx_bcastpkts	(Optional) Trasnmitted bcast pkts

overlay_tx_bcastbytes	(Optional) Trasnmitted bcast bytes
overlay_tx_pkts	(Optional) Total transmitted pkts
overlay_tx_bytes	(Optional) Total transmitted bytes
overlay_tx_bitrate	(Optional) Transmit bit rate
overlay_tx_pktrate	(Optional) Transmit pkt rate
switchport	(Optional) Switchport enabled

Command Mode

- /exec

show interface

show interface <ifloop> [__readonly__ TABLE_interface <interface> [<state>] [<admin_state>] [<share_state>] [<state_rsn>] [<state_rsn_desc>] [<desc>] [<eth_bundle>] [<mgmt_sfp>] [<mgmt_type>] [<eth_eee_state>] [<eth_dce_mode>] [<vpc_status>] [<eth_rsn_fac>] [<eth_rsn_code>] [<eth_hw_desc>] [<eth_hw_addr>] [<eth_bia_addr>] [<eth_ip_addr>] [<eth_ip_mask>] [<eth_ip_prefix>] [<eth_mtu>] [<eth_bw>] [<eth_encap_vlan>] [<encapsulation>] [<eth_dly>] [<eth_reliability>] [<eth_txload>] [<eth_rxload>] [<eth_loopback>] [<eth_keepalive>] [<eth_duplex>] [<eth_speed>] [<eth_mode>] [<eth_ratemode>] [<eth_autoneg>] [<eth_beacon>] [<eth_media>] [<eth_in_flowctrl>] [<eth_out_flowctrl>] [<eth_mdix>] [<eth_swt_monitor>] [<eth_ethertype>] [<eth_members>] [<eth_clk_mode>] [<eth_arp_type>] [<eth_arp_timeout>] [<eth_last_in>] [<eth_last_out>] [<eth_out_hang>] [<eth_clear_counters>] [<eth_link_flapped>] [<eth_inq_size>] [<eth_inq_max>] [<eth_inq_drops>] [<eth_inq_flush>] [<eth_out_drop>] [<eth_q_strategy>] [<eth_outq_size>] [<eth_outq_max>] [<eth_reset_cntr>] [<loop_in_pkts>] [<loop_in_bytes>] [<loop_in_mcast>] [<loop_in_compressed>] [<loop_in_errors>] [<loop_in_frame>] [<loop_in_overrun>] [<loop_in_fifo>] [<loop_out_pkts>] [<loop_out_bytes>] [<loop_out_underruns>] [<loop_out_errors>] [<loop_out_collisions>] [<loop_out_fifo>] [<loop_out_carriers>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifloop	Enter interface type and number in module/slot format
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
admin_state	(Optional) Interface admin state
share_state	(Optional) Interface ownership
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed
desc	(Optional) Interface description
mgmt_sfp	(Optional) mgmt sfp
mgmt_type	(Optional) mgmt type
eth_bundle	(Optional) Belongs to bundle
eth_eee_state	(Optional) EEE state
eth_dce_mode	(Optional) DCE mode description

vpc_status	(Optional) VPC status
eth_rsn_fac	(Optional) State reason facility
eth_rsn_code	(Optional) State reason code
eth_hw_desc	(Optional) HW description
eth_hw_addr	(Optional) HW address
eth_bia_addr	(Optional) bia address
eth_ip_addr	(Optional) IP Address
eth_ip_mask	(Optional) IP address mask
eth_ip_prefix	(Optional) IP Prefix
eth_mtu	(Optional) MTU
eth_bw	(Optional) Bandwidth
eth_encap_vlan	(Optional) Encapsulation Vlan
encapsulation	(Optional) Encapsulation
eth_dly	(Optional) Delay
eth_reliability	(Optional) Reliability
eth_txload	(Optional) Tx load
eth_rxload	(Optional) Rx load
eth_loopback	(Optional) Loopback
eth_keepalive	(Optional) Keepalive
eth_duplex	(Optional) Duplex
eth_speed	(Optional) Speed
eth_mode	(Optional) Port mode
eth_ratemode	(Optional) Rate mode
eth_autoneg	(Optional) Autonegotiation
eth_beacon	(Optional) Beacon
eth_media	(Optional) Media type
eth_in_flowctrl	(Optional) Input flowcontrol
eth_out_flowctrl	(Optional) Output flowcontrol
eth_mdix	(Optional) Mdix

eth_swt_monitor	(Optional) Switchport Monitor
eth_ethertype	(Optional) EtherType
eth_members	(Optional) Members in this channel
eth_clk_mode	(Optional) Clock mode
eth_arp_type	(Optional) ARP type
eth_arp_timeout	(Optional) ARP timeout
eth_last_in	(Optional) Last input
eth_last_out	(Optional) Last output
eth_out_hang	(Optional) Last output hang
eth_clear_counters	(Optional) Last clearing of show interface counters
eth_link_flapped	(Optional) Last link flapped
eth_inq_size	(Optional) Input queue size
eth_inq_max	(Optional) Input queue max
eth_inq_drops	(Optional) Input queue drops
eth_inq_flush	(Optional) Input queue flushes
eth_out_drop	(Optional) Output drops
eth_q_strategy	(Optional) Queueing strategy
eth_outq_size	(Optional) Output queue size
eth_outq_max	(Optional) Output queue max
eth_reset_cntr	(Optional) Interface resets
loop_in_pkts	(Optional) Input packets
loop_in_bytes	(Optional) Input bytes
loop_in_mcast	(Optional) Input multicast
loop_in_compressed	(Optional) Input compressed
loop_in_errors	(Optional) Input errors
loop_in_frame	(Optional) Input frame errors
loop_in_overrun	(Optional) Input overrun
loop_in_fifo	(Optional) Input fifo
loop_out_pkts	(Optional) Output packets

loop_out_bytes	(Optional) Output bytes
loop_out_underruns	(Optional) Output underruns
loop_out_errors	(Optional) Output errors
loop_out_collisions	(Optional) Output collisions
loop_out_fifo	(Optional) Output fifo
loop_out_carriers	(Optional) Output carrier errors

Command Mode

- /exec

show interface

show interface <iftun_desc> [__readonly__ TABLE_interface <interface> <state> [<state_rsn_desc>] [<desc>] <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type> <keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> } <dest-hostname> <vrf_name> <tunnel_vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu> <tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate> <tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter>]

Syntax Description

show	Show running system information
interface	Show interface status and information
iftun_desc	Enter tunnel interface number
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
state_rsn_desc	(Optional) Interface state reason detailed
desc	(Optional) Interface description
admin-state	(Optional)
tunnel-ipv4	(Optional) interface IPv4 address
mtu	(Optional) interface Maximum Transmission Unit
bandwidth	(Optional) interface Bandwidth in kilobits
encap-type	(Optional)
keepalive-period	(Optional) keealive period
keepalive-retries	(Optional) number of retries
src-ipv4	(Optional) tunnel source IPv4 address
src-intf	(Optional) tunnel source interface
dest-ipv4	(Optional) tunnel destination IPv4 address
dest-hostname	(Optional) tunnel destination hostname
vrf_name	(Optional) transport VRF name
tunnel_vrf_name	(Optional) tunnel VRF name

wccp_header	(Optional) wccp header
ttl_val	(Optional) tunnel time to live value
tunnel_pmtud_age_time	(Optional) tunnel path MTU discovery age time
tunnel_pmtud_min_mtu	(Optional) tunnel path MTU discovery min mtu
tunnel_pmtud	(Optional) tunnel path MTU discovered
tunnel_pgm_mtu	(Optional) tunnel actual programmed MTU
tunnel_rx_pkt_count	(Optional) total number of packets received
tunnel_rx_byte_count	(Optional) total number of bytes received
tunnel_rx_rate	(Optional) packets input rate per 5 minutes
tunnel_tx_pkt_count	(Optional) total number of packets transmitted
tunnel_tx_byte_count	(Optional) total number of bytes transmitted
tunnel_tx_rate	(Optional) packets transmitted per 5 minutes
tunnel_clear_counter	(Optional) Last clearing of show interface counters

Command Mode

- /exec

show interface

show interface <ifeth> [quick] [__readonly__ TABLE_interface <interface> <state> [<state_rsn_desc>] [<state_rsn>] [<eth_rsn_fac>] [<eth_rsn_code>] [<admin_state>] [<share_state>] [<parent_interface>] [<vpc_status>] [<eth_bundle>] [<eth_hw_desc>] [<eth_hw_addr>] [<eth_bia_addr>] [<desc>] [<eth_ip_addr>] [<eth_ip_mask>] [<eth_ip_prefix>] [<eth_mtu>] + [<eth_bw>] [<eth_dly>] [<eth_reliability>] [<eth_txload>] [<eth_rxload>] [<eth_encap_vlan>] [<encapsulation>] [<medium>] [<eth_mode>] [<eth_duplex>] [<eth_speed>] [<eth_media>] [<eth_beacon>] [<eth_autoneg>] [<eth_in_flowctrl>] [<eth_out_flowctrl>] [<eth_mdix>] [<eth_ratemode>] [<eth_swt_monitor>] [<eth_ethertype>] [<eth_eee_state>] [<eth_admin_fec_state>] [<eth_oper_fec_state>] [<eth_members>] [<eth_link_flapped>] [<eth_clear_counters>] [<eth_reset_cntr>] [<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_inrate2_summary_bits>] [<eth_inrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_load_interval3_rx>] [<eth_inrate3_bits>] [<eth_inrate3_pkts>] [<eth_load_interval3_tx>] [<eth_outrate3_bits>] [<eth_outrate3_pkts>] [<eth_inrate3_summary_bits>] [<eth_inrate3_summary_pkts>] [<eth_outrate3_summary_bits>] [<eth_outrate3_summary_pkts>] [<eth_l2_ucastpkts>] [<eth_l2_ucastbytes>] [<eth_l2_mcastpkts>] [<eth_l2_mcastbytes>] [<eth_l2_bcastpkts>] [<eth_l2_bcastbytes>] [<eth_l3in_routed_pkts>] [<eth_l3in_routed_bytes>] [<eth_l3out_routed_pkts>] [<eth_l3out_routed_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_ucastbytes>] [<eth_l3in_mcastpkts>] [<eth_l3in_mcastbytes>] [<eth_l3in_bcastpkts>] [<eth_l3in_bcastbytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_ucastbytes>] [<eth_l3out_mcastpkts>] [<eth_l3out_mcastbytes>] [<eth_l3out_bcastpkts>] [<eth_l3out_bcastbytes>] [<eth_l3avg1_inbytes>] [<eth_l3avg1_inpkts>] [<eth_l3avg1_outbytes>] [<eth_l3avg1_outpkts>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_inpkts>] [<eth_inbytes>] [<eth_jumbo_inpkts>] [<eth_storm_supp>] [<eth_runts>] [<eth_giants>] [<eth_crc>] [<eth_nobuf>] [<eth_inerr>] [<eth_frame>] [<eth_overrun>] [<eth_underrun>] [<eth_ignored>] [<eth_watchdog>] [<eth_bad_eth>] [<eth_bad_proto>] [<eth_in_ifdown_drops>] [<eth_dribble>] [<eth_indiscard>] [<eth_inpause>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_outpkts>] [<eth_outbytes>] [<eth_jumbo_outpkts>] [<eth_outerr>] [<eth_coll>] [<eth_deferred>] [<eth_latecoll>] [<eth_lostcarrier>] [<eth_nocarrier>] [<eth_babbles>] [<eth_outdiscard>] [<eth_outpause>] [<switchport>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth	Enter interface type and number in module/slot format
quick	(Optional) Show info of interface skipping stats
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state

state_rsn_desc	(Optional) Interface state reason detailed
state_rsn	(Optional) Interface state reason
eth_rsn_fac	(Optional) State reason facility
eth_rsn_code	(Optional) State reason code
admin_state	(Optional) admin state
share_state	(Optional) Interface ownership
parent_interface	(Optional) parent interface
vpc_status	(Optional) VPC status
eth_bundle	(Optional) Belongs to bundle
eth_hw_desc	(Optional) HW description
eth_hw_addr	(Optional) HW address
eth_bia_addr	(Optional) bia address
desc	(Optional) Interface description
eth_ip_addr	(Optional) IP Address
eth_ip_mask	(Optional) IP address mask
eth_ip_prefix	(Optional) IP address prefix
eth_mtu	(Optional) MTU
eth_bw	(Optional) Bandwidth
eth_dly	(Optional) Delay
eth_reliability	(Optional) Reliability
eth_txload	(Optional) Tx load
eth_rxload	(Optional) Rx load
eth_encap_vlan	(Optional) Encapsulation Vlan
encapsulation	(Optional) Encapsulation
medium	(Optional) medium type
eth_mode	(Optional) Port mode
eth_duplex	(Optional) Duplex
eth_speed	(Optional) Speed
eth_media	(Optional) Media type

eth_beacon	(Optional) Beacon
eth_autoneg	(Optional) Autonegotiation
eth_in_flowctrl	(Optional) Input flowcontrol
eth_out_flowctrl	(Optional) Output flowcontrol
eth_mdix	(Optional) Mdix
eth_ratemode	(Optional) Rate mode
eth_swt_monitor	(Optional) Switchport Monitor
eth_ethertype	(Optional) EtherType
eth_eee_state	(Optional) EEE state
eth_admin_fec_state	(Optional) Admin FEC state
eth_oper_fec_state	(Optional) Oper FEC state
eth_members	(Optional) Members in this channel
eth_link_flapped	(Optional) Last link flapped
eth_clear_counters	(Optional) Last clearing of show interface counters
eth_reset_cntr	(Optional) Interface resets
eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(Optional) interval 1 input rate bits/sec
eth_inrate1_pkts	(Optional) interval 1 input rate pkts/sec
eth_load_interval1_tx	(Optional) interval 1 timer value in sec
eth_outrate1_bits	(Optional) interval 1 output rate bits/sec
eth_outrate1_pkts	(Optional) interval 1 output rate pkts/sec
eth_inrate1_summary_bits	(Optional) interval 1 input rate bit summary
eth_inrate1_summary_pkts	(Optional) interval 1 input rate pkt summary
eth_outrate1_summary_bits	(Optional) interval 1 output rate bit summary
eth_outrate1_summary_pkts	(Optional) interval 1 output rate pkt summary
eth_load_interval2_rx	(Optional) interval 2 timer value in sec
eth_inrate2_bits	(Optional) interval 2 input rate bits/sec
eth_inrate2_pkts	(Optional) interval 2 input rate pkts/sec
eth_load_interval2_tx	(Optional) interval 2 timer value in sec

eth_outrate2_bits	(Optional) interval 2 output rate bits/sec
eth_outrate2_pkts	(Optional) interval 2 output rate pkts/sec
eth_inrate2_summary_bits	(Optional) interval 2 input rate bit summary
eth_inrate2_summary_pkts	(Optional) interval 2 input rate pkt summary
eth_outrate2_summary_bits	(Optional) interval 2 output rate bit summary
eth_outrate2_summary_pkts	(Optional) interval 2 output rate pkt summary
eth_load_interval3_rx	(Optional) interval 3 timer value in sec
eth_inrate3_bits	(Optional) interval 3 input rate bits/sec
eth_inrate3_pkts	(Optional) interval 3 input rate pkts/sec
eth_load_interval3_tx	(Optional) interval 3 timer value in sec
eth_outrate3_bits	(Optional) interval 3 output rate bits/sec
eth_outrate3_pkts	(Optional) interval 3 output rate pkts/sec
eth_inrate3_summary_bits	(Optional) interval 3 input rate bit summary
eth_inrate3_summary_pkts	(Optional) interval 3 input rate pkt summary
eth_outrate3_summary_bits	(Optional) interval 3 output rate bit summary
eth_outrate3_summary_pkts	(Optional) interval 3 output rate pkt summary
eth_l2_ucastpkts	(Optional) L2 switched ucast pkts
eth_l2_ucastbytes	(Optional) L2 switched ucast bytes
eth_l2_mcastpkts	(Optional) L2 switched mcast pkts
eth_l2_mcastbytes	(Optional) L2 switched mcast bytes
eth_l2_bcastpkts	(Optional) L2 switched bcast pkts
eth_l2_bcastbytes	(Optional) L2 switched bcast bytes
eth_l3in_ucastpkts	(Optional) L3 in switched ucast pkts
eth_l3in_ucastbytes	(Optional) L3 in switched ucast bytes
eth_l3in_mcastpkts	(Optional) L3 in switched mcast pkts
eth_l3in_mcastbytes	(Optional) L3 in switched mcast bytes
eth_l3in_bcastpkts	(Optional) L3 in switched bcast pkts
eth_l3in_bcastbytes	(Optional) L3 in switched bcast bytes
eth_l3out_ucastpkts	(Optional) L3 out switched ucast pkts

eth_l3out_ucastbytes	(Optional) L3 out switched ucast bytes
eth_l3out_mcastpkts	(Optional) L3 out switched mcast pkts
eth_l3out_mcastbytes	(Optional) L3 out switched mcast bytes
eth_l3out_bcastpkts	(Optional) L3 out switched bcast pkts
eth_l3out_bcastbytes	(Optional) L3 out switched bcast bytes
eth_l3in_routed_pkts	(Optional) L3 in routed pkts
eth_l3in_routed_bytes	(Optional) L3 in routed bytes
eth_l3out_routed_pkts	(Optional) L3 out routed pkts
eth_l3out_routed_bytes	(Optional) L3 out routed bytes
eth_l3avg1_inbytes	(Optional) Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	(Optional) Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	(Optional) Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	(Optional) Load interval 1 L3 average out switched pkts
eth_inucast	(Optional) Unicasts
eth_inmcast	(Optional) Multicasts
eth_inbcast	(Optional) Broadcasts
eth_inpkts	(Optional) Packets input
eth_inbytes	(Optional) Bytes input
eth_jumbo_inpkts	(Optional) Incoming jumbo pkts
eth_storm_supp	(Optional) storm suppression
eth_runts	(Optional) runts
eth_giants	(Optional) giants
eth_crc	(Optional) CRC
eth_nobuf	(Optional) No buffer received
eth_inerr	(Optional) input errors
eth_frame	(Optional) frame
eth_overrun	(Optional) overrun
eth_underrun	(Optional) underruns
eth_ignored	(Optional) ignored

eth_watchdog	(Optional) watchdog
eth_bad_eth	(Optional) bad ether type drop
eth_bad_proto	(Optional) bad protocol drops
eth_in_ifdown_drops	(Optional) Input if-down drops
eth_dribble	(Optional) input packets with dribble condition
eth_indiscard	(Optional) discards
eth_inpause	(Optional) pause input
eth_outucast	(Optional) Unicasts
eth_outmcast	(Optional) Multicasts
eth_outbcast	(Optional) Broadcasts
eth_outpkts	(Optional) packets output
eth_outbytes	(Optional) bytes output
eth_jumbo_outpkts	(Optional) Outgoing jumbo pkts
eth_outerr	(Optional) output errors
eth_coll	(Optional) collisions
eth_deferred	(Optional) deferred
eth_latecoll	(Optional) late collision
eth_lostcarrier	(Optional) lost carrier
eth_nocarrier	(Optional) no carrier
eth_babbles	(Optional) babbles
eth_outdiscard	(Optional) output discard
eth_outpause	(Optional) PAUSE output
switchport	(Optional) Switchport enabled

Command Mode

- /exec

show interface

show interface <ifrange> [__readonly__ TABLE_interface <interface> <state> <state_rsn> <state_rsn_desc> <desc> [<overlay_addr>] [<overlay_addr_mask>] [<overlay_mtu>] [<overlay_bandwidth>] [<overlay_encap_str>] [<overlay_vrf>] [<overlay_src_addr>] [<overlay_dst_addr>] [<overlay_last_link_flap>] [<overlay_clear_counters>] [<overlay_load_interval>] [<overlay_rx_ucastpkts>] [<overlay_rx_ucastbytes>] [<overlay_rx_mcastpkts>] [<overlay_rx_mcastbytes>] [<overlay_rx_pkts>] [<overlay_rx_bytes>] [<overlay_rx_bcastpkts>] [<overlay_rx_bcastbytes>] [<overlay_rx_bitrate>] [<overlay_rx_pktrate>] [<overlay_tx_ucastpkts>] [<overlay_tx_ucastbytes>] [<overlay_tx_mcastpkts>] [<overlay_tx_mcastbytes>] [<overlay_tx_bcastpkts>] [<overlay_tx_bcastbytes>] [<overlay_tx_pkts>] [<overlay_tx_bytes>] [<overlay_tx_bitrate>] [<overlay_tx_pktrate>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter interface type and number
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed
desc	(Optional) Interface description
overlay_addr	(Optional) Overlay address
overlay_addr_mask	(Optional) Overlay address mask
overlay_mtu	(Optional) MTU
overlay_bandwidth	(Optional) Bandwidth
overlay_encap_str	(Optional) Encap type
overlay_vrf	(Optional) VRF
overlay_src_addr	(Optional) Source address
overlay_dst_addr	(Optional) Destination address
overlay_last_link_flap	(Optional) Last link flap
overlay_clear_counters	(Optional) Last clearing of show interface counters

overlay_load_interval	(Optional) Load interval
overlay_rx_ucastpkts	(Optional) Received ucast pkts
overlay_rx_ucastbytes	(Optional) Received ucast bytes
overlay_rx_mcastpkts	(Optional) Received mcast pkts
overlay_rx_mcastbytes	(Optional) Received mcast bytes
overlay_rx_bcastpkts	(Optional) Received bcast pkts
overlay_rx_bcastbytes	(Optional) Received bcast bytes
overlay_rx_pkts	(Optional) Total received pkts
overlay_rx_bytes	(Optional) Total received bytes
overlay_rx_bitrate	(Optional) Receive bit rate
overlay_rx_pktrate	(Optional) Receive pkt rate
overlay_tx_ucastpkts	(Optional) Trasnmitted ucast pkts
overlay_tx_ucastbytes	(Optional) Trasnmitted ucast bytes
overlay_tx_mcastpkts	(Optional) Trasnmitted mcast pkts
overlay_tx_mcastbytes	(Optional) Trasnmitted mcast bytes
overlay_tx_bcastpkts	(Optional) Trasnmitted bcast pkts
overlay_tx_bcastbytes	(Optional) Trasnmitted bcast bytes
overlay_tx_pkts	(Optional) Total transmitted pkts
overlay_tx_bytes	(Optional) Total transmitted bytes
overlay_tx_bitrate	(Optional) Transmit bit rate
overlay_tx_pktrate	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface

show interface <ifrange> [__readonly__ TABLE_interface <interface> <state> [<state_rsn_desc>] [<state_rsn>] [<admin_state>] [<eth_rsn_fac>] [<eth_rsn_code>] [<share_state>] [<vpc_status>] [<eth_bundle>] [<eth_hw_desc>] [<eth_hw_addr>] [<eth_bia_addr>] [<desc>] [<eth_ip_addr>] [<eth_ip_mask>] [<eth_mtu>] [<eth_bw>] [<eth_dly>] [<eth_reliability>] [<eth_txload>] [<eth_rxload>] [<eth_encap_vlan>] [<encapsulation>] [<eth_mode>] [<eth_duplex>] [<eth_speed>] [<eth_media>] [<eth_beacon>] [<eth_autoneg>] [<eth_in_flowctrl>] [<eth_out_flowctrl>] [<eth_mdix>] [<eth_ratemode>] [<eth_swt_monitor>] [<eth_ethertype>] [<eth_members>] [<eth_link_flapped>] [<eth_clear_counters>] [<eth_reset_cntr>] [<nve_addr>] [<nve_addr_mask>] [<nve_vcid>] [<nve_mtu>] [<nve_bandwidth>] [<nve_encap_str>] [<nve_vrf>] [<nve_src_addr>] [<nve_dst_addr>] [<nve_last_link_flap>] [<nve_clear_counters>] [<nve_load_interval>] [<nve_rx_ucastpkts>] [<nve_rx_ucastbytes>] [<nve_rx_mcastpkts>] [<nve_rx_mcastbytes>] [<nve_rx_pkts>] [<nve_rx_bytes>] [<nve_rx_bcastpkts>] [<nve_rx_bcastbytes>] [<nve_rx_bitrate>] [<nve_rx_pktrate>] [<nve_tx_ucastpkts>] [<nve_tx_ucastbytes>] [<nve_tx_mcastpkts>] [<nve_tx_mcastbytes>] [<nve_tx_bcastpkts>] [<nve_tx_bcastbytes>] [<nve_tx_pkts>] [<nve_tx_bytes>] [<nve_tx_bitrate>] [<nve_tx_pktrate>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter interface type and number
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
state_rsn_desc	(Optional) Interface state reason detailed
state_rsn	(Optional) Interface state reason
admin_state	(Optional) admin state
eth_rsn_fac	(Optional) State reason facility
eth_rsn_code	(Optional) State reason code
share_state	(Optional) Interface ownership
vpc_status	(Optional) VPC status
eth_bundle	(Optional) Belongs to bundle
eth_hw_desc	(Optional) HW description
eth_hw_addr	(Optional) HW address

eth_bia_addr	(Optional) bia address
desc	(Optional) Interface description
eth_ip_addr	(Optional) IP Address
eth_ip_mask	(Optional) IP address mask
eth_mtu	(Optional) MTU
eth_bw	(Optional) Bandwidth
eth_dly	(Optional) Delay
eth_reliability	(Optional) Reliability
eth_txload	(Optional) Tx load
eth_rxload	(Optional) Rx load
eth_encap_vlan	(Optional) Encapsulation Vlan
encapsulation	(Optional) Encapsulation
eth_mode	(Optional) Port mode
eth_duplex	(Optional) Duplex
eth_speed	(Optional) Speed
eth_media	(Optional) Media type
eth_beacon	(Optional) Beacon
eth_autoneg	(Optional) Autonegotiation
eth_in_flowctrl	(Optional) Input flowcontrol
eth_out_flowctrl	(Optional) Output flowcontrol
eth_mdix	(Optional) Mdix
eth_ratemode	(Optional) Rate mode
eth_swt_monitor	(Optional) Switchport Monitor
eth_ethertype	(Optional) EtherType
eth_members	(Optional) Members in this channel
eth_link_flapped	(Optional) Last link flapped
eth_clear_counters	(Optional) Last clearing of show interface counters
eth_reset_cntr	(Optional) Interface resets
nve_addr	(Optional) Peer address

nve_addr_mask	(Optional) Peer address mask
nve_vcid	(Optional) VCID
nve_mtu	(Optional) MTU
nve_bandwidth	(Optional) Bandwidth
nve_encap_str	(Optional) Encap type
nve_vrf	(Optional) VRF
nve_src_addr	(Optional) Source address
nve_dst_addr	(Optional) Destination address
nve_last_link_flap	(Optional) Last link flap
nve_clear_counters	(Optional) Last clearing of show interface counters
nve_load_interval	(Optional) Load interval
nve_rx_ucastpkts	(Optional) Received ucast pkts
nve_rx_ucastbytes	(Optional) Received ucast bytes
nve_rx_mcastpkts	(Optional) Received mcast pkts
nve_rx_mcastbytes	(Optional) Received mcast bytes
nve_rx_bcastpkts	(Optional) Received bcast pkts
nve_rx_bcastbytes	(Optional) Received bcast bytes
nve_rx_pkts	(Optional) Total received pkts
nve_rx_bytes	(Optional) Total received bytes
nve_rx_bitrate	(Optional) Receive bit rate
nve_rx_pktrate	(Optional) Receive pkt rate
nve_tx_ucastpkts	(Optional) Trasnmitted ucast pkts
nve_tx_ucastbytes	(Optional) Trasnmitted ucast bytes
nve_tx_mcastpkts	(Optional) Trasnmitted mcast pkts
nve_tx_mcastbytes	(Optional) Trasnmitted mcast bytes
nve_tx_bcastpkts	(Optional) Trasnmitted bcast pkts
nve_tx_bcastbytes	(Optional) Trasnmitted bcast bytes
nve_tx_pkts	(Optional) Total transmitted pkts
nve_tx_bytes	(Optional) Total transmitted bytes

nve_tx_bitrate	(Optional) Transmit bit rate
nve_tx_pktrate	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface aggregate-counters

show interface aggregate-counters [brief] [__readonly__ TABLE_interface <interface_aggr> [<str_aggr>] [<if_index_aggr>] [<in_bps_aggr>] [<in_byps_aggr>] [<in_fps_aggr>] [<out_bps_aggr>] [<out_byps_aggr>] [<out_fps_aggr>] [<total_in_frames_aggr>] [<total_in_bytes_aggr>] [<C2InFrames_aggr>] [<C2InOctets_aggr>] [<C3InFrames_aggr>] [<C3InOctets_aggr>] [<CfInFrames_aggr>] [<CfInOctets_aggr>] [<total_in_discards_aggr>] [<total_in_errors_aggr>] [<InvalidCrcs_aggr>] [<UnknownClassFrames_aggr>] [<FramesTooLong_aggr>] [<FramesTooShort_aggr>] [<total_out_frames_aggr>] [<total_out_bytes_aggr>] [<C2OutFrames_aggr>] [<C2OutOctets_aggr>] [<C3OutFrames_aggr>] [<C3OutOctets_aggr>] [<CfOutFrames_aggr>] [<CfOutOctets_aggr>] [<total_out_discards_aggr>] [<total_out_errors_aggr>] [<OlsIns_aggr>] [<LRRIn_aggr>] [<NOSIn_aggr>] [<in_lip_aggr>] [<OlsOuts_aggr>] [<LRROut_aggr>] [<NOSOut_aggr>] [<out_lip_aggr>] [<LinkFailures_aggr>] [<SyncLosses_aggr>] [<SigLosses_aggr>] [<TxBBCreditTransistionToZero_aggr>] [<RxBBCreditTransistionToZero_aggr>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<InputRate_aggr_brief>] [<TotalIpFrame_aggr_brief>] [<OutRate_aggr_brief>] [<TotalOpFrame_aggr_brief>] [<line_aggr_brief>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief
__readonly__	(Optional) Read Only
interface_aggr	(Optional) Interface index
TABLE_interface	(Optional) show interface
str_aggr	(Optional) string
if_index_aggr	(Optional) index
in_bps_aggr	(Optional) input rate in bits/s
in_byps_aggr	(Optional) input rate in bytes/s
in_fps_aggr	(Optional) input rate in frames/s
out_bps_aggr	(Optional) output rate in bits/s
out_byps_aggr	(Optional) output rate in bytes/s
out_fps_aggr	(Optional) output rate in frames/s
total_in_frames_aggr	(Optional) total input frames
total_in_bytes_aggr	(Optional) total input frames
C2InFrames_aggr	(Optional) class-2 frames

C2InOctets_aggr	(Optional) class-2 frames in bytes
C3InFrames_aggr	(Optional) class-3 frames
C3InOctets_aggr	(Optional) class-3 frames in bytes
CfInFrames_aggr	(Optional) class-f frames
CfInOctets_aggr	(Optional) class-f frames in bytes
total_in_discards_aggr	(Optional) total in discards
total_in_errors_aggr	(Optional) total in errors
InvalidCrcs_aggr	(Optional) invalid CRC
UnknownClassFrames_aggr	(Optional) unknown class
FramesTooLong_aggr	(Optional) too long
FramesTooShort_aggr	(Optional) too short
total_out_frames_aggr	(Optional) total out frames
total_out_bytes_aggr	(Optional) total out frames in byte
C2OutFrames_aggr	(Optional) class-2 out frames
C2OutOctets_aggr	(Optional) class-2 out frames in bytes
C3OutFrames_aggr	(Optional) class-3 out frames
C3OutOctets_aggr	(Optional) class-3 out frames in bytes
CfOutFrames_aggr	(Optional) class-f out frames
CfOutOctets_aggr	(Optional) class-f out frames in bytes
total_out_discards_aggr	(Optional) total out discards
total_out_errors_aggr	(Optional) total out errors
OlsIns_aggr	(Optional) input OLS
LRRIn_aggr	(Optional) input LRR
NOSIn_aggr	(Optional) input NOS
in_lip_aggr	(Optional) loop inits
OlsOuts_aggr	(Optional) output OLS
LRROut_aggr	(Optional) output LRR
NOSOut_aggr	(Optional) output NOS
out_lip_aggr	(Optional) loop inits

LinkFailures_aggr	(Optional) link faliure
SyncLosses_aggr	(Optional) sync losses
SigLosses_aggr	(Optional) signal losses
TxBBCreditTransistionToZero_aggr	(Optional) B2B credit transitions to zero
RxBBCreditTransistionToZero_aggr	(Optional) B2B credit transitions to zero
rx_b2b_perf_buff	(Optional) rx B2B performance buff
rx_b2b_credit	(Optional) rx B2B credit
tx_b2b_credit	(Optional) tx B2B credit
tx_b2b_low_pri_cre	(Optional) tx B2B low price credit
InputRate_aggr_brief	(Optional) Input rate in MBps
TotalIpFrame_aggr_brief	(Optional) Total input frames
OutRate_aggr_brief	(Optional) Output rate in MBps
TotalOpFrame_aggr_brief	(Optional) Total output frames
line_aggr_brief	(Optional) to print a line

Command Mode

- /exec

show interface aggregate-counters

show interface <ifid_aggr_ctrs2> aggregate-counters [brief] [__readonly__ TABLE_interface <interface_aggr> [<str_aggr>] [<if_index_aggr>] [<in_bps_aggr>] [<in_byps_aggr>] [<in_fps_aggr>] [<out_bps_aggr>] [<out_byps_aggr>] [<out_fps_aggr>] [<total_in_frames_aggr>] [<total_in_bytes_aggr>] [<C2InFrames_aggr>] [<C2InOctets_aggr>] [<C3InFrames_aggr>] [<C3InOctets_aggr>] [<CfInFrames_aggr>] [<CfInOctets_aggr>] [<total_in_discards_aggr>] [<total_in_errors_aggr>] [<InvalidCrcs_aggr>] [<UnknownClassFrames_aggr>] [<FramesTooLong_aggr>] [<FramesTooShort_aggr>] [<total_out_frames_aggr>] [<total_out_bytes_aggr>] [<C2OutFrames_aggr>] [<C2OutOctets_aggr>] [<C3OutFrames_aggr>] [<C3OutOctets_aggr>] [<CfOutFrames_aggr>] [<CfOutOctets_aggr>] [<total_out_discards_aggr>] [<total_out_errors_aggr>] [<OlsIns_aggr>] [<LRRIn_aggr>] [<NOSIn_aggr>] [<in_lip_aggr>] [<OlsOuts_aggr>] [<LRROut_aggr>] [<NOSOut_aggr>] [<out_lip_aggr>] [<LinkFailures_aggr>] [<SyncLosses_aggr>] [<SigLosses_aggr>] [<TxBBCreditTransistionToZero_aggr>] [<RxBBCreditTransistionToZero_aggr>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<InputRate_aggr_brief>] [<TotalIpFrame_aggr_brief>] [<OutRate_aggr_brief>] [<TotalOpFrame_aggr_brief>] [<line_aggr_brief>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_aggr_ctrs2	Enter interface type and number in module/slot format
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief
__readonly__	(Optional) Read Only
interface_aggr	(Optional) Interface index
TABLE_interface	(Optional) show interface
str_aggr	(Optional) string
if_index_aggr	(Optional) index
in_bps_aggr	(Optional) input rate in bits/s
in_byps_aggr	(Optional) input rate in bytes/s
in_fps_aggr	(Optional) input rate in frames/s
out_bps_aggr	(Optional) output rate in bits/s
out_byps_aggr	(Optional) output rate in bytes/s
out_fps_aggr	(Optional) output rate in frames/s
total_in_frames_aggr	(Optional) total input frames

total_in_bytes_aggr	(Optional) total input frames
C2InFrames_aggr	(Optional) class-2 frames
C2InOctets_aggr	(Optional) class-2 frames in bytes
C3InFrames_aggr	(Optional) class-3 frames
C3InOctets_aggr	(Optional) class-3 frames in bytes
CfInFrames_aggr	(Optional) class-f frames
CfInOctets_aggr	(Optional) class-f frames in bytes
total_in_discards_aggr	(Optional) total in discards
total_in_errors_aggr	(Optional) total in errors
InvalidCrcs_aggr	(Optional) invalid CRC
UnknownClassFrames_aggr	(Optional) unknown class
FramesTooLong_aggr	(Optional) too long
FramesTooShort_aggr	(Optional) too short
total_out_frames_aggr	(Optional) total out frames
total_out_bytes_aggr	(Optional) total out frames in byte
C2OutFrames_aggr	(Optional) class-2 out frames
C2OutOctets_aggr	(Optional) class-2 out frames in bytes
C3OutFrames_aggr	(Optional) class-3 out frames
C3OutOctets_aggr	(Optional) class-3 out frames in bytes
CfOutFrames_aggr	(Optional) class-f out frames
CfOutOctets_aggr	(Optional) class-f out frames in bytes
total_out_discards_aggr	(Optional) total out discards
total_out_errors_aggr	(Optional) total out errors
OlsIns_aggr	(Optional) input OLS
LRRIn_aggr	(Optional) input LRR
NOSIn_aggr	(Optional) input NOS
in_lip_aggr	(Optional) loop inits
OlsOuts_aggr	(Optional) output OLS
LRROut_aggr	(Optional) output LRR

NOSOut_aggr	(Optional) output NOS
out_lip_aggr	(Optional) loop inits
LinkFailures_aggr	(Optional) link faliure
SyncLosses_aggr	(Optional) sync losses
SigLosses_aggr	(Optional) signal losses
TxBBCreditTransistionToZero_aggr	(Optional) B2B credit transitions to zero
RxBBCreditTransistionToZero_aggr	(Optional) B2B credit transitions to zero
rx_b2b_perf_buff	(Optional) rx B2B performance buff
rx_b2b_credit	(Optional) rx B2B credit
tx_b2b_credit	(Optional) tx B2B credit
tx_b2b_low_pri_cre	(Optional) tx B2B low price credit
InputRate_aggr_brief	(Optional) Input rate in MBps
TotalIpFrame_aggr_brief	(Optional) Total input frames
OutRate_aggr_brief	(Optional) Output rate in MBps
TotalOpFrame_aggr_brief	(Optional) Total output frames
line_aggr_brief	(Optional) to print a line

Command Mode

- /exec

show interface aggregate-counters

show interface <ifid_aggr_ctrs> aggregate-counters [brief] [__readonly__ TABLE_interface <interface_aggr> [<str_aggr>] [<if_index_aggr>] [<in_bps_aggr>] [<in_byps_aggr>] [<in_fps_aggr>] [<out_bps_aggr>] [<out_byps_aggr>] [<out_fps_aggr>] [<total_in_frames_aggr>] [<total_in_bytes_aggr>] [<C2InFrames_aggr>] [<C2InOctets_aggr>] [<C3InFrames_aggr>] [<C3InOctets_aggr>] [<CfInFrames_aggr>] [<CfInOctets_aggr>] [<total_in_discards_aggr>] [<total_in_errors_aggr>] [<InvalidCrcs_aggr>] [<UnknownClassFrames_aggr>] [<FramesTooLong_aggr>] [<FramesTooShort_aggr>] [<total_out_frames_aggr>] [<total_out_bytes_aggr>] [<C2OutFrames_aggr>] [<C2OutOctets_aggr>] [<C3OutFrames_aggr>] [<C3OutOctets_aggr>] [<CfOutFrames_aggr>] [<CfOutOctets_aggr>] [<total_out_discards_aggr>] [<total_out_errors_aggr>] [<OlsIns_aggr>] [<LRRIn_aggr>] [<NOSIn_aggr>] [<in_lip_aggr>] [<OlsOuts_aggr>] [<LRROut_aggr>] [<NOSOut_aggr>] [<out_lip_aggr>] [<LinkFailures_aggr>] [<SyncLosses_aggr>] [<SigLosses_aggr>] [<TxBBCreditTransistionToZero_aggr>] [<RxBBCreditTransistionToZero_aggr>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<InputRate_aggr_brief>] [<TotalIpFrame_aggr_brief>] [<OutRate_aggr_brief>] [<TotalOpFrame_aggr_brief>] [<line_aggr_brief>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_aggr_ctrs	Enter interface type and number in module/slot format
aggregate-counters	Show interface aggregate counters
brief	(Optional) Show interface aggregate counters in brief
__readonly__	(Optional) Read Only
interface_aggr	(Optional) Interface index
TABLE_interface	(Optional) show interface
str_aggr	(Optional) string
if_index_aggr	(Optional) index
in_bps_aggr	(Optional) input rate in bits/s
in_byps_aggr	(Optional) input rate in bytes/s
in_fps_aggr	(Optional) input rate in frames/s
out_bps_aggr	(Optional) output rate in bits/s
out_byps_aggr	(Optional) output rate in bytes/s
out_fps_aggr	(Optional) output rate in frames/s
total_in_frames_aggr	(Optional) total input frames
total_in_bytes_aggr	(Optional) total input frames

C2InFrames_aggr	(Optional) class-2 frames
C2InOctets_aggr	(Optional) class-2 frames in bytes
C3InFrames_aggr	(Optional) class-3 frames
C3InOctets_aggr	(Optional) class-3 frames in bytes
CfInFrames_aggr	(Optional) class-f frames
CfInOctets_aggr	(Optional) class-f frames in bytes
total_in_discards_aggr	(Optional) total in discards
total_in_errors_aggr	(Optional) total in errors
InvalidCrcs_aggr	(Optional) invalid CRC
UnknownClassFrames_aggr	(Optional) unknown class
FramesTooLong_aggr	(Optional) too long
FramesTooShort_aggr	(Optional) too short
total_out_frames_aggr	(Optional) total out frames
total_out_bytes_aggr	(Optional) total out frames in byte
C2OutFrames_aggr	(Optional) class-2 out frames
C2OutOctets_aggr	(Optional) class-2 out frames in bytes
C3OutFrames_aggr	(Optional) class-3 out frames
C3OutOctets_aggr	(Optional) class-3 out frames in bytes
CfOutFrames_aggr	(Optional) class-f out frames
CfOutOctets_aggr	(Optional) class-f out frames in bytes
total_out_discards_aggr	(Optional) total out discards
total_out_errors_aggr	(Optional) total out errors
OlsIns_aggr	(Optional) input OLS
LRRIn_aggr	(Optional) input LRR
NOSIn_aggr	(Optional) input NOS
in_lip_aggr	(Optional) loop inits
OlsOuts_aggr	(Optional) output OLS
LRROut_aggr	(Optional) output LRR
NOSOut_aggr	(Optional) output NOS

out_lip_aggr	(Optional) loop inits
LinkFailures_aggr	(Optional) link faliure
SyncLosses_aggr	(Optional) sync losses
SigLosses_aggr	(Optional) signal losses
TxBBCreditTransistionToZero_aggr	(Optional) B2B credit transitions to zero
RxBBCreditTransistionToZero_aggr	(Optional) B2B credit transitions to zero
rx_b2b_perf_buff	(Optional) rx B2B performance buff
rx_b2b_credit	(Optional) rx B2B credit
tx_b2b_credit	(Optional) tx B2B credit
tx_b2b_low_pri_cre	(Optional) tx B2B low price credit
InputRate_aggr_brief	(Optional) Input rate in MBps
TotalIpFrame_aggr_brief	(Optional) Total input frames
OutRate_aggr_brief	(Optional) Output rate in MBps
TotalOpFrame_aggr_brief	(Optional) Total output frames
line_aggr_brief	(Optional) to print a line

Command Mode

- /exec

show interface bbcredit

show interface <ifid_bbcrd> bbcredit [__readonly__ TABLE_interface [<interface_sfp> <state> [<down_reason>] [<transmit_b2b>] [<receive_b2b>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>]]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_bbcrd	Enter interface type and number in module/slot format
bbcredit	Show BB_credit information for interface
__readonly__	(Optional) Read Only
interface_sfp	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) State
down_reason	(Optional) Reason for interface being down
transmit_b2b	(Optional) Transmit B2B
receive_b2b	(Optional) Receive B2B
rx_b2b_perf_buff	(Optional) RX B2B performance buffer
rx_b2b_credit	(Optional) RX B2B credit remaining
tx_b2b_credit	(Optional) TX B2B credit remaining
tx_b2b_low_pri_cre	(Optional) TX B2B low priority Credit

Command Mode

- /exec

show interface brief

show interface <ifrange> brief [__readonly__ TABLE_interface <interface> <state> [<state_rsn>] [<state_rsn_desc>] [<overlay_mtu>] [<overlay_bandwidth>] [<overlay_vrf>] [<overlay_src_addr>] [<overlay_dst_addr>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter interface type and number
brief	Show brief info of interface
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed
overlay_mtu	(Optional) MTU
overlay_bandwidth	(Optional) Bandwidth
overlay_vrf	(Optional) VRF
overlay_src_addr	(Optional) Source address
overlay_dst_addr	(Optional) Destination address

Command Mode

- /exec

show interface brief

show interface <ifid_brf> brief [__readonly__ { TABLE_interface <interface> [<desc>] [[<svi_if_index>] [<svi_admin_state>] [<oper_state>] [<svi_rsn_desc>] [<svi_line_proto>] [<svi_hw>] [<svi_mac>] [<svi_desc>] [<svi_ip_addr>] [<svi_ip_mask>] [<svi_mtu>] [<svi_bw>] [<svi_delay>] [<vlan_id>] [<type>]] [[<svi_tx_load>] [<svi_rx_load>]] [[<svi_carrier_delay_sec>] [<svi_carrier_delay_msec>] [<svi_arp_type>] [<svi_arp_timeout>]] [[<svi_time_last_cleared>]] [{ TABLE_secondary_vlan <sec_vlan> <sec_vlan_type> }] [[<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_inrate2_summary_bits>] [<eth_inrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_load_interval3_rx>] [<eth_inrate3_bits>] [<eth_inrate3_pkts>] [<eth_load_interval3_tx>] [<eth_outrate3_bits>] [<eth_outrate3_pkts>] [<eth_inrate3_summary_bits>] [<eth_inrate3_summary_pkts>] [<eth_outrate3_summary_bits>] [<eth_outrate3_summary_pkts>] [<eth_l2_ucastpkts>] [<eth_l2_ucastbytes>] [<eth_l2_mcastpkts>] [<eth_l2_mcastbytes>] [<eth_l2_bcastpkts>] [<eth_l2_bcastbytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_ucastbytes>] [<eth_l3in_mcastpkts>] [<eth_l3in_mcastbytes>] [<eth_l3in_bcastpkts>] [<eth_l3in_bcastbytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_ucastbytes>] [<eth_l3out_mcastpkts>] [<eth_l3out_mcastbytes>] [<eth_l3out_bcastpkts>] [<eth_l3out_bcastbytes>] [<eth_l3in_routed_pkts>] [<eth_l3in_routed_bytes>] [<eth_l3out_routed_pkts>] [<eth_l3out_routed_bytes>] [<eth_l3avg1_inbytes>] [<eth_l3avg1_inpkts>] [<eth_l3avg1_outbytes>] [<eth_l3avg1_outpkts>] [<eth_l3avg2_inbytes>] [<eth_l3avg2_inpkts>] [<eth_l3avg2_outbytes>] [<eth_l3avg2_outpkts>] [<eth_l3avg3_inbytes>] [<eth_l3avg3_inpkts>] [<eth_l3avg3_outbytes>] [<eth_l3avg3_outpkts>] [<eth_inpkts>] [<eth_inbytes>] [<eth_nobuf>] [<eth_inbcast>] [<eth_inmcast>] [<eth_inucast>] [<eth_ingiants>] [<eth_ipmcast>] [<eth_inhw_switched>] [<eth_insw_switched>] [<eth_runts>] [<eth_storm_supp>] [<eth_throtles>] [<eth_inerr>] [<eth_crc>] [<eth_ecc>] [<eth_frame>] [<eth_overrun>] [<eth_ignored>] [<eth_watchdog>] [<eth_outbcast>] [<eth_outmcast>] [<eth_outucast>] [<eth_outgiants>] [<eth_inpause>] [<eth_dribble>] [<eth_in_ifdown_drops>] [<eth_bad_eth>] [<eth_bad_proto>] [<eth_outpkts>] [<eth_outbytes>] [<eth_underrun>] [<eth_outhw_switched>] [<eth_outsw_switched>] [<eth_outerr>] [<eth_coll>] [<eth_resets>] [<eth_babbles>] [<eth_latecoll>] [<eth_deferred>] [<eth_lostcarrier>] [<eth_nocarrier>] [<eth_outpause>] [<eth_buffail>] [<eth_bufswapped>] [<eth_arpdrops>] [<eth_out_ifdown_drops>] [<eth_single_coll>] [<eth_multi_coll>] [<eth_excess_coll>] [<eth_jabbers>] [<eth_shortframe>] [<eth_indiscard>] [<eth_bad_encap>] [<eth_outcrc>] [<eth_symbol>] [<eth_out_drops>] [<eth_sqetest>] [<eth_inb64>] [<eth_inb65_127>] [<eth_inb128_255>] [<eth_inb256_511>] [<eth_inb512_1023>] [<eth_inb1024_1518>] [<eth_inb1519_1548>] [<eth_intrunk>] [<eth_outb64>] [<eth_outb65_127>] [<eth_outb128_255>] [<eth_outb256_511>] [<eth_outb512_1023>] [<eth_outb1024_1518>] [<eth_outb1519_1548>] [<eth_outtrunk>] [<eth_bpdu_outlost>] [<eth_cos0_outlost>] [<eth_cos1_outlost>] [<eth_cos2_outlost>] [<eth_cos3_outlost>] [<eth_cos4_outlost>] [<eth_cos5_outlost>] [<eth_cos6_outlost>] [<eth_cos7_outlost>] [<eth_fcoe_in_pkts>] [<eth_fcoe_in_octets>] [<eth_fcoe_out_pkts>] [<eth_fcoe_out_octets>] [<eth_nfcoe_in_pkts>] [<eth_nfcoe_in_octets>] [<eth_nfcoe_out_pkts>] [<eth_nfcoe_out_octets>] [<eth_eee_atx_lpi_msec>] [<eth_eee_arcv_lpi_msec>] [<eth_eee_atx_lpi_transitions>] [<eth_eee_arcv_lpi_transitions>] [<eth_phy_ber_count>] [<eth_phy_errblks_count>]] [[<svi_routed_pkts_in>] [<svi_routed_bytes_in>] [<svi_routed_pkts_out>] [<svi_routed_bytes_out>] [<svi_ucast_pkts_in>] [<svi_ucast_bytes_in>] [<svi_mcast_pkts_in>] [<svi_mcast_bytes_in>] [<svi_ucast_pkts_out>] [<svi_ucast_bytes_out>] [<svi_mcast_pkts_out>] [<svi_mcast_bytes_out>] [<svi_ipv4_ucast_pkts_in>] [<svi_ipv4_ucast_bytes_in>] [<svi_ipv4_ucast_pkts_out>] [<svi_ipv4_ucast_bytes_out>] [<svi_ipv4_mcast_pkts_in>] [<svi_ipv4_mcast_bytes_in>] [<svi_ipv4_mcast_pkts_out>] [<svi_ipv4_mcast_bytes_out>] [

<svi_ipv6_ucast_pkts_in>] [<svi_ipv6_ucast_bytes_in>] [<svi_ipv6_ucast_pkts_out>] [<svi_ipv6_ucast_bytes_out>] [<svi_ipv6_mcast_pkts_in>] [<svi_ipv6_mcast_bytes_in>] [<svi_ipv6_mcast_pkts_out>] [<svi_ipv6_mcast_bytes_out>] [<svi_average_input_bits>] [<svi_average_input_packets>] [<svi_average_output_bits>] [<svi_average_output_packets>] [<svi_rate_in_mins>]] [[<svi_reliability>]] [<switchport>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_brf	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
desc	(Optional) Interface description
svi_if_index	(Optional) Interface
svi_admin_state	(Optional)
oper_state	(Optional)
svi_rsn_desc	(Optional) Interface state reason detailed
svi_line_proto	(Optional)
svi_hw	(Optional) Hardware
svi_mac	(Optional) Address
svi_desc	(Optional) Interface Description
svi_ip_addr	(Optional) IP Address
svi_ip_mask	(Optional) IP address mask
svi_mtu	(Optional) MTU size in bytes
svi_bw	(Optional) Bandwidth in kilobits
svi_delay	(Optional) Throughput delay (tens of microseconds)
vlan_id	(Optional) Vlan
type	(Optional) type
svi_tx_load	(Optional) Tx Load
svi_rx_load	(Optional) Rx Load

svi_carrier_delay_sec	(Optional) carrier delay value in seconds
svi_carrier_delay_msec	(Optional) carrier delay value in milli-seconds
svi_arp_type	(Optional) ARP type
svi_arp_timeout	(Optional) ARP timeout value
svi_time_last_cleared	(Optional) Time last cleared
TABLE_secondary_vlan	(Optional) Secondary vlan
sec_vlan	(Optional) Secondary vlan ID
sec_vlan_type	(Optional) Secondary vlan type
eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(Optional) interval 1 input rate bits/sec
eth_inrate1_pkts	(Optional) interval 1 input rate pkts/sec
eth_load_interval1_tx	(Optional) interval 1 timer value in sec
eth_outrate1_bits	(Optional) interval 1 output rate bits/sec
eth_outrate1_pkts	(Optional) interval 1 output rate pkts/sec
eth_inrate1_summary_bits	(Optional) interval 1 input rate bit summary
eth_inrate1_summary_pkts	(Optional) interval 1 input rate pkt summary
eth_outrate1_summary_bits	(Optional) interval 1 output rate bit summary
eth_outrate1_summary_pkts	(Optional) interval 1 output rate pkt summary
eth_load_interval2_rx	(Optional) interval 2 timer value in sec
eth_inrate2_bits	(Optional) interval 2 input rate bits/sec
eth_inrate2_pkts	(Optional) interval 2 input rate pkts/sec
eth_load_interval2_tx	(Optional) interval 2 timer value in sec
eth_outrate2_bits	(Optional) interval 2 output rate bits/sec
eth_outrate2_pkts	(Optional) interval 2 output rate pkts/sec
eth_inrate2_summary_bits	(Optional) interval 2 input rate bit summary
eth_inrate2_summary_pkts	(Optional) interval 2 input rate pkt summary
eth_outrate2_summary_bits	(Optional) interval 2 output rate bit summary
eth_outrate2_summary_pkts	(Optional) interval 2 output rate pkt summary
eth_load_interval3_rx	(Optional) interval 3 timer value in sec

eth_inrate3_bits	(Optional) interval 3 input rate bits/sec
eth_inrate3_pkts	(Optional) interval 3 input rate pkts/sec
eth_load_interval3_tx	(Optional) interval 3 timer value in sec
eth_outrate3_bits	(Optional) interval 3 output rate bits/sec
eth_outrate3_pkts	(Optional) interval 3 output rate pkts/sec
eth_inrate3_summary_bits	(Optional) interval 3 input rate bit summary
eth_inrate3_summary_pkts	(Optional) interval 3 input rate pkt summary
eth_outrate3_summary_bits	(Optional) interval 3 output rate bit summary
eth_outrate3_summary_pkts	(Optional) interval 3 output rate pkt summary
eth_l2_ucastpkts	(Optional) L2 switched ucast pkts
eth_l2_ucastbytes	(Optional) L2 switched ucast bytes
eth_l2_mcastpkts	(Optional) L2 switched mcast pkts
eth_l2_mcastbytes	(Optional) L2 switched mcast bytes
eth_l2_bcastpkts	(Optional) L2 switched bcast pkts
eth_l2_bcastbytes	(Optional) L2 switched bcast bytes
eth_l3in_ucastpkts	(Optional) IPv4 L3 in switched ucast pkts
eth_l3in_ucastbytes	(Optional) IPv4 L3 in switched ucast bytes
eth_l3in_mcastpkts	(Optional) IPv4 L3 in switched mcast pkts
eth_l3in_mcastbytes	(Optional) IPv4 L3 in switched mcast bytes
eth_l3in_bcastpkts	(Optional) L3 in switched bcast pkts
eth_l3in_bcastbytes	(Optional) L3 in switched bcast bytes
eth_l3out_ucastpkts	(Optional) IPv4 L3 out switched ucast pkts
eth_l3out_ucastbytes	(Optional) IPv4 L3 out switched ucast bytes
eth_l3out_mcastpkts	(Optional) IPv4 L3 out switched mcast pkts
eth_l3out_mcastbytes	(Optional) IPv4 L3 out switched mcast bytes
eth_l3out_bcastpkts	(Optional) L3 out switched bcast pkts
eth_l3out_bcastbytes	(Optional) L3 out switched bcast bytes
eth_l3in_routed_pkts	(Optional) L3 in routed pkts
eth_l3in_routed_bytes	(Optional) L3 in routed bytes

eth_l3out_routed_pkts	(Optional) L3 out routed pkts
eth_l3out_routed_bytes	(Optional) L3 out routed bytes
eth_l3avg1_inbytes	(Optional) Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	(Optional) Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	(Optional) Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	(Optional) Load interval 1 L3 average out switched pkts
eth_l3avg2_inbytes	(Optional) Load interval 2 L3 average in switched bytes
eth_l3avg2_inpkts	(Optional) Load interval 2 L3 average in switched pkts
eth_l3avg2_outbytes	(Optional) Load interval 2 L3 average out switched bytes
eth_l3avg2_outpkts	(Optional) Load interval 2 L3 average out switched pkts
eth_l3avg3_inbytes	(Optional) Load interval 3 L3 average in switched bytes
eth_l3avg3_inpkts	(Optional) Load interval 3 L3 average in switched pkts
eth_l3avg3_outbytes	(Optional) Load interval 3 L3 average out switched bytes
eth_l3avg3_outpkts	(Optional) Load interval 3 L3 average out switched pkts
eth_inpkts	(Optional) Packets input
eth_inbytes	(Optional) Bytes input
eth_nobuf	(Optional) No buffer received
eth_inbcast	(Optional) Broadcasts
eth_inmcast	(Optional) Multicasts
eth_inucast	(Optional) Unicasts
eth_ingiants	(Optional) giants
eth_ipmcast	(Optional) IP multicast
eth_inhw_switched	(Optional) Input H/W Switched
eth_insw_switched	(Optional) Input S/W Switched
eth_runts	(Optional) runts
eth_storm_supp	(Optional) storm suppression
eth_throtles	(Optional) throttles
eth_inerr	(Optional) input errors
eth_crc	(Optional) CRC

eth_ecc	(Optional) ECC
eth_frame	(Optional) frame
eth_overrun	(Optional) overrun
eth_ignored	(Optional) ignored
eth_watchdog	(Optional) watchdog
eth_outbcast	(Optional) Broadcasts
eth_outmcast	(Optional) Multicasts
eth_outucast	(Optional) Unicasts
eth_outgiants	(Optional) giants
eth_inpause	(Optional) pause input
eth_dribble	(Optional) input packets with dribble condition
eth_in_ifdown_drops	(Optional) Input if-down drops
eth_bad_eth	(Optional) bad ether type drop
eth_bad_proto	(Optional) bad protocol drops
eth_outpkts	(Optional) packets output
eth_outbytes	(Optional) bytes output
eth_underrun	(Optional) underruns
eth_outhw_switched	(Optional) Out H/W Switched
eth_outsw_switched	(Optional) Out S/W Switched
eth_outerr	(Optional) output errors
eth_coll	(Optional) collisions
eth_resets	(Optional) interface resets
eth_babbles	(Optional) babbles
eth_latecoll	(Optional) late collision
eth_deferred	(Optional) deferred
eth_lostcarrier	(Optional) lost carrier
eth_nocarrier	(Optional) no carrier
eth_outpause	(Optional) PAUSE output
eth_buffail	(Optional) output buffer failures

eth_bufswapped	(Optional) output buffers swapped out
eth_arpdrops	(Optional) arp drops
eth_out_ifdown_drops	(Optional) Output if-down drops
eth_single_coll	(Optional) single collisions
eth_multi_coll	(Optional) multi collisions
eth_excess_coll	(Optional) excessive collisions
eth_jabbers	(Optional) jabbers
eth_shortframe	(Optional) short frames
eth_indiscard	(Optional) discards
eth_bad_encap	(Optional) bad encapsulation
eth_outcrc	(Optional) Output CRC
eth_symbol	(Optional) symbol errors
eth_out_drops	(Optional) output drops
eth_sqetest	(Optional) SQE test
eth_inb64	(Optional) input pkts between 0 and 64 bytes
eth_inb65_127	(Optional) input pkts between 65 and 127 bytes
eth_inb128_255	(Optional) input pkts between 128 and 255 bytes
eth_inb256_511	(Optional) input pkts between 256 and 511 bytes
eth_inb512_1023	(Optional) input pkts between 512 and 1023 bytes
eth_inb1024_1518	(Optional) input pkts between 1024 and 1518 bytes
eth_inb1519_1548	(Optional) input pkts between 1519 and 1548 bytes
eth_intrunk	(Optional) input trunk pkts
eth_outb64	(Optional) output pkts between 0 and 64 bytes
eth_outb65_127	(Optional) output pkts between 65 and 127 bytes
eth_outb128_255	(Optional) output pkts between 128 and 255 bytes
eth_outb256_511	(Optional) output pkts between 256 and 511 bytes
eth_outb512_1023	(Optional) output pkts between 512 and 1023 bytes
eth_outb1024_1518	(Optional) output pkts between 1024 and 1518 bytes
eth_outb1519_1548	(Optional) output pkts between 1519 and 1548 bytes

eth_outtrunk	(Optional) output trunk pkts
eth_bpdu_outlost	(Optional) BPDU output lost
eth_cos0_outlost	(Optional) output pkts
eth_cos1_outlost	(Optional) output pkts
eth_cos2_outlost	(Optional) output pkts
eth_cos3_outlost	(Optional) output pkts
eth_cos4_outlost	(Optional) output pkts
eth_cos5_outlost	(Optional) output pkts
eth_cos6_outlost	(Optional) output pkts
eth_cos7_outlost	(Optional) output pkts
eth_fcoe_in_pkts	(Optional) fcoe in pkts
eth_fcoe_in_octets	(Optional) fcoe in octets
eth_fcoe_out_pkts	(Optional) fcoe out pkts
eth_fcoe_out_octets	(Optional) fcoe out octets
eth_nfcoe_in_pkts	(Optional) nfcoe in pkts
eth_nfcoe_in_octets	(Optional) nfcoe in octets
eth_nfcoe_out_pkts	(Optional) nfcoe out pkts
eth_nfcoe_out_octets	(Optional) nfcoe out octets
eth_eee_atx_lpi_msec	(Optional) Tx Lpi usec
eth_eee_arcv_lpi_msec	(Optional) Rx Lpi usec
eth_eee_atx_lpi_transitions	(Optional) Tx Lpi requests
eth_eee_arcv_lpi_transitions	(Optional) Rx Lpi indications
eth_phy_ber_count	(Optional) Bit error rate counter
eth_phy_errblks_count	(Optional) Errored blocks counter
svi_reliability	(Optional) Reliability
switchport	(Optional) Switchport enabled

Command Mode

- /exec

show interface brief

show interface <ifpch_brf> brief [__readonly__ TABLE_interface <interface> [<vlan>] <type> <portmode> <state> <state_rsn_desc> <speed> <ratemode> [<proto>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifpch_brf	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
vlan	(Optional) Vlan
type	(Optional) Type
portmode	(Optional) Port mode
state	(Optional) Interface state
state_rsn_desc	(Optional) Interface state reason detailed
speed	(Optional) Speed
ratemode	(Optional) Interface port speed
proto	(Optional) Port Channel Protocol

Command Mode

- /exec

show interface brief

show interface brief [controller | cli] [__readonly__ { TABLE_interface [<interface>] [<vlan>] [<type>] [<portmode>] [<state>] [<state_rsn>] [<state_rsn_desc>] [<desc>] [<vrf>] [<ipv6_addr>] [<ip_addr>] [<speed>] [<mtu>] [<ratemode>] [<portchan>] [<proto>] [<interface_vfc>] [<vsan_brief>] [<admin_mode>] [<admin_trunk_mode>] [<status>] [<fcot_info>] [<bind_info>] [<bind_type>] [<bind_mac>] [<port_rate_mode>] [<oper_speed>] [<port_channel>] [<ip_addr1>] [{ TABLE_secondary_vlan <sec_vlan> <sec_vlan_type> }] [<svi_admin_state>] [<svi_rsn_desc>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
brief	Show brief info of interface
controller	(Optional) Show controller configured interfaces
cli	(Optional) Show CLI configured interfaces
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed
desc	(Optional) Interface description
vrf	(Optional) Vrf membership
ip_addr	(Optional) IP address
mtu	(Optional) MTU
speed	(Optional) Speed
vlan	(Optional) Vlan
type	(Optional) Type
portmode	(Optional) Port mode
ratemode	(Optional) Interface port speed
portchan	(Optional) Port Channel Membership
proto	(Optional) Port Channel Protocol

interface_vfc	(Optional) Interface index
vsan_brief	(Optional) vsan brief
admin_mode	(Optional) admin mode
admin_trunk_mode	(Optional) admin trunk mode
status	(Optional) status
fcot_info	(Optional) fcot info
bind_info	(Optional) bind interface
bind_type	(Optional) bind type
bind_mac	(Optional) bind mac address
port_rate_mode	(Optional) rate mode
oper_speed	(Optional) speed
port_channel	(Optional) port channel number
ip_addr1	(Optional) IP address
TABLE_secondary_vlan	(Optional) Secondary vlan
sec_vlan	(Optional) Secondary vlan ID
sec_vlan_type	(Optional) Secondary vlan type
svi_admin_state	(Optional) svi admin state
svi_rsn_desc	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface brief

show interface <ifloop_brf> brief [__readonly__ TABLE_interface <interface> <state> [<desc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifloop_brf	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
desc	(Optional) Interface description

Command Mode

- /exec

show interface brief

show interface <iftunnel_brf> brief [__readonly__ TABLE_interface <interface> <state> <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type> <keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> } <dest-hostname> <vrf_name> <tunnel_vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu> <tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate> <tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter>]

Syntax Description

show	Show running system information
interface	Show interface status and information
iftunnel_brf	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
admin-state	(Optional)
tunnel-ipv4	(Optional) interface IPv4 address
mtu	(Optional) interface Maximum Transmission Unit
bandwidth	(Optional) interface Bandwidth in kilobits
encap-type	(Optional)
keepalive-period	(Optional) keealive period
keepalive-retries	(Optional) number of retries
src-ipv4	(Optional) tunnel source IPv4 address
src-intf	(Optional) tunnel source interface
dest-ipv4	(Optional) tunnel destination IPv4 address
dest-hostname	(Optional) tunnel destination hostname
vrf_name	(Optional) transport VRF name
tunnel_vrf_name	(Optional) tunnel VRF name
wccp_header	(Optional) wccp header

ttl_val	(Optional) tunnel time to live value
tunnel_pmtud_age_time	(Optional) tunnel path MTU discovery age time
tunnel_pmtud_min_mtu	(Optional) tunnel path MTU discovery min mtu
tunnel_pmtud	(Optional) tunnel path MTU discovered
tunnel_pgm_mtu	(Optional) tunnel actual programmed MTU
tunnel_rx_pkt_count	(Optional) total number of packets received
tunnel_rx_byte_count	(Optional) total number of bytes received
tunnel_rx_rate	(Optional) packets input rate per 5 minutes
tunnel_tx_pkt_count	(Optional) total number of packets transmitted
tunnel_tx_byte_count	(Optional) total number of bytes transmitted
tunnel_tx_rate	(Optional) packets transmitted per 5 minutes
tunnel_clear_counter	(Optional) Last clearing of show interface counters

Command Mode

- /exec

show interface brief

show interface <ifmgmt_brf> brief [__readonly__ TABLE_interface <interface> [<vrf>] <state> [<ipv6_addr>] [<ip_addr>] <mtu> <speed> [<duplex>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifmgmt_brf	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
vrf	(Optional) Vrf membership
state	(Optional) Interface state
ip_addr	(Optional) IP address
mtu	(Optional) MTU
speed	(Optional) Speed
duplex	(Optional) Duplex

Command Mode

- /exec

show interface brief

show interface <ifeth_brf> brief [__readonly__ TABLE_interface <interface> [<vlan>] <type> <portmode> <state> <state_rsn_desc> <speed> <ratemode> [<portchan>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_brf	Enter interface type and number in module/slot format
brief	Show brief info of interface
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
vlan	(Optional) Vlan
type	(Optional) Type
portmode	(Optional) Port mode
state	(Optional) Interface state
state_rsn_desc	(Optional) Interface state reason detailed
speed	(Optional) Speed
ratemode	(Optional) Interface port speed
portchan	(Optional) Port Channel Membership

Command Mode

- /exec

show interface brief

show interface <ifrange> brief [__readonly__ TABLE_interface <interface> <state> [<state_rsn>] [<state_rsn_desc>] [<admin_state>] [<nve_addr>] [<nve_vcid>] [<nve_mtu>] [<nve_bandwidth>] [<nve_vrf>] [<nve_src_addr>] [<nve_dst_addr>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter interface type and number
brief	Show brief info of interface
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed
admin_state	(Optional) admin state
nve_addr	(Optional) Peer address
nve_vcid	(Optional) VCID
nve_mtu	(Optional) MTU
nve_bandwidth	(Optional) Bandwidth
nve_vrf	(Optional) VRF
nve_src_addr	(Optional) Source address
nve_dst_addr	(Optional) Destination address

Command Mode

- /exec

show interface cable-diagnostics-tdr

show interface <ifid_tdr> cable-diagnostics-tdr [__readonly__ TABLE_interface <interface> <speed> <distance1> <pair1_status> <distance2> <pair2_status> <distance3> <pair3_status> <distance4> <pair4_status>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_tdr	Enter interface type and number in module/slot format
cable-diagnostics-tdr	Show interface tdr test information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
speed	(Optional) Speed
distance1	(Optional) Distance to fault for pair 1
distance2	(Optional) Distance to fault for pair 2
distance3	(Optional) Distance to fault for pair 3
distance4	(Optional) Distance to fault for pair 4
pair1_status	(Optional) Pair1 status
pair2_status	(Optional) Pair2 status
pair3_status	(Optional) Pair3 status
pair4_status	(Optional) Pair4 status

Command Mode

- /exec

show interface capabilities

show interface capabilities [__readonly__ TABLE_interface <interface> <model> <type> <speed> <duplex> <trunk_encap> [<dce_capable>] <channel> <bcast_supp> <flo_ctrl> <rate_mode> <port_mode> [<fast_start>] <qos_scheduling> <cos_rewrite> <tos_rewrite> [<inline_power>] <udld> [<mdix>] [<tdr>] <lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [<pvlan_trunk_mode>] [<port_group>] [<port_group_members>] <eee_capable> <pfc_capable> [<speed_group_capable>] <buffer_boost_capable> [<bkout_capable>] [<macsec_capable>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
capabilities	Show interface capabilities information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
model	(Optional) Model
type	(Optional) Type
speed	(Optional) Speed
duplex	(Optional) Duplex
trunk_encap	(Optional) Trunk encap. type
dce_capable	(Optional) DCE mode capable
channel	(Optional) Channel
bcast_supp	(Optional) Broadcast suppression
flo_ctrl	(Optional) Flowcontrol
rate_mode	(Optional) Rate mode
port_mode	(Optional) Port mode
fast_start	(Optional) Fast start
qos_scheduling	(Optional) QOS scheduling
cos_rewrite	(Optional) CoS rewrite
tos_rewrite	(Optional) ToS rewrite
inline_power	(Optional) Inline power

span	(Optional) SPAN
udld	(Optional) UDLD
mdix	(Optional) MDIX
tdr	(Optional) TDR
lnk_debounce	(Optional) Link debounce
lnk_debounce_time	(Optional) Link debounce time
fex_fabric	(Optional) FEX Fabric
dot1q_tunnel	(Optional) dot1q-tunnel
pvlan_trunk_mode	(Optional) Private-vlan trunk mode
port_group	(Optional) Port Group
port_group_members	(Optional) Port Group Members
eee_capable	(Optional) EEE (efficient-eth)
pfc_capable	(Optional) PFC Capable:
bkout_capable	(Optional) Breakout Capable:
buffer_boost_capable	(Optional) Buffer Boost Capable:
speed_group_capable	(Optional) Speed group capable
macsec_capable	(Optional) MACSEC capable

Command Mode

- /exec

show interface capabilities

show interface <ifid_cap> capabilities [__readonly__ { TABLE_interface_capabilities_if <interface> [<min_speed>] [<max_speed>] [<FC-PH_version_high>] [<FC-PH_version_low>] [<recieve_data_max>] [<recieve_data_min>] [<transmit_data_max>] [<transmit_data_min>] [<class_service>] [<class_2>] [<class_3>] [<hold_time_max>] [<hold_time_min>] [<BB_state_change>] [<max_BB_state_change>] [<rate_mode_change>] [<rate_mode_cap>] [<recieve_BB_credit>] [<FX_recieve_BB_credit>] [<ISL_recieve_BB_credit>] [<shared_performance_buf_mod_supp>] [<dedicated_performance_buf_mod_supp>] [<fx_mode_perf_buf>] [<isl_mode_perf_buf>] [<out_of_order>] [<beacon_mode_config>] [<extended_B2B>] [<on_demand_port>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_cap	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
__readonly__	(Optional)
TABLE_interface_capabilities_if	(Optional) interface capabilities if table
interface	(Optional) fc interface
min_speed	(Optional) Min Speed
max_speed	(Optional) Max Speed
FC-PH_version_high	(Optional) FC-PH version high
FC-PH_version_low	(Optional) FC-PH version low
recieve_data_max	(Optional) Receive data field size max
recieve_data_min	(Optional) Receive data field size min
transmit_data_max	(Optional) Transmit data field size max
transmit_data_min	(Optional) Transmit data field size min
class_service	(Optional) Classes of Service supported
class_2	(Optional) Class 2 sequential delivery
class_3	(Optional) Class 3 sequential delivery
hold_time_max	(Optional) Hold time max
hold_time_min	(Optional) Hold time min
BB_state_change	(Optional) BB state change notification

max_BB_state_change	(Optional) Maximum BB state change notifications
rate_mode_change	(Optional) Rate Mode change
rate_mode_cap	(Optional) Rate Mode Capabilities
recieve_BB_credit	(Optional) Receive BB Credit modification supported
FX_recieve_BB_credit	(Optional) FX mode Receive BB Credit (min/max/default)
ISL_recieve_BB_credit	(Optional) ISL mode Receive BB Credit (min/max/default)
shared_performance_buf_mod_supp	(Optional) Performance buffer modification supported shared
dedicated_performance_buf_mod_supp	(Optional) Performance buffer modification supported dedicated
fx_mode_perf_buf	(Optional) FX mode performance buffers
isl_mode_perf_buf	(Optional) ISL mode performance buffers
out_of_order	(Optional) Out of Service capable
beacon_mode_config	(Optional) Beacon mode configurable
extended_B2B	(Optional) Extended B2B credit capable
on_demand_port	(Optional) On demand port activation license supported

Command Mode

- /exec

show interface capabilities

show interface <ifid_eth_cap> capabilities [__readonly__ TABLE_interface <interface> <model> <type> <speed> <duplex> <trunk_encap> [<dce_capable>] <channel> <bcast_supp> <flo_ctrl> <rate_mode> <port_mode> [<fast_start>] <qos_scheduling> <cos_rewrite> <tos_rewrite> [<inline_power>] <udld> [<mdix>] [<tdr>] <lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [<pvlan_trunk_mode>] [<port_group>] [<port_group_members>] <eee_capable> <pfc_capable> [<speed_group_capable>] <buffer_boost_capable> [<bkout_capable>] [<macsec_capable>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_eth_cap	Enter interface type and number in module/slot format
capabilities	Show interface capabilities information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
model	(Optional) Model
type	(Optional) Type
speed	(Optional) Speed
duplex	(Optional) Duplex
trunk_encap	(Optional) Trunk encap. type
dce_capable	(Optional) DCE mode capable
channel	(Optional) Channel
bcast_supp	(Optional) Broadcast suppression
flo_ctrl	(Optional) Flowcontrol
rate_mode	(Optional) Rate mode
port_mode	(Optional) Port mode
fast_start	(Optional) Fast start
qos_scheduling	(Optional) QOS scheduling
cos_rewrite	(Optional) CoS rewrite
tos_rewrite	(Optional) ToS rewrite

inline_power	(Optional) Inline power
span	(Optional) SPAN
udld	(Optional) UDLD
mdix	(Optional) MDIX
tdr	(Optional) TDR
lnk_debounce	(Optional) Link debounce
lnk_debounce_time	(Optional) Link debounce time
fex_fabric	(Optional) FEX Fabric
dot1q_tunnel	(Optional) dot1q-tunnel
pvlan_trunk_mode	(Optional) Private-vlan trunk mode
port_group	(Optional) Port Group
port_group_members	(Optional) Port Group Members
eee_capable	(Optional) EEE (efficient-eth)
pfc_capable	(Optional) PFC Capable:
bkout_capable	(Optional) Breakout Capable:
buffer_boost_capable	(Optional) Buffer Boost Capable:
speed_group_capable	(Optional) Speed group capable
macsec_capable	(Optional) MACSEC capable

Command Mode

- /exec

show interface counters

show interface <ifeth_ctr> counters [__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inbytes>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_l3in_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_mcastpkts>] [<eth_l3in_bcastpkts>] } { TABLE_tx_counters <interface_tx> [<eth_outbytes>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_l3out_bytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_mcastpkts>] [<eth_l3out_bcastpkts>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr	Enter interface type and number in module/slot format
counters	Show interface counters
__readonly__	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
interface_rx	(Optional) Interface index rx
eth_inbytes	(Optional) Bytes input
eth_inucast	(Optional) Unicasts input
eth_inmcast	(Optional) Multicasts input
eth_inbcast	(Optional) Broadcasts input
eth_l3in_bytes	(Optional) L3 Rx bytes
eth_l3in_ucastpkts	(Optional) L3 Rx Unicast pkts
eth_l3in_mcastpkts	(Optional) L3 Rx Multicast pkts
eth_l3in_bcastpkts	(Optional) L3 Rx Broadcast pkts
TABLE_tx_counters	(Optional) show Tx counters
interface_tx	(Optional) Interface index tx
eth_outbytes	(Optional) Bytes output
eth_outucast	(Optional) Unicasts output
eth_outmcast	(Optional) Multicasts output
eth_outbcast	(Optional) Broadcasts output
eth_l3out_bytes	(Optional) L3 Tx bytes
eth_l3out_ucastpkts	(Optional) L3 Tx Unicast pkts

eth_l3out_mcastpkts	(Optional) L3 Tx Multicast pkts
eth_l3out_bcastpkts	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

show interface <ifid_ctrs> counters [brief] [__readonly__ [{ TABLE_counters <sfp> { TABLE_input_rate <bit_per_sec> <bytes_per_sec> <frames_per_sec> } { TABLE_output_rate <bit_per_sec> <bytes_per_sec> <frames_per_sec> } { TABLE_input <frames> <bytes> [<class_2_frames>] [<class_2_bytes>] [<class_3_frames>] [<class_3_bytes>] [<class_f_frames>] [<class_f_bytes>] [<class_2_3_frames>] <discards> <errors> <crc_fcs> <unknown_class> <too_long> <too_short> } { TABLE_output <frames> <bytes> [<class_2_frames>] [<class_2_bytes>] [<class_3_frames>] [<class_3_bytes>] [<class_f_frames>] [<class_f_bytes>] [<class_2_3_frames>] [<discards>] [<errors>] [<crc_fcs>] } [<timeout_discards>] [<credit_loss>] [<input_ols>] [<input_lrr>] [<input_nos>] [<input_loop_inits>] [<output_ols>] [<output_lrr>] [<output_nos>] [<output_loop_inits>] [<link_faliures>] [<sync_loss>] [<signal_loss>] [<b2b_transmit>] [<b2b_receive>] [<txwait>] [<tx_credit_unavbl>] [<b2b_receive_remain>] [<b2b_transmit_remain>] [<low_priority_b2b_remain>] [<off_seq_err_rcvd>] [<broadcast_frames>] [<errors>] [<queue_drops>] [<if_down_drops>] [<red_drops>] [<bad_ether_type_drops>] [<bad_protocol_drops>] [<arp_drops>] [<reass_frames>] [<timestamp_error>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<time_last_cleared>] }] [{ TABLE_counters_brief <sfp> <fc_input_rate> <fc_frames_in> <fc_output_rate> <fc_frames_out> }]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_ctrs	Enter interface type and number in module/slot format
counters	Show interface counters
brief	(Optional) Show interface counters in brief
__readonly__	(Optional) Readonly
TABLE_counters	(Optional) Table counters
sfp	(Optional) SFP
TABLE_input_rate	(Optional) Input rate
bit_per_sec	(Optional) Input rate bits per second
bytes_per_sec	(Optional) Input rate bytes per second
frames_per_sec	(Optional) Input rate frames per second
TABLE_output_rate	(Optional) Output rate
bit_per_sec	(Optional) Output rate bits per second
bytes_per_sec	(Optional) Output rate bytes per second
frames_per_sec	(Optional) Output rate frames per second
TABLE_input	(Optional) Input values

frames	(Optional) Frames
bytes	(Optional) Bytes
class_2_frames	(Optional) Class 2 frames
class_2_bytes	(Optional) Class 2 bytes
class_3_frames	(Optional) Class 3 frames
class_3_bytes	(Optional) Class 3 bytes
class_f_frames	(Optional) Class f frames
class_f_bytes	(Optional) Class f bytes
class_2_3_frames	(Optional) Class 2/3 Frames
discards	(Optional) Discards
errors	(Optional) Errors
crc_fcs	(Optional) CRC/FCS
unknown_class	(Optional) Unknown Class
too_long	(Optional) Frames too long
too_short	(Optional) Frames too short
TABLE_output	(Optional) Output Values
frames	(Optional) Frames
bytes	(Optional) Bytes
class_2_frames	(Optional) Class 2 frames
class_2_bytes	(Optional) Class 2 bytes
class_3_frames	(Optional) Class 3 frames
class_3_bytes	(Optional) Class 3 bytes
class_f_frames	(Optional) Class f frames
class_f_bytes	(Optional) Class f bytes
class_2_3_frames	(Optional) Class 2/3 frames
discards	(Optional) Discards
errors	(Optional) Errors
crc_fcs	(Optional) CRC/FCS
timeout_discards	(Optional) Timeout Discards

credit_loss	(Optional) Credit Loss
input_ols	(Optional) input ols
input_lrr	(Optional) input LRR
input_nos	(Optional) input NOS
input_loop_inits	(Optional) input loop inits
output_ols	(Optional) output OLS
output_lrr	(Optional) output LRR
output_nos	(Optional) output NOS
output_loop_inits	(Optional) output loop inits
link_faliures	(Optional) link faliures
sync_loss	(Optional) Sync loss
signal_loss	(Optional) Signal loss
b2b_transmit	(Optional) B2B transmit
b2b_receive	(Optional) B2B receive
txwait	(Optional) TxWait
tx_credit_unavbl	(Optional) Tx credit unavaliable
b2b_receive_remain	(Optional) B2B receive remain
b2b_transmit_remain	(Optional) B2B transmit remain
low_priority_b2b_remain	(Optional) Low priority B2B credit remaining
time_last_cleared	(Optional) Last time cleared
broadcast_frames	(Optional) Broadcast frames
errors	(Optional) Errors
queue_drops	(Optional) Queue drops
if_down_drops	(Optional) If down drops
red_drops	(Optional) Red drops
bad_ether_type_drops	(Optional) Bad ether type drops
bad_protocol_drops	(Optional) Bad Protocol Drops
arp_drops	(Optional) Arp Drops
timestamp_error	(Optional) Timestamp Error

reass_frames	(Optional) Reass Frames
rx_b2b_perf_buff	(Optional) RX B2B performance buffer
rx_b2b_credit	(Optional) RX B2B credit remaining
tx_b2b_credit	(Optional) TX B2B credit remaining
tx_b2b_low_pri_cre	(Optional) TX B2B low priority Credit
off_seq_err_rcvd	(Optional) Offset Sequence Error Received
TABLE_counters_brief	(Optional) Table counters brief
sfp	(Optional) FC id
fc_input_rate	(Optional) Input rate
fc_frames_in	(Optional) Frames in
fc_output_rate	(Optional) Output rate
fc_frames_out	(Optional) Frames out

Command Mode

- /exec

show interface counters

show interface <ifid_ctr> counters [snmp] [__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inpkts>] [<eth_inbytes>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] } { TABLE_tx_counters <interface_tx> [<eth_outpkts>] [<eth_outbytes>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_ctr	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
interface_rx	(Optional) Interface index rx
interface_tx	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
eth_inpkts	(Optional) Packets input
eth_inbytes	(Optional) Bytes input
eth_inucast	(Optional) Unicasts
eth_inmcast	(Optional) Multicasts
eth_inbcast	(Optional) Broadcasts
TABLE_tx_counters	(Optional) show Tx counters
eth_outpkts	(Optional) Packets output
eth_outbytes	(Optional) Bytes output
eth_outucast	(Optional) Unicasts
eth_outmcast	(Optional) Multicasts
eth_outbcast	(Optional) Broadcasts

Command Mode

- /exec

show interface counters

show interface counters [module <module>] [__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inpkts>] [<fc_inframes>] [<eth_inbytes>] [<fc_inbytes>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_l3in_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_mcastpkts>] [<eth_l3in_bcastpkts>] } { TABLE_tx_counters <interface_tx> [<eth_outpkts>] [<eth_outbytes>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_l3out_bytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_mcastpkts>] [<eth_l3out_bcastpkts>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
module	(Optional) Limit display to interfaces on module
module	(Optional) Enter module number
__readonly__	(Optional) Read Only
interface_rx	(Optional) Interface index rx
interface_tx	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
eth_inpkts	(Optional) Packets input
fc_inframes	(Optional) Frames input fc
eth_inbytes	(Optional) Bytes input
fc_inbytes	(Optional) Bytes input fc
eth_inucast	(Optional) Unicasts
eth_inmcast	(Optional) Multicasts
eth_inbcast	(Optional) Broadcasts
eth_outpkts	(Optional) Packets output
eth_outbytes	(Optional) Bytes output
eth_outucast	(Optional) Unicasts
eth_outmcast	(Optional) Multicasts
eth_outbcast	(Optional) Broadcasts

eth_l3in_bytes	(Optional) L3 Rx bytes
eth_l3in_ucastpkts	(Optional) L3 Rx Unicast pkts
eth_l3in_mcastpkts	(Optional) L3 Rx Multicast pkts
eth_l3in_bcastpkts	(Optional) L3 Rx Broadcast pkts
eth_l3out_bytes	(Optional) L3 Tx bytes
eth_l3out_ucastpkts	(Optional) L3 Tx Unicast pkts
eth_l3out_mcastpkts	(Optional) L3 Tx Multicast pkts
eth_l3out_bcastpkts	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

show interface counters [non-zero] [__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inpkts>] [<eth_inbytes>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_l3in_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_mcastpkts>] [<eth_l3in_bcastpkts>] } { TABLE_tx_counters <interface_tx> [<eth_outpkts>] [<eth_outbytes>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_l3out_bytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_mcastpkts>] [<eth_l3out_bcastpkts>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
non-zero	(Optional) To display only the non-zero counter values
__readonly__	(Optional) Read Only
interface_rx	(Optional) Interface index rx
interface_tx	(Optional) Interface index tx
TABLE_rx_counters	(Optional) show Rx counters
TABLE_tx_counters	(Optional) show Tx counters
eth_inpkts	(Optional) Packets input
eth_inbytes	(Optional) Bytes input
eth_inucast	(Optional) Unicasts
eth_inmcast	(Optional) Multicasts
eth_inbcast	(Optional) Broadcasts
eth_outpkts	(Optional) Packets output
eth_outbytes	(Optional) Bytes output
eth_outucast	(Optional) Unicasts
eth_outmcast	(Optional) Multicasts
eth_outbcast	(Optional) Broadcasts
eth_l3in_bytes	(Optional) L3 Rx bytes
eth_l3in_ucastpkts	(Optional) L3 Rx Unicast pkts
eth_l3in_mcastpkts	(Optional) L3 Rx Multicast pkts
eth_l3in_bcastpkts	(Optional) L3 Rx Broadcast pkts

eth_l3out_bytes	(Optional) L3 Tx bytes
eth_l3out_ucastpkts	(Optional) L3 Tx Unicast pkts
eth_l3out_mcastpkts	(Optional) L3 Tx Multicast pkts
eth_l3out_bcastpkts	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

show interface <ifeth_ctr> counters [snmp] [__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inbytes>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_l3in_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_mcastpkts>] [<eth_l3in_bcastpkts>] } { TABLE_tx_counters <interface_tx> [<eth_outbytes>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_l3out_bytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_mcastpkts>] [<eth_l3out_bcastpkts>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
interface_rx	(Optional) Interface index rx
eth_inbytes	(Optional) Bytes input
eth_inucast	(Optional) Unicasts input
eth_inmcast	(Optional) Multicasts input
eth_inbcast	(Optional) Broadcasts input
eth_l3in_bytes	(Optional) L3 Rx bytes
eth_l3in_ucastpkts	(Optional) L3 Rx Unicast pkts
eth_l3in_mcastpkts	(Optional) L3 Rx Multicast pkts
eth_l3in_bcastpkts	(Optional) L3 Rx Broadcast pkts
TABLE_tx_counters	(Optional) show Tx counters
interface_tx	(Optional) Interface index tx
eth_outbytes	(Optional) Bytes output
eth_outucast	(Optional) Unicasts output
eth_outmcast	(Optional) Multicasts output
eth_outbcast	(Optional) Broadcasts output
eth_l3out_bytes	(Optional) L3 Tx bytes

eth_l3out_ucastpkts	(Optional) L3 Tx Unicast pkts
eth_l3out_mcastpkts	(Optional) L3 Tx Multicast pkts
eth_l3out_bcastpkts	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters

show interface <ifrange> counters [__readonly__ TABLE_interface <interface> [<overlay_load_interval>] [<overlay_rx_ucastpkts>] [<overlay_rx_ucastbytes>] [<overlay_rx_mcastpkts>] [<overlay_rx_mcastbytes>] [<overlay_rx_pkts>] [<overlay_rx_bytes>] [<overlay_rx_bcastpkts>] [<overlay_rx_bcastbytes>] [<overlay_rx_bitrate>] [<overlay_rx_pktrate>] [<overlay_tx_ucastpkts>] [<overlay_tx_ucastbytes>] [<overlay_tx_mcastpkts>] [<overlay_tx_mcastbytes>] [<overlay_tx_bcastpkts>] [<overlay_tx_bcastbytes>] [<overlay_tx_pkts>] [<overlay_tx_bytes>] [<overlay_tx_bitrate>] [<overlay_tx_pktrate>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter interface type and number
counters	Show interface counters
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
overlay_load_interval	(Optional) Load interval
overlay_rx_ucastpkts	(Optional) Received ucast pkts
overlay_rx_ucastbytes	(Optional) Received ucast bytes
overlay_rx_mcastpkts	(Optional) Received mcast pkts
overlay_rx_mcastbytes	(Optional) Received mcast bytes
overlay_rx_bcastpkts	(Optional) Received bcast pkts
overlay_rx_bcastbytes	(Optional) Received bcast bytes
overlay_rx_pkts	(Optional) Total received pkts
overlay_rx_bytes	(Optional) Total received bytes
overlay_rx_bitrate	(Optional) Receive bit rate
overlay_rx_pktrate	(Optional) Receive pkt rate
overlay_tx_ucastpkts	(Optional) Trasnmitted ucast pkts
overlay_tx_ucastbytes	(Optional) Trasnmitted ucast bytes
overlay_tx_mcastpkts	(Optional) Trasnmitted mcast pkts
overlay_tx_mcastbytes	(Optional) Trasnmitted mcast bytes

overlay_tx_bcastpkts	(Optional) Trasnmitted bcast pkts
overlay_tx_bcastbytes	(Optional) Trasnmitted bcast bytes
overlay_tx_pkts	(Optional) Total transmitted pkts
overlay_tx_bytes	(Optional) Total transmitted bytes
overlay_tx_bitrate	(Optional) Transmit bit rate
overlay_tx_pktrate	(Optional) Transmit pkt rate

Command Mode

- /exec

show interface counters

show interface <ifrange> counters [__readonly__ { TABLE_nve_counters <interface> [<ucast_inbytes>] [<ucast_inpkts>] [<ucast_outbytes>] [<ucast_outpkts>] [<mcast_inbytes>] [<mcast_inpkts>] [<mcast_outbytes>] [<mcast_outpkts>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter interface type and number
counters	Show interface counters
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_nve_counters	(Optional) show interface
ucast_inbytes	(Optional) ucast bytes input
ucast_inpkts	(Optional) ucast packets input
ucast_outbytes	(Optional) ucast bytes output
ucast_outpkts	(Optional) ucast packets output
mcast_inbytes	(Optional) mcast bytes input
mcast_inpkts	(Optional) mcast packets input
mcast_outbytes	(Optional) mcast bytes output
mcast_outpkts	(Optional) mcast packets output

Command Mode

- /exec

show interface counters brief

show interface <ifeth_ctr_brf> counters brief [<counter_val>] [__readonly__ TABLE_interface <interface> <eth_inrate1> <eth_inframes1> <eth_outrate1> <eth_outframes1> <eth_load_intv1> <eth_inrate2> <eth_inframes2> <eth_outrate2> <eth_outframes2> <eth_load_intv2> [<eth_inrate3> <eth_inframes3> <eth_outrate3> <eth_outframes3> <eth_load_intv3>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr_brf	Enter interface type and number in module/slot format
counters	Show interface counters
brief	Show interface counters in brief
counter_val	(Optional) Specify a single load interval id to show the rates
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
eth_inrate1	(Optional) interval 1 input rate in mbps
eth_inframes1	(Optional) interval 1 input rate in frames (pkts)
eth_outrate1	(Optional) interval 1 output rate in mbps
eth_outframes1	(Optional) interval 1 output rate in output frames (pkts)
eth_load_intv1	(Optional) interval 1 timer value in sec
eth_inrate2	(Optional) interval 2 input rate in mbps
eth_inframes2	(Optional) interval 2 input rate in frames (pkts)
eth_outrate2	(Optional) interval 2 output rate in mbps
eth_outframes2	(Optional) interval 2 output rate in output frames (pkts)
eth_load_intv2	(Optional) interval 2 timer value in sec
eth_inrate3	(Optional) interval 3 input rate in mbps
eth_inframes3	(Optional) interval 3 input rate in frames (pkts)
eth_outrate3	(Optional) interval 3 output rate in mbps
eth_outframes3	(Optional) interval 3 output rate in output frames (pkts)

eth_load_intv3	(Optional) interval 3 timer value in sec

Command Mode

- /exec

show interface counters brief

show interface counters brief [<counter_val>] [__readonly__ TABLE_interface <interface> [<eth_inrate1>] [<eth_inframes1>] [<eth_outrate1>] [<eth_outframes1>] [<eth_load_intv1>] [<eth_inrate2>] [<eth_inframes2>] [<eth_outrate2>] [<eth_outframes2>] [<eth_load_intv2>] [<eth_inrate3>] [<eth_inframes3>] [<eth_outrate3>] [<eth_outframes3>] [<eth_load_intv3>] [<fc_input_rate>] [<fc_frames_in>] [<fc_output_rate>] [<fc_frames_out>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
brief	Show interface counters in brief
counter_val	(Optional) Specify a single load interval id to show the rates
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
eth_inrate1	(Optional) interval 1 input rate in mbps
eth_inframes1	(Optional) interval 1 input rate in frames (pkts)
eth_outrate1	(Optional) interval 1 output rate in mbps
eth_outframes1	(Optional) interval 1 output rate in output frames (pkts)
eth_load_intv1	(Optional) interval 1 timer value in sec
eth_inrate2	(Optional) interval 2 input rate in mbps
eth_inframes2	(Optional) interval 2 input rate in frames (pkts)
eth_outrate2	(Optional) interval 2 output rate in mbps
eth_outframes2	(Optional) interval 2 output rate in output frames (pkts)
eth_load_intv2	(Optional) interval 2 timer value in sec
eth_inrate3	(Optional) interval 3 input rate in mbps
eth_inframes3	(Optional) interval 3 input rate in frames (pkts)
eth_outrate3	(Optional) interval 3 output rate in mbps
eth_outframes3	(Optional) interval 3 output rate in output frames (pkts)
eth_load_intv3	(Optional) interval 3 timer value in sec

fc_input_rate	(Optional) Input rate
fc_frames_in	(Optional) Frames in
fc_output_rate	(Optional) Output rate
fc_frames_out	(Optional) Frames out

Command Mode

- /exec

show interface counters detailed

show interface <ifeth_ctr_dtl> counters detailed [snmp] [__readonly__ TABLE_interface <interface> [<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_inrate2_summary_bits>] [<eth_inrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_load_interval3_rx>] [<eth_inrate3_bits>] [<eth_inrate3_pkts>] [<eth_load_interval3_tx>] [<eth_outrate3_bits>] [<eth_outrate3_pkts>] [<eth_inrate3_summary_bits>] [<eth_inrate3_summary_pkts>] [<eth_outrate3_summary_bits>] [<eth_outrate3_summary_pkts>] [<eth_inpkts>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_ingiants>] [<eth_inbytes>] [<eth_storm_supp>] [<eth_inb64>] [<eth_inb65_127>] [<eth_inb128_255>] [<eth_inb256_511>] [<eth_inb512_1023>] [<eth_inb1024_1518>] [<eth_inb1519_1548>] [<eth_intrunk>] [<eth_outpkts>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_outgiants>] [<eth_outbytes>] [<eth_outb64>] [<eth_outb65_127>] [<eth_outb128_255>] [<eth_outb256_511>] [<eth_outb512_1023>] [<eth_outb1024_1518>] [<eth_outb1519_1548>] [<eth_outtrunk>] [<eth_nobuf>] [<eth_runts>] [<eth_crc>] [<eth_ecc>] [<eth_overrun>] [<eth_underrun>] [<eth_ignored>] [<eth_bad_eth>] [<eth_bad_proto>] [<eth_in_ifdown_drops>] [<eth_coll>] [<eth_latecoll>] [<eth_lostcarrier>] [<eth_nocarrier>] [<eth_babbles>] [<eth_watchdog>] [<eth_dribble>] [<eth_inerr>] [<eth_outerr>] [<eth_deferred>] [<eth_jabbers>] [<eth_shortframe>] [<eth_single_coll>] [<eth_multi_coll>] [<eth_excess_coll>] [<eth_indiscard>] [<eth_bad_encap>] [<eth_outcrc>] [<eth_symbol>] [<eth_out_drops>] [<eth_bpdu_outlost>] [<eth_cos0_outlost>] [<eth_cos1_outlost>] [<eth_cos2_outlost>] [<eth_cos3_outlost>] [<eth_cos4_outlost>] [<eth_cos5_outlost>] [<eth_cos6_outlost>] [<eth_cos7_outlost>] [<eth_inpause>] [<eth_outpause>] [<eth_resets>] [<eth_sqetest>] [<eth_l2_ucastpkts>] [<eth_l2_ucastbytes>] [<eth_l2_mcastpkts>] [<eth_l2_mcastbytes>] [<eth_l2_bcastpkts>] [<eth_l2_bcastbytes>] [<eth_l3in_routed_pkts>] [<eth_l3in_routed_bytes>] [<eth_l3out_routed_pkts>] [<eth_l3out_routed_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_ucastbytes>] [<eth_l3in_mcastpkts>] [<eth_l3in_mcastbytes>] [<eth_l3in_bcastpkts>] [<eth_l3in_bcastbytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_ucastbytes>] [<eth_l3out_mcastpkts>] [<eth_l3out_mcastbytes>] [<eth_l3out_bcastpkts>] [<eth_l3out_bcastbytes>] [<eth_l3avg1_inbytes>] [<eth_l3avg1_inpkts>] [<eth_l3avg1_outbytes>] [<eth_l3avg1_outpkts>] [<eth_ipmcast>] [<eth_inhw_switched>] [<eth_insw_switched>] [<eth_throtles>] [<eth_frame>] [<eth_outhw_switched>] [<eth_outsw_switched>] [<eth_buffail>] [<eth_bufswapped>] [<eth_arpdrops>] [<eth_out_ifdown_drops>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr_dtl	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only

interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(Optional) interval 1 input rate bits/sec
eth_inrate1_pkts	(Optional) interval 1 input rate pkts/sec
eth_load_interval1_tx	(Optional) interval 1 timer value in sec
eth_outrate1_bits	(Optional) interval 1 output rate bits/sec
eth_outrate1_pkts	(Optional) interval 1 output rate pkts/sec
eth_inrate1_summary_bits	(Optional) interval 1 input rate bit summary
eth_inrate1_summary_pkts	(Optional) interval 1 input rate pkt summary
eth_outrate1_summary_bits	(Optional) interval 1 output rate bit summary
eth_outrate1_summary_pkts	(Optional) interval 1 output rate pkt summary
eth_load_interval2_rx	(Optional) interval 2 timer value in sec
eth_inrate2_bits	(Optional) interval 2 input rate bits/sec
eth_inrate2_pkts	(Optional) interval 2 input rate pkts/sec
eth_load_interval2_tx	(Optional) interval 2 timer value in sec
eth_outrate2_bits	(Optional) interval 2 output rate bits/sec
eth_outrate2_pkts	(Optional) interval 2 output rate pkts/sec
eth_inrate2_summary_bits	(Optional) interval 2 input rate bit summary
eth_inrate2_summary_pkts	(Optional) interval 2 input rate pkt summary
eth_outrate2_summary_bits	(Optional) interval 2 output rate bit summary
eth_outrate2_summary_pkts	(Optional) interval 2 output rate pkt summary
eth_load_interval3_rx	(Optional) interval 3 timer value in sec
eth_inrate3_bits	(Optional) interval 3 input rate bits/sec
eth_inrate3_pkts	(Optional) interval 3 input rate pkts/sec
eth_load_interval3_tx	(Optional) interval 3 timer value in sec
eth_outrate3_bits	(Optional) interval 3 output rate bits/sec
eth_outrate3_pkts	(Optional) interval 3 output rate pkts/sec
eth_inrate3_summary_bits	(Optional) interval 3 input rate bit summary

eth_inrate3_summary_pkts	(Optional) interval 3 input rate pkt summary
eth_outrate3_summary_bits	(Optional) interval 3 output rate bit summary
eth_outrate3_summary_pkts	(Optional) interval 3 output rate pkt summary
eth_inpkts	(Optional) Packets input
eth_inucast	(Optional) Unicasts
eth_inmcast	(Optional) Multicasts
eth_inbcast	(Optional) Broadcasts
eth_ingiants	(Optional) giants
eth_inbytes	(Optional) Bytes input
eth_storm_supp	(Optional) storm suppression
eth_inb64	(Optional) input pkts between 0 and 64 bytes
eth_inb65_127	(Optional) input pkts between 65 and 127 bytes
eth_inb128_255	(Optional) input pkts between 128 and 255 bytes
eth_inb256_511	(Optional) input pkts between 256 and 511 bytes
eth_inb512_1023	(Optional) input pkts between 512 and 1023 bytes
eth_inb1024_1518	(Optional) input pkts between 1024 and 1518 bytes
eth_inb1519_1548	(Optional) input pkts between 1519 and 1548 bytes
eth_intrunk	(Optional) input trunk pkts
eth_outpkts	(Optional) packets output
eth_outucast	(Optional) Unicasts
eth_outmcast	(Optional) Multicasts
eth_outbcast	(Optional) Broadcasts
eth_outgiants	(Optional) giants
eth_outbytes	(Optional) bytes output
eth_outb64	(Optional) output pkts between 0 and 64 bytes
eth_outb65_127	(Optional) output pkts between 65 and 127 bytes
eth_outb128_255	(Optional) output pkts between 128 and 255 bytes
eth_outb256_511	(Optional) output pkts between 256 and 511 bytes
eth_outb512_1023	(Optional) output pkts between 512 and 1023 bytes

eth_outb1024_1518	(Optional) output pkts between 1024 and 1518 bytes
eth_outb1519_1548	(Optional) output pkts between 1519 and 1548 bytes
eth_outtrunk	(Optional) output trunk pkts
eth_nobuf	(Optional) No buffer received
eth_runts	(Optional) runts
eth_crc	(Optional) CRC
eth_ecc	(Optional) ECC
eth_overrun	(Optional) overrun
eth_underrun	(Optional) underruns
eth_ignored	(Optional) ignored
eth_bad_eth	(Optional) bad ether type drop
eth_bad_proto	(Optional) bad protocol drops
eth_in_ifdown_drops	(Optional) Input if-down drops
eth_coll	(Optional) collisions
eth_latecoll	(Optional) late collision
eth_lostcarrier	(Optional) lost carrier
eth_nocarrier	(Optional) no carrier
eth_babbles	(Optional) babbles
eth_watchdog	(Optional) watchdog
eth_dribble	(Optional) input packets with dribble condition
eth_inerr	(Optional) input errors
eth_outerr	(Optional) output errors
eth_deferred	(Optional) deferred
eth_jabbers	(Optional) jabbers
eth_shortframe	(Optional) short frames
eth_single_coll	(Optional) single collisions
eth_multi_coll	(Optional) multi collisions
eth_excess_coll	(Optional) excessive collisions
eth_indiscard	(Optional) discards

eth_bad_encap	(Optional) bad encapsulation
eth_outcrc	(Optional) Output CRC
eth_symbol	(Optional) symbol errors
eth_out_drops	(Optional) output drops
eth_bpdu_outlost	(Optional) BPDU output lost
eth_cos0_outlost	(Optional) output pkts
eth_cos1_outlost	(Optional) output pkts
eth_cos2_outlost	(Optional) output pkts
eth_cos3_outlost	(Optional) output pkts
eth_cos4_outlost	(Optional) output pkts
eth_cos5_outlost	(Optional) output pkts
eth_cos6_outlost	(Optional) output pkts
eth_cos7_outlost	(Optional) output pkts
eth_inpause	(Optional) pause input
eth_outpause	(Optional) PAUSE output
eth_resets	(Optional) interface resets
eth_sqetest	(Optional) SQE test
eth_l2_ucastpkts	(Optional) L2 switched ucast pkts
eth_l2_ucastbytes	(Optional) L2 switched ucast bytes
eth_l2_mcastpkts	(Optional) L2 switched mcast pkts
eth_l2_mcastbytes	(Optional) L2 switched mcast bytes
eth_l2_bcastpkts	(Optional) L2 switched bcast pkts
eth_l2_bcastbytes	(Optional) L2 switched bcast bytes
eth_l3in_ucastpkts	(Optional) L3 in switched ucast pkts
eth_l3in_ucastbytes	(Optional) L3 in switched ucast bytes
eth_l3in_mcastpkts	(Optional) L3 in switched mcast pkts
eth_l3in_mcastbytes	(Optional) L3 in switched mcast bytes
eth_l3in_bcastpkts	(Optional) L3 in switched bcast pkts
eth_l3in_bcastbytes	(Optional) L3 in switched bcast bytes

eth_l3out_ucastpkts	(Optional) L3 out switched ucast pkts
eth_l3out_ucastbytes	(Optional) L3 out switched ucast bytes
eth_l3out_mcastpkts	(Optional) L3 out switched mcast pkts
eth_l3out_mcastbytes	(Optional) L3 out switched mcast bytes
eth_l3out_bcastpkts	(Optional) L3 out switched bcast pkts
eth_l3out_bcastbytes	(Optional) L3 out switched bcast bytes
eth_l3in_routed_pkts	(Optional) L3 in routed pkts
eth_l3in_routed_bytes	(Optional) L3 in routed bytes
eth_l3out_routed_pkts	(Optional) L3 out routed pkts
eth_l3out_routed_bytes	(Optional) L3 out routed bytes
eth_l3avg1_inbytes	(Optional) Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	(Optional) Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	(Optional) Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	(Optional) Load interval 1 L3 average out switched pkts
eth_ipmcast	(Optional) IP multicast
eth_inhw_switched	(Optional) Input H/W Switched
eth_insw_switched	(Optional) Input S/W Switched
eth_throtles	(Optional) throttles
eth_frame	(Optional) frame
eth_outhw_switched	(Optional) Out H/W Switched
eth_outsw_switched	(Optional) Out S/W Switched
eth_buffail	(Optional) output buffer failures
eth_bufswapped	(Optional) output buffers swapped out
eth_arpdrops	(Optional) arp drops
eth_out_ifdown_drops	(Optional) Output if-down drops

Command Mode

- /exec

show interface counters detailed

show interface counters detailed [snmp] [__readonly__ TABLE_interface <interface> [<vdc_lvl_in_pkts>] [<vdc_lvl_in_bytes>] [<vdc_lvl_in_ucast>] [<vdc_lvl_in_mcast>] [<vdc_lvl_in_bcast>] [<vdc_lvl_in_bps>] [<vdc_lvl_in_pps>] [<vdc_lvl_in_avg_pkts>] [<vdc_lvl_in_avg_bytes>] [<vdc_lvl_out_pkts>] [<vdc_lvl_out_bytes>] [<vdc_lvl_out_ucast>] [<vdc_lvl_out_mcast>] [<vdc_lvl_out_bcast>] [<vdc_lvl_out_bps>] [<vdc_lvl_out_pps>] [<vdc_lvl_out_avg_pkts>] [<vdc_lvl_out_avg_bytes>] [<mgmt_in_pkts>] [<mgmt_in_bytes>] [<mgmt_in_mcast>] [<mgmt_in_compressed>] [<mgmt_in_errors>] [<mgmt_in_frame>] [<mgmt_in_overrun>] [<mgmt_in_fifo>] [<mgmt_out_pkts>] [<mgmt_out_bytes>] [<mgmt_out_underruns>] [<mgmt_out_errors>] [<mgmt_out_collisions>] [<mgmt_out_fifo>] [<mgmt_out_carrier>] [<mgmt_align_err>] [<mgmt_fcs_err>] [<mgmt_xmit_err>] [<mgmt_rcv_err>] [<mgmt_undersize>] [<mgmt_outdisc>] [<mgmt_single_col>] [<mgmt_multi_col>] [<mgmt_late_col>] [<mgmt_excess_col>] [<mgmt_carri_sen>] [<mgmt_runts>] [<mgmt_giants>] [<mgmt_sqetest_err>] [<mgmt_deferred_tx>] [<mgmt_inmactx_err>] [<mgmt_inmacrx_err>] [<mgmt_symbol_err>] [<loop_in_pkts>] [<loop_in_bytes>] [<loop_in_mcast>] [<loop_in_compressed>] [<loop_in_errors>] [<loop_in_frame>] [<loop_in_overrun>] [<loop_in_fifo>] [<loop_out_pkts>] [<loop_out_bytes>] [<loop_out_underruns>] [<loop_out_errors>] [<loop_out_collisions>] [<loop_out_fifo>] [<loop_out_carriers>] [<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_inrate2_summary_bits>] [<eth_inrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_load_interval3_rx>] [<eth_inrate3_bits>] [<eth_inrate3_pkts>] [<eth_load_interval3_tx>] [<eth_outrate3_bits>] [<eth_outrate3_pkts>] [<eth_inrate3_summary_bits>] [<eth_inrate3_summary_pkts>] [<eth_outrate3_summary_bits>] [<eth_outrate3_summary_pkts>] [<eth_inpkts>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_ingiants>] [<eth_inbytes>] [<eth_storm_supp>] [<eth_inb64>] [<eth_inb65_127>] [<eth_inb128_255>] [<eth_inb256_511>] [<eth_inb512_1023>] [<eth_inb1024_1518>] [<eth_inb1519_1548>] [<eth_intrunk>] [<eth_outpkts>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_outgiants>] [<eth_outbytes>] [<eth_outb64>] [<eth_outb65_127>] [<eth_outb128_255>] [<eth_outb256_511>] [<eth_outb512_1023>] [<eth_outb1024_1518>] [<eth_outb1519_1548>] [<eth_outtrunk>] [<eth_nobuf>] [<eth_runts>] [<eth_crc>] [<eth_ecc>] [<eth_overrun>] [<eth_underrun>] [<eth_ignored>] [<eth_bad_eth>] [<eth_bad_proto>] [<eth_in_ifdown_drops>] [<eth_coll>] [<eth_latecoll>] [<eth_lostcarrier>] [<eth_nocarrier>] [<eth_babbles>] [<eth_watchdog>] [<eth_dribble>] [<eth_inerr>] [<eth_outerr>] [<eth_deferred>] [<eth_jabbers>] [<eth_shortframe>] [<eth_single_coll>] [<eth_multi_coll>] [<eth_excess_coll>] [<eth_indiscard>] [<eth_bad_encap>] [<eth_outcrc>] [<eth_symbol>] [<eth_out_drops>] [<eth_bpdu_outlost>] [<eth_cos0_outlost>] [<eth_cos1_outlost>] [<eth_cos2_outlost>] [<eth_cos3_outlost>] [<eth_cos4_outlost>] [<eth_cos5_outlost>] [<eth_cos6_outlost>] [<eth_cos7_outlost>] [<eth_inpause>] [<eth_outpause>] [<eth_resets>] [<eth_sqetest>] [<eth_l2_ucastpkts>] [<eth_l2_ucastbytes>] [<eth_l2_mcastpkts>] [<eth_l2_mcastbytes>] [<eth_l2_bcastpkts>] [<eth_l2_bcastbytes>] [<eth_l3in_routed_pkts>] [<eth_l3in_routed_bytes>] [<eth_l3out_routed_pkts>] [<eth_l3out_routed_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_ucastbytes>] [<eth_l3in_mcastpkts>] [<eth_l3in_mcastbytes>] [<eth_l3in_bcastpkts>] [<eth_l3in_bcastbytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_ucastbytes>] [<eth_l3out_mcastpkts>] [<eth_l3out_mcastbytes>] [<eth_l3out_bcastpkts>] [<eth_l3out_bcastbytes>] [<eth_l3avg1_inbytes>] [<eth_l3avg1_inpkts>] [<eth_l3avg1_outbytes>] [<eth_l3avg1_outpkts>] [<eth_ipmcast>] [<eth_inhw_switched>] [<eth_insw_switched>] [<eth_throtles>] [<eth_frame>] [<eth_outhw_switched>] [<eth_outsw_switched>] [<eth_buffail>] [<eth_bufswapped>] [<eth_arpdrops>] [<eth_out_ifdown_drops>] [<eth_fcoe_in_pkts>

] [<eth_fcoe_in_octets>] [<eth_fcoe_out_pkts>] [<eth_fcoe_out_octets>] [<eth_nfcoe_in_pkts>] [<eth_nfcoe_in_octets>] [<eth_nfcoe_out_pkts>] [<eth_nfcoe_out_octets>] [<svi_routed_pkts_in>] [<svi_routed_bytes_in>] [<svi_routed_pkts_out>] [<svi_routed_bytes_out>] [<svi_ucast_pkts_in>] [<svi_ucast_bytes_in>] [<svi_mcast_pkts_in>] [<svi_mcast_bytes_in>] [<svi_ucast_pkts_out>] [<svi_ucast_bytes_out>] [<svi_mcast_pkts_out>] [<svi_mcast_bytes_out>] [<svi_ipv4_ucast_pkts_in>] [<svi_ipv4_ucast_bytes_in>] [<svi_ipv4_ucast_pkts_out>] [<svi_ipv4_ucast_bytes_out>] [<svi_ipv4_mcast_pkts_in>] [<svi_ipv4_mcast_bytes_in>] [<svi_ipv4_mcast_pkts_out>] [<svi_ipv4_mcast_bytes_out>] [<svi_ipv6_ucast_pkts_in>] [<svi_ipv6_ucast_bytes_in>] [<svi_ipv6_ucast_pkts_out>] [<svi_ipv6_ucast_bytes_out>] [<svi_ipv6_mcast_pkts_in>] [<svi_ipv6_mcast_bytes_in>] [<svi_ipv6_mcast_pkts_out>] [<svi_ipv6_mcast_bytes_out>] [<svi_average_input_bits>] [<svi_average_input_packets>] [<svi_average_output_bits>] [<svi_average_output_packets>] [<svi_rate_in_mins>] [<svi_time_last_cleared>] [<svi_tx_load>] [<svi_rx_load>] [<svi_reliability>] [<input_rate_bit_per_sec>] [<input_rate_bytes_per_sec>] [<input_rate_frames_per_sec>] [<output_rate_bit_per_sec>] [<output_rate_bytes_per_sec>] [<output_rate_frames_per_sec>] [<in_frames>] [<in_bytes>] [<class_2_in_frames>] [<class_2_in_bytes>] [<class_3_in_frames>] [<class_3_in_bytes>] [<class_f_in_frames>] [<class_f_in_bytes>] [<class_2_3_in_frames>] [<in_discards>] [<in_errors>] [<in_crc_fcs>] [<in_unknown_class>] [<in_too_long>] [<in_too_short>] [<out_frames>] [<out_bytes>] [<class_2_out_frames>] [<class_2_out_bytes>] [<class_3_out_frames>] [<class_3_out_bytes>] [<class_f_out_frames>] [<class_f_out_bytes>] [<class_2_3_out_frames>] [<out_discards>] [<out_errors>] [<out_crc_fcs>] [<timeout_discards>] [<credit_loss>] [<input_ols>] [<input_lrr>] [<input_nos>] [<input_loop_inits>] [<output_ols>] [<output_lrr>] [<output_nos>] [<output_loop_inits>] [<link_faliures>] [<sync_loss>] [<signal_loss>] [<b2b_transmit>] [<b2b_receive>] [<txwait>] [<tx_credit_unavbl>] [<b2b_receive_remain>] [<b2b_transmit_remain>] [<low_priority_b2b_remain>] [<off_seq_err_rcvd>] [<broadcast_frames>] [<errors>] [<queue_drops>] [<if_down_drops>] [<red_drops>] [<bad_ether_type_drops>] [<bad_protocol_drops>] [<arp_drops>] [<reass_frames>] [<timestamp_error>] [<rx_b2b_perf_buff>] [<rx_b2b_credit>] [<tx_b2b_credit>] [<tx_b2b_low_pri_cre>] [<time_last_cleared>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
detailed	Show only non-zero counters
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
vdc_lvl_in_pkts	(Optional) VDC level input packets
vdc_lvl_in_bytes	(Optional) VDC level input bytes
vdc_lvl_in_ucast	(Optional) VDC level input unicast packets
vdc_lvl_in_mcast	(Optional) VDC level input multicast packets

vdc_lvl_in_bcast	(Optional) VDC level input broadcast packets
vdc_lvl_in_bps	(Optional) VDC level input bytes per second
vdc_lvl_in_pps	(Optional) VDC level input packets per second
vdc_lvl_in_avg_pkts	(Optional) VDC level average input packets
vdc_lvl_in_avg_bytes	(Optional) VDC level average input bytes
vdc_lvl_out_pkts	(Optional) VDC level output packets
vdc_lvl_out_bytes	(Optional) VDC level output bytes
vdc_lvl_out_ucast	(Optional) VDC level output unicast packets
vdc_lvl_out_mcast	(Optional) VDC level output multicast packets
vdc_lvl_out_bcast	(Optional) VDC level output broadcast packets
vdc_lvl_out_bps	(Optional) VDC level output bytes per second
vdc_lvl_out_pps	(Optional) VDC level output packets per second
vdc_lvl_out_avg_pkts	(Optional) VDC level average output packets
vdc_lvl_out_avg_bytes	(Optional) VDC level average output bytes
mgmt_in_pkts	(Optional) Input packets
mgmt_in_bytes	(Optional) Input bytes
mgmt_in_mcast	(Optional) Input multicast frames
mgmt_in_compressed	(Optional) Input compressed
mgmt_in_errors	(Optional) Input errors
mgmt_in_frame	(Optional) Input frame errors
mgmt_in_overrun	(Optional) Input overrun
mgmt_in_fifo	(Optional) Input fifo
mgmt_out_pkts	(Optional) Output packets
mgmt_out_bytes	(Optional) Output bytes
mgmt_out_underruns	(Optional) Output overruns
mgmt_out_errors	(Optional) Output errors
mgmt_out_collisions	(Optional) Output collisions
mgmt_out_fifo	(Optional) Output fifo
mgmt_out_carrier	(Optional) Output carrier errors

mgmt_align_err	(Optional) Align error
mgmt_fcs_err	(Optional) FCS error
mgmt_xmit_err	(Optional) Transmit error
mgmt_rcv_err	(Optional) Receive error
mgmt_undersize	(Optional) Undersize
mgmt_outdisc	(Optional) Out discard
mgmt_single_col	(Optional) Single collision
mgmt_multi_col	(Optional) Multiple collision
mgmt_late_col	(Optional) Late collision
mgmt_excess_col	(Optional) Excess collision
mgmt_carri_sen	(Optional) Carrier sense
mgmt_runts	(Optional) Runts
mgmt_giants	(Optional) Giants
mgmt_sqetest_err	(Optional) SQETest error
mgmt_deferred_tx	(Optional) Deferred tx
mgmt_inmactx_err	(Optional) In MAC tx
mgmt_inmacrx_err	(Optional) In MAC rx
mgmt_symbol_err	(Optional) Symbol error
loop_in_pkts	(Optional) Input packets
loop_in_bytes	(Optional) Input bytes
loop_in_mcast	(Optional) Input multicast
loop_in_compressed	(Optional) Input compressed
loop_in_errors	(Optional) Input errors
loop_in_frame	(Optional) Input frame errors
loop_in_overrun	(Optional) Input overrun
loop_in_fifo	(Optional) Input fifo
loop_out_pkts	(Optional) Output packets
loop_out_bytes	(Optional) Output bytes
loop_out_underruns	(Optional) Output underruns

loop_out_errors	(Optional) Output errors
loop_out_collisions	(Optional) Output collisions
loop_out_fifo	(Optional) Output fifo
loop_out_carriers	(Optional) Output carrier errors
eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(Optional) interval 1 input rate bits/sec
eth_inrate1_pkts	(Optional) interval 1 input rate pkts/sec
eth_load_interval1_tx	(Optional) interval 1 timer value in sec
eth_outrate1_bits	(Optional) interval 1 output rate bits/sec
eth_outrate1_pkts	(Optional) interval 1 output rate pkts/sec
eth_inrate1_summary_bits	(Optional) interval 1 input rate bit summary
eth_inrate1_summary_pkts	(Optional) interval 1 input rate pkt summary
eth_outrate1_summary_bits	(Optional) interval 1 output rate bit summary
eth_outrate1_summary_pkts	(Optional) interval 1 output rate pkt summary
eth_load_interval2_rx	(Optional) interval 2 timer value in sec
eth_inrate2_bits	(Optional) interval 2 input rate bits/sec
eth_inrate2_pkts	(Optional) interval 2 input rate pkts/sec
eth_load_interval2_tx	(Optional) interval 2 timer value in sec
eth_outrate2_bits	(Optional) interval 2 output rate bits/sec
eth_outrate2_pkts	(Optional) interval 2 output rate pkts/sec
eth_inrate2_summary_bits	(Optional) interval 2 input rate bit summary
eth_inrate2_summary_pkts	(Optional) interval 2 input rate pkt summary
eth_outrate2_summary_bits	(Optional) interval 2 output rate bit summary
eth_outrate2_summary_pkts	(Optional) interval 2 output rate pkt summary
eth_load_interval3_rx	(Optional) interval 3 timer value in sec
eth_inrate3_bits	(Optional) interval 3 input rate bits/sec
eth_inrate3_pkts	(Optional) interval 3 input rate pkts/sec
eth_load_interval3_tx	(Optional) interval 3 timer value in sec
eth_outrate3_bits	(Optional) interval 3 output rate bits/sec

eth_outrate3_pkts	(Optional) interval 3 output rate pkts/sec
eth_inrate3_summary_bits	(Optional) interval 3 input rate bit summary
eth_inrate3_summary_pkts	(Optional) interval 3 input rate pkt summary
eth_outrate3_summary_bits	(Optional) interval 3 output rate bit summary
eth_outrate3_summary_pkts	(Optional) interval 3 output rate pkt summary
eth_inpkts	(Optional) Packets input
eth_inucast	(Optional) Unicasts
eth_inmcast	(Optional) Multicasts
eth_inbcast	(Optional) Broadcasts
eth_ingiants	(Optional) giants
eth_inbytes	(Optional) Bytes input
eth_storm_supp	(Optional) storm suppression
eth_inb64	(Optional) input pkts between 0 and 64 bytes
eth_inb65_127	(Optional) input pkts between 65 and 127 bytes
eth_inb128_255	(Optional) input pkts between 128 and 255 bytes
eth_inb256_511	(Optional) input pkts between 256 and 511 bytes
eth_inb512_1023	(Optional) input pkts between 512 and 1023 bytes
eth_inb1024_1518	(Optional) input pkts between 1024 and 1518 bytes
eth_inb1519_1548	(Optional) input pkts between 1519 and 1548 bytes
eth_intrunk	(Optional) input trunk pkts
eth_outpkts	(Optional) packets output
eth_outucast	(Optional) Unicasts
eth_outmcast	(Optional) Multicasts
eth_outbcast	(Optional) Broadcasts
eth_outgiants	(Optional) giants
eth_outbytes	(Optional) bytes output
eth_outb64	(Optional) output pkts between 0 and 64 bytes
eth_outb65_127	(Optional) output pkts between 65 and 127 bytes
eth_outb128_255	(Optional) output pkts between 128 and 255 bytes

eth_outb256_511	(Optional) output pkts between 256 and 511 bytes
eth_outb512_1023	(Optional) output pkts between 512 and 1023 bytes
eth_outb1024_1518	(Optional) output pkts between 1024 and 1518 bytes
eth_outb1519_1548	(Optional) output pkts between 1519 and 1548 bytes
eth_outtrunk	(Optional) output trunk pkts
eth_nobuf	(Optional) No buffer received
eth_runts	(Optional) runts
eth_crc	(Optional) CRC
eth_ecc	(Optional) ECC
eth_overrun	(Optional) overrun
eth_underrun	(Optional) underruns
eth_ignored	(Optional) ignored
eth_bad_eth	(Optional) bad ether type drop
eth_bad_proto	(Optional) bad protocol drops
eth_in_ifdown_drops	(Optional) Input if-down drops
eth_coll	(Optional) collisions
eth_latecoll	(Optional) late collision
eth_lostcarrier	(Optional) lost carrier
eth_nocarrier	(Optional) no carrier
eth_babbles	(Optional) babbles
eth_watchdog	(Optional) watchdog
eth_dribble	(Optional) input packets with dribble condition
eth_inerr	(Optional) input errors
eth_outerr	(Optional) output errors
eth_deferred	(Optional) deferred
eth_jabbers	(Optional) jabbers
eth_shortframe	(Optional) short frames
eth_single_coll	(Optional) single collisions
eth_multi_coll	(Optional) multi collisions

eth_excess_coll	(Optional) excessive collisions
eth_indiscard	(Optional) discards
eth_bad_encap	(Optional) bad encapsulation
eth_outcrc	(Optional) Output CRC
eth_symbol	(Optional) symbol errors
eth_out_drops	(Optional) output drops
eth_bpdu_outlost	(Optional) BPDU output lost
eth_cos0_outlost	(Optional) output pkts
eth_cos1_outlost	(Optional) output pkts
eth_cos2_outlost	(Optional) output pkts
eth_cos3_outlost	(Optional) output pkts
eth_cos4_outlost	(Optional) output pkts
eth_cos5_outlost	(Optional) output pkts
eth_cos6_outlost	(Optional) output pkts
eth_cos7_outlost	(Optional) output pkts
eth_inpause	(Optional) pause input
eth_outpause	(Optional) PAUSE output
eth_resets	(Optional) interface resets
eth_sqetest	(Optional) SQE test
eth_l2_ucastpkts	(Optional) L2 switched ucast pkts
eth_l2_ucastbytes	(Optional) L2 switched ucast bytes
eth_l2_mcastpkts	(Optional) L2 switched mcast pkts
eth_l2_mcastbytes	(Optional) L2 switched mcast bytes
eth_l2_bcastpkts	(Optional) L2 switched bcast pkts
eth_l2_bcastbytes	(Optional) L2 switched bcast bytes
eth_l3in_ucastpkts	(Optional) L3 in switched ucast pkts
eth_l3in_ucastbytes	(Optional) L3 in switched ucast bytes
eth_l3in_mcastpkts	(Optional) L3 in switched mcast pkts
eth_l3in_mcastbytes	(Optional) L3 in switched mcast bytes

eth_l3in_bcastpkts	(Optional) L3 in switched bcast pkts
eth_l3in_bcastbytes	(Optional) L3 in switched bcast bytes
eth_l3out_ucastpkts	(Optional) L3 out switched ucast pkts
eth_l3out_ucastbytes	(Optional) L3 out switched ucast bytes
eth_l3out_mcastpkts	(Optional) L3 out switched mcast pkts
eth_l3out_mcastbytes	(Optional) L3 out switched mcast bytes
eth_l3out_bcastpkts	(Optional) L3 out switched bcast pkts
eth_l3out_bcastbytes	(Optional) L3 out switched bcast bytes
eth_l3in_routed_pkts	(Optional) L3 in routed pkts
eth_l3in_routed_bytes	(Optional) L3 in routed bytes
eth_l3out_routed_pkts	(Optional) L3 out routed pkts
eth_l3out_routed_bytes	(Optional) L3 out routed bytes
eth_l3avg1_inbytes	(Optional) Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	(Optional) Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	(Optional) Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	(Optional) Load interval 1 L3 average out switched pkts
eth_ipmcast	(Optional) IP multicast
eth_inhw_switched	(Optional) Input H/W Switched
eth_insw_switched	(Optional) Input S/W Switched
eth_throtles	(Optional) throttles
eth_frame	(Optional) frame
eth_outhw_switched	(Optional) Out H/W Switched
eth_outsw_switched	(Optional) Out S/W Switched
eth_buffail	(Optional) output buffer failures
eth_bufswapped	(Optional) output buffers swapped out
eth_arpdrops	(Optional) arp drops
eth_out_ifdown_drops	(Optional) Output if-down drops
eth_fcoe_in_pkts	(Optional) fcoe in pkts
eth_fcoe_in_octets	(Optional) fcoe in octets

eth_fcoe_out_pkts	(Optional) fcoe out pkts
eth_fcoe_out_octets	(Optional) fcoe out octets
eth_nfcoe_in_pkts	(Optional) nfcoe in pkts
eth_nfcoe_in_octets	(Optional) nfcoe in octets
eth_nfcoe_out_pkts	(Optional) nfcoe out pkts
eth_nfcoe_out_octets	(Optional) nfcoe out octets
svi_time_last_cleared	(Optional) Time last cleared
svi_tx_load	(Optional) Tx Load
svi_rx_load	(Optional) Rx Load
svi_reliability	(Optional) Reliability
input_rate_bit_per_sec	(Optional) Input rate bits per second
input_rate_bytes_per_sec	(Optional) Input rate bytes per second
input_rate_frames_per_sec	(Optional) Input rate frames per second
output_rate_bit_per_sec	(Optional) Output rate bits per second
output_rate_bytes_per_sec	(Optional) Output rate bytes per second
output_rate_frames_per_sec	(Optional) Output rate frames per second
in_frames	(Optional) Frames
in_bytes	(Optional) Bytes
class_2_in_frames	(Optional) Class 2 frames
class_2_in_bytes	(Optional) Class 2 bytes
class_3_in_frames	(Optional) Class 3 frames
class_3_in_bytes	(Optional) Class 3 bytes
class_f_in_frames	(Optional) Class f frames
class_f_in_bytes	(Optional) Class f bytes
class_2_3_in_frames	(Optional) Class 2/3 Frames
in_discards	(Optional) Discards
in_errors	(Optional) Errors
in_crc_fcs	(Optional) CRC/FCS
in_unknown_class	(Optional) Unknown Class

in_too_long	(Optional) Frames too long
in_too_short	(Optional) Frames too short
out_frames	(Optional) Frames
out_bytes	(Optional) Bytes
class_2_out_frames	(Optional) Class 2 frames
class_2_out_bytes	(Optional) Class 2 bytes
class_3_out_frames	(Optional) Class 3 frames
class_3_out_bytes	(Optional) Class 3 bytes
class_f_out_frames	(Optional) Class f frames
class_f_out_bytes	(Optional) Class f bytes
class_2_3_out_frames	(Optional) Class 2/3 frames
out_discards	(Optional) Discards
out_errors	(Optional) Errors
out_crc_fcs	(Optional) CRC/FCS
timeout_discards	(Optional) Timeout Discards
credit_loss	(Optional) Credit Loss
input_ols	(Optional) input ols
input_lrr	(Optional) input LRR
input_nos	(Optional) input NOS
input_loop_inits	(Optional) input loop inits
output_ols	(Optional) output OLS
output_lrr	(Optional) output LRR
output_nos	(Optional) output NOS
output_loop_inits	(Optional) output loop inits
link_faliures	(Optional) link faliures
sync_loss	(Optional) Sync loss
signal_loss	(Optional) Signal loss
b2b_transmit	(Optional) B2B transmit
b2b_receive	(Optional) B2B receive

txwait	(Optional) TxWait
tx_credit_unavbl	(Optional) Tx credit unavaliable
b2b_receive_remain	(Optional) B2B receive remain
b2b_transmit_remain	(Optional) B2B transmit remain
low_priority_b2b_remain	(Optional) Low priority B2B credit remaining
off_seq_err_rcvd	(Optional) Offset Sequence Error Received
broadcast_frames	(Optional) Broadcast frames
errors	(Optional) Errors
queue_drops	(Optional) Queue drops
if_down_drops	(Optional) If down drops
red_drops	(Optional) Red drops
bad_ether_type_drops	(Optional) Bad ether type drops
bad_protocol_drops	(Optional) Bad Protocol Drops
arp_drops	(Optional) Arp Drops
timestamp_error	(Optional) Timestamp Error
reass_frames	(Optional) Reass Frames
rx_b2b_perf_buff	(Optional) RX B2B performance buffer
rx_b2b_credit	(Optional) RX B2B credit remaining
tx_b2b_credit	(Optional) TX B2B credit remaining
tx_b2b_low_pri_cre	(Optional) TX B2B low priority Credit
time_last_cleared	(Optional) Last time cleared

Command Mode

- /exec

show interface counters detailed

show interface <ifmgmt_ctr_dtl> counters detailed [__readonly__ TABLE_interface <interface> [<vdc_lvl_in_pkts>] [<vdc_lvl_in_bytes>] [<vdc_lvl_in_ucast>] [<vdc_lvl_in_mcast>] [<vdc_lvl_in_bcast>] [<vdc_lvl_in_bps>] [<vdc_lvl_in_pps>] [<vdc_lvl_in_avg_pkts>] [<vdc_lvl_in_avg_bytes>] [<vdc_lvl_out_pkts>] [<vdc_lvl_out_bytes>] [<vdc_lvl_out_ucast>] [<vdc_lvl_out_mcast>] [<vdc_lvl_out_bcast>] [<vdc_lvl_out_bps>] [<vdc_lvl_out_pps>] [<vdc_lvl_out_avg_pkts>] [<vdc_lvl_out_avg_bytes>] [<mgmt_in_pkts>] [<mgmt_in_bytes>] [<mgmt_in_mcast>] [<mgmt_in_compressed>] [<mgmt_in_errors>] [<mgmt_in_frame>] [<mgmt_in_overrun>] [<mgmt_in_fifo>] [<mgmt_out_pkts>] [<mgmt_out_bytes>] [<mgmt_out_underruns>] [<mgmt_out_errors>] [<mgmt_out_collisions>] [<mgmt_out_fifo>] [<mgmt_out_carrier>] [<mgmt_align_err>] [<mgmt_fcs_err>] [<mgmt_xmit_err>] [<mgmt_rcv_err>] [<mgmt_undersize>] [<mgmt_outdisc>] [<mgmt_single_col>] [<mgmt_multi_col>] [<mgmt_late_col>] [<mgmt_excess_col>] [<mgmt_carri_sen>] [<mgmt_runts>] [<mgmt_giants>] [<mgmt_sqetest_err>] [<mgmt_deferred_tx>] [<mgmt_inmactx_err>] [<mgmt_inmacrx_err>] [<mgmt_symbol_err>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifmgmt_ctr_dtl	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
vdc_lvl_in_pkts	(Optional) VDC level input packets
vdc_lvl_in_bytes	(Optional) VDC level input bytes
vdc_lvl_in_ucast	(Optional) VDC level input unicast packets
vdc_lvl_in_mcast	(Optional) VDC level input multicast packets
vdc_lvl_in_bcast	(Optional) VDC level input broadcast packets
vdc_lvl_in_bps	(Optional) VDC level input bytes per second
vdc_lvl_in_pps	(Optional) VDC level input packets per second
vdc_lvl_in_avg_pkts	(Optional) VDC level average input packets
vdc_lvl_in_avg_bytes	(Optional) VDC level average input bytes
vdc_lvl_out_pkts	(Optional) VDC level output packets

vdc_lvl_out_bytes	(Optional) VDC level output bytes
vdc_lvl_out_ucast	(Optional) VDC level output unicast packets
vdc_lvl_out_mcast	(Optional) VDC level output multicast packets
vdc_lvl_out_bcast	(Optional) VDC level output broadcast packets
vdc_lvl_out_bps	(Optional) VDC level output bytes per second
vdc_lvl_out_pps	(Optional) VDC level output packets per second
vdc_lvl_out_avg_pkts	(Optional) VDC level average output packets
vdc_lvl_out_avg_bytes	(Optional) VDC level average output bytes
mgmt_in_pkts	(Optional) Input packets
mgmt_in_bytes	(Optional) Input bytes
mgmt_in_mcast	(Optional) Input multicast frames
mgmt_in_compressed	(Optional) Input compressed
mgmt_in_errors	(Optional) Input errors
mgmt_in_frame	(Optional) Input frame errors
mgmt_in_overrun	(Optional) Input overrun
mgmt_in_fifo	(Optional) Input fifo
mgmt_out_pkts	(Optional) Output packets
mgmt_out_bytes	(Optional) Output bytes
mgmt_out_underruns	(Optional) Output overruns
mgmt_out_errors	(Optional) Output errors
mgmt_out_collisions	(Optional) Output collisions
mgmt_out_fifo	(Optional) Output fifo
mgmt_out_carrier	(Optional) Output carrier errors
mgmt_align_err	(Optional) Align error
mgmt_fcs_err	(Optional) FCS error
mgmt_xmit_err	(Optional) Transmit error
mgmt_rcv_err	(Optional) Receive error
mgmt_undersize	(Optional) Undersize
mgmt_outdisc	(Optional) Out discard

mgmt_single_col	(Optional) Single collision
mgmt_multi_col	(Optional) Multiple collision
mgmt_late_col	(Optional) Late collision
mgmt_excess_col	(Optional) Excess collision
mgmt_carri_sen	(Optional) Carrier sense
mgmt_runts	(Optional) Runts
mgmt_giants	(Optional) Giants
mgmt_sqetest_err	(Optional) SQETest error
mgmt_deferred_tx	(Optional) Deferred tx
mgmt_inmactx_err	(Optional) In MAC tx
mgmt_inmacrx_err	(Optional) In MAC rx
mgmt_symbol_err	(Optional) Symbol error

Command Mode

- /exec

show interface counters detailed

show interface <ifloop_ctr_dtl> counters detailed [__readonly__ TABLE_interface <interface> [<loop_in_pkts>] [<loop_in_bytes>] [<loop_in_mcast>] [<loop_in_compressed>] [<loop_in_errors>] [<loop_in_frame>] [<loop_in_overrun>] [<loop_in_fifo>] [<loop_out_pkts>] [<loop_out_bytes>] [<loop_out_underruns>] [<loop_out_errors>] [<loop_out_collisions>] [<loop_out_fifo>] [<loop_out_carriers>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifloop_ctr_dtl	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
loop_in_pkts	(Optional) Input packets
loop_in_bytes	(Optional) Input bytes
loop_in_mcast	(Optional) Input multicast
loop_in_compressed	(Optional) Input compressed
loop_in_errors	(Optional) Input errors
loop_in_frame	(Optional) Input frame errors
loop_in_overrun	(Optional) Input overrun
loop_in_fifo	(Optional) Input fifo
loop_out_pkts	(Optional) Output packets
loop_out_bytes	(Optional) Output bytes
loop_out_underruns	(Optional) Output underruns
loop_out_errors	(Optional) Output errors
loop_out_collisions	(Optional) Output collisions
loop_out_fifo	(Optional) Output fifo
loop_out_carriers	(Optional) Output carrier errors

Command Mode

- /exec

show interface counters detailed all

show interface <ifeth_ctr_dtl_all> counters detailed all [snmp] [__readonly__ TABLE_interface <interface> [<rx_total_pkts>] [<tx_total_pkts>] [<rx_ucast_pkts>] [<rx_mcast_pkts>] [<rx_bcast_pkts>] [<rx_octets>] [<tx_ucast_pkts>] [<tx_mcast_pkts>] [<tx_bcast_pkts>] [<tx_octets>] [<rxtx_pkts_64octets>] [<rxtx_pkts_65_127octets>] [<rxtx_pkts_128_255octets>] [<rxtx_pkts_256_511octets>] [<rxtx_pkts_512_1023octets>] [<rxtx_pkts_1024_1518octets>] [<rxtx_pkts_1519_1548octets>] [<rx_trunk_frames>] [<tx_trunk_frames>] [<rx_drop_events>] [<rxtx_giants>] [<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_inrate2_summary_bits>] [<eth_inrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_load_interval3_rx>] [<eth_inrate3_bits>] [<eth_inrate3_pkts>] [<eth_load_interval3_tx>] [<eth_outrate3_bits>] [<eth_outrate3_pkts>] [<eth_inrate3_summary_bits>] [<eth_inrate3_summary_pkts>] [<eth_outrate3_summary_bits>] [<eth_outrate3_summary_pkts>] [<eth_l2_ucastpkts>] [<eth_l2_ucastbytes>] [<eth_l2_mcastpkts>] [<eth_l2_mcastbytes>] [<eth_l2_bcastpkts>] [<eth_l2_bcastbytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_ucastbytes>] [<eth_l3in_mcastpkts>] [<eth_l3in_mcastbytes>] [<eth_l3in_bcastpkts>] [<eth_l3in_bcastbytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_ucastbytes>] [<eth_l3out_mcastpkts>] [<eth_l3out_mcastbytes>] [<eth_l3out_bcastpkts>] [<eth_l3out_bcastbytes>] [<eth_l3in_routed_pkts>] [<eth_l3in_routed_bytes>] [<eth_l3out_routed_pkts>] [<eth_l3out_routed_bytes>] [<eth_l3avg1_inbytes>] [<eth_l3avg1_inpkts>] [<eth_l3avg1_outbytes>] [<eth_l3avg1_outpkts>] [<eth_l3avg2_inbytes>] [<eth_l3avg2_inpkts>] [<eth_l3avg2_outbytes>] [<eth_l3avg2_outpkts>] [<eth_l3avg3_inbytes>] [<eth_l3avg3_inpkts>] [<eth_l3avg3_outbytes>] [<eth_l3avg3_outpkts>] [<eth_inpkts>] [<eth_inbytes>] [<eth_nobuf>] [<eth_inbcast>] [<eth_inmcast>] [<eth_inucast>] [<eth_ingiants>] [<eth_ipmcast>] [<eth_inhw_switched>] [<eth_insw_switched>] [<eth_runts>] [<eth_storm_supp>] [<eth_throtles>] [<eth_inerr>] [<eth_crc>] [<eth_ecc>] [<eth_frame>] [<eth_overrun>] [<eth_ignored>] [<eth_watchdog>] [<eth_outbcast>] [<eth_outmcast>] [<eth_outucast>] [<eth_outgiants>] [<eth_inpause>] [<eth_dribble>] [<eth_in_ifdown_drops>] [<eth_bad_eth>] [<eth_bad_proto>] [<eth_outpkts>] [<eth_outbytes>] [<eth_underrun>] [<eth_outhw_switched>] [<eth_outsw_switched>] [<eth_outerr>] [<eth_coll>] [<eth_resets>] [<eth_babbles>] [<eth_latecoll>] [<eth_deferred>] [<eth_lostcarrier>] [<eth_nocarrier>] [<eth_outpause>] [<eth_buffail>] [<eth_bufswapped>] [<eth_arpdrops>] [<eth_out_ifdown_drops>] [<eth_single_coll>] [<eth_multi_coll>] [<eth_excess_coll>] [<eth_jabbers>] [<eth_shortframe>] [<eth_indiscard>] [<eth_bad_encap>] [<eth_outcrc>] [<eth_symbol>] [<eth_out_drops>] [<eth_sqetest>] [<eth_inb64>] [<eth_inb65_127>] [<eth_inb128_255>] [<eth_inb256_511>] [<eth_inb512_1023>] [<eth_inb1024_1518>] [<eth_inb1519_1548>] [<eth_intrunk>] [<eth_outb64>] [<eth_outb65_127>] [<eth_outb128_255>] [<eth_outb256_511>] [<eth_outb512_1023>] [<eth_outb1024_1518>] [<eth_outb1519_1548>] [<eth_outtrunk>] [<eth_bpdu_outlost>] [<eth_cos0_outlost>] [<eth_cos1_outlost>] [<eth_cos2_outlost>] [<eth_cos3_outlost>] [<eth_cos4_outlost>] [<eth_cos5_outlost>] [<eth_cos6_outlost>] [<eth_cos7_outlost>] [<eth_fcoe_in_pkts>] [<eth_fcoe_in_octets>] [<eth_fcoe_out_pkts>] [<eth_fcoe_out_octets>] [<eth_nfcoe_in_pkts>] [<eth_nfcoe_in_octets>] [<eth_nfcoe_out_pkts>] [<eth_nfcoe_out_octets>] [<eth_eee_atx_lpi_msec>] [<eth_eee_arcv_lpi_msec>] [<eth_eee_atx_lpi_transitions>] [<eth_eee_arcv_lpi_transitions>] [<eth_phy_ber_count>] [<eth_phy_errblks_count>]]

Syntax Description

show	Show running system information

interface	Show interface status and information
ifeth_ctr_dtl_all	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
rx_total_pkts	(Optional) total input packets
tx_total_pkts	(Optional) total output packets
rx_ucast_pkts	(Optional) input unicasts
rx_mcast_pkts	(Optional) input multicasts
rx_bcast_pkts	(Optional) input broadcasts
rx_octets	(Optional) input bytes
tx_ucast_pkts	(Optional) output unicasts
tx_mcast_pkts	(Optional) output multicasts
tx_bcast_pkts	(Optional) output broadcasts
tx_octets	(Optional) output bytes
rxtx_pkts_64octets	(Optional) all pkts between 0 and 64 bytes
rxtx_pkts_65_127octets	(Optional) all pkts between 65 and 127 bytes
rxtx_pkts_128_255octets	(Optional) all pkts between 128 and 255 bytes
rxtx_pkts_256_511octets	(Optional) all pkts between 256 and 511 bytes
rxtx_pkts_512_1023octets	(Optional) all pkts between 512 and 1023 bytes
rxtx_pkts_1024_1518octets	(Optional) all pkts between 1024 and 1518 bytes
rxtx_pkts_1519_1548octets	(Optional) all pkts between 1519 and 1548 bytes
rx_trunk_frames	(Optional) input trunk pkts
tx_trunk_frames	(Optional) output trunk pkts
rx_drop_events	(Optional) dropped pkts

rxtx_giants	(Optional) giants
eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(Optional) interval 1 input rate bits/sec
eth_inrate1_pkts	(Optional) interval 1 input rate pkts/sec
eth_load_interval1_tx	(Optional) interval 1 timer value in sec
eth_outrate1_bits	(Optional) interval 1 output rate bits/sec
eth_outrate1_pkts	(Optional) interval 1 output rate pkts/sec
eth_inrate1_summary_bits	(Optional) interval 1 input rate bit summary
eth_inrate1_summary_pkts	(Optional) interval 1 input rate pkt summary
eth_outrate1_summary_bits	(Optional) interval 1 output rate bit summary
eth_outrate1_summary_pkts	(Optional) interval 1 output rate pkt summary
eth_load_interval2_rx	(Optional) interval 2 timer value in sec
eth_inrate2_bits	(Optional) interval 2 input rate bits/sec
eth_inrate2_pkts	(Optional) interval 2 input rate pkts/sec
eth_load_interval2_tx	(Optional) interval 2 timer value in sec
eth_outrate2_bits	(Optional) interval 2 output rate bits/sec
eth_outrate2_pkts	(Optional) interval 2 output rate pkts/sec
eth_inrate2_summary_bits	(Optional) interval 2 input rate bit summary
eth_inrate2_summary_pkts	(Optional) interval 2 input rate pkt summary
eth_outrate2_summary_bits	(Optional) interval 2 output rate bit summary
eth_outrate2_summary_pkts	(Optional) interval 2 output rate pkt summary
eth_load_interval3_rx	(Optional) interval 3 timer value in sec
eth_inrate3_bits	(Optional) interval 3 input rate bits/sec
eth_inrate3_pkts	(Optional) interval 3 input rate pkts/sec
eth_load_interval3_tx	(Optional) interval 3 timer value in sec
eth_outrate3_bits	(Optional) interval 3 output rate bits/sec
eth_outrate3_pkts	(Optional) interval 3 output rate pkts/sec
eth_inrate3_summary_bits	(Optional) interval 3 input rate bit summary
eth_inrate3_summary_pkts	(Optional) interval 3 input rate pkt summary

eth_outrate3_summary_bits	(Optional) interval 3 output rate bit summary
eth_outrate3_summary_pkts	(Optional) interval 3 output rate pkt summary
eth_l2_ucastpkts	(Optional) L2 switched ucast pkts
eth_l2_ucastbytes	(Optional) L2 switched ucast bytes
eth_l2_mcastpkts	(Optional) L2 switched mcast pkts
eth_l2_mcastbytes	(Optional) L2 switched mcast bytes
eth_l2_bcastpkts	(Optional) L2 switched bcast pkts
eth_l2_bcastbytes	(Optional) L2 switched bcast bytes
eth_l3in_ucastpkts	(Optional) IPv4 L3 in switched ucast pkts
eth_l3in_ucastbytes	(Optional) IPv4 L3 in switched ucast bytes
eth_l3in_mcastpkts	(Optional) IPv4 L3 in switched mcast pkts
eth_l3in_mcastbytes	(Optional) IPv4 L3 in switched mcast bytes
eth_l3in_bcastpkts	(Optional) L3 in switched bcast pkts
eth_l3in_bcastbytes	(Optional) L3 in switched bcast bytes
eth_l3out_ucastpkts	(Optional) IPv4 L3 out switched ucast pkts
eth_l3out_ucastbytes	(Optional) IPv4 L3 out switched ucast bytes
eth_l3out_mcastpkts	(Optional) IPv4 L3 out switched mcast pkts
eth_l3out_mcastbytes	(Optional) IPv4 L3 out switched mcast bytes
eth_l3out_bcastpkts	(Optional) L3 out switched bcast pkts
eth_l3out_bcastbytes	(Optional) L3 out switched bcast bytes
eth_l3in_routed_pkts	(Optional) L3 in routed pkts
eth_l3in_routed_bytes	(Optional) L3 in routed bytes
eth_l3out_routed_pkts	(Optional) L3 out routed pkts
eth_l3out_routed_bytes	(Optional) L3 out routed bytes
eth_l3avg1_inbytes	(Optional) Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	(Optional) Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	(Optional) Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	(Optional) Load interval 1 L3 average out switched pkts
eth_l3avg2_inbytes	(Optional) Load interval 2 L3 average in switched bytes

eth_l3avg2_inpkts	(Optional) Load interval 2 L3 average in switched pkts
eth_l3avg2_outbytes	(Optional) Load interval 2 L3 average out switched bytes
eth_l3avg2_outpkts	(Optional) Load interval 2 L3 average out switched pkts
eth_l3avg3_inbytes	(Optional) Load interval 3 L3 average in switched bytes
eth_l3avg3_inpkts	(Optional) Load interval 3 L3 average in switched pkts
eth_l3avg3_outbytes	(Optional) Load interval 3 L3 average out switched bytes
eth_l3avg3_outpkts	(Optional) Load interval 3 L3 average out switched pkts
eth_inpkts	(Optional) Packets input
eth_inbytes	(Optional) Bytes input
eth_nobuf	(Optional) No buffer received
eth_inbcast	(Optional) Broadcasts
eth_inmcast	(Optional) Multicasts
eth_inucast	(Optional) Unicasts
eth_ingiants	(Optional) giants
eth_ipmcast	(Optional) IP multicast
eth_inhw_switched	(Optional) Input H/W Switched
eth_insw_switched	(Optional) Input S/W Switched
eth_runts	(Optional) runts
eth_storm_supp	(Optional) storm suppression
eth_throtles	(Optional) throttles
eth_inerr	(Optional) input errors
eth_crc	(Optional) CRC
eth_ecc	(Optional) ECC
eth_frame	(Optional) frame
eth_overrun	(Optional) overrun
eth_ignored	(Optional) ignored
eth_watchdog	(Optional) watchdog
eth_outbcast	(Optional) Broadcasts
eth_outmcast	(Optional) Multicasts

eth_outucast	(Optional) Unicasts
eth_outgiants	(Optional) giants
eth_inpause	(Optional) pause input
eth_dribble	(Optional) input packets with dribble condition
eth_in_ifdown_drops	(Optional) Input if-down drops
eth_bad_eth	(Optional) bad ether type drop
eth_bad_proto	(Optional) bad protocol drops
eth_outpkts	(Optional) packets output
eth_outbytes	(Optional) bytes output
eth_underrun	(Optional) underruns
eth_outhw_switched	(Optional) Out H/W Switched
eth_outsw_switched	(Optional) Out S/W Switched
eth_outerr	(Optional) output errors
eth_coll	(Optional) collisions
eth_resets	(Optional) interface resets
eth_babbles	(Optional) babbles
eth_latecoll	(Optional) late collision
eth_deferred	(Optional) deferred
eth_lostcarrier	(Optional) lost carrier
eth_nocarrier	(Optional) no carrier
eth_outpause	(Optional) PAUSE output
eth_buffail	(Optional) output buffer failures
eth_bufswapped	(Optional) output buffers swapped out
eth_arpdrops	(Optional) arp drops
eth_out_ifdown_drops	(Optional) Output if-down drops
eth_single_coll	(Optional) single collisions
eth_multi_coll	(Optional) multi collisions
eth_excess_coll	(Optional) excessive collisions
eth_jabbers	(Optional) jabbers

eth_shortframe	(Optional) short frames
eth_indiscard	(Optional) discards
eth_bad_encap	(Optional) bad encapsulation
eth_outcrc	(Optional) Output CRC
eth_symbol	(Optional) symbol errors
eth_out_drops	(Optional) output drops
eth_sqetest	(Optional) SQE test
eth_inb64	(Optional) input pkts between 0 and 64 bytes
eth_inb65_127	(Optional) input pkts between 65 and 127 bytes
eth_inb128_255	(Optional) input pkts between 128 and 255 bytes
eth_inb256_511	(Optional) input pkts between 256 and 511 bytes
eth_inb512_1023	(Optional) input pkts between 512 and 1023 bytes
eth_inb1024_1518	(Optional) input pkts between 1024 and 1518 bytes
eth_inb1519_1548	(Optional) input pkts between 1519 and 1548 bytes
eth_intrunk	(Optional) input trunk pkts
eth_outb64	(Optional) output pkts between 0 and 64 bytes
eth_outb65_127	(Optional) output pkts between 65 and 127 bytes
eth_outb128_255	(Optional) output pkts between 128 and 255 bytes
eth_outb256_511	(Optional) output pkts between 256 and 511 bytes
eth_outb512_1023	(Optional) output pkts between 512 and 1023 bytes
eth_outb1024_1518	(Optional) output pkts between 1024 and 1518 bytes
eth_outb1519_1548	(Optional) output pkts between 1519 and 1548 bytes
eth_outtrunk	(Optional) output trunk pkts
eth_bpdu_outlost	(Optional) BPDU output lost
eth_cos0_outlost	(Optional) output pkts
eth_cos1_outlost	(Optional) output pkts
eth_cos2_outlost	(Optional) output pkts
eth_cos3_outlost	(Optional) output pkts
eth_cos4_outlost	(Optional) output pkts

eth_cos5_outlost	(Optional) output pkts
eth_cos6_outlost	(Optional) output pkts
eth_cos7_outlost	(Optional) output pkts
eth_fcoe_in_pkts	(Optional) fcoe in pkts
eth_fcoe_in_octets	(Optional) fcoe in octets
eth_fcoe_out_pkts	(Optional) fcoe out pkts
eth_fcoe_out_octets	(Optional) fcoe out octets
eth_nfcoe_in_pkts	(Optional) nfcoe in pkts
eth_nfcoe_in_octets	(Optional) nfcoe in octets
eth_nfcoe_out_pkts	(Optional) nfcoe out pkts
eth_nfcoe_out_octets	(Optional) nfcoe out octets
eth_eee_atx_lpi_msec	(Optional) Tx Lpi usec
eth_eee_arcv_lpi_msec	(Optional) Rx Lpi usec
eth_eee_atx_lpi_transitions	(Optional) Tx Lpi requests
eth_eee_arcv_lpi_transitions	(Optional) Rx Lpi indications
eth_phy_ber_count	(Optional) Bit error rate counter
eth_phy_errblks_count	(Optional) Errored blocks counter

Command Mode

- /exec

show interface counters detailed all

show interface <ifid_ctr_dtl_all> counters detailed all [snmp]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_ctr_dtl_all	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
snmp	(Optional) Show SNMP MIB values

Command Mode

- /exec

show interface counters detailed all

show interface <ifmgmt_ctr_dtl_all> counters detailed all [__readonly__ TABLE_interface <interface> [<vdc_lvl_in_pkts>] [<vdc_lvl_in_bytes>] [<vdc_lvl_in_ucast>] [<vdc_lvl_in_mcast>] [<vdc_lvl_in_bcast>] [<vdc_lvl_in_bps>] [<vdc_lvl_in_pps>] [<vdc_lvl_in_avg_pkts>] [<vdc_lvl_in_avg_bytes>] [<vdc_lvl_out_pkts>] [<vdc_lvl_out_bytes>] [<vdc_lvl_out_ucast>] [<vdc_lvl_out_mcast>] [<vdc_lvl_out_bcast>] [<vdc_lvl_out_bps>] [<vdc_lvl_out_pps>] [<vdc_lvl_out_avg_pkts>] [<vdc_lvl_out_avg_bytes>] [<mgmt_in_pkts>] [<mgmt_in_bytes>] [<mgmt_in_mcast>] [<mgmt_out_pkts>] [<mgmt_out_bytes>] [<mgmt_in_errors>] [<mgmt_out_errors>] [<mgmt_in_fifo>] [<mgmt_out_fifo>] [<mgmt_in_compressed>] [<mgmt_in_frame>] [<mgmt_in_overrun>] [<mgmt_out_underruns>] [<mgmt_out_collisions>] [<mgmt_out_carrier>] [<mgmt_align_err>] [<mgmt_fcs_err>] [<mgmt_xmit_err>] [<mgmt_rcv_err>] [<mgmt_undersize>] [<mgmt_outdisc>] [<mgmt_single_col>] [<mgmt_multi_col>] [<mgmt_late_col>] [<mgmt_excess_col>] [<mgmt_carri_sen>] [<mgmt_runts>] [<mgmt_giants>] [<mgmt_sqetest_err>] [<mgmt_deferred_tx>] [<mgmt_inmactx_err>] [<mgmt_inmacrx_err>] [<mgmt_symbol_err>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifmgmt_ctr_dtl_all	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
vdc_lvl_in_pkts	(Optional) VDC level input packets
vdc_lvl_in_bytes	(Optional) VDC level input bytes
vdc_lvl_in_ucast	(Optional) VDC level input unicast packets
vdc_lvl_in_mcast	(Optional) VDC level input multicast packets
vdc_lvl_in_bcast	(Optional) VDC level input broadcast packets
vdc_lvl_in_bps	(Optional) VDC level input bytes per second
vdc_lvl_in_pps	(Optional) VDC level input packets per second
vdc_lvl_in_avg_pkts	(Optional) VDC level average input packets
vdc_lvl_in_avg_bytes	(Optional) VDC level average input bytes

vdc_lvl_out_pkts	(Optional) VDC level output packets
vdc_lvl_out_bytes	(Optional) VDC level output bytes
vdc_lvl_out_ucast	(Optional) VDC level output unicast packets
vdc_lvl_out_mcast	(Optional) VDC level output multicast packets
vdc_lvl_out_bcast	(Optional) VDC level output broadcast packets
vdc_lvl_out_bps	(Optional) VDC level output bytes per second
vdc_lvl_out_pps	(Optional) VDC level output packets per second
vdc_lvl_out_avg_pkts	(Optional) VDC level average output packets
vdc_lvl_out_avg_bytes	(Optional) VDC level average output bytes
mgmt_in_pkts	(Optional) Input packets
mgmt_in_bytes	(Optional) Input bytes
mgmt_in_mcast	(Optional) Input multicast frames
mgmt_out_pkts	(Optional) Output packets
mgmt_out_bytes	(Optional) Output bytes
mgmt_in_errors	(Optional) Input errors
mgmt_out_errors	(Optional) Output errors
mgmt_in_fifo	(Optional) Input fifo
mgmt_out_fifo	(Optional) Output fifo
mgmt_in_compressed	(Optional) Input compressed
mgmt_in_frame	(Optional) Input frame errors
mgmt_in_overrun	(Optional) Input overrun
mgmt_out_underruns	(Optional) Output overruns
mgmt_out_collisions	(Optional) Output collisions
mgmt_out_carrier	(Optional) Output carrier errors
mgmt_align_err	(Optional) Align error
mgmt_fcs_err	(Optional) FCS error
mgmt_xmit_err	(Optional) Transmit error
mgmt_rcv_err	(Optional) Receive error
mgmt_undersize	(Optional) Undersize

mgmt_outdisc	(Optional) Out discard
mgmt_single_col	(Optional) Single collision
mgmt_multi_col	(Optional) Multiple collision
mgmt_late_col	(Optional) Late collision
mgmt_excess_col	(Optional) Excess collision
mgmt_carri_sen	(Optional) Carrier sense
mgmt_runts	(Optional) Runts
mgmt_giants	(Optional) Giants
mgmt_sqetest_err	(Optional) SQETest error
mgmt_deferred_tx	(Optional) Deferred tx
mgmt_inmactx_err	(Optional) In MAC tx
mgmt_inmacrx_err	(Optional) In MAC rx
mgmt_symbol_err	(Optional) Symbol error

Command Mode

- /exec

show interface counters detailed all

show interface <ifloop_ctr_dtl_all> counters detailed all [__readonly__ TABLE_interface <interface> [<rx_total_pkts>] [<tx_total_pkts>] [<rx_mcast_pkts>] [<rx_octets>] [<tx_octets>] [<loop_in_pkts>] [<loop_in_bytes>] [<loop_in_mcast>] [<loop_in_compressed>] [<loop_in_errors>] [<loop_in_frame>] [<loop_in_overrun>] [<loop_in_fifo>] [<loop_out_pkts>] [<loop_out_bytes>] [<loop_out_underruns>] [<loop_out_errors>] [<loop_out_collisions>] [<loop_out_fifo>] [<loop_out_carriers>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifloop_ctr_dtl_all	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	Show every interface counter
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
rx_total_pkts	(Optional) total input packets
tx_total_pkts	(Optional) total output packets
rx_mcast_pkts	(Optional) input multicasts
rx_octets	(Optional) input bytes
tx_octets	(Optional) output bytes
loop_in_pkts	(Optional) Input packets
loop_in_bytes	(Optional) Input bytes
loop_in_mcast	(Optional) Input multicast
loop_in_compressed	(Optional) Input compressed
loop_in_errors	(Optional) Input errors
loop_in_frame	(Optional) Input frame errors
loop_in_overrun	(Optional) Input overrun
loop_in_fifo	(Optional) Input fifo
loop_out_pkts	(Optional) Output packets

loop_out_bytes	(Optional) Output bytes
loop_out_underruns	(Optional) Output underruns
loop_out_errors	(Optional) Output errors
loop_out_collisions	(Optional) Output collisions
loop_out_fifo	(Optional) Output fifo
loop_out_carriers	(Optional) Output carrier errors

Command Mode

- /exec

show interface counters detailed all

show interface <ifrange> counters detailed all [snmp] [__readonly__ TABLE_interface <interface> [<svi_routed_pkts_in>] [<svi_routed_bytes_in>] [<svi_routed_pkts_out>] [<svi_routed_bytes_out>] [<svi_ucast_pkts_in>] [<svi_ucast_bytes_in>] [<svi_mcast_pkts_in>] [<svi_mcast_bytes_in>] [<svi_ucast_pkts_out>] [<svi_ucast_bytes_out>] [<svi_mcast_pkts_out>] [<svi_mcast_bytes_out>] [<svi_ipv4_ucast_pkts_in>] [<svi_ipv4_ucast_bytes_in>] [<svi_ipv4_ucast_pkts_out>] [<svi_ipv4_ucast_bytes_out>] [<svi_ipv4_mcast_pkts_in>] [<svi_ipv4_mcast_bytes_in>] [<svi_ipv4_mcast_pkts_out>] [<svi_ipv4_mcast_bytes_out>] [<svi_ipv6_ucast_pkts_in>] [<svi_ipv6_ucast_bytes_in>] [<svi_ipv6_ucast_pkts_out>] [<svi_ipv6_ucast_bytes_out>] [<svi_ipv6_mcast_pkts_in>] [<svi_ipv6_mcast_bytes_in>] [<svi_ipv6_mcast_pkts_out>] [<svi_ipv6_mcast_bytes_out>] [<svi_average_input_bits>] [<svi_average_input_packets>] [<svi_average_output_bits>] [<svi_average_output_packets>] [<svi_rate_in_mins>] [<svi_time_last_cleared>] [<svi_tx_load>] [<svi_rx_load>] [<svi_reliability>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
all	everything
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
svi_time_last_cleared	(Optional) Time last cleared
svi_tx_load	(Optional) Tx Load
svi_rx_load	(Optional) Rx Load
svi_reliability	(Optional) Reliability

Command Mode

- /exec

show interface counters detailed cached

show interface <ifeth_ctr_dtl_all> counters detailed cached [__readonly__ TABLE_interface <interface> [<rx_total_pkts>] [<tx_total_pkts>] [<rx_ucast_pkts>] [<rx_mcast_pkts>] [<rx_bcast_pkts>] [<rx_octets>] [<tx_ucast_pkts>] [<tx_mcast_pkts>] [<tx_bcast_pkts>] [<tx_octets>] [<rxtx_pkts_64octets>] [<rxtx_pkts_65_127octets>] [<rxtx_pkts_128_255octets>] [<rxtx_pkts_256_511octets>] [<rxtx_pkts_512_1023octets>] [<rxtx_pkts_1024_1518octets>] [<rxtx_pkts_1519_1548octets>] [<rx_trunk_frames>] [<tx_trunk_frames>] [<rx_drop_events>] [<rxtx_giants>] [<eth_load_interval1_rx>] [<eth_inrate1_bits>] [<eth_inrate1_pkts>] [<eth_load_interval1_tx>] [<eth_outrate1_bits>] [<eth_outrate1_pkts>] [<eth_inrate1_summary_bits>] [<eth_inrate1_summary_pkts>] [<eth_outrate1_summary_bits>] [<eth_outrate1_summary_pkts>] [<eth_load_interval2_rx>] [<eth_inrate2_bits>] [<eth_inrate2_pkts>] [<eth_load_interval2_tx>] [<eth_outrate2_bits>] [<eth_outrate2_pkts>] [<eth_inrate2_summary_bits>] [<eth_inrate2_summary_pkts>] [<eth_outrate2_summary_bits>] [<eth_outrate2_summary_pkts>] [<eth_load_interval3_rx>] [<eth_inrate3_bits>] [<eth_inrate3_pkts>] [<eth_load_interval3_tx>] [<eth_outrate3_bits>] [<eth_outrate3_pkts>] [<eth_inrate3_summary_bits>] [<eth_inrate3_summary_pkts>] [<eth_outrate3_summary_bits>] [<eth_outrate3_summary_pkts>] [<eth_l2_ucastpkts>] [<eth_l2_ucastbytes>] [<eth_l2_mcastpkts>] [<eth_l2_mcastbytes>] [<eth_l2_bcastpkts>] [<eth_l2_bcastbytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_ucastbytes>] [<eth_l3in_mcastpkts>] [<eth_l3in_mcastbytes>] [<eth_l3in_bcastpkts>] [<eth_l3in_bcastbytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_ucastbytes>] [<eth_l3out_mcastpkts>] [<eth_l3out_mcastbytes>] [<eth_l3out_bcastpkts>] [<eth_l3out_bcastbytes>] [<eth_l3in_routed_pkts>] [<eth_l3in_routed_bytes>] [<eth_l3out_routed_pkts>] [<eth_l3out_routed_bytes>] [<eth_l3avg1_inbytes>] [<eth_l3avg1_inpkts>] [<eth_l3avg1_outbytes>] [<eth_l3avg1_outpkts>] [<eth_l3avg2_inbytes>] [<eth_l3avg2_inpkts>] [<eth_l3avg2_outbytes>] [<eth_l3avg2_outpkts>] [<eth_l3avg3_inbytes>] [<eth_l3avg3_inpkts>] [<eth_l3avg3_outbytes>] [<eth_l3avg3_outpkts>] [<eth_inpkts>] [<eth_inbytes>] [<eth_nobuf>] [<eth_inbcast>] [<eth_inmcast>] [<eth_inucast>] [<eth_ingiants>] [<eth_ipmcast>] [<eth_inhw_switched>] [<eth_insw_switched>] [<eth_runts>] [<eth_storm_supp>] [<eth_throtles>] [<eth_inerr>] [<eth_crc>] [<eth_ecc>] [<eth_frame>] [<eth_overrun>] [<eth_ignored>] [<eth_watchdog>] [<eth_outbcast>] [<eth_outmcast>] [<eth_outucast>] [<eth_outgiants>] [<eth_inpause>] [<eth_dribble>] [<eth_in_ifdown_drops>] [<eth_bad_eth>] [<eth_bad_proto>] [<eth_outpkts>] [<eth_outbytes>] [<eth_underrun>] [<eth_outhw_switched>] [<eth_outsw_switched>] [<eth_outerr>] [<eth_coll>] [<eth_resets>] [<eth_babbles>] [<eth_latecoll>] [<eth_deferred>] [<eth_lostcarrier>] [<eth_nocarrier>] [<eth_outpause>] [<eth_buffail>] [<eth_bufswapped>] [<eth_arpdrops>] [<eth_out_ifdown_drops>] [<eth_single_coll>] [<eth_multi_coll>] [<eth_excess_coll>] [<eth_jabbers>] [<eth_shortframe>] [<eth_indiscard>] [<eth_bad_encap>] [<eth_outcrc>] [<eth_symbol>] [<eth_out_drops>] [<eth_sqetest>] [<eth_inb64>] [<eth_inb65_127>] [<eth_inb128_255>] [<eth_inb256_511>] [<eth_inb512_1023>] [<eth_inb1024_1518>] [<eth_inb1519_1548>] [<eth_intrunk>] [<eth_outb64>] [<eth_outb65_127>] [<eth_outb128_255>] [<eth_outb256_511>] [<eth_outb512_1023>] [<eth_outb1024_1518>] [<eth_outb1519_1548>] [<eth_outtrunk>] [<eth_bpdu_outlost>] [<eth_cos0_outlost>] [<eth_cos1_outlost>] [<eth_cos2_outlost>] [<eth_cos3_outlost>] [<eth_cos4_outlost>] [<eth_cos5_outlost>] [<eth_cos6_outlost>] [<eth_cos7_outlost>] [<eth_fcoe_in_pkts>] [<eth_fcoe_in_octets>] [<eth_fcoe_out_pkts>] [<eth_fcoe_out_octets>] [<eth_nfcoe_in_pkts>] [<eth_nfcoe_in_octets>] [<eth_nfcoe_out_pkts>] [<eth_nfcoe_out_octets>] [<eth_eee_atx_lpi_msec>] [<eth_eee_arcv_lpi_msec>] [<eth_eee_atx_lpi_transitions>] [<eth_eee_arcv_lpi_transitions>] [<eth_phy_ber_count>] [<eth_phy_errblks_count>]]

Syntax Description

show	Show running system information

interface	Show interface status and information
ifeth_ctr_dtl_all	Enter interface type and number in module/slot format
counters	Show interface counters
detailed	Show only non-zero counters
cached	everything cached
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
rx_total_pkts	(Optional) total input packets
tx_total_pkts	(Optional) total output packets
rx_ucast_pkts	(Optional) input unicasts
rx_mcast_pkts	(Optional) input multicasts
rx_bcast_pkts	(Optional) input broadcasts
rx_octets	(Optional) input bytes
tx_ucast_pkts	(Optional) output unicasts
tx_mcast_pkts	(Optional) output multicasts
tx_bcast_pkts	(Optional) output broadcasts
tx_octets	(Optional) output bytes
rxtx_pkts_64octets	(Optional) all pkts between 0 and 64 bytes
rxtx_pkts_65_127octets	(Optional) all pkts between 65 and 127 bytes
rxtx_pkts_128_255octets	(Optional) all pkts between 128 and 255 bytes
rxtx_pkts_256_511octets	(Optional) all pkts between 256 and 511 bytes
rxtx_pkts_512_1023octets	(Optional) all pkts between 512 and 1023 bytes
rxtx_pkts_1024_1518octets	(Optional) all pkts between 1024 and 1518 bytes
rxtx_pkts_1519_1548octets	(Optional) all pkts between 1519 and 1548 bytes
rx_trunk_frames	(Optional) input trunk pkts
tx_trunk_frames	(Optional) output trunk pkts
rx_drop_events	(Optional) dropped pkts
rxtx_giants	(Optional) giants

eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(Optional) interval 1 input rate bits/sec
eth_inrate1_pkts	(Optional) interval 1 input rate pkts/sec
eth_load_interval1_tx	(Optional) interval 1 timer value in sec
eth_outrate1_bits	(Optional) interval 1 output rate bits/sec
eth_outrate1_pkts	(Optional) interval 1 output rate pkts/sec
eth_inrate1_summary_bits	(Optional) interval 1 input rate bit summary
eth_inrate1_summary_pkts	(Optional) interval 1 input rate pkt summary
eth_outrate1_summary_bits	(Optional) interval 1 output rate bit summary
eth_outrate1_summary_pkts	(Optional) interval 1 output rate pkt summary
eth_load_interval2_rx	(Optional) interval 2 timer value in sec
eth_inrate2_bits	(Optional) interval 2 input rate bits/sec
eth_inrate2_pkts	(Optional) interval 2 input rate pkts/sec
eth_load_interval2_tx	(Optional) interval 2 timer value in sec
eth_outrate2_bits	(Optional) interval 2 output rate bits/sec
eth_outrate2_pkts	(Optional) interval 2 output rate pkts/sec
eth_inrate2_summary_bits	(Optional) interval 2 input rate bit summary
eth_inrate2_summary_pkts	(Optional) interval 2 input rate pkt summary
eth_outrate2_summary_bits	(Optional) interval 2 output rate bit summary
eth_outrate2_summary_pkts	(Optional) interval 2 output rate pkt summary
eth_load_interval3_rx	(Optional) interval 3 timer value in sec
eth_inrate3_bits	(Optional) interval 3 input rate bits/sec
eth_inrate3_pkts	(Optional) interval 3 input rate pkts/sec
eth_load_interval3_tx	(Optional) interval 3 timer value in sec
eth_outrate3_bits	(Optional) interval 3 output rate bits/sec
eth_outrate3_pkts	(Optional) interval 3 output rate pkts/sec
eth_inrate3_summary_bits	(Optional) interval 3 input rate bit summary
eth_inrate3_summary_pkts	(Optional) interval 3 input rate pkt summary
eth_outrate3_summary_bits	(Optional) interval 3 output rate bit summary

eth_outrate3_summary_pkts	(Optional) interval 3 output rate pkt summary
eth_l2_ucastpkts	(Optional) L2 switched ucast pkts
eth_l2_ucastbytes	(Optional) L2 switched ucast bytes
eth_l2_mcastpkts	(Optional) L2 switched mcast pkts
eth_l2_mcastbytes	(Optional) L2 switched mcast bytes
eth_l2_bcastpkts	(Optional) L2 switched bcast pkts
eth_l2_bcastbytes	(Optional) L2 switched bcast bytes
eth_l3in_ucastpkts	(Optional) IPv4 L3 in switched ucast pkts
eth_l3in_ucastbytes	(Optional) IPv4 L3 in switched ucast bytes
eth_l3in_mcastpkts	(Optional) IPv4 L3 in switched mcast pkts
eth_l3in_mcastbytes	(Optional) IPv4 L3 in switched mcast bytes
eth_l3in_bcastpkts	(Optional) L3 in switched bcast pkts
eth_l3in_bcastbytes	(Optional) L3 in switched bcast bytes
eth_l3out_ucastpkts	(Optional) IPv4 L3 out switched ucast pkts
eth_l3out_ucastbytes	(Optional) IPv4 L3 out switched ucast bytes
eth_l3out_mcastpkts	(Optional) IPv4 L3 out switched mcast pkts
eth_l3out_mcastbytes	(Optional) IPv4 L3 out switched mcast bytes
eth_l3out_bcastpkts	(Optional) L3 out switched bcast pkts
eth_l3out_bcastbytes	(Optional) L3 out switched bcast bytes
eth_l3in_routed_pkts	(Optional) L3 in routed pkts
eth_l3in_routed_bytes	(Optional) L3 in routed bytes
eth_l3out_routed_pkts	(Optional) L3 out routed pkts
eth_l3out_routed_bytes	(Optional) L3 out routed bytes
eth_l3avg1_inbytes	(Optional) Load interval 1 L3 average in switched bytes
eth_l3avg1_inpkts	(Optional) Load interval 1 L3 average in switched pkts
eth_l3avg1_outbytes	(Optional) Load interval 1 L3 average out switched bytes
eth_l3avg1_outpkts	(Optional) Load interval 1 L3 average out switched pkts
eth_l3avg2_inbytes	(Optional) Load interval 2 L3 average in switched bytes
eth_l3avg2_inpkts	(Optional) Load interval 2 L3 average in switched pkts

eth_l3avg2_outbytes	(Optional) Load interval 2 L3 average out switched bytes
eth_l3avg2_outpkts	(Optional) Load interval 2 L3 average out switched pkts
eth_l3avg3_inbytes	(Optional) Load interval 3 L3 average in switched bytes
eth_l3avg3_inpkts	(Optional) Load interval 3 L3 average in switched pkts
eth_l3avg3_outbytes	(Optional) Load interval 3 L3 average out switched bytes
eth_l3avg3_outpkts	(Optional) Load interval 3 L3 average out switched pkts
eth_inpkts	(Optional) Packets input
eth_inbytes	(Optional) Bytes input
eth_nobuf	(Optional) No buffer received
eth_inbcast	(Optional) Broadcasts
eth_inmcast	(Optional) Multicasts
eth_inucast	(Optional) Unicasts
eth_ingiants	(Optional) giants
eth_ipmcast	(Optional) IP multicast
eth_inhw_switched	(Optional) Input H/W Switched
eth_insw_switched	(Optional) Input S/W Switched
eth_runts	(Optional) runts
eth_storm_supp	(Optional) storm suppression
eth_throtles	(Optional) throttles
eth_inerr	(Optional) input errors
eth_crc	(Optional) CRC
eth_ecc	(Optional) ECC
eth_frame	(Optional) frame
eth_overrun	(Optional) overrun
eth_ignored	(Optional) ignored
eth_watchdog	(Optional) watchdog
eth_outbcast	(Optional) Broadcasts
eth_outmcast	(Optional) Multicasts
eth_outucast	(Optional) Unicasts

eth_outgiants	(Optional) giants
eth_inpause	(Optional) pause input
eth_dribble	(Optional) input packets with dribble condition
eth_in_ifdown_drops	(Optional) Input if-down drops
eth_bad_eth	(Optional) bad ether type drop
eth_bad_proto	(Optional) bad protocol drops
eth_outpkts	(Optional) packets output
eth_outbytes	(Optional) bytes output
eth_underrun	(Optional) underruns
eth_outhw_switched	(Optional) Out H/W Switched
eth_outsw_switched	(Optional) Out S/W Switched
eth_outerr	(Optional) output errors
eth_coll	(Optional) collisions
eth_resets	(Optional) interface resets
eth_babbles	(Optional) babbles
eth_latecoll	(Optional) late collision
eth_deferred	(Optional) deferred
eth_lostcarrier	(Optional) lost carrier
eth_nocarrier	(Optional) no carrier
eth_outpause	(Optional) PAUSE output
eth_buffail	(Optional) output buffer failures
eth_bufswapped	(Optional) output buffers swapped out
eth_arpdrops	(Optional) arp drops
eth_out_ifdown_drops	(Optional) Output if-down drops
eth_single_coll	(Optional) single collisions
eth_multi_coll	(Optional) multi collisions
eth_excess_coll	(Optional) excessive collisions
eth_jabbers	(Optional) jabbers
eth_shortframe	(Optional) short frames

eth_indiscard	(Optional) discards
eth_bad_encap	(Optional) bad encapsulation
eth_outcrc	(Optional) Output CRC
eth_symbol	(Optional) symbol errors
eth_out_drops	(Optional) output drops
eth_sqetest	(Optional) SQE test
eth_inb64	(Optional) input pkts between 0 and 64 bytes
eth_inb65_127	(Optional) input pkts between 65 and 127 bytes
eth_inb128_255	(Optional) input pkts between 128 and 255 bytes
eth_inb256_511	(Optional) input pkts between 256 and 511 bytes
eth_inb512_1023	(Optional) input pkts between 512 and 1023 bytes
eth_inb1024_1518	(Optional) input pkts between 1024 and 1518 bytes
eth_inb1519_1548	(Optional) input pkts between 1519 and 1548 bytes
eth_intrunk	(Optional) input trunk pkts
eth_outb64	(Optional) output pkts between 0 and 64 bytes
eth_outb65_127	(Optional) output pkts between 65 and 127 bytes
eth_outb128_255	(Optional) output pkts between 128 and 255 bytes
eth_outb256_511	(Optional) output pkts between 256 and 511 bytes
eth_outb512_1023	(Optional) output pkts between 512 and 1023 bytes
eth_outb1024_1518	(Optional) output pkts between 1024 and 1518 bytes
eth_outb1519_1548	(Optional) output pkts between 1519 and 1548 bytes
eth_outtrunk	(Optional) output trunk pkts
eth_bpdu_outlost	(Optional) BPDU output lost
eth_cos0_outlost	(Optional) output pkts
eth_cos1_outlost	(Optional) output pkts
eth_cos2_outlost	(Optional) output pkts
eth_cos3_outlost	(Optional) output pkts
eth_cos4_outlost	(Optional) output pkts
eth_cos5_outlost	(Optional) output pkts

eth_cos6_outlost	(Optional) output pkts
eth_cos7_outlost	(Optional) output pkts
eth_fcoe_in_pkts	(Optional) fcoe in pkts
eth_fcoe_in_octets	(Optional) fcoe in octets
eth_fcoe_out_pkts	(Optional) fcoe out pkts
eth_fcoe_out_octets	(Optional) fcoe out octets
eth_nfcoe_in_pkts	(Optional) nfcoe in pkts
eth_nfcoe_in_octets	(Optional) nfcoe in octets
eth_nfcoe_out_pkts	(Optional) nfcoe out pkts
eth_nfcoe_out_octets	(Optional) nfcoe out octets
eth_eee_atx_lpi_msec	(Optional) Tx Lpi usec
eth_eee_arcv_lpi_msec	(Optional) Rx Lpi usec
eth_eee_atx_lpi_transitions	(Optional) Tx Lpi requests
eth_eee_arcv_lpi_transitions	(Optional) Rx Lpi indications
eth_phy_ber_count	(Optional) Bit error rate counter
eth_phy_errblks_count	(Optional) Errored blocks counter

Command Mode

- /exec

show interface counters details

show interface <ifid_ctrs_det2> counters details [__readonly__ TABLE_ifid_counters [<sfp> <in_frames> <in_bytes> <class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames> <class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_recv> <class_f_frames> <class_f_bytes_recv> <class_f_in_discards> <class_f_errors_recvd> <class_f_out_discards> <class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans> <class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames> <class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd> <broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures> <sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err> <link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short> <frames_rcvd_long> <txwait> <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd> <link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort> <unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [<in_link_ser_req_faliures>] <b2b_credits_transmit> <b2b_credits_receive> <eisl_frames> <framing_err> <f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued> [<fec_corrected>] [<fec_uncorrected>]]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_ctrs_det2	Enter interface type and number in module/slot format
counters	Show interface counters
details	Show interface counters in detail
__readonly__	(Optional)
TABLE_ifid_counters	(Optional) show interface counters
sfp	(Optional) SFP
in_frames	(Optional) in frames
in_bytes	(Optional) in bytes
class_2_frames	(Optional) Class 2 frames
class_2_in_bytes	(Optional) Class 2 bytes received
class_2_in_discards	(Optional) Class 2 discards received
class_2_in_f_bsy_frames	(Optional) Class 2 F_BSY frames received
class_2_in_f_rgt_frames	(Optional) Class 2 F_RGT frames
class_2_in_port_reject_frames	(Optional) Class 2 port reject frames
class_3_frames	(Optional) Class 3 frames

class_3_bytes_recv	(Optional) Class 3 bytes received
class_f_frames	(Optional) Class f frames
class_f_bytes_recv	(Optional) Class F bytes received
class_f_in_discards	(Optional) Class F in discards
class_f_errors_recvd	(Optional) Class F errors received
class_f_out_discards	(Optional) Class F out discards
class_f_errors_trans	(Optional) Class F errors transmitted
out_frames	(Optional) Out frames
out_bytes	(Optional) Out bytes
class_2_out_frames	(Optional) Class 2 frames transmitted
class_2_bytes_trans	(Optional) Class 2 bytes transmitted
class_3_out_frames	(Optional) Class 3 frames transmitted
class_3_bytes_trans	(Optional) Class 3 bytes transmitted
class_3_out_discards	(Optional) Class 3 out discards
class_f_out_frames	(Optional) Class F out frames
class_f_bytes_trans	(Optional) Class F bytes transmitted
class_f_discards	(Optional) Class F discards
muticast_rcvd	(Optional) Multicast received
multicast_trans	(Optional) Muticast transmitted
broadcast_rcvd	(Optional) Broadcast received
broadcast_trans	(Optional) Broadcast transmitted
unicast_rcvd	(Optional) Unicast received
unicast_trans	(Optional) Unicast transmitted
timeout_discards	(Optional) timeout discards
credit_loss	(Optional) credit loss
link_faliures	(Optional) Link faliures
sync_loss	(Optional) Sync Loss
signal_loss	(Optional) Signal Loss
prm_seq_pro_err	(Optional) primitive sequence protocol errors

inv_trans_err	(Optional) invaid transmission errors
inv_crc	(Optional) Invalid crc
delim_err	(Optional) Delimiter Errors
addr_iden_err	(Optional) Address Identification errors
link_reset_rcvd	(Optional) link reset received
link_reset_trans	(Optional) link reset transmitted
off_seq_err_rcvd	(Optional) Offine sequence error received
off_seq_err_trans	(Optional) Offline sequence Error transmitted
frames_rcvd_short	(Optional) frames received that are shorter than the minimum allowable frame length regardless of the CRC/FCS error
frames_rcvd_long	(Optional) frames received that are longer than the minimum allowable frame length regardless of the CRC/FCS error
txwait	(Optional) TXwait
frames_rcvd_greater	(Optional) frames received with length greater than what was agreed to in FLOGI/PLOGI
frame_rcvd_short_header	(Optional) frames received with length less than the minimum indicated by the frame header
link_reset_resp_rcvd	(Optional) Link reset responses received
link_reset_resp_trans	(Optional) Link reset responses transmitted
non_oper_seq_rcvd	(Optional) Non operational sequence received
non_oper_seq_trans	(Optional) Non operational sequence transmitted
frag_frames_rcvd	(Optional) fragmented frames received
frames_eof_abort	(Optional) frames EOF abort
unknown_class_frames_rcvd	(Optional) unknown class frames received
8b10b_disparity_err	(Optional) 8b10b disparity errors
frames_discard	(Optional) frames discard
ex_link_param_sw_fab	(Optional) external link parameters switch fabric
in_link_ser_req_faliures	(Optional) internal link serial request faliures
b2b_credits_transmit	(Optional) B2B credits transmit
b2b_credits_receive	(Optional) B2B credits receive

eisl_frames	(Optional) EISL frames
framing_err	(Optional) Framing Error
f8_lip_seq_err_rcvd	(Optional) f8 LIP sequence error received
f8_lip_seq_err_issued	(Optional) f8 LIP sequence error issued
non_f8_lip_seq_err_rcvd	(Optional) non f8 LIP sequence error received
non_f8_lip_seq_err_issued	(Optional) non f8 LIP sequence error issued
fec_corrected	(Optional) fec corrected blocks
fec_uncorrected	(Optional) fec uncorrected blocks

Command Mode

- /exec

show interface counters details

show interface <ifid_ctrs_det> counters details [__readonly__ TABLE_interface <interface> [<fcoe_in_pkts>] [<fcoe_in_octets>] [<fcoe_out_pkts>] [<fcoe_out_octets>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_ctrs_det	Enter interface type and number in module/slot format
counters	Show interface counters
details	Show interface counters in detail
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
fcoe_in_pkts	(Optional) fcoe in pkts
fcoe_in_octets	(Optional) fcoe in octets
fcoe_out_pkts	(Optional) fcoe out pkts
fcoe_out_octets	(Optional) fcoe out octets

Command Mode

- /exec

show interface counters errors

show interface <ifeth_ctr_errs> counters errors [snmp] [__readonly__ TABLE_interface <interface> [<eth_align_err>] [<eth_fcs_err>] [<eth_xmit_err>] [<eth_rcv_err>] [<eth_undersize>] [<eth_outdisc>] [<eth_single_col>] [<eth_multi_col>] [<eth_late_col>] [<eth_excess_col>] [<eth_carri_sen>] [<eth_runts>] [<eth_giants>] [<eth_sqetest_err>] [<eth_deferred_tx>] [<eth_inmactx_err>] [<eth_inmacrx_err>] [<eth_symbol_err>] [<eth_indisc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr_errs	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters
snmp	(Optional) Show SNMP MIB values
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
eth_align_err	(Optional) Align error
eth_fcs_err	(Optional) FCS error
eth_xmit_err	(Optional) Transmit error
eth_rcv_err	(Optional) Receive error
eth_undersize	(Optional) Undersize
eth_outdisc	(Optional) Out discard
eth_single_col	(Optional) Single collision
eth_multi_col	(Optional) Multiple collision
eth_late_col	(Optional) Late collision
eth_excess_col	(Optional) Excess collision
eth_carri_sen	(Optional) Carrier sense
eth_runts	(Optional) Runts
eth_giants	(Optional) Giants
eth_sqetest_err	(Optional) SQETest error

eth_deferred_tx	(Optional) Deferred tx
eth_inmactx_err	(Optional) In MAC tx
eth_inmacrx_err	(Optional) In MAC rx
eth_symbol_err	(Optional) Symbol error
eth_indisc	(Optional) In discards

Command Mode

- /exec

show interface counters errors

show interface counters errors [module <module>] [non-zero] [__readonly__ TABLE_interface <interface> [<eth_align_err>] [<eth_fcs_err>] [<eth_xmit_err>] [<eth_rcv_err>] [<eth_undersize>] [<eth_outdisc>] [<eth_single_col>] [<eth_multi_col>] [<eth_late_col>] [<eth_excess_col>] [<eth_carri_sen>] [<eth_runts>] [<eth_giants>] [<eth_sqetest_err>] [<eth_deferred_tx>] [<eth_inmactx_err>] [<eth_inmacrx_err>] [<eth_symbol_err>] [<eth_indisc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
errors	Show interface error counters
module	(Optional) Limit display to interfaces on module
module	(Optional) Enter module number
non-zero	(Optional) Display only the non-zero error values
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
eth_align_err	(Optional) Align error
eth_fcs_err	(Optional) FCS error
eth_xmit_err	(Optional) Transmit error
eth_rcv_err	(Optional) Receive error
eth_undersize	(Optional) Undersize
eth_outdisc	(Optional) Out discard
eth_single_col	(Optional) Single collision
eth_multi_col	(Optional) Multiple collision
eth_late_col	(Optional) Late collision
eth_excess_col	(Optional) Excess collision
eth_carri_sen	(Optional) Carrier sense
eth_runts	(Optional) Runts
eth_giants	(Optional) Giants

eth_sqetest_err	(Optional) SQETest error
eth_deferred_tx	(Optional) Deferred tx
eth_inmactx_err	(Optional) In MAC tx
eth_inmacrx_err	(Optional) In MAC rx
eth_symbol_err	(Optional) Symbol error
eth_indisc	(Optional) In discards

Command Mode

- /exec

show interface counters errors

show interface <loop_ctr_errs> counters errors

Syntax Description

show	Show running system information
interface	Show interface status and information
loop_ctr_errs	Enter interface type and number in module/slot format
counters	Show interface counters
errors	Show interface error counters

Command Mode

- /exec

show interface counters snmp

show interface <ifeth_ctr> counters snmp [__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inbytes>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_l3in_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_mcastpkts>] [<eth_l3in_bcastpkts>] } { TABLE_tx_counters <interface_tx> [<eth_outbytes>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_l3out_bytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_mcastpkts>] [<eth_l3out_bcastpkts>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr	Enter interface type and number in module/slot format
counters	Show interface counters
snmp	Show SNMP MIB values
__readonly__	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
interface_rx	(Optional) Interface index rx
eth_inbytes	(Optional) Bytes input
eth_inucast	(Optional) Unicasts input
eth_inmcast	(Optional) Multicasts input
eth_inbcast	(Optional) Broadcasts input
eth_l3in_bytes	(Optional) L3 Rx bytes
eth_l3in_ucastpkts	(Optional) L3 Rx Unicast pkts
eth_l3in_mcastpkts	(Optional) L3 Rx Multicast pkts
eth_l3in_bcastpkts	(Optional) L3 Rx Broadcast pkts
TABLE_tx_counters	(Optional) show Tx counters
interface_tx	(Optional) Interface index tx
eth_outbytes	(Optional) Bytes output
eth_outucast	(Optional) Unicasts output
eth_outmcast	(Optional) Multicasts output
eth_outbcast	(Optional) Broadcasts output
eth_l3out_bytes	(Optional) L3 Tx bytes

eth_l3out_ucastpkts	(Optional) L3 Tx Unicast pkts
eth_l3out_mcastpkts	(Optional) L3 Tx Multicast pkts
eth_l3out_bcastpkts	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters snmp

show interface counters snmp [module <module>] [__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inpkts>] [<eth_inbytes>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_l3in_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_mcastpkts>] [<eth_l3in_bcastpkts>] } { TABLE_tx_counters <interface_tx> [<eth_outpkts>] [<eth_outbytes>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_l3out_bytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_mcastpkts>] [<eth_l3out_bcastpkts>] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
snmp	Show SNMP MIB values
module	(Optional) Limit display to interfaces on module
module	(Optional) Enter module number
__readonly__	(Optional) Read Only
TABLE_rx_counters	(Optional) show Rx counters
interface_rx	(Optional) Interface index
eth_inpkts	(Optional) Packets input
eth_inbytes	(Optional) Bytes input
eth_inucast	(Optional) Unicasts
eth_inmcast	(Optional) Multicasts
eth_inbcast	(Optional) Broadcasts
eth_l3in_bytes	(Optional) L3 Rx bytes
eth_l3in_ucastpkts	(Optional) L3 Rx Unicast pkts
eth_l3in_mcastpkts	(Optional) L3 Rx Multicast pkts
eth_l3in_bcastpkts	(Optional) L3 Rx Broadcast pkts
TABLE_tx_counters	(Optional) show Tx counters
interface_tx	(Optional) Interface index
eth_outpkts	(Optional) Packets output
eth_outbytes	(Optional) Bytes output
eth_outucast	(Optional) Unicasts

eth_outmcast	(Optional) Multicasts
eth_outbcast	(Optional) Broadcasts
eth_l3out_bytes	(Optional) L3 Tx bytes
eth_l3out_ucastpkts	(Optional) L3 Tx Unicast pkts
eth_l3out_mcastpkts	(Optional) L3 Tx Multicast pkts
eth_l3out_bcastpkts	(Optional) L3 Tx Broadcast pkts

Command Mode

- /exec

show interface counters storm-control

show interface counters storm-control [module <module>] [__readonly__ TABLE_interface <interface> <eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action>]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
storm-control	Show interface storm-control counters
module	(Optional) Limit display to interfaces on module
module	(Optional) Enter module number
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
eth_ucast_supp	(Optional) Unicast suppression percentage
eth_mcast_supp	(Optional) Multicast suppression percentage
eth_bcast_supp	(Optional) Broadcast suppression percentage
eth_total_supp	(Optional) Total discarded due to suppression
supp_action	(Optional) Action to be taken on suppression

Command Mode

- /exec

show interface counters storm-control

show interface <ifeth_ctr_stm_ctrl> counters storm-control [__readonly__ TABLE_interface <interface> <eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr_stm_ctrl	Enter interface type and number in module/slot format
counters	Show interface counters
storm-control	Show interface storm-control counters
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
eth_ucast_supp	(Optional) Unicast suppression percentage
eth_mcast_supp	(Optional) Multicast suppression percentage
eth_bcast_supp	(Optional) Broadcast suppression percentage
eth_total_supp	(Optional) Total discarded due to suppression
supp_action	(Optional) Action to be taken on suppression

Command Mode

- /exec

show interface counters table

show interface counters table [__readonly__ { TABLE_counters <interface> <desc> <eth_load_intvl> <eth_inrate_mbps> <eth_inrate_pcnt> <eth_outrate_mbps> <eth_outrate_pcnt> }]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
__readonly__	(Optional) Read Only
TABLE_counters	(Optional) Counters table
interface	(Optional) Interface
desc	(Optional) Interface description
eth_load_intvl	(Optional) interval 1 timer value in sec
eth_inrate_mbps	(Optional) interval 1 input rate mbps
eth_inrate_pcnt	(Optional) interval 1 input rate in %
eth_outrate_mbps	(Optional) interval 1 output rate mbps
eth_outrate_pcnt	(Optional) interval 1 output rate in %

Command Mode

- /exec

show interface counters table verbose

show interface counters table verbose [__readonly__ { TABLE_Err_verbose <interface> <overrun> <underrun> <Etype_Drop> <Proto_Drop> <If_Down_Drop> <RX_discard> <TX_discard> <CRC> <RX_Err> <TX_Err> }]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
verbose	show errors counts after counters
__readonly__	(Optional) Read Only
TABLE_Err_verbose	(Optional) verbose errors table
interface	(Optional) Interface
overrun	(Optional) overrun
underrun	(Optional) underruns
Etype_Drop	(Optional) bad ether type drop
Proto_Drop	(Optional) bad protocol drops
If_Down_Drop	(Optional) Input if-down drops
RX_discard	(Optional) discards
TX_discard	(Optional) output discard
CRC	(Optional) CRC
RX_Err	(Optional) input errors
TX_Err	(Optional) output errors

Command Mode

- /exec

show interface counters trunk

show interface <ifeth_ctr_trnk> counters trunk [__readonly__ TABLE_interface <interface> [<eth_trunk_frames_tx>] [<eth_trunk_frames_rx>] [<eth_wrong_encap>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_ctr_trnk	Enter interface type and number in module/slot format
counters	Show interface counters
trunk	Show interface trunk counters
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
eth_trunk_frames_tx	(Optional) Trunk frame transmitted
eth_trunk_frames_rx	(Optional) Trunk frames received
eth_wrong_encap	(Optional) Wrong encapsulation

Command Mode

- /exec

show interface dampening

show interface dampening [__readonly__ { [TABLE_vrf_dampen <vrf> [TABLE_interface_dampen <interface> <Flaps> <Penalty> <Supp> <ReuseTm> <HalfL> <ReuseV> <SuppV> <MaxSTm> <MaxP> <Restart>]] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
dampening	Show interface dampening info
__readonly__	(Optional) Read Only
TABLE_vrf_dampen	(Optional) show interface vrf dampening
vrf	(Optional) Vrf membership
TABLE_interface_dampen	(Optional) show interface dampening
interface	(Optional) Interface index
Flaps	(Optional) Number of times that an interface has flapped
Penalty	(Optional) Accumulated penalty
Supp	(Optional) Indicates if the interface is dampened
ReuseTm	(Optional) Reuse timer
HalfL	(Optional) Half-life counter
ReuseV	(Optional) Reuse threshold timer
SuppV	(Optional) Suppress threshold
MaxSTm	(Optional) Maximum suppress
MaxP	(Optional) Maximum penalty
Restart	(Optional) Restart timer

Command Mode

- /exec

show interface debounce

show interface <ifeth_dbnc> debounce [__readonly__ TABLE_interface <interface> <debounce> <debounce_val>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_dbnc	Enter interface type and number in module/slot format
debounce	Show interface debounce time information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
debounce	(Optional) Debounce time
debounce_val	(Optional) Value(ms)

Command Mode

- /exec

show interface debounce

show interface debounce [__readonly__ TABLE_interface <interface> <debounce> <debounce_val>]

Syntax Description

show	Show running system information
interface	Show interface status and information
debounce	Show interface debounce time information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
debounce	(Optional) Debounce time
debounce_val	(Optional) Value(ms)

Command Mode

- /exec

show interface description

show interface <iftun_desc> description [__readonly__ TABLE_interface <interface> <state> <protocol> <desc>]

Syntax Description

show	Show running system information
interface	Show interface status and information
iftun_desc	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
protocol	(Optional) Protocol
desc	(Optional) Description

Command Mode

- /exec

show interface description

show interface <ifid_desc1> description [__readonly__ TABLE_interface <interface_fc> [<desc_fc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_desc1	Enter interface type and number in module/slot format
description	Show interface description
__readonly__	(Optional) Read Only
interface_fc	(Optional) Interface index
TABLE_interface	(Optional) show interface
desc_fc	(Optional) Description

Command Mode

- /exec

show interface description

show interface <ifid> description [__readonly__ <start> <if_index> <LINE>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
description	Interface specific description
__readonly__	(Optional) Read Only
start	(Optional) Start
if_index	(Optional) Interface
LINE	(Optional) Description

Command Mode

- /exec

show interface description

show interface description [__readonly__ TABLE_interface <interface> [<state>] [<type>] [<speed>] [<protocol>] [<desc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
description	Show interface description
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
type	(Optional) Type
speed	(Optional) Speed
protocol	(Optional) Protocol
desc	(Optional) Description

Command Mode

- /exec

show interface description

show interface <ifid_mgmt_loop> description [__readonly__ TABLE_interface <interface> [<state>] [<protocol>] [<desc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_mgmt_loop	Enter interface type and number in module/slot format
description	Show interface description
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
protocol	(Optional) Protocol
desc	(Optional) Description

Command Mode

- /exec

show interface description

show interface <ifid_eth> description [__readonly__ TABLE_interface <interface> [<state>] [<type>] [<speed>] [<protocol>] [<desc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_eth	Enter interface type and number in module/slot format
description	Show interface description
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
type	(Optional) Type
speed	(Optional) Speed
protocol	(Optional) Protocol
desc	(Optional) Description

Command Mode

- /exec

show interface description

show interface <ifrange> description [__readonly__ TABLE_interface <interface> <state> <protocol> <desc>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
protocol	(Optional) Protocol
desc	(Optional) Description

Command Mode

- /exec

show interface description

show interface <ifrange> description [__readonly__ TABLE_interface <interface> <state> <protocol> <desc>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter tunnel interface number
description	Show interface description
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
state	(Optional) Interface state
protocol	(Optional) Protocol
desc	(Optional) Description

Command Mode

- /exec

show interface detail-counters

show interface detail-counters [__readonly__ [{ TABLE_counters <sfp> <in_frames> <in_bytes> <class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames> <class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_recv> <class_f_frames> <class_f_bytes_recv> <class_f_in_discards> <class_f_errors_recvd> <class_f_out_discards> <class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans> <class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames> <class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd> <broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures> <sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err> <link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short> <frames_rcvd_long> <txwait> <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd> <link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort> <unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [<in_link_ser_req_faliures>] <b2b_credits_transmit> <b2b_credits_receive> <eisl_frames> <framing_err> <f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued> [<fec_corrected>] [<fec_uncorrected>] }] [{ TABLE_interface <interface> [<fcoe_in_pkts>] [<fcoe_in_octets>] [<fcoe_out_pkts>] [<fcoe_out_octets>] }]]

Syntax Description

show	Show running system information
interface	Show interface status and information
detail-counters	Show interface counters in detail
__readonly__	(Optional)
TABLE_counters	(Optional) show interface counters
sfp	(Optional) SFP
in_frames	(Optional) in frames
in_bytes	(Optional) in bytes
class_2_frames	(Optional) Class 2 frames
class_2_in_bytes	(Optional) Class 2 bytes received
class_2_in_discards	(Optional) Class 2 discards received
class_2_in_f_bsy_frames	(Optional) Class 2 F_BSY frames received
class_2_in_f_rgt_frames	(Optional) Class 2 F_RGT frames
class_2_in_port_reject_frames	(Optional) Class 2 port reject frames
class_3_frames	(Optional) Class 3 frames
class_3_bytes_recv	(Optional) Class 3 bytes received

class_f_frames	(Optional) Class f frames
class_f_bytes_recv	(Optional) Class F bytes received
class_f_in_discards	(Optional) Class F in discards
class_f_errors_recvd	(Optional) Class F errors received
class_f_out_discards	(Optional) Class F out discards
class_f_errors_trans	(Optional) Class F errors transmitted
out_frames	(Optional) Out frames
out_bytes	(Optional) Out bytes
class_2_out_frames	(Optional) Class 2 frames transmitted
class_2_bytes_trans	(Optional) Class 2 bytes transmitted
class_3_out_frames	(Optional) Class 3 frames transmitted
class_3_bytes_trans	(Optional) Class 3 bytes transmitted
class_3_out_discards	(Optional) Class 3 out discards
class_f_out_frames	(Optional) Class F out frames
class_f_bytes_trans	(Optional) Class F bytes transmitted
class_f_discards	(Optional) Class F discards
muticast_rcvd	(Optional) Multicast received
multicast_trans	(Optional) Muticast transmitted
broadcast_rcvd	(Optional) Broadcast received
broadcast_trans	(Optional) Broadcast transmitted
unicast_rcvd	(Optional) Unicast received
unicast_trans	(Optional) Unicast transmitted
timeout_discards	(Optional) timeout discards
credit_loss	(Optional) credit loss
link_faliures	(Optional) Link faliures
sync_loss	(Optional) Sync Loss
signal_loss	(Optional) Signal Loss
prm_seq_pro_err	(Optional) primitive sequence protocol errors
inv_trans_err	(Optional) invaid transmission errors

inv_crc	(Optional) Invalid crc
delim_err	(Optional) Delimiter Errors
addr_iden_err	(Optional) Address Identification errors
link_reset_rcvd	(Optional) link reset received
link_reset_trans	(Optional) link reset transmitted
off_seq_err_rcvd	(Optional) Offine sequence error received
off_seq_err_trans	(Optional) Offline sequence Error transmitted
frames_rcvd_short	(Optional) frames received that are shorter than the minimum allowable frame length regardless of the CRC/FCS error
frames_rcvd_long	(Optional) frames received that are longer than the minimum allowable frame length regardless of the CRC/FCS error
txwait	(Optional) TXwait
frames_rcvd_greater	(Optional) frames received with length greater than what was agreed to in FLOGI/PLOGI
frame_rcvd_short_header	(Optional) frames received with length less than the minimum indicated by the frame header
link_reset_resp_rcvd	(Optional) Link reset responses received
link_reset_resp_trans	(Optional) Link reset responses transmitted
non_oper_seq_rcvd	(Optional) Non operational sequence received
non_oper_seq_trans	(Optional) Non operational sequence transmitted
frag_frames_rcvd	(Optional) fragmented frames received
frames_eof_abort	(Optional) frames EOF abort
unknown_class_frames_rcvd	(Optional) unknown class frames received
8b10b_disparity_err	(Optional) 8b10b disparity errors
frames_discard	(Optional) frames discard
ex_link_param_sw_fab	(Optional) external link parameters switch fabric
in_link_ser_req_faliures	(Optional) internal link serial request faliures
b2b_credits_transmit	(Optional) B2B credits transmit
b2b_credits_receive	(Optional) B2B credits receive
eisl_frames	(Optional) EISL frames

framing_err	(Optional) Framing Error
f8_lip_seq_err_rcvd	(Optional) f8 LIP sequence error received
f8_lip_seq_err_issued	(Optional) f8 LIP sequence error issued
non_f8_lip_seq_err_rcvd	(Optional) non f8 LIP sequence error received
non_f8_lip_seq_err_issued	(Optional) non f8 LIP sequence error issued
fec_corrected	(Optional) fec corrected blocks
fec_uncorrected	(Optional) fec uncorrected blocks
TABLE_interface	(Optional) interface
interface	(Optional) interface
fcoe_in_pkts	(Optional) fcoe in pkts
fcoe_in_octets	(Optional) fcoe in octets
fcoe_out_pkts	(Optional) fcoe out pkts
fcoe_out_octets	(Optional) fcoe out octets

Command Mode

- /exec

show interface eltm lif-info

show interface eltm lif-info

Syntax Description

show	Show running system information
eltm	Show ELTM information for interfaces
interface	Interface
lif-info	Show ELTM LIF information for interfaces

Command Mode

- /exec

show interface fcoe

show interface <ifeth_fcoe> fcoe [__readonly__ TABLE_interface <interface> [<state>] [<vfc>] [<vfc_bound>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_fcoe	Enter interface type and number in module/slot format
fcoe	Show interface fcoe information
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
state	(Optional) State of interface
vfc	(Optional) VFC
vfc_bound	(Optional) Binding information

Command Mode

- /exec

show interface fec

show interface fec [__readonly__ TABLE_interface <interface> [<ifindex-hex>] [<admin_port_fec>] [<oper_port_fec>] [<state>] [<speed>] [<type>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
fec	Show interface fec list
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
ifindex-hex	(Optional) If Index in Hex
admin_port_fec	(Optional) Admin port fec state
oper_port_fec	(Optional) Oper port fec state
state	(Optional) Interface state
speed	(Optional) Speed
type	(Optional) Type

Command Mode

- /exec

show interface flowcontrol

show interface flowcontrol [module <module>] [__readonly__ TABLE_interface <interface> <send_admin> <send_oper> <recv_admin> <recv_oper> <rxpause> <txpause>]

Syntax Description

show	Show running system information
interface	Show interface status and information
flowcontrol	Show interface flowcontrol information
module	(Optional) Limit display to interfaces on module
module	(Optional) Enter module number
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
send_admin	(Optional) Send flowcontrol admin
send_oper	(Optional) Send flowcontrol oper
recv_admin	(Optional) Receive flowcontrol admin
recv_oper	(Optional) Receive flowcontrol oper
rxpause	(Optional) RxPause
txpause	(Optional) TxPause

Command Mode

- /exec

show interface flowcontrol

show interface <ifeth_fl_ctrl> flowcontrol [__readonly__ TABLE_interface <interface> <send_admin> <send_oper> <recv_admin> <recv_oper> <rxpause> <txpause>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_fl_ctrl	Enter interface type and number in module/slot format
flowcontrol	Show interface flowcontrol information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
send_admin	(Optional) Send flowcontrol admin
send_oper	(Optional) Send flowcontrol oper
recv_admin	(Optional) Receive flowcontrol admin
recv_oper	(Optional) Receive flowcontrol oper
rxpause	(Optional) RxPause
txpause	(Optional) TxPause

Command Mode

- /exec

show interface hardware-mappings

show interface hardware-mappings [json]

Syntax Description

show	Show running system information
interface	Interface
hardware-mappings	Show hardware port number and unit information for interfaces
json	(Optional) display the output in json format

Command Mode

- /exec

show interface mac-address

show interface <ifid_macaddr> mac-address [__readonly__ TABLE_interface <interface> <address> <bia_address>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_macaddr	Enter interface type and number in module/slot format
mac-address	Show interface MAC address
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
address	(Optional) MAC Address
bia_address	(Optional) Burn-In MAC Address

Command Mode

- /exec

show interface mac-address

show interface mac-address [__readonly__ TABLE_interface <interface> <address> <bia_address>]

Syntax Description

show	Show running system information
interface	Show interface status and information
mac-address	Show interface MAC address
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
address	(Optional) MAC Address
bia_address	(Optional) Burn-In MAC Address

Command Mode

- /exec

show interface priority-flow-control

show interface [<if_list>] priority-flow-control [detail] [module <module>] [__readonly__ [TABLE_pfc_interface <if_name_str> <admin> <oper> [<cos-list>] <rx-stats> <tx-stats> [<rx_ppp_cos_0>] [<rx_ppp_cos_1>] [<rx_ppp_cos_2>] [<rx_ppp_cos_3>] [<rx_ppp_cos_4>] [<rx_ppp_cos_5>] [<rx_ppp_cos_6>] [<rx_ppp_cos_7>] [<tx_ppp_cos_0>] [<tx_ppp_cos_1>] [<tx_ppp_cos_2>] [<tx_ppp_cos_3>] [<tx_ppp_cos_4>] [<tx_ppp_cos_5>] [<tx_ppp_cos_6>] [<tx_ppp_cos_7>]]]

Syntax Description

show	commands to display
interface	Interface for displaying pfc information
if_list	(Optional) List of interfaces
module	(Optional) Slot/module
module	(Optional) Slot/module number
priority-flow-control	Show interface PFC information
detail	(Optional) Show detailed per priority Tx/Rx PFC statistics
__readonly__	(Optional)
if_name_str	(Optional) interface name
TABLE_pfc_interface	(Optional) PFC information of an interface
admin	(Optional) PFC admin
oper	(Optional) PFC oper
cos-list	(Optional) List of class-of-service values

Command Mode

- /exec

show interface private-vlan mapping

show interface [<if>] private-vlan mapping [__readonly__ [<output-filtered>] [{ TABLE_interf_mapp <interface-id> [<secondary-vlan> +] [<pvlan-type>] }]]

Syntax Description

show	Show running system information
interface	Show interface status and information
if	(Optional) Vlan Interface number
private-vlan	Show interface private vlan information
mapping	Show interface private vlan information
__readonly__	(Optional) Read Only
output-filtered	(Optional) the output is filtered for specified ifs
TABLE_interf_mapp	(Optional) Pvlan interface mapping table
interface-id	(Optional) Interface
secondary-vlan	(Optional) Secondary Vlan
pvlan-type	(Optional) PVLAN Type

Command Mode

- /exec

show interface pruning

show interface pruning [__readonly__ <start> { TABLE_interface_pruning1 <if_index1> <rx_join> } { TABLE_interface_pruning2 <if_index2> <cur_join> }]

Syntax Description

show	Show running system information
interface	Show interface status and information
pruning	Show interface trunk VTP pruning information
__readonly__	(Optional) Read Only
start	(Optional) Start
TABLE_interface_pruning1	(Optional) Interface pruning information in table format
if_index1	(Optional) Trunk
rx_join	(Optional) Vlans pruned for lack of request by neighbor
TABLE_interface_pruning2	(Optional) Interface pruning information in table format
if_index2	(Optional) Trunk
cur_join	(Optional) Vlan traffic requested of neighbor

Command Mode

- /exec

show interface snmp-ifindex

show interface snmp-ifindex [__readonly__ TABLE_interface <interface> <snmp-ifindex> [<ifindex-hex>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
snmp-ifindex	Show snmp ifindex list
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
ifindex-hex	(Optional) If Index in Hex
snmp-ifindex	(Optional) If Index in Dec

Command Mode

- /exec

show interface status

show interface <ifeth_status> status [__readonly__ TABLE_interface <interface> [<name>] [<state>] [<vlan>] <duplex> <speed> [<type>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_status	Enter interface type and number in module/slot format
status	Show interface line status
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
state	(Optional) Interface state
vlan	(Optional) Vlan
duplex	(Optional) Duplex
speed	(Optional) Speed
type	(Optional) Type

Command Mode

- /exec

show interface status

show interface <ifid> status [__readonly__ <start> <if_index> <admin-state> <line-proto>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
status	Interface status
__readonly__	(Optional) Read Only
start	(Optional) Start
if_index	(Optional) Interface
admin-state	(Optional)
line-proto	(Optional)

Command Mode

- /exec

show interface status

show interface status [down | inactive | module <module> | up | auto-column] [__readonly__ TABLE_interface <interface> [<name>] [<state>] [<state_san>] [<state_rsn>] [<vlan>] [<duplex>] [<speed>] [<type>] [<admin_mode>] [<vsan>] [<bind_info>] [<bind_type>] [<bind_mac>] [<oper_speed>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
down	(Optional) Show interface down state
inactive	(Optional) Show interface inactive state
auto-column	(Optional) Show interface status auto-column adjusted
module	(Optional) Limit display to interfaces on module
module	(Optional) Enter module number
up	(Optional) Show interface up state
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
state	(Optional) Interface state
state_san	(Optional) SAN Port State
vlan	(Optional) Vlan
vsan	(Optional) Vsan
duplex	(Optional) Duplex
speed	(Optional) Speed
type	(Optional) Type
state_rsn	(Optional) Port State Reason
bind_info	(Optional) bind interface
bind_type	(Optional) bind type
bind_mac	(Optional) bind mac

oper_speed	(Optional) speed
admin_mode	(Optional) admin mode

Command Mode

- /exec

show interface status

show interface <ifid_status> status [__readonly__ TABLE_interface <interface> [<name>] [<state>] [<vlan>] [<duplex>] [<speed>] [<type>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_status	Enter interface type and number in module/slot format
status	Show interface line status
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
state	(Optional) Interface state
vlan	(Optional) Vlan
duplex	(Optional) Duplex
speed	(Optional) Speed
type	(Optional) Type

Command Mode

- /exec

show interface status

show interface <iftun_status> status [err-disabled] [__readonly__ TABLE_interface <interface> <name> <state> <state_rsn> <state_rsn_desc>]

Syntax Description

show	Show running system information
interface	Show interface status and information
iftun_status	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status

show interface <ifrange> status [err-disabled] [__readonly__ TABLE_interface <interface> <name> <state> <state_rsn> <state_rsn_desc>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status

show interface <ifrange> status [err-disabled] [__readonly__ TABLE_interface <interface> <name> <state> <state_rsn> <state_rsn_desc> <admin_state>]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifrange	Enter tunnel interface number
status	Show interface line status
err-disabled	(Optional) Show interface error disabled state
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed
admin_state	(Optional) admin state

Command Mode

- /exec

show interface status err-disabled

show interface status err-disabled [__readonly__ TABLE_interface <interface> [<name>] <state> [<state_rsn>] [<state_rsn_desc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-disabled	Show interface error disabled state
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status err-disabled

show interface <ifeth_errdis> status err-disabled [__readonly__ TABLE_interface <interface> [<name>] <state> [<state_rsn>] [<state_rsn_desc>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
ifeth_errdis	Enter interface type and number in module/slot format
err-disabled	Show interface error disabled state
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
state	(Optional) Interface state
state_rsn	(Optional) Interface state reason
state_rsn_desc	(Optional) Interface state reason detailed

Command Mode

- /exec

show interface status err-vlans

show interface status err-vlans [__readonly__ TABLE_interface <interface> [<name>] { TABLE_vlan <err_vlan> <err_vlan_status> <err_vlan_syserr> }]

Syntax Description

show	Show running system information
interface	Show interface status and information
status	Show interface line status
err-vlans	Show errored vlans
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
TABLE_vlan	(Optional) show vlan
err_vlan	(Optional) Errored vlan
err_vlan_status	(Optional) Errored vlan status
err_vlan_syserr	(Optional) Errored vlan syserr name

Command Mode

- /exec

show interface status err-vlans

show interface <ifeth_errvlans> status err-vlans [__readonly__ TABLE_interface <interface> [<name>] [{ TABLE_vlan [<err_vlan>] [<err_vlan_status>] [<err_vlan_syserr>] }]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_errvlans	Enter interface type and number in module/slot format
status	Show interface line status
err-vlans	Show errored vlans
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
name	(Optional) Name
TABLE_vlan	(Optional) show vlan
err_vlan	(Optional) Errored vlan
err_vlan_status	(Optional) Errored vlan status
err_vlan_syserr	(Optional) Errored vlan syserr name

Command Mode

- /exec

show interface switchport

show interface switchport [__readonly__ TABLE_interface <interface> <switchport> [<switchport_monitor>] [<switchport_isolated>] [<switchport_block_multicast>] [<switchport_block_unicast>] [<mac_learning>] [<oper_mode>] [<access_vlan>] [<access_vlan_name>] [<native_vlan>] [<native_vlan_name>] [<trunk_vlans>] [<fabricpath_topologies>] [<pruning_vlans>] [<voice_vlan>] [<voice_vlan_name>] [<extended_trust>] [<extended_trust_name>] [<admin_pvlan_pri_assoc>] [<admin_pvlan_sec_assoc>] [<admin_pvlan_pri_mapping>] [<admin_pvlan_sec_mapping>] [<admin_pvlan_trunk_native>] [<admin_pvlan_trunk_encap>] [<admin_pvlan_trunk_normal>] [<admin_pvlan_trunk_private>] [<oper_pvlan>] [<autostate_mode>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
switchport	Show interface switchport information
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
switchport	(Optional) Switchport enabled
switchport_monitor	(Optional) Switchport monitor enabled
switchport_isolated	(Optional) Switchport isolated enabled
mac_learning	(Optional) Mac learning enabled/disabled
switchport_block_multicast	(Optional) Switchport monitor enabled
switchport_block_unicast	(Optional) Switchport monitor enabled
oper_mode	(Optional) Operational mode
access_vlan	(Optional) Access mode VLAN
access_vlan_name	(Optional) Access mode VLAN name
native_vlan	(Optional) Trunking native mode VLAN
native_vlan_name	(Optional) Trunking native mode VLAN name
trunk_vlans	(Optional) Trunking VLANs Allowed
fabricpath_topologies	(Optional) FabricPath Topologies Allowed
pruning_vlans	(Optional) Pruning eligible VLANs
voice_vlan	(Optional) Voice VLAN

voice_vlan_name	(Optional) Voice VLAN name
extended_trust	(Optional) Extended Trust
extended_trust_name	(Optional) Extended Trust name
admin_pvlan_pri_assoc	(Optional) Administrative private-vlan primary host-association
admin_pvlan_sec_assoc	(Optional) Administrative private-vlan secondary host-association
admin_pvlan_pri_mapping	(Optional) Administrative private-vlan primary mapping
admin_pvlan_sec_mapping	(Optional) Administrative private-vlan secondary mapping
admin_pvlan_trunk_native	(Optional) Administrative private-vlan trunk native VLAN
admin_pvlan_trunk_encap	(Optional) Administrative private-vlan trunk encapsulation
admin_pvlan_trunk_normal	(Optional) Administrative private-vlan trunk normal VLANs
admin_pvlan_trunk_private	(Optional) Administrative private-vlan trunk private VLANs
oper_pvlan	(Optional) Operational private-vlan
autostate_mode	(Optional) SVI Autostate Exclude Info

Command Mode

- /exec

show interface switchport

show interface <ifeth_swtch> switchport [__readonly__ TABLE_interface <interface> <switchport> [<switchport_monitor>] [<switchport_isolated>] [<switchport_block_multicast>] [<switchport_block_unicast>] [<oper_mode>] [<access_vlan>] [<access_vlan_name>] [<native_vlan>] [<native_vlan_name>] [<trunk_vlans>] [<fabricpath_topologies>] [<pruning_vlans>] [<voice_vlan>] [<voice_vlan_name>] [<extended_trust>] [<extended_trust_name>] [<admin_pvlan_pri_assoc>] [<admin_pvlan_sec_assoc>] [<admin_pvlan_pri_mapping>] [<admin_pvlan_sec_mapping>] [<admin_pvlan_trunk_native>] [<admin_pvlan_trunk_encap>] [<admin_pvlan_trunk_normal>] [<admin_pvlan_trunk_private>] [<oper_pvlan>] [<autostate_mode>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_swtch	Enter interface type and number in module/slot format
switchport	Show interface switchport information
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
switchport	(Optional) Switchport enabled
switchport_monitor	(Optional) Switchport monitor enabled
switchport_isolated	(Optional) Switchport isolated enabled
switchport_block_multicast	(Optional) Switchport monitor enabled
switchport_block_unicast	(Optional) Switchport monitor enabled
oper_mode	(Optional) Operational mode
access_vlan	(Optional) Access mode VLAN
access_vlan_name	(Optional) Access mode VLAN name
native_vlan	(Optional) Trunking native mode VLAN
native_vlan_name	(Optional) Trunking native mode VLAN name
trunk_vlans	(Optional) Trunking VLANs Allowed
fabricpath_topologies	(Optional) FabricPath Topologies Allowed
pruning_vlans	(Optional) Pruning eligible VLANs
voice_vlan	(Optional) Voice VLAN

voice_vlan_name	(Optional) Voice VLAN name
extended_trust	(Optional) Extended Trust
extended_trust_name	(Optional) Extended Trust name
admin_pvlan_pri_assoc	(Optional) Administrative private-vlan primary host-association
admin_pvlan_sec_assoc	(Optional) Administrative private-vlan secondary host-association
admin_pvlan_pri_mapping	(Optional) Administrative private-vlan primary mapping
admin_pvlan_sec_mapping	(Optional) Administrative private-vlan secondary mapping
admin_pvlan_trunk_native	(Optional) Administrative private-vlan trunk native VLAN
admin_pvlan_trunk_encap	(Optional) Administrative private-vlan trunk encapsulation
admin_pvlan_trunk_normal	(Optional) Administrative private-vlan trunk normal VLANs
admin_pvlan_trunk_private	(Optional) Administrative private-vlan trunk private VLANs
oper_pvlan	(Optional) Operational private-vlan
autostate_mode	(Optional) SVI Autostate Exclude Info

Command Mode

- /exec

show interface switchport backup

show interface switchport backup [detail] [__readonly__ { TABLE_pair <ai_name> <bi_name> <ai_state> <bi_state> <ai_prefer> <bi_prefer> <preempt_mode> <delay_value> <delay_default> <delay_scheduled> <mcast_fast> <ai_bw> <ai_bw_name> <bi_bw> <bi_bw_name> <mmu_primary> }]

Syntax Description

show	Show running system information
interface	Show interface status and information
switchport	Show interface switchport information
backup	Show interface backup
detail	(Optional) Backup interface info in detail
__readonly__	(Optional) Read Only
TABLE_pair	(Optional) Show interface backup
ai_name	(Optional) Active Interface name
bi_name	(Optional) Backup Interface name
ai_state	(Optional) Active Interface state
bi_state	(Optional) Backup Interface state
ai_prefer	(Optional) Active Interface prefer VLANs
bi_prefer	(Optional) Backup Interface prefer VLANs
preempt_mode	(Optional) Preempt mode
delay_value	(Optional) Preempt delay
delay_default	(Optional) Preempt delay value is default
delay_scheduled	(Optional) Preemption has been scheduled
mcast_fast	(Optional) Multicast Fast-Convergence
ai_bw	(Optional) Active Interface bandwidth
ai_bw_name	(Optional) Active Interface name for bandwidth
bi_bw	(Optional) Backup Interface bandwidth
bi_bw_name	(Optional) Backup Interface name for bandwidth
mmu_primary	(Optional) MAC Move Update primary VLAN

Command Mode

- /exec

show interface transceiver

show interface transceiver [calibrations | details] [__readonly__ TABLE_interface <interface> [<sfp>] [<qsfp_or_cfp>] [<type>] [<name>] [<partnum>] [<rev>] [<serialnum>] [<nom_bitrate>] [<len_9>] [<len_50>] [<len_625>] [<len_cu>] [<len_50_OM3>] [<txcvr_type>] [<connector_type>] [<bit_encoding>] [<protocol_type>] [<10gbe_code>] [<fiber_type_byte0>] [<fiber_type_byte1>] [<tx_type>] [<tx_len>] [<tx_medium>] [<tx_speeds>] [<tx_range>] [<cable_type>] [<ciscoid>] [<ciscoid_1>] [<cisco_part_number>] [<cisco_product_id>] [<cisco_vendor_id>] [<cisco_ext_id>] [<info_not_available>] [<temp_slope>] [<temp_offset>] [<volt_slope>] [<volt_offset>] [<curr_slope>] [<curr_offset>] [<tx_pwr_slope>] [<tx_pwr_offset>] [<rx_pwr_4>] [<rx_pwr_3>] [<rx_pwr_2>] [<rx_pwr_1>] [<rx_pwr_0>] [TABLE_lane [<lane_number>] [<temperature>] [<temp_flag>] [<temp_alrm_hi>] [<temp_alrm_lo>] [<temp_warn_hi>] [<temp_warn_lo>] [<voltage>] [<volt_flag>] [<volt_alrm_hi>] [<volt_alrm_lo>] [<volt_warn_hi>] [<volt_warn_lo>] [<current>] [<current_flag>] [<current_alrm_hi>] [<current_alrm_lo>] [<current_warn_hi>] [<current_warn_lo>] [<tx_pwr>] [<tx_pwr_flag>] [<tx_pwr_alrm_hi>] [<tx_pwr_alrm_lo>] [<tx_pwr_warn_hi>] [<tx_pwr_warn_lo>] [<rx_pwr>] [<rx_pwr_flag>] [<rx_pwr_alrm_hi>] [<rx_pwr_alrm_lo>] [<rx_pwr_warn_hi>] [<rx_pwr_warn_lo>] [<xmit_faults>] [<snr>] [<snr_flag>] [<snr_alrm_hi>] [<snr_alrm_lo>] [<snr_warn_hi>] [<snr_warn_lo>] [<isi>] [<isi_flag>] [<isi_alrm_hi>] [<isi_alrm_lo>] [<isi_warn_hi>] [<isi_warn_lo>] [<pam>] [<pam_flag>] [<pam_alrm_hi>] [<pam_alrm_lo>] [<pam_warn_hi>] [<pam_warn_lo>] [<pre_fec_ber>] [<pre_fec_ber_flag>] [<pre_fec_ber_alrm_hi>] [<pre_fec_ber_alrm_lo>] [<pre_fec_ber_warn_hi>] [<pre_fec_ber_warn_lo>] [<uncorrect_ber>] [<uncorrect_ber_flag>] [<uncorrect_ber_alrm_hi>] [<uncorrect_ber_alrm_lo>] [<uncorrect_ber_warn_hi>] [<uncorrect_ber_warn_lo>] [<tec_current>] [<tec_current_flag>] [<tec_current_alrm_hi>] [<tec_current_alrm_lo>] [<tec_current_warn_hi>] [<tec_current_warn_lo>] [<laser_freq>] [<laser_freq_flag>] [<laser_freq_alrm_hi>] [<laser_freq_alrm_lo>] [<laser_freq_warn_hi>] [<laser_freq_warn_lo>] [<laser_temp>] [<laser_temp_flag>] [<laser_temp_alrm_hi>] [<laser_temp_alrm_lo>] [<laser_temp_warn_hi>] [<laser_temp_warn_lo>] [<pre_fec_ber_acc>] [<pre_fec_ber_acc_flag>] [<pre_fec_ber_acc_alrm_hi>] [<pre_fec_ber_acc_alrm_lo>] [<pre_fec_ber_acc_warn_hi>] [<pre_fec_ber_acc_warn_lo>] [<pre_fec_ber_min>] [<pre_fec_ber_min_flag>] [<pre_fec_ber_min_alrm_hi>] [<pre_fec_ber_min_alrm_lo>] [<pre_fec_ber_min_warn_hi>] [<pre_fec_ber_min_warn_lo>] [<pre_fec_ber_max>] [<pre_fec_ber_max_flag>] [<pre_fec_ber_max_alrm_hi>] [<pre_fec_ber_max_alrm_lo>] [<pre_fec_ber_max_warn_hi>] [<pre_fec_ber_max_warn_lo>] [<pre_fec_ber_cur>] [<pre_fec_ber_cur_flag>] [<pre_fec_ber_cur_alrm_hi>] [<pre_fec_ber_cur_alrm_lo>] [<pre_fec_ber_cur_warn_hi>] [<pre_fec_ber_cur_warn_lo>] [<uncorrect_ber_acc>] [<uncorrect_ber_acc_flag>] [<uncorrect_ber_acc_alrm_hi>] [<uncorrect_ber_acc_alrm_lo>] [<uncorrect_ber_acc_warn_hi>] [<uncorrect_ber_acc_warn_lo>] [<uncorrect_ber_min>] [<uncorrect_ber_min_flag>] [<uncorrect_ber_min_alrm_hi>] [<uncorrect_ber_min_alrm_lo>] [<uncorrect_ber_min_warn_hi>] [<uncorrect_ber_min_warn_lo>] [<uncorrect_ber_max>] [<uncorrect_ber_max_flag>] [<uncorrect_ber_max_alrm_hi>] [<uncorrect_ber_max_alrm_lo>] [<uncorrect_ber_max_warn_hi>] [<uncorrect_ber_max_warn_lo>] [<uncorrect_ber_cur>] [<uncorrect_ber_cur_flag>] [<uncorrect_ber_cur_alrm_hi>] [<uncorrect_ber_cur_alrm_lo>] [<uncorrect_ber_cur_warn_hi>] [<uncorrect_ber_cur_warn_lo>]]]

Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information

calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
sfp	(Optional) sfp
qsfp_or_cfp	(Optional) qsfp_or_cfp
type	(Optional) type
name	(Optional) Name
partnum	(Optional) part number
rev	(Optional) revision
serialnum	(Optional) serial number
nom_bitrate	(Optional) Nominal bit rate in MBits/sec
len_9	(Optional) Link length supported for 9/125um fiber
len_50	(Optional) Link length supported for 50/125um fiber
len_625	(Optional) Link length supported for 62.5/125um fiber
len_cu	(Optional) Link length supported for copper
len_50_OM3	(Optional) Link length supported for 50/125um fiber in m
txcvr_type	(Optional)
connector_type	(Optional)
bit_encoding	(Optional)
protocol_type	(Optional)
10gbe_code	(Optional)
fiber_type_byte0	(Optional)
fiber_type_byte1	(Optional)
tx_type	(Optional) FC Transmitter type
tx_len	(Optional) FC Transmitter length
tx_medium	(Optional) FC Transmitter medium
tx_speeds	(Optional) Transmission speeds

tx_range	(Optional) Transmission range
cable_type	(Optional)
ciscoid	(Optional) Cisco extended id
ciscoid_1	(Optional) Cisco extended id number
cisco_part_number	(Optional) Cisco part number
cisco_product_id	(Optional) Cisco product identifier
cisco_vendor_id	(Optional) Cisco vendor identifier
cisco_ext_id	(Optional) Cisco extended ID
info_not_available	(Optional) No info available for this transceiver
temp_slope	(Optional) Temperature slope
temp_offset	(Optional) Temperature offset
volt_slope	(Optional) Voltage slope
volt_offset	(Optional) Voltage offset
curr_slope	(Optional) Current slope
curr_offset	(Optional) Current offset
tx_pwr_slope	(Optional) Tx power slope
tx_pwr_offset	(Optional) Tx power offset
rx_pwr_4	(Optional) Rx power 4
rx_pwr_3	(Optional) Rx power 3
rx_pwr_2	(Optional) Rx power 2
rx_pwr_1	(Optional) Rx power 1
rx_pwr_0	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
lane_number	(Optional) Lane number
temperature	(Optional) Temperature
temp_flag	(Optional) Temperature Flag
temp_alrm_hi	(Optional) Temperature Alarm High
temp_alrm_lo	(Optional) Temperature Alarm Low
temp_warn_hi	(Optional) Temperature Warning High

temp_warn_lo	(Optional) Temperature Warning Low
voltage	(Optional) Voltage
volt_flag	(Optional) Voltage Flag
volt_alrm_hi	(Optional) Voltage Alarm High
volt_alrm_lo	(Optional) Voltage Alarm Low
volt_warn_hi	(Optional) Voltage Warning High
volt_warn_lo	(Optional) Voltage Warning Low
current	(Optional) Current
current_flag	(Optional) Current Flag
current_alrm_hi	(Optional) Current Alarm High
current_alrm_lo	(Optional) Current Alarm Low
current_warn_hi	(Optional) Current Warning High
current_warn_lo	(Optional) Current Warning Low
tx_pwr	(Optional) Tx Power
tx_pwr_flag	(Optional) Tx Power Flag
tx_pwr_alrm_hi	(Optional) Tx Power Alarm High
tx_pwr_alrm_lo	(Optional) Tx Power Alarm Low
tx_pwr_warn_hi	(Optional) Tx Power Warning High
tx_pwr_warn_lo	(Optional) Tx Power Warning Low
rx_pwr	(Optional) Rx Power
rx_pwr_flag	(Optional) Rx Power Flag
rx_pwr_alrm_hi	(Optional) Rx Power Alarm High
rx_pwr_alrm_lo	(Optional) Rx Power Alarm Low
rx_pwr_warn_hi	(Optional) Rx Power Warning High
rx_pwr_warn_lo	(Optional) Rx Power Warning Low
xmit_faults	(Optional) Transmit Fault Count
snr	(Optional) RX Signal-to-Noise Ratio (SNR)
snr_flag	(Optional) SNR Flag
snr_alrm_hi	(Optional) SNR Alarm High

snr_alrm_lo	(Optional) SNR Alarm Low
snr_warn_hi	(Optional) SNR Warning High
snr_warn_lo	(Optional) SNR Warning Low
isi	(Optional) Residual-Dispersion(ISI)
isi_flag	(Optional) ISI Flag
isi_alrm_hi	(Optional) ISI alarm high
isi_alrm_lo	(Optional) ISI alarm low
isi_warn_hi	(Optional) ISI warning high
isi_warn_lo	(Optional) ISI warning low
pam	(Optional) PAM Transition
pam_flag	(Optional) PAM Flag
pam_alrm_hi	(Optional) PAM alarm high
pam_alrm_lo	(Optional) PAM alarm low
pam_warn_hi	(Optional) PAM warning high
pam_warn_lo	(Optional) PAM warning low
pre_fec_ber	(Optional) Pre-FEC BER
pre_fec_ber_flag	(Optional) Pre-FEC BER flag
pre_fec_ber_alrm_hi	(Optional) Pre-FEC BER alarm high
pre_fec_ber_alrm_lo	(Optional) Pre-FEC BER alarm low
pre_fec_ber_warn_hi	(Optional) Pre-FEC BER warning high
pre_fec_ber_warn_lo	(Optional) Pre-FEC BER warning low
uncorrect_ber	(Optional) Uncorrected BER
uncorrect_ber_flag	(Optional) Uncorrected BER flag
uncorrect_ber_alrm_hi	(Optional) Uncorrected BER alarm high
uncorrect_ber_alrm_lo	(Optional) Uncorrected BER alarm low
uncorrect_ber_warn_hi	(Optional) Uncorrected BER warning high
uncorrect_ber_warn_lo	(Optional) Uncorrected BER warning low
tec_current	(Optional) TEC Current
tec_current_flag	(Optional) TEC Current flag

tec_current_alrm_hi	(Optional) TEC Current Alarm High
tec_current_alrm_lo	(Optional) TEC Current Alarm Low
tec_current_warn_hi	(Optional) TEC Current Warning High
tec_current_warn_lo	(Optional) TEC Current Warning Low
laser_freq	(Optional) Laser Frequency
laser_freq_flag	(Optional) Laser Frequency flag
laser_freq_alrm_hi	(Optional) Laser Frequency Alarm High
laser_freq_alrm_lo	(Optional) Laser Frequency Alarm Low
laser_freq_warn_hi	(Optional) Laser Frequency Warning High
laser_freq_warn_lo	(Optional) Laser Frequency Warning Low
laser_temp	(Optional) Laser Temperature
laser_temp_flag	(Optional) Laser Temperature flag
laser_temp_alrm_hi	(Optional) Laser Temperature Alarm High
laser_temp_alrm_lo	(Optional) Laser Temperature Alarm Low
laser_temp_warn_hi	(Optional) Laser Temperature Warning High
laser_temp_warn_lo	(Optional) Laser Temperature Warning Low
pre_fec_ber_acc	(Optional) Pre-FEC BER Acc
pre_fec_ber_acc_flag	(Optional) Pre-FEC BER Acc flag
pre_fec_ber_acc_alrm_hi	(Optional) Pre-FEC BER Acc alarm high
pre_fec_ber_acc_alrm_lo	(Optional) Pre-FEC BER Acc alarm low
pre_fec_ber_acc_warn_hi	(Optional) Pre-FEC BER Acc warning high
pre_fec_ber_acc_warn_lo	(Optional) Pre-FEC BER Acc warning low
pre_fec_ber_min	(Optional) Pre-FEC BER Min
pre_fec_ber_min_flag	(Optional) Pre-FEC BER Min flag
pre_fec_ber_min_alrm_hi	(Optional) Pre-FEC BER Min alarm high
pre_fec_ber_min_alrm_lo	(Optional) Pre-FEC BER Min alarm low
pre_fec_ber_min_warn_hi	(Optional) Pre-FEC BER Min warning high
pre_fec_ber_min_warn_lo	(Optional) Pre-FEC BER Min warning low
pre_fec_ber_max	(Optional) Pre-FEC BER Max

pre_fec_ber_max_flag	(Optional) Pre-FEC BER Max flag
pre_fec_ber_max_alrm_hi	(Optional) Pre-FEC BER Max alarm high
pre_fec_ber_max_alrm_lo	(Optional) Pre-FEC BER Max alarm low
pre_fec_ber_max_warn_hi	(Optional) Pre-FEC BER Max warning high
pre_fec_ber_max_warn_lo	(Optional) Pre-FEC BER Max warning low
pre_fec_ber_cur	(Optional) Pre-FEC BER Cur
pre_fec_ber_cur_flag	(Optional) Pre-FEC BER Cur flag
pre_fec_ber_cur_alrm_hi	(Optional) Pre-FEC BER Cur alarm high
pre_fec_ber_cur_alrm_lo	(Optional) Pre-FEC BER Cur alarm low
pre_fec_ber_cur_warn_hi	(Optional) Pre-FEC BER Cur warning high
pre_fec_ber_cur_warn_lo	(Optional) Pre-FEC BER Cur warning low
uncorrect_ber_acc	(Optional) Uncorrected BER Acc
uncorrect_ber_acc_flag	(Optional) Uncorrected BER Acc flag
uncorrect_ber_acc_alrm_hi	(Optional) Uncorrected BER Acc alarm high
uncorrect_ber_acc_alrm_lo	(Optional) Uncorrected BER Acc alarm low
uncorrect_ber_acc_warn_hi	(Optional) Uncorrected BER Acc warning high
uncorrect_ber_acc_warn_lo	(Optional) Uncorrected BER Acc warning low
uncorrect_ber_min	(Optional) Uncorrected BER Min
uncorrect_ber_min_flag	(Optional) Uncorrected BER Min flag
uncorrect_ber_min_alrm_hi	(Optional) Uncorrected BER Min alarm high
uncorrect_ber_min_alrm_lo	(Optional) Uncorrected BER Min alarm low
uncorrect_ber_min_warn_hi	(Optional) Uncorrected BER Min warning high
uncorrect_ber_min_warn_lo	(Optional) Uncorrected BER Min warning low
uncorrect_ber_max	(Optional) Uncorrected BER Max
uncorrect_ber_max_flag	(Optional) Uncorrected BER Max flag
uncorrect_ber_max_alrm_hi	(Optional) Uncorrected BER Max alarm high
uncorrect_ber_max_alrm_lo	(Optional) Uncorrected BER Max alarm low
uncorrect_ber_max_warn_hi	(Optional) Uncorrected BER Max warning high
uncorrect_ber_max_warn_lo	(Optional) Uncorrected BER Max warning low

uncorrect_ber_cur	(Optional) Uncorrected BER Cur
uncorrect_ber_cur_flag	(Optional) Uncorrected BER Cur flag
uncorrect_ber_cur_alrm_hi	(Optional) Uncorrected BER Cur alarm high
uncorrect_ber_cur_alrm_lo	(Optional) Uncorrected BER Cur alarm low
uncorrect_ber_cur_warn_hi	(Optional) Uncorrected BER Cur warning high
uncorrect_ber_cur_warn_lo	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver

show interface <ifid_trns_fc> transceiver [calibrations | details] [__readonly__ TABLE_interface <interface_fc> [<sfp_fc>] [<type_fc>] [<name_fc>] [<partnum_fc>] [<rev_fc>] [<serialnum_fc>] [<cisco_partnum_fc>] [<cisco_pid_fc>] [<tx_type_fc>] [<tx_len_fc>] [<tx_medium_fc>] [<tx_speeds_fc>] [<nom_bitrate_fc>] [<len_9_fc>] [<len_50_fc>] [<len_625_fc>] [<len_50_OM3_fc>] [<cisco_ext_id_fc>] [<txcvr_type_fc>] [<connector_type_fc>] [<bit_encoding_fc>] [<protocol_type_fc>] [<10gbe_code_fc>] [<fiber_type_byte0_fc>] [<fiber_type_byte1_fc>] [<tx_range_fc>] [<temp_slope_fc>] [<temp_offset_fc>] [<volt_slope_fc>] [<volt_offset_fc>] [<curr_slope_fc>] [<curr_offset_fc>] [<tx_pwr_slope_fc>] [<tx_pwr_offset_fc>] [<rx_pwr_4_fc>] [<rx_pwr_3_fc>] [<rx_pwr_2_fc>] [<rx_pwr_1_fc>] [<rx_pwr_0_fc>] [<temperature_fc>] [<temp_flag_fc>] [<temp_alrm_hi_fc>] [<temp_alrm_lo_fc>] [<temp_warn_hi_fc>] [<temp_warn_lo_fc>] [<voltage_fc>] [<volt_flag_fc>] [<volt_alrm_hi_fc>] [<volt_alrm_lo_fc>] [<volt_warn_hi_fc>] [<volt_warn_lo_fc>] [<current_fc>] [<current_flag_fc>] [<current_alrm_hi_fc>] [<current_alrm_lo_fc>] [<current_warn_hi_fc>] [<current_warn_lo_fc>] [<tx_pwr_fc>] [<tx_pwr_flag_fc>] [<tx_pwr_alrm_hi_fc>] [<tx_pwr_alrm_lo_fc>] [<tx_pwr_warn_hi_fc>] [<tx_pwr_warn_lo_fc>] [<rx_pwr_fc>] [<rx_pwr_flag_fc>] [<rx_pwr_alrm_hi_fc>] [<rx_pwr_alrm_lo_fc>] [<rx_pwr_warn_hi_fc>] [<rx_pwr_warn_lo_fc>] [<xmit_faults_fc>] [<sfp_calibration>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_trns_fc	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
__readonly__	(Optional) Read Only
interface_fc	(Optional) Interface index
TABLE_interface	(Optional) show interface
sfp_fc	(Optional) sfp
type_fc	(Optional) type
name_fc	(Optional) Name
partnum_fc	(Optional) part number
rev_fc	(Optional) revision
serialnum_fc	(Optional) serial number
cisco_partnum_fc	(Optional) Cisco part number
cisco_pid_fc	(Optional) Cisco PID

tx_type_fc	(Optional) FC Transmitter type
tx_len_fc	(Optional) FC Transmitter length
tx_medium_fc	(Optional) FC Transmitter medium
tx_speeds_fc	(Optional) Transmission speeds
nom_bitrate_fc	(Optional) Nominal bit rate in MBits/sec
len_9_fc	(Optional) Link length supported for 9/125um fiber
len_50_fc	(Optional) Link length supported for 50/125um fiber
len_625_fc	(Optional) Link length supported for 62.5/125um fiber
len_50_OM3_fc	(Optional) Link length supported for 50/125um fiber in m
cisco_ext_id_fc	(Optional) Cisco extended ID
txcvr_type_fc	(Optional) Transceiver type
connector_type_fc	(Optional) Connector type
bit_encoding_fc	(Optional) Bit encoding
protocol_type_fc	(Optional) Protocol type
10gbe_code_fc	(Optional) 10GbE code byte
fiber_type_byte0_fc	(Optional) Fiber Type Byte 0
fiber_type_byte1_fc	(Optional) Fiber Type Byte 1
tx_range_fc	(Optional) Transmission Range
temp_slope_fc	(Optional) Temperature slope
temp_offset_fc	(Optional) Temperature offset
volt_slope_fc	(Optional) Voltage slope
volt_offset_fc	(Optional) Voltage offset
curr_slope_fc	(Optional) Current slope
curr_offset_fc	(Optional) Current offset
tx_pwr_slope_fc	(Optional) Tx power slope
tx_pwr_offset_fc	(Optional) Tx power offset
rx_pwr_4_fc	(Optional) Rx power 4
rx_pwr_3_fc	(Optional) Rx power 3
rx_pwr_2_fc	(Optional) Rx power 2

rx_pwr_1_fc	(Optional) Rx power 1
rx_pwr_0_fc	(Optional) Rx power 0
temperature_fc	(Optional) Temperature
temp_flag_fc	(Optional) Temperature Flag
temp_alrm_hi_fc	(Optional) Temperature Alarm High
temp_alrm_lo_fc	(Optional) Temperature Alarm Low
temp_warn_hi_fc	(Optional) Temperature Warning High
temp_warn_lo_fc	(Optional) Temperature Warning Low
voltage_fc	(Optional) Voltage
volt_flag_fc	(Optional) Voltage Flag
volt_alrm_hi_fc	(Optional) Voltage Alarm High
volt_alrm_lo_fc	(Optional) Voltage Alarm Low
volt_warn_hi_fc	(Optional) Voltage Warning High
volt_warn_lo_fc	(Optional) Voltage Warning Low
current_fc	(Optional) Current
current_flag_fc	(Optional) Current Flag
current_alrm_hi_fc	(Optional) Current Alarm High
current_alrm_lo_fc	(Optional) Current Alarm Low
current_warn_hi_fc	(Optional) Current Warning High
current_warn_lo_fc	(Optional) Current Warning Low
tx_pwr_fc	(Optional) Tx Power
tx_pwr_flag_fc	(Optional) Tx Power Flag
tx_pwr_alrm_hi_fc	(Optional) Tx Power Alarm High
tx_pwr_alrm_lo_fc	(Optional) Tx Power Alarm Low
tx_pwr_warn_hi_fc	(Optional) Tx Power Warning High
tx_pwr_warn_lo_fc	(Optional) Tx Power Warning Low
rx_pwr_fc	(Optional) Rx Power
rx_pwr_flag_fc	(Optional) Rx Power Flag
rx_pwr_alrm_hi_fc	(Optional) Rx Power Alarm High

rx_pwr_alrm_lo_fc	(Optional) Rx Power Alarm Low
rx_pwr_warn_hi_fc	(Optional) Rx Power Warning High
rx_pwr_warn_lo_fc	(Optional) Rx Power Warning Low
xmit_faults_fc	(Optional) Transmit Fault Count
sfp_calibration	(Optional) Checking whether sfp is internally calibrated

Command Mode

- /exec

show interface transceiver

show interface <ifid_transceiver> transceiver [calibrations | details | sprom] [__readonly__ TABLE_interface <interface> [<sfp>] [<qsfp_or_cfp>] [<type>] [<name>] [<partnum>] [<rev>] [<serialnum>] [<nom_bitrate>] [<len_9>] [<len_9_2>] [<len_50>] [<len_625>] [<len_cu>] [<len_50_OM3>] [<txcvr_type>] [<connector_type>] [<bit_encoding>] [<protocol_type>] [<10gbe_code>] [<fiber_type_byte0>] [<fiber_type_byte1>] [<tx_range>] [<cable_type>] [<ciscoid>] [<ciscoid_1>] [<cisco_part_number>] [<cisco_product_id>] [<cisco_vendor_id>] [<firmware_version>] [<identifier>] [<ext_identifier>] [<connector>] [<infiniband_compliance_code>] [<sonet_compliance_code>] [<gigabit_ethernet_compliance_code>] [<fibre_chan_link_length>] [<fibre_chan_trans_technology>] [<fibre_chan_trans_tech_reserved>] [<fibre_chan_transmission_media>] [<fibre_chan_speed>] [<encoding>] [<br_nominal>] [<reserved1>] [<length_smf>] [<length_om5>] [<length_om4>] [<length_om3>] [<length_om2>] [<length_om1>] [<length_9u_1>] [<length_9u_2>] [<length_50u>] [<length_60u>] [<length_copper>] [<reserved3>] [<wave_length>] [<wave_len_tolerance>] [<vendor_oui>] [<vendor_part_no>] [<vendor_revision>] [<reserved4>] [<check_code_id>] [<options>] [<br_max>] [<br_min>] [<vendor_serial_no>] [<data_code>] [<diagnostic_monitoring_type>] [<enhanced_options>] [<sff8472compliance>] [<check_code_ext>] [<vendor_specific_data_id_data>] [<date_code>] [<clei_code>] [<power_class>] [<max_power>] [<cable_attenuation>] [<near_end_lanes>] [<far_end_lanes>] [<media_interface>] [<adv_code>] [<host_elt_intf_code>] [<med_intf_adv_code>] [<host_lane_count>] [<med_lane_count>] [<max_mod_temp>] [<min_mod_temp>] [<min_op_volt>] [<info_not_available>] [<temp_slope>] [<temp_offset>] [<volt_slope>] [<volt_offset>] [<curr_slope>] [<curr_offset>] [<tx_pwr_slope>] [<tx_pwr_offset>] [<rx_pwr_4>] [<rx_pwr_3>] [<rx_pwr_2>] [<rx_pwr_1>] [<rx_pwr_0>] [TABLE_lane [<lane_number>] [<temperature>] [<temp_flag>] [<temp_alrm_hi>] [<temp_alrm_lo>] [<temp_warn_hi>] [<temp_warn_lo>] [<voltage>] [<volt_flag>] [<volt_alrm_hi>] [<volt_alrm_lo>] [<volt_warn_hi>] [<volt_warn_lo>] [<current>] [<current_flag>] [<current_alrm_hi>] [<current_alrm_lo>] [<current_warn_hi>] [<current_warn_lo>] [<tx_pwr>] [<tx_pwr_flag>] [<tx_pwr_alrm_hi>] [<tx_pwr_alrm_lo>] [<tx_pwr_warn_hi>] [<tx_pwr_warn_lo>] [<rx_pwr>] [<rx_pwr_flag>] [<rx_pwr_alrm_hi>] [<rx_pwr_alrm_lo>] [<rx_pwr_warn_hi>] [<rx_pwr_warn_lo>] [<xmit_faults>] [<snr>] [<snr_flag>] [<snr_alrm_hi>] [<snr_alrm_lo>] [<snr_warn_hi>] [<snr_warn_lo>] [<isi>] [<isi_flag>] [<isi_alrm_hi>] [<isi_alrm_lo>] [<isi_warn_hi>] [<isi_warn_lo>] [<pam>] [<pam_flag>] [<pam_alrm_hi>] [<pam_alrm_lo>] [<pam_warn_hi>] [<pam_warn_lo>] [<pre_fec_ber>] [<pre_fec_ber_flag>] [<pre_fec_ber_alrm_hi>] [<pre_fec_ber_alrm_lo>] [<pre_fec_ber_warn_hi>] [<pre_fec_ber_warn_lo>] [<uncorrect_ber>] [<uncorrect_ber_flag>] [<uncorrect_ber_alrm_hi>] [<uncorrect_ber_alrm_lo>] [<uncorrect_ber_warn_hi>] [<uncorrect_ber_warn_lo>] [<tec_current>] [<tec_current_flag>] [<tec_current_alrm_hi>] [<tec_current_alrm_lo>] [<tec_current_warn_hi>] [<tec_current_warn_lo>] [<laser_freq>] [<laser_freq_flag>] [<laser_freq_alrm_hi>] [<laser_freq_alrm_lo>] [<laser_freq_warn_hi>] [<laser_freq_warn_lo>] [<laser_temp>] [<laser_temp_flag>] [<laser_temp_alrm_hi>] [<laser_temp_alrm_lo>] [<laser_temp_warn_hi>] [<laser_temp_warn_lo>] [<pre_fec_ber_acc>] [<pre_fec_ber_acc_flag>] [<pre_fec_ber_acc_alrm_hi>] [<pre_fec_ber_acc_alrm_lo>] [<pre_fec_ber_acc_warn_hi>] [<pre_fec_ber_acc_warn_lo>] [<pre_fec_ber_min>] [<pre_fec_ber_min_flag>] [<pre_fec_ber_min_alrm_hi>] [<pre_fec_ber_min_alrm_lo>] [<pre_fec_ber_min_warn_hi>] [<pre_fec_ber_min_warn_lo>] [<pre_fec_ber_max>] [<pre_fec_ber_max_flag>] [<pre_fec_ber_max_alrm_hi>] [<pre_fec_ber_max_alrm_lo>] [<pre_fec_ber_max_warn_hi>] [<pre_fec_ber_max_warn_lo>] [<pre_fec_ber_cur>] [<pre_fec_ber_cur_flag>] [<pre_fec_ber_cur_alrm_hi>] [<pre_fec_ber_cur_alrm_lo>] [<pre_fec_ber_cur_warn_hi>] [<pre_fec_ber_cur_warn_lo>] [<uncorrect_ber_acc>] [<uncorrect_ber_acc_flag>] [<uncorrect_ber_acc_alrm_hi>] [<uncorrect_ber_acc_alrm_lo>] [<uncorrect_ber_acc_warn_hi>] [<uncorrect_ber_acc_warn_lo>] [<uncorrect_ber_min>] [<uncorrect_ber_min_flag>] [<uncorrect_ber_min_alrm_hi>] [<uncorrect_ber_min_alrm_lo>] [<uncorrect_ber_min_warn_hi>] [<uncorrect_ber_min_warn_lo>] [

<uncorrect_ber_max>] [<uncorrect_ber_max_flag>] [<uncorrect_ber_max_alrm_hi>] [<uncorrect_ber_max_alrm_lo>] [<uncorrect_ber_max_warn_hi>] [<uncorrect_ber_max_warn_lo>] [<uncorrect_ber_cur>] [<uncorrect_ber_cur_flag>] [<uncorrect_ber_cur_alrm_hi>] [<uncorrect_ber_cur_alrm_lo>] [<uncorrect_ber_cur_warn_hi>] [<uncorrect_ber_cur_warn_lo>]]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_transceiver	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
sprom	(Optional) Show interface transceiver sprom information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
sfp	(Optional) sfp
qsfp_or_cfp	(Optional) qsfp_or_cfp
type	(Optional) type
name	(Optional) Name
partnum	(Optional) part number
rev	(Optional) revision
serialnum	(Optional) serial number
nom_bitrate	(Optional) Nominal bit rate in MBits/sec
len_9	(Optional) Link length supported for 9/125um fiber in Km
len_9_2	(Optional) Link length supported for 9/125um fiber in m
len_50	(Optional) Link length supported for 50/125um fiber in m
len_625	(Optional) Link length supported for 62.5/125um fiber in m
len_cu	(Optional) Link length supported for copper sfp in m
len_50_OM3	(Optional) Link length supported for 50/125um fiber in m
txcvr_type	(Optional)

connector_type	(Optional)
bit_encoding	(Optional)
protocol_type	(Optional)
10gbe_code	(Optional)
fiber_type_byte0	(Optional)
fiber_type_byte1	(Optional)
tx_range	(Optional)
cable_type	(Optional)
ciscoid	(Optional) Cisco extended id
ciscoid_1	(Optional) Cisco extended id number
cisco_part_number	(Optional) Cisco part number
cisco_product_id	(Optional) Cisco product identifier
cisco_vendor_id	(Optional) Cisco vendor identifier
firmware_version	(Optional) Firmware version
identifier	(Optional) SFP Identifier
ext_identifier	(Optional) SFP Ext Identifier
connector	(Optional) SFP connector
infiniband_compliance_code	(Optional) SFP Infiniband Compliance Code
sonet_compliance_code	(Optional) Sonet Compliance Code
gigabit_ethernet_compliance_code	(Optional) Gigabit Ethernet Compliance Code
fibre_chan_link_length	(Optional) Fibre Chan Link Length
fibre_chan_trans_technology	(Optional) Fibre Chan Trans Technology
fibre_chan_trans_tech_reserved	(Optional) Fibre Chan Trans Tech Reserved
fibre_chan_transmission_media	(Optional) Fibre Chan Transmission Media
fibre_chan_speed	(Optional) Fibre Chan Speed
encoding	(Optional) Encoding
br_nominal	(Optional) BR Nominal
reserved1	(Optional) Reserved1
length_smf	(Optional) Length_SMF

length_om5	(Optional) Length_OM5
length_om4	(Optional) Length_OM4
length_om3	(Optional) Length_OM3
length_om2	(Optional) Length_OM2
length_om1	(Optional) Length_OM1
length_9u_1	(Optional) Length 9u 1
length_9u_2	(Optional) Length 9u 2
length_50u	(Optional) Length 50u
length_60u	(Optional) Length 60u
length_copper	(Optional) Length Copper
reserved3	(Optional) Reserved3
wave_length	(Optional) Nominal transmitter output wavelength
wave_len_tolerance	(Optional) Wavelength tolerance
vendor_oui	(Optional) Vendor OUI
vendor_part_no	(Optional) Vendor Part No
vendor_revision	(Optional) Vendor Revision
reserved4	(Optional) Reserved4
check_code_id	(Optional) Check Code ID
options	(Optional) Options
br_max	(Optional) BR max
br_min	(Optional) BR min
vendor_serial_no	(Optional) Vendor Serial No
data_code	(Optional) Data code
diagnostic_monitoring_type	(Optional) Diagnostic Monitoring Type
enhanced_options	(Optional) Enhanced Options
sff8472compliance	(Optional) SFF8472Compliance
check_code_ext	(Optional) Check code ext
vendor_specific_data_id_data	(Optional) Vendor Specific Data Id Data
date_code	(Optional) date code and lot code

clei_code	(Optional) 10-character CLEI code
power_class	(Optional) power class
max_power	(Optional) maximum power consumption
cable_attenuation	(Optional) copper cable attenuation
near_end_lanes	(Optional) near end lane information
far_end_lanes	(Optional) far end lane information
media_interface	(Optional) media interface technology
adv_code	(Optional) Module Advertising Code
host_elt_intf_code	(Optional) Module Host Electrical Interfaces Code
med_intf_adv_code	(Optional) Media Interface Advertising Code
host_lane_count	(Optional) Host Lane Count
med_lane_count	(Optional) Media Lane Count
max_mod_temp	(Optional) Maxium Module Temperature
min_mod_temp	(Optional) Minimum Module Temperature
min_op_volt	(Optional) Minimum Operating Voltage
info_not_available	(Optional) Info not available
temp_slope	(Optional) Temperature slope
temp_offset	(Optional) Temperature offset
volt_slope	(Optional) Voltage slope
volt_offset	(Optional) Voltage offset
curr_slope	(Optional) Current slope
curr_offset	(Optional) Current offset
tx_pwr_slope	(Optional) Tx power slope
tx_pwr_offset	(Optional) Tx power offset
rx_pwr_4	(Optional) Rx power 4
rx_pwr_3	(Optional) Rx power 3
rx_pwr_2	(Optional) Rx power 2
rx_pwr_1	(Optional) Rx power 1
rx_pwr_0	(Optional) Rx power 0

TABLE_lane	(Optional) show lane
lane_number	(Optional) Lane number
temperature	(Optional) Temperature
temp_flag	(Optional) Temperature Flag
temp_alrm_hi	(Optional) Temperature Alarm High
temp_alrm_lo	(Optional) Temperature Alarm Low
temp_warn_hi	(Optional) Temperature Warning High
temp_warn_lo	(Optional) Temperature Warning Low
voltage	(Optional) Voltage
volt_flag	(Optional) Voltage Flag
volt_alrm_hi	(Optional) Voltage Alarm High
volt_alrm_lo	(Optional) Voltage Alarm Low
volt_warn_hi	(Optional) Voltage Warning High
volt_warn_lo	(Optional) Voltage Warning Low
current	(Optional) Current
current_flag	(Optional) Current Flag
current_alrm_hi	(Optional) Current Alarm High
current_alrm_lo	(Optional) Current Alarm Low
current_warn_hi	(Optional) Current Warning High
current_warn_lo	(Optional) Current Warning Low
tx_pwr	(Optional) Tx Power
tx_pwr_flag	(Optional) Tx Power Flag
tx_pwr_alrm_hi	(Optional) Tx Power Alarm High
tx_pwr_alrm_lo	(Optional) Tx Power Alarm Low
tx_pwr_warn_hi	(Optional) Tx Power Warning High
tx_pwr_warn_lo	(Optional) Tx Power Warning Low
rx_pwr	(Optional) Rx Power
rx_pwr_flag	(Optional) Rx Power Flag
rx_pwr_alrm_hi	(Optional) Rx Power Alarm High

rx_pwr_alrm_lo	(Optional) Rx Power Alarm Low
rx_pwr_warn_hi	(Optional) Rx Power Warning High
rx_pwr_warn_lo	(Optional) Rx Power Warning Low
xmit_faults	(Optional) Transmit Fault Count
snr	(Optional) RX Signal-to-Noise Ratio (SNR)
snr_flag	(Optional) SNR Flag
snr_alrm_hi	(Optional) SNR Alarm High
snr_alrm_lo	(Optional) SNR Alarm Low
snr_warn_hi	(Optional) SNR Warning High
snr_warn_lo	(Optional) SNR Warning Low
isi	(Optional) Residual-Dispersion(ISI)
isi_flag	(Optional) ISI Flag
isi_alrm_hi	(Optional) ISI alarm high
isi_alrm_lo	(Optional) ISI alarm low
isi_warn_hi	(Optional) ISI warning high
isi_warn_lo	(Optional) ISI warning low
pam	(Optional) PAM Transition
pam_flag	(Optional) PAM Flag
pam_alrm_hi	(Optional) PAM alarm high
pam_alrm_lo	(Optional) PAM alarm low
pam_warn_hi	(Optional) PAM warning high
pam_warn_lo	(Optional) PAM warning low
pre_fec_ber	(Optional) Pre-FEC BER
pre_fec_ber_flag	(Optional) Pre-FEC BER flag
pre_fec_ber_alrm_hi	(Optional) Pre-FEC BER alarm high
pre_fec_ber_alrm_lo	(Optional) Pre-FEC BER alarm low
pre_fec_ber_warn_hi	(Optional) Pre-FEC BER warning high
pre_fec_ber_warn_lo	(Optional) Pre-FEC BER warning low
uncorrect_ber	(Optional) Uncorrected BER

uncorrect_ber_flag	(Optional) Uncorrected BER flag
uncorrect_ber_alrm_hi	(Optional) Uncorrected BER alarm high
uncorrect_ber_alrm_lo	(Optional) Uncorrected BER alarm low
uncorrect_ber_warn_hi	(Optional) Uncorrected BER warning high
uncorrect_ber_warn_lo	(Optional) Uncorrected BER warning low
tec_current	(Optional) TEC Current
tec_current_flag	(Optional) TEC Current flag
tec_current_alrm_hi	(Optional) TEC Current Alarm High
tec_current_alrm_lo	(Optional) TEC Current Alarm Low
tec_current_warn_hi	(Optional) TEC Current Warning High
tec_current_warn_lo	(Optional) TEC Current Warning Low
laser_freq	(Optional) Laser Frequency
laser_freq_flag	(Optional) Laser Frequency flag
laser_freq_alrm_hi	(Optional) Laser Frequency Alarm High
laser_freq_alrm_lo	(Optional) Laser Frequency Alarm Low
laser_freq_warn_hi	(Optional) Laser Frequency Warning High
laser_freq_warn_lo	(Optional) Laser Frequency Warning Low
laser_temp	(Optional) Laser Temperature
laser_temp_flag	(Optional) Laser Temperature flag
laser_temp_alrm_hi	(Optional) Laser Temperature Alarm High
laser_temp_alrm_lo	(Optional) Laser Temperature Alarm Low
laser_temp_warn_hi	(Optional) Laser Temperature Warning High
laser_temp_warn_lo	(Optional) Laser Temperature Warning Low
pre_fec_ber_acc	(Optional) Pre-FEC BER Acc
pre_fec_ber_acc_flag	(Optional) Pre-FEC BER Acc flag
pre_fec_ber_acc_alrm_hi	(Optional) Pre-FEC BER Acc alarm high
pre_fec_ber_acc_alrm_lo	(Optional) Pre-FEC BER Acc alarm low
pre_fec_ber_acc_warn_hi	(Optional) Pre-FEC BER Acc warning high
pre_fec_ber_acc_warn_lo	(Optional) Pre-FEC BER Acc warning low

pre_fec_ber_min	(Optional) Pre-FEC BER Min
pre_fec_ber_min_flag	(Optional) Pre-FEC BER Min flag
pre_fec_ber_min_alrm_hi	(Optional) Pre-FEC BER Min alarm high
pre_fec_ber_min_alrm_lo	(Optional) Pre-FEC BER Min alarm low
pre_fec_ber_min_warn_hi	(Optional) Pre-FEC BER Min warning high
pre_fec_ber_min_warn_lo	(Optional) Pre-FEC BER Min warning low
pre_fec_ber_max	(Optional) Pre-FEC BER Max
pre_fec_ber_max_flag	(Optional) Pre-FEC BER Max flag
pre_fec_ber_max_alrm_hi	(Optional) Pre-FEC BER Max alarm high
pre_fec_ber_max_alrm_lo	(Optional) Pre-FEC BER Max alarm low
pre_fec_ber_max_warn_hi	(Optional) Pre-FEC BER Max warning high
pre_fec_ber_max_warn_lo	(Optional) Pre-FEC BER Max warning low
pre_fec_ber_cur	(Optional) Pre-FEC BER Cur
pre_fec_ber_cur_flag	(Optional) Pre-FEC BER Cur flag
pre_fec_ber_cur_alrm_hi	(Optional) Pre-FEC BER Cur alarm high
pre_fec_ber_cur_alrm_lo	(Optional) Pre-FEC BER Cur alarm low
pre_fec_ber_cur_warn_hi	(Optional) Pre-FEC BER Cur warning high
pre_fec_ber_cur_warn_lo	(Optional) Pre-FEC BER Cur warning low
uncorrect_ber_acc	(Optional) Uncorrected BER Acc
uncorrect_ber_acc_flag	(Optional) Uncorrected BER Acc flag
uncorrect_ber_acc_alrm_hi	(Optional) Uncorrected BER Acc alarm high
uncorrect_ber_acc_alrm_lo	(Optional) Uncorrected BER Acc alarm low
uncorrect_ber_acc_warn_hi	(Optional) Uncorrected BER Acc warning high
uncorrect_ber_acc_warn_lo	(Optional) Uncorrected BER Acc warning low
uncorrect_ber_min	(Optional) Uncorrected BER Min
uncorrect_ber_min_flag	(Optional) Uncorrected BER Min flag
uncorrect_ber_min_alrm_hi	(Optional) Uncorrected BER Min alarm high
uncorrect_ber_min_alrm_lo	(Optional) Uncorrected BER Min alarm low
uncorrect_ber_min_warn_hi	(Optional) Uncorrected BER Min warning high

uncorrect_ber_min_warn_lo	(Optional) Uncorrected BER Min warning low
uncorrect_ber_max	(Optional) Uncorrected BER Max
uncorrect_ber_max_flag	(Optional) Uncorrected BER Max flag
uncorrect_ber_max_alrm_hi	(Optional) Uncorrected BER Max alarm high
uncorrect_ber_max_alrm_lo	(Optional) Uncorrected BER Max alarm low
uncorrect_ber_max_warn_hi	(Optional) Uncorrected BER Max warning high
uncorrect_ber_max_warn_lo	(Optional) Uncorrected BER Max warning low
uncorrect_ber_cur	(Optional) Uncorrected BER Cur
uncorrect_ber_cur_flag	(Optional) Uncorrected BER Cur flag
uncorrect_ber_cur_alrm_hi	(Optional) Uncorrected BER Cur alarm high
uncorrect_ber_cur_alrm_lo	(Optional) Uncorrected BER Cur alarm low
uncorrect_ber_cur_warn_hi	(Optional) Uncorrected BER Cur warning high
uncorrect_ber_cur_warn_lo	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface transceiver fex-fabric

show interface <ifeth_trans> transceiver fex-fabric [calibrations | details] [__readonly__ TABLE_interface <interface> <sfp> <name> <partnum> <rev> <serialnum> <nom_bitrate> <len_50> <len_625> <ciscoid> <ciscoid_1> [<temp_slope>] [<temp_offset>] [<volt_slope>] [<volt_offset>] [<curr_slope>] [<curr_offset>] [<tx_pwr_slope>] [<tx_pwr_offset>] [<rx_pwr_4>] [<rx_pwr_3>] [<rx_pwr_2>] [<rx_pwr_1>] [<rx_pwr_0>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_trans	Enter interface type and number in module/slot format
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information
details	(Optional) Show interface transceiver detail information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
sfp	(Optional) sfp
name	(Optional) Name
partnum	(Optional) part number
rev	(Optional) revision
serialnum	(Optional) serial number
nom_bitrate	(Optional) Nominal bit rate in MBits/sec
len_50	(Optional) Link length supported for 50/125mm fiber
len_625	(Optional) Link length supported for 62.5/125mm fiber
ciscoid	(Optional) Cisco extended id
ciscoid_1	(Optional) Cisco extended id number
temp_slope	(Optional) Temperature slope
temp_offset	(Optional) Temperature offset
volt_slope	(Optional) Voltage slope

volt_offset	(Optional) Voltage offset
curr_slope	(Optional) Current slope
curr_offset	(Optional) Current offset
tx_pwr_slope	(Optional) Tx power slope
tx_pwr_offset	(Optional) Tx power offset
rx_pwr_4	(Optional) Rx power 4
rx_pwr_3	(Optional) Rx power 3
rx_pwr_2	(Optional) Rx power 2
rx_pwr_1	(Optional) Rx power 1
rx_pwr_0	(Optional) Rx power 0

Command Mode

- /exec

show interface transceiver fex-fabric

show interface transceiver fex-fabric [calibrations | details] [__readonly__ TABLE_interface <interface> [<sfp>] [<type>] [<name>] [<partnum>] [<rev>] [<serialnum>] [<nom_bitrate>] [<len_50>] [<len_625>] [<len_50_OM3>] [<ciscoid>] [<ciscoid_1>] [<info_not_available>] [<temp_slope>] [<temp_offset>] [<volt_slope>] [<volt_offset>] [<curr_slope>] [<curr_offset>] [<tx_pwr_slope>] [<tx_pwr_offset>] [<rx_pwr_4>] [<rx_pwr_3>] [<rx_pwr_2>] [<rx_pwr_1>] [<rx_pwr_0>] [TABLE_lane [<lane_number>] [<temperature>] [<temp_flag>] [<temp_alrm_hi>] [<temp_alrm_lo>] [<temp_warn_hi>] [<temp_warn_lo>] [<voltage>] [<volt_flag>] [<volt_alrm_hi>] [<volt_alrm_lo>] [<volt_warn_hi>] [<volt_warn_lo>] [<current>] [<current_flag>] [<current_alrm_hi>] [<current_alrm_lo>] [<current_warn_hi>] [<current_warn_lo>] [<tx_pwr>] [<tx_pwr_flag>] [<tx_pwr_alrm_hi>] [<tx_pwr_alrm_lo>] [<tx_pwr_warn_hi>] [<tx_pwr_warn_lo>] [<rx_pwr>] [<rx_pwr_flag>] [<rx_pwr_alrm_hi>] [<rx_pwr_alrm_lo>] [<rx_pwr_warn_hi>] [<rx_pwr_warn_lo>] [<xmit_faults>] [<snr>] [<snr_flag>] [<snr_alrm_hi>] [<snr_alrm_lo>] [<snr_warn_hi>] [<snr_warn_lo>] [<isi>] [<isi_flag>] [<isi_alrm_hi>] [<isi_alrm_lo>] [<isi_warn_hi>] [<isi_warn_lo>] [<pam>] [<pam_flag>] [<pam_alrm_hi>] [<pam_alrm_lo>] [<pam_warn_hi>] [<pam_warn_lo>] [<pre_fec_ber>] [<pre_fec_ber_flag>] [<pre_fec_ber_alrm_hi>] [<pre_fec_ber_alrm_lo>] [<pre_fec_ber_warn_hi>] [<pre_fec_ber_warn_lo>] [<uncorrect_ber>] [<uncorrect_ber_flag>] [<uncorrect_ber_alrm_hi>] [<uncorrect_ber_alrm_lo>] [<uncorrect_ber_warn_hi>] [<uncorrect_ber_warn_lo>] [<tec_current>] [<tec_current_flag>] [<tec_current_alrm_hi>] [<tec_current_alrm_lo>] [<tec_current_warn_hi>] [<tec_current_warn_lo>] [<laser_freq>] [<laser_freq_flag>] [<laser_freq_alrm_hi>] [<laser_freq_alrm_lo>] [<laser_freq_warn_hi>] [<laser_freq_warn_lo>] [<laser_temp>] [<laser_temp_flag>] [<laser_temp_alrm_hi>] [<laser_temp_alrm_lo>] [<laser_temp_warn_hi>] [<laser_temp_warn_lo>] [<pre_fec_ber_acc>] [<pre_fec_ber_acc_flag>] [<pre_fec_ber_acc_alrm_hi>] [<pre_fec_ber_acc_alrm_lo>] [<pre_fec_ber_acc_warn_hi>] [<pre_fec_ber_acc_warn_lo>] [<pre_fec_ber_min>] [<pre_fec_ber_min_flag>] [<pre_fec_ber_min_alrm_hi>] [<pre_fec_ber_min_alrm_lo>] [<pre_fec_ber_min_warn_hi>] [<pre_fec_ber_min_warn_lo>] [<pre_fec_ber_max>] [<pre_fec_ber_max_flag>] [<pre_fec_ber_max_alrm_hi>] [<pre_fec_ber_max_alrm_lo>] [<pre_fec_ber_max_warn_hi>] [<pre_fec_ber_max_warn_lo>] [<pre_fec_ber_cur>] [<pre_fec_ber_cur_flag>] [<pre_fec_ber_cur_alrm_hi>] [<pre_fec_ber_cur_alrm_lo>] [<pre_fec_ber_cur_warn_hi>] [<pre_fec_ber_cur_warn_lo>] [<uncorrect_ber_acc>] [<uncorrect_ber_acc_flag>] [<uncorrect_ber_acc_alrm_hi>] [<uncorrect_ber_acc_alrm_lo>] [<uncorrect_ber_acc_warn_hi>] [<uncorrect_ber_acc_warn_lo>] [<uncorrect_ber_min>] [<uncorrect_ber_min_flag>] [<uncorrect_ber_min_alrm_hi>] [<uncorrect_ber_min_alrm_lo>] [<uncorrect_ber_min_warn_hi>] [<uncorrect_ber_min_warn_lo>] [<uncorrect_ber_max>] [<uncorrect_ber_max_flag>] [<uncorrect_ber_max_alrm_hi>] [<uncorrect_ber_max_alrm_lo>] [<uncorrect_ber_max_warn_hi>] [<uncorrect_ber_max_warn_lo>] [<uncorrect_ber_cur>] [<uncorrect_ber_cur_flag>] [<uncorrect_ber_cur_alrm_hi>] [<uncorrect_ber_cur_alrm_lo>] [<uncorrect_ber_cur_warn_hi>] [<uncorrect_ber_cur_warn_lo>]]]

Syntax Description

show	Show running system information
interface	Show interface status and information
transceiver	Show interface transceiver information
fex-fabric	Show FEX interface transceiver information
calibrations	(Optional) Show interface transceiver calibration information

details	(Optional) Show interface transceiver detail information
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
sfp	(Optional) sfp
type	(Optional) type
name	(Optional) Name
partnum	(Optional) part number
rev	(Optional) revision
serialnum	(Optional) serial number
nom_bitrate	(Optional) Nominal bit rate in MBits/sec
len_50	(Optional) Link length supported for 50/125mm fiber
len_625	(Optional) Link length supported for 62.5/125mm fiber
len_50_OM3	(Optional) Link length supported for 50/125um fiber in m
ciscoid	(Optional) Cisco extended id
ciscoid_1	(Optional) Cisco extended id number
info_not_available	(Optional) Error case if sfp info not available
temp_slope	(Optional) Temperature slope
temp_offset	(Optional) Temperature offset
volt_slope	(Optional) Voltage slope
volt_offset	(Optional) Voltage offset
curr_slope	(Optional) Current slope
curr_offset	(Optional) Current offset
tx_pwr_slope	(Optional) Tx power slope
tx_pwr_offset	(Optional) Tx power offset
rx_pwr_4	(Optional) Rx power 4
rx_pwr_3	(Optional) Rx power 3
rx_pwr_2	(Optional) Rx power 2
rx_pwr_1	(Optional) Rx power 1

rx_pwr_0	(Optional) Rx power 0
TABLE_lane	(Optional) show lane
lane_number	(Optional) Lane number
temperature	(Optional) Temperature
temp_flag	(Optional) Temperature Flag
temp_alrm_hi	(Optional) Temperature Alarm High
temp_alrm_lo	(Optional) Temperature Alarm Low
temp_warn_hi	(Optional) Temperature Warning High
temp_warn_lo	(Optional) Temperature Warning Low
voltage	(Optional) Voltage
volt_flag	(Optional) Voltage Flag
volt_alrm_hi	(Optional) Voltage Alarm High
volt_alrm_lo	(Optional) Voltage Alarm Low
volt_warn_hi	(Optional) Voltage Warning High
volt_warn_lo	(Optional) Voltage Warning Low
current	(Optional) Current
current_flag	(Optional) Current Flag
current_alrm_hi	(Optional) Current Alarm High
current_alrm_lo	(Optional) Current Alarm Low
current_warn_hi	(Optional) Current Warning High
current_warn_lo	(Optional) Current Warning Low
tx_pwr	(Optional) Tx Power
tx_pwr_flag	(Optional) Tx Power Flag
tx_pwr_alrm_hi	(Optional) Tx Power Alarm High
tx_pwr_alrm_lo	(Optional) Tx Power Alarm Low
tx_pwr_warn_hi	(Optional) Tx Power Warning High
tx_pwr_warn_lo	(Optional) Tx Power Warning Low
rx_pwr	(Optional) Rx Power
rx_pwr_flag	(Optional) Rx Power Flag

rx_pwr_alrm_hi	(Optional) Rx Power Alarm High
rx_pwr_alrm_lo	(Optional) Rx Power Alarm Low
rx_pwr_warn_hi	(Optional) Rx Power Warning High
rx_pwr_warn_lo	(Optional) Rx Power Warning Low
xmit_faults	(Optional) Transmit Fault Count
snr	(Optional) RX Signal-to-Noise Ratio (SNR)
snr_flag	(Optional) SNR Flag
snr_alrm_hi	(Optional) SNR Alarm High
snr_alrm_lo	(Optional) SNR Alarm Low
snr_warn_hi	(Optional) SNR Warning High
snr_warn_lo	(Optional) SNR Warning Low
isi	(Optional) Residual-Dispersion(ISI)
isi_flag	(Optional) ISI Flag
isi_alrm_hi	(Optional) ISI alarm high
isi_alrm_lo	(Optional) ISI alarm low
isi_warn_hi	(Optional) ISI warning high
isi_warn_lo	(Optional) ISI warning low
pam	(Optional) PAM Transition
pam_flag	(Optional) PAM Flag
pam_alrm_hi	(Optional) PAM alarm high
pam_alrm_lo	(Optional) PAM alarm low
pam_warn_hi	(Optional) PAM warning high
pam_warn_lo	(Optional) PAM warning low
pre_fec_ber	(Optional) Pre-FEC BER
pre_fec_ber_flag	(Optional) Pre-FEC BER flag
pre_fec_ber_alrm_hi	(Optional) Pre-FEC BER alarm high
pre_fec_ber_alrm_lo	(Optional) Pre-FEC BER alarm low
pre_fec_ber_warn_hi	(Optional) Pre-FEC BER warning high
pre_fec_ber_warn_lo	(Optional) Pre-FEC BER warning low

uncorrect_ber	(Optional) Uncorrected BER
uncorrect_ber_flag	(Optional) Uncorrected BER flag
uncorrect_ber_alrm_hi	(Optional) Uncorrected BER alarm high
uncorrect_ber_alrm_lo	(Optional) Uncorrected BER alarm low
uncorrect_ber_warn_hi	(Optional) Uncorrected BER warning high
uncorrect_ber_warn_lo	(Optional) Uncorrected BER warning low
tec_current	(Optional) TEC Current
tec_current_flag	(Optional) TEC Current flag
tec_current_alrm_hi	(Optional) TEC Current Alarm High
tec_current_alrm_lo	(Optional) TEC Current Alarm Low
tec_current_warn_hi	(Optional) TEC Current Warning High
tec_current_warn_lo	(Optional) TEC Current Warning Low
laser_freq	(Optional) Laser Frequency
laser_freq_flag	(Optional) Laser Frequency flag
laser_freq_alrm_hi	(Optional) Laser Frequency Alarm High
laser_freq_alrm_lo	(Optional) Laser Frequency Alarm Low
laser_freq_warn_hi	(Optional) Laser Frequency Warning High
laser_freq_warn_lo	(Optional) Laser Frequency Warning Low
laser_temp	(Optional) Laser Temperature
laser_temp_flag	(Optional) Laser Temperature flag
laser_temp_alrm_hi	(Optional) Laser Temperature Alarm High
laser_temp_alrm_lo	(Optional) Laser Temperature Alarm Low
laser_temp_warn_hi	(Optional) Laser Temperature Warning High
laser_temp_warn_lo	(Optional) Laser Temperature Warning Low
pre_fec_ber_acc	(Optional) Pre-FEC BER Acc
pre_fec_ber_acc_flag	(Optional) Pre-FEC BER Acc flag
pre_fec_ber_acc_alrm_hi	(Optional) Pre-FEC BER Acc alarm high
pre_fec_ber_acc_alrm_lo	(Optional) Pre-FEC BER Acc alarm low
pre_fec_ber_acc_warn_hi	(Optional) Pre-FEC BER Acc warning high

pre_fec_ber_acc_warn_lo	(Optional) Pre-FEC BER Acc warning low
pre_fec_ber_min	(Optional) Pre-FEC BER Min
pre_fec_ber_min_flag	(Optional) Pre-FEC BER Min flag
pre_fec_ber_min_alrm_hi	(Optional) Pre-FEC BER Min alarm high
pre_fec_ber_min_alrm_lo	(Optional) Pre-FEC BER Min alarm low
pre_fec_ber_min_warn_hi	(Optional) Pre-FEC BER Min warning high
pre_fec_ber_min_warn_lo	(Optional) Pre-FEC BER Min warning low
pre_fec_ber_max	(Optional) Pre-FEC BER Max
pre_fec_ber_max_flag	(Optional) Pre-FEC BER Max flag
pre_fec_ber_max_alrm_hi	(Optional) Pre-FEC BER Max alarm high
pre_fec_ber_max_alrm_lo	(Optional) Pre-FEC BER Max alarm low
pre_fec_ber_max_warn_hi	(Optional) Pre-FEC BER Max warning high
pre_fec_ber_max_warn_lo	(Optional) Pre-FEC BER Max warning low
pre_fec_ber_cur	(Optional) Pre-FEC BER Cur
pre_fec_ber_cur_flag	(Optional) Pre-FEC BER Cur flag
pre_fec_ber_cur_alrm_hi	(Optional) Pre-FEC BER Cur alarm high
pre_fec_ber_cur_alrm_lo	(Optional) Pre-FEC BER Cur alarm low
pre_fec_ber_cur_warn_hi	(Optional) Pre-FEC BER Cur warning high
pre_fec_ber_cur_warn_lo	(Optional) Pre-FEC BER Cur warning low
uncorrect_ber_acc	(Optional) Uncorrected BER Acc
uncorrect_ber_acc_flag	(Optional) Uncorrected BER Acc flag
uncorrect_ber_acc_alrm_hi	(Optional) Uncorrected BER Acc alarm high
uncorrect_ber_acc_alrm_lo	(Optional) Uncorrected BER Acc alarm low
uncorrect_ber_acc_warn_hi	(Optional) Uncorrected BER Acc warning high
uncorrect_ber_acc_warn_lo	(Optional) Uncorrected BER Acc warning low
uncorrect_ber_min	(Optional) Uncorrected BER Min
uncorrect_ber_min_flag	(Optional) Uncorrected BER Min flag
uncorrect_ber_min_alrm_hi	(Optional) Uncorrected BER Min alarm high
uncorrect_ber_min_alrm_lo	(Optional) Uncorrected BER Min alarm low

uncorrect_ber_min_warn_hi	(Optional) Uncorrected BER Min warning high
uncorrect_ber_min_warn_lo	(Optional) Uncorrected BER Min warning low
uncorrect_ber_max	(Optional) Uncorrected BER Max
uncorrect_ber_max_flag	(Optional) Uncorrected BER Max flag
uncorrect_ber_max_alrm_hi	(Optional) Uncorrected BER Max alarm high
uncorrect_ber_max_alrm_lo	(Optional) Uncorrected BER Max alarm low
uncorrect_ber_max_warn_hi	(Optional) Uncorrected BER Max warning high
uncorrect_ber_max_warn_lo	(Optional) Uncorrected BER Max warning low
uncorrect_ber_cur	(Optional) Uncorrected BER Cur
uncorrect_ber_cur_flag	(Optional) Uncorrected BER Cur flag
uncorrect_ber_cur_alrm_hi	(Optional) Uncorrected BER Cur alarm high
uncorrect_ber_cur_alrm_lo	(Optional) Uncorrected BER Cur alarm low
uncorrect_ber_cur_warn_hi	(Optional) Uncorrected BER Cur warning high
uncorrect_ber_cur_warn_lo	(Optional) Uncorrected BER Cur warning low

Command Mode

- /exec

show interface trunk

show interface trunk [module <module> | vlan <vlan_id> | fex <fex_num>] [__readonly__ [{ TABLE_interface <interface> <native> <status> <portchannel> }] [{ TABLE_allowed_vlans <interface> <allowedvlans> }] [{ TABLE_errored_vlans <interface> <erroredvlans> }] [{ TABLE_stp_forward <interface> <stpfwd_vlans> }] [{ TABLE_fabricpath_vlans <interface> <fabricpath_vlans> }] [{ TABLE_vtp_pruning <interface> <vtppruning_vlans> }]]

Syntax Description

show	Show running system information
interface	Show interface status and information
trunk	Show interface trunk information
module	(Optional) Limit display to interfaces on module
module	(Optional) Enter module number
fex	(Optional) Limit display to interfaces on a FEX
fex_num	(Optional) Enter FEX number
vlan	(Optional) Show per vlan information for trunk
vlan_id	(Optional) Enter vlan range
interface	(Optional) Interface index
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
native	(Optional) Native VLAN
status	(Optional) Status
portchannel	(Optional) Port Channel
TABLE_allowed_vlans	(Optional) show allowed vlans
interface	(Optional) Interface index
allowedvlans	(Optional) VLANs allowed and active in management domain
TABLE_errored_vlans	(Optional) show errored vlans
interface	(Optional) Interface index
erroredvlans	(Optional) Errored VLANs
TABLE_stp_forward	(Optional) show STP forwarding VLANs

interface	(Optional) Interface index
stpfwd_vlans	(Optional) STP Forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
interface	(Optional) Interface index
fabricpath_vlans	(Optional) FabricPath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs
vtppruning_vlans	(Optional) VTP Pruning VLANs

Command Mode

- /exec

show interface trunk

show interface <ifeth_trnk> trunk [__readonly__ { TABLE_interface <interface> <native> <status> <portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } { TABLE_errored_vlans <interface> <erroredvlans> } { TABLE_stp_forward <interface> <stpfwd_vlans> } [{ TABLE_fabricpath_vlans <interface> <fabricpath_vlans> }] { TABLE_vtp_pruning <interface> <vtppruning_vlans> }]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifeth_trnk	Enter interface type and number in module/slot format
trunk	Show interface trunk information
__readonly__	(Optional) Read Only
TABLE_interface	(Optional) show interface
interface	(Optional) Interface index
native	(Optional) Native VLAN
status	(Optional) Status
portchannel	(Optional) Port Channel
TABLE_allowed_vlans	(Optional) show allowed vlans
interface	(Optional) Interface index
allowedvlans	(Optional) VLANs allowed and active in management domain
TABLE_errored_vlans	(Optional) show errored vlans
interface	(Optional) Interface index
erroredvlans	(Optional) Errored VLANs
TABLE_stp_forward	(Optional) show STP forwarding VLANs
interface	(Optional) Interface index
stpfwd_vlans	(Optional) STP Forwarding VLANs
TABLE_fabricpath_vlans	(Optional) show fabricpath VLANs
interface	(Optional) Interface index
fabricpath_vlans	(Optional) FabricPath VLANs
TABLE_vtp_pruning	(Optional) show VTP pruning VLANs

interface	(Optional) Interface index
vtppruning_vlans	(Optional) VTP Pruning VLANs

Command Mode

- /exec

show interface trunk vsan

show interface <ifid_trnk> trunk vsan [<vsan_id>] [__readonly__ { TABLE_interface_trunk [<interface>] [<oper_state>] [<oper_state_reason>] [<bundle_str>] [TABLE_vsan_info { [<vsan_num>] [<vsan_state>] [<vsan_state_reason>] [<fcid>] }] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifid_trnk	Enter interface type and number in module/slot format
trunk	Show interface trunk information
vsan	Show per vsan information for trunk
vsan_id	(Optional) Enter vsan range
__readonly__	(Optional) Read Only
TABLE_interface_trunk	(Optional) interface trunk table
interface	(Optional) fc interface
oper_state	(Optional) the status of trunking
oper_state_reason	(Optional) reason for operation state
bundle_str	(Optional) bundle string
TABLE_vsan_info	(Optional) vsan information
vsan_num	(Optional) the vsan ID
vsan_state	(Optional) the ststus of vsan
vsan_state_reason	(Optional) reason for vsan state
fcid	(Optional) FCID

Command Mode

- /exec

show interface trunk vsan

show interface trunk vsan [<vsan_id>] [__readonly__ { TABLE_interface_trunk [<interface>] [<oper_state>] [<oper_state_reason>] [<bundle_str>] [TABLE_vsan_info { [<vsan_num>] [<vsan_state>] [<vsan_state_reason>] [<fcid>] }] }]

Syntax Description

show	Show running system information
interface	Show interface status and information
trunk	Show interface trunk information
vsan	Show per vsan information for trunk
vsan_id	(Optional) Enter vsan range
__readonly__	(Optional)
TABLE_interface_trunk	(Optional) interface trunk table
interface	(Optional) fc interface
oper_state	(Optional) the status of trunking
oper_state_reason	(Optional) reason for operation state
bundle_str	(Optional) bundle string
TABLE_vsan_info	(Optional) vsan information
vsan_num	(Optional) the vsan ID
vsan_state	(Optional) the ststus of vsan
vsan_state_reason	(Optional) reason for vsan state
fcid	(Optional) FCID

Command Mode

- /exec

show interface untagged-cos

show interface untagged-cos [module <mod_num>] [__readonly__ TABLE_interface <interface> <ucos-value> [<portmode>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
untagged-cos	Show interface untagged CoS information
module	(Optional) Limit display to interfaces on module
mod_num	(Optional) Enter module number
__readonly__	(Optional)
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
ucos-value	(Optional) COS value
portmode	(Optional) Port mode

Command Mode

- /exec

show interface vlan mapping

show interface <ifindex> vlan mapping [__readonly__ <if-index-id> { TABLE_vlan_xlt <orig-vlan-id> [<inner-vlan-id>] <xlt-vlan-id> } <show-end> [<true-end>]]

Syntax Description

show	Show running system information
interface	Show interface status and information
ifindex	Enter interface type and number in module/slot format
vlan	Show VLAN information
mapping	VLAN translation mapping
__readonly__	(Optional) Read Only
TABLE_vlan_xlt	(Optional) Vlan translation table
if-index-id	(Optional) Interface index id
orig-vlan-id	(Optional) Original Vlan Id
inner-vlan-id	(Optional) Inner Vlan Id
xlt-vlan-id	(Optional) Translated Vlan Id
show-end	(Optional) Show vlan end marker
true-end	(Optional) Show vlan end marker

Command Mode

- /exec

show inventory

show inventory [chassis | fans | power_supply | module [<module>] | <s0> [<santa-cruz-range>] | all] [__readonly__ TABLE_inv <name> <desc> <productid> <vendorid> <serialnum>]

Syntax Description

show	Show running system information
inventory	system inventory information
chassis	(Optional) system inventory chassis information
fans	(Optional) system inventory fan information
power_supply	(Optional) system inventory power supply information
module	(Optional) system inventory module information
module	(Optional) please enter the module number
s0	(Optional) please enter the module number
santa-cruz-range	(Optional) please enter the xbar number
all	(Optional) system and transceiver inventory information
__readonly__	(Optional)
TABLE_inv	(Optional) Inventory table
name	(Optional) Name of inventory
desc	(Optional) Description of inventory
productid	(Optional) Product ID
vendorid	(Optional) Vendor ID
serialnum	(Optional) Serial Number

Command Mode

- /exec

show ip adjacency

show ip adjacency [<interface> [summary] | <ip-addr> [non-best | detail] | detail | summary | non-best | [throttle] statistics] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [<invalid_pkt_cnt>] [<invalid_byte_cnt>] [<global_drop_pkt_cnt>] [<global_drop_byte_cnt>] [<global_punt_pkt_cnt>] [<global_punt_byte_cnt>] [<global_glean_pkt_cnt>] [<global_glean_byte_cnt>] [<glean_pkt_cnt>] [<glean_byte_cnt>] [<normal_pkt_cnt>] [<normal_byte_cnt>] [<last_updated>] [<count-static>] [<count-dynamic>] [<count-others>] [<count-throttle>] [<count-total>] [TABLE_vrf <vrf-name-out> [TABLE_afi <afi> <count> [TABLE_adj [<intf-out>] [<ip-addr-out>] [<phy-intf>] [<mac>] [<pref>] [<owner>] [<pkt-count>] [<byte-count>] [<is-best>] [<is-thrtld>]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
adjacency	Display adjacency table
interface	(Optional) Display specific interface adjacencies only
ip-addr	(Optional) IPV4 source address
detail	(Optional) Show detail information of adjacency entries
summary	(Optional) Show adjacency summary
non-best	(Optional) Show both best/non-best entries
throttle	(Optional) Throttle
statistics	(Optional) Show adjacency statistics
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Show adjacency entries for all vrfs
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
vrf-name-out	(Optional) VRF name
invalid_pkt_cnt	(Optional) Invalid packet count
invalid_byte_cnt	(Optional) Invalid byte count
global_drop_pkt_cnt	(Optional) Global drop packet count
global_drop_byte_cnt	(Optional) Global drop byte count

global_punt_pkt_cnt	(Optional) Global packet punt count
global_punt_byte_cnt	(Optional) Global byte punt count
global_glean_pkt_cnt	(Optional) Global glean packet count
global_glean_byte_cnt	(Optional) Global glean byte count
glean_pkt_cnt	(Optional) Glean packet count
glean_byte_cnt	(Optional) Glean byte count
normal_pkt_cnt	(Optional) Packet count
normal_byte_cnt	(Optional) Byte count
last_updated	(Optional) Last updated
count-static	(Optional) Count static
count-dynamic	(Optional) Count dynamic
count-others	(Optional) Count others
count-throttle	(Optional) Count throttle
count-total	(Optional) Count total
TABLE_afi	(Optional) TABLR afi
afi	(Optional) afi
count	(Optional) count
TABLE_adj	(Optional) Adjacency table
intf-out	(Optional) Interface
phy-intf	(Optional) Physical interface
ip-addr-out	(Optional) IP address
mac	(Optional) MAC address
pref	(Optional) Preference
owner	(Optional) Owner
pkt-count	(Optional) Packet count
byte-count	(Optional) Byte count
is-best	(Optional) Best
is-thrtld	(Optional) Throttled

Command Mode

- /exec

show ip amt relay

show { ip | ipv6 } amt relay [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ TABLE_vrf <vrf> <tut> <ra> <nds> <ldn> <nts> <lrn> <lra> <lq> <uc> <rc4> <rc6>]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
amt	AMT show commands
relay	Display status information about the AMT Relay
__readonly__	(Optional)
TABLE_vrf	(Optional)
tut	(Optional)
ra	(Optional)
vrf	(Optional)
nds	(Optional)
ldn	(Optional)
nts	(Optional)
lrn	(Optional)
lra	(Optional)
lq	(Optional)
uc	(Optional)
rc4	(Optional)
rc6	(Optional)

Command Mode

- /exec

show ip amt route

show { ip | ipv6 } amt route [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ TABLE_vrf <vrf> <rc4> <rc6> { TABLE_route <addrs> <if> <nbr> <gwa> <gw_exp> }]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
vrf	(Optional) Display information for VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
amt	AMT show commands
route	Display multicast routes learned via AMT
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
rc4	(Optional)
rc6	(Optional)
TABLE_route	(Optional)
addrs	(Optional)
if	(Optional)
nbr	(Optional)
gwa	(Optional)
gw_exp	(Optional)

Command Mode

- /exec

show ip amt tunnel

show ip amt tunnel [<address4> <port>] [detail] [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ TABLE_vrf <vrf> <tc4> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route <source> <group> <rexp> } }]

Syntax Description

show	Show running system information
amt	AMT show commands
ip	Display IP information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
address4	(Optional) IP address of tunnel endpoint
port	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
tc4	(Optional)
TABLE_tunnel	(Optional)
gwa	(Optional)
gwp	(Optional)
ut	(Optional)
ld	(Optional)
lr	(Optional)
rc	(Optional)
exp	(Optional)
TABLE_route	(Optional)
source	(Optional)

group	(Optional)
rexp	(Optional)

Command Mode

- /exec

show ip arp

show ip arp [[[<ip-address> | [sync-entries | fhrp-non-active-learn] [detail] | static | summary | [summary] <interface>]] [vrf { <vrf-name> | <vrf-known-name> | all }]] [__readonly__ TABLE_vrf <vrf-name-out> [<cnt-resolved>] [<cnt-incomplete>] [<cnt-thrtld-incomplete>] [<cnt-unknown>] [<cnt-total>] [TABLE_adj <intf-out> <ip-addr-out> [<time-stamp>] { <mac> | <unknown> | <incomplete> } [<phy-intf>] [<flags>]]]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
summary	(Optional) Display ARP adjacency summary
detail	(Optional) Display detailed information
sync-entries	(Optional) Display ARP table learnt only due to arp table sync
fhrp-non-active-learn	(Optional) Display ARP table learnt only due to request for non-active FHRP address
interface	(Optional) ARP interface
ip-address	(Optional) IP address
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
static	(Optional) Display Static ARP entries
__readonly__	(Optional)
TABLE_vrf	(Optional) Show VRF table
vrf-name-out	(Optional) Show VRF name
cnt-resolved	(Optional) Show total resolved ARP entries
cnt-incomplete	(Optional) Show total incomplete ARP entreis
cnt-thrtld-incomplete	(Optional) Show total incomplete throttled entries
cnt-unknown	(Optional) Show total unknow entris
cnt-total	(Optional) Show total

TABLE_adj	(Optional) Show IP ARP
intf-out	(Optional) Show interface
ip-addr-out	(Optional) Show ip address
time-stamp	(Optional) Show age of adjacency
mac	(Optional) Show mac
unknown	(Optional) Show unknown entry
incomplete	(Optional) Show incomplete entry
phy-intf	(Optional) Show physical interface
flags	(Optional) Show flags

Command Mode

- /exec

show ip arp anycast topo-info

show ip arp anycast topo-info [<topo-id>] [__readonly__ { TABLE_ip_arp_anycast_topo_info [<ip_arp_anycat_topo_id>] [<ip_arp_anycast_feature>] [<ip_arp_anycast_mode>] }]

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
anycast	anycast feature info
topo-info	Per topology specific information
topo-id	(Optional) Topology ID (VLAN-ID or BD-ID)
__readonly__	(Optional)
TABLE_ip_arp_anycast_topo_info	(Optional) Show ip arp anycast topo-info
ip_arp_anycat_topo_id	(Optional) Show ARP anycast topo-id
ip_arp_anycast_feature	(Optional) Show ARP anycast feature
ip_arp_anycast_mode	(Optional) Show ARP anycast mode

Command Mode

- /exec

show ip arp client

show ip arp client [__readonly__ { <arp-clients> } [TABLE_arp_client_list { <arp-cli-uuid> <l2-client-type> <client-flg> <mts-addr-sap> <cli-msg-cnt> [<l2-cli-func-name>] [<l2-cli-dbg-func>] [<l2-cli-dbg-un-init-func>] }]]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
client	Display ARP Client table
__readonly__	(Optional)
arp-clients	(Optional) Number of ARP Clients
TABLE_arp_client_list	(Optional) Show ip arp client
arp-cli-uuid	(Optional) Protocol uuid
l2-client-type	(Optional) Client type
client-flg	(Optional) Flags
mts-addr-sap	(Optional) SAP
cli-msg-cnt	(Optional) Client message count
l2-cli-func-name	(Optional) Received function
l2-cli-dbg-func	(Optional) Debug init function
l2-cli-dbg-un-init-func	(Optional) Debug Un-init function

Command Mode

- /exec

show ip arp controller-statistics

show ip arp controller-statistics [__readonly__ { TABLE_ip_arp_controller_statistics [<arp_adj_controller_add_count>] [<arp_adj_controller_del_count>] [<arp_adj_controller_add_err_count>] [<arp_adj_controller_del_err>] }]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
controller-statistics	Controller statistics
__readonly__	(Optional)
TABLE_ip_arp_controller_statistics	(Optional) Show controller-statistics
arp_adj_controller_add_count	(Optional)
arp_adj_controller_del_count	(Optional)
arp_adj_controller_add_err_count	(Optional)
arp_adj_controller_del_err	(Optional)

Command Mode

- /exec

show ip arp esi

show ip arp esi [__readonly__ { TABLE_ip_arp_esi [<ip_arp_esi_interface>] [<ip_arp_esi_value>] }]

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
esi	ESI information
__readonly__	(Optional)
TABLE_ip_arp_esi	(Optional) Show ip arp esi
ip_arp_esi_interface	(Optional) Interface
ip_arp_esi_value	(Optional) Values

Command Mode

- /exec

show ip arp inspection

show ip arp inspection [__readonly__ <src_mac_valid> <dest_mac_valid> <ip_addr_valid> TABLE_entry <active_vlan_id> <is_insp_enabled> <oper_state> [<acl_name>] [[<acl_logging>] <dhcp_logging>] [<req_fwded> <res_fwded> <req_dropped> <res_dropped> <dhcp_drops> <acl_drops> <dhcp_permits> <acl_permits> <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
__readonly__	(Optional) read only
src_mac_valid	(Optional) source ethernet address in header must be same as sender mac address in arp payload
dest_mac_valid	(Optional) destination ethernet address in header must be same as target mac address in arp payload
ip_addr_valid	(Optional) validate the target ip address to filter broadcast/multicast address in arp payload
TABLE_entry	(Optional)
active_vlan_id	(Optional) active vlan id
is_insp_enabled	(Optional)
oper_state	(Optional)
acl_name	(Optional)
acl_logging	(Optional)
dhcp_logging	(Optional)

Command Mode

- /exec

show ip arp inspection interfaces

show ip arp inspection interfaces [<intf1>] [__readonly__ <intf_header> [TABLE_intf <intf2> <trust_state>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
interfaces	Trust status of all interfaces
intf1	(Optional) interface
__readonly__	(Optional)
TABLE_intf	(Optional)
intf_header	(Optional)
intf2	(Optional)
trust_state	(Optional)

Command Mode

- /exec

show ip arp inspection log

show ip arp inspection log [__readonly__ <log_buff_size> <log_rate_entries> <log_rate_interval> [<log_frame>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
log	Log Buffer
__readonly__	(Optional)
log_buff_size	(Optional) number of entries per log buffer
log_rate_entries	(Optional) number of entries into log buffer per sec
log_rate_interval	(Optional) time after which log buffer is updated in sec
log_frame	(Optional) log frames in buffer

Command Mode

- /exec

show ip arp inspection statistics

show ip arp inspection statistics [vlan <vlan-range>] [__readonly__ TABLE_stats <vlanid> <req_fwded> <res_fwded> <req_dropped> <res_dropped> <dhcp_drops> [<acl_drops>] <dhcp_permits> [<acl_permits>] <req_smac_fails> <res_smac_fails> <res_dmac_fails> <req_ip_fails> <res_ip_fails>]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
statistics	Status of ARP Inspection
vlan	(Optional) Selected vlan range
vlan-range	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
__readonly__	(Optional)
TABLE_stats	(Optional)
vlanid	(Optional) ip arp inspection vlan id

Command Mode

- /exec

show ip arp inspection vlan

show ip arp inspection { vlan <vlan-range> } [__readonly__ <src_vlan_mac_valid> <dest_vlan_mac_valid> <ip_vlan_addr_valid> TABLE_vlan <active_vlan_id> <is_insp_enabled> <oper_state> [<dhcp_logging>] [<acl_name>] [<acl_logging>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
arp	IP ARP table
inspection	Status of ARP Inspection
vlan	Selected vlan range
vlan-range	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
__readonly__	(Optional)
src_vlan_mac_valid	(Optional) validates header source mac address with sender mac address in arp payload
dest_vlan_mac_valid	(Optional) validates header destination mac address with target mac address in arp payload
ip_vlan_addr_valid	(Optional) filters invalid ip addresses like multicast/broadcast in arp requests/responses
TABLE_vlan	(Optional)
active_vlan_id	(Optional) active vlan id
is_insp_enabled	(Optional) ip arp inspection on vlan
oper_state	(Optional) operational on vlan
acl_name	(Optional) arp inspection access list name
acl_logging	(Optional) acl logging options
dhcp_logging	(Optional) ip arp inspection dhcp-binding logging options

Command Mode

- /exec

show ip arp l2 statistics interface

show ip arp l2 statistics interface { <interface> | all } [__readonly__ { TABLE_ip_arp_l2_statistics <arp-l2-port-ifname> <arp-l2-port-stats-rx-total> }]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
l2	Display ARP L2 port level info
statistics	Display ARP statistics
interface	ARP interface
interface	ARP interface
all	Display ARP statistics for all interface
__readonly__	(Optional)
TABLE_ip_arp_l2_statistics	(Optional) Show ip arp l2 stats
arp-l2-port-ifname	(Optional) Interface name
arp-l2-port-stats-rx-total	(Optional) L2 port stats rx toal

Command Mode

- /exec

show ip arp multihoming-statistics

show ip arp multihoming-statistics [<interface>] [interface-all] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name-out2> TABLE_stat <ps-recv-add-l2rib> <ps-proc-add-l2rib> <ps-recv-del-l2rib> <ps-proc-del-l2rib> <ps-recv-pc-shut-l2rib> <ps-proc-pc-shut-l2rib> <ps-recv-remote-upd-l2rib> <ps-proc-remote-upd-l2rib> <ps-add-err-invalid-flags> <ps-del-err-invalid-flags> <ps-add-err-invalid-curr-state> <ps-del-err-invalid-curr-state> <ps-del-err-mac-mismatch> <ps-del-err-sec-del> <ps-del-err-tl-route> <tl-del-err-psro-route>]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
multihoming-statistics	Display ARP Multihoming stats
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display ARP Multihoming statistics for all vrfs
interface-all	(Optional) Display ARP Multihoming statistics for all interface
interface	(Optional) ARP interface
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
vrf-name-out2	(Optional) VRF name
TABLE_stat	(Optional) Show ip arp multihoming statistics
ps-recv-add-l2rib	(Optional) Receieved ADD from L2RIB
ps-recv-del-l2rib	(Optional) Receieved DEL from L2RIB
ps-recv-remote-upd-l2rib	(Optional) Receieved remote UPD from L2RIB
ps-recv-pc-shut-l2rib	(Optional) Receieved PC shut from L2RIB
ps-proc-add-l2rib	(Optional) Processed ADD from L2RIB
ps-proc-del-l2rib	(Optional) Processed DEL from L2RIB
ps-proc-remote-upd-l2rib	(Optional) Processed remote UPD from L2RIB
ps-proc-pc-shut-l2rib	(Optional) Processed PC shut from L2RIB

ps-add-err-invalid-flags	(Optional) Multihoming ADD error invalid flag
ps-del-err-invalid-flags	(Optional) Multihoming DEL error invalid flag
ps-add-err-invalid-curr-state	(Optional) Multihoming ADD error invalid current state
ps-del-err-invalid-curr-state	(Optional) Multihoming DEL error invalid current state
ps-del-err-mac-mismatch	(Optional) Peer sync DEL error MAC mismatch
ps-del-err-tl-route	(Optional) Peer sync DEL error second delete
tl-del-err-psro-route	(Optional) True local DEL error deleteing PS RO route
ps-del-err-sec-del	(Optional) Peer sync DEL error second delete

Command Mode

- /exec

show ip arp off-list

show ip arp off-list [{ vlan | bdi } <vlan-id>] [__readonly__ [<offlist-vlan-id> <vlan-adj-cnt>] [<arp-sync-adj-cnt>] { TABLE_arp_vlan_list <adj-vlan-id> <off-adj-ip-addr> <time-stamp> <arp-mac-addr> <off-adj-flags> }]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
off-list	Show adjacencies in off-list arp database
vlan	(Optional) Vlan id
bdi	(Optional) Bridge Domain Name/Id
vlan-id	(Optional) Show information for specified vlan
__readonly__	(Optional)
offlist-vlan-id	(Optional) Show ip arp offlist vlan-id
vlan-adj-cnt	(Optional) Show ip arp vlan adjacency count
arp-sync-adj-cnt	(Optional) Show arp sync adjacency count
TABLE_arp_vlan_list	(Optional) Show ip arp vlan list
adj-vlan-id	(Optional) Show ip arp adjacency vlan id
off-adj-ip-addr	(Optional) Show arp offlist adjacency ip address
time-stamp	(Optional) Show duration
arp-mac-addr	(Optional) Show mac address
off-adj-flags	(Optional) show offlist adjacencyy flgs

Command Mode

- /exec

show ip arp open-flow error-statistics

show ip arp open-flow error-statistics [__readonly__ <arp_ofa_total_err_cnt> <arp_ofa_dp_adj_err_on_del> <arp_ofa_cp_mac_mismatch_err_on_del> <arp_ofa_cp_null_mac_err_on_del> <arp_ofa_cp_no_adj_err_on_del_flag> <arp_ofa_cp_cp_nh_mismatch_err_on_del> <arp_ofa_cp_adj_del_failure_err> <arp_ofa_cp_null_mac_err_on_add> <arp_ofa_cp_dp_mac_mismatch_err_on_add> <arp_ofa_cp_cp_mac_mismatch_err_on_add> <arp_ofa_cp_added_first_err> <arp_ofa_dp_overwrite_cp_err> <arp_ofa_dp_cp_nh_mismatch_err_on_add> <arp_ofa_cp_cp_nh_mismatch_err_on_add> <arp_ofa_cp_dp_nh_mismatch_err_on_add> <arp_ofa_cp_adj_add_failure_err> <arp_ofa_peer_ip_lookup_rec_phy_iod_err> <arp_ofa_peer_ip_ipv6_rec_phy_iod_err> <arp_ofa_peer_ip_lookup_adj_phy_iod_err> <arp_ofa_peer_ip_ipv6_adj_phy_iod_err> <arp_ofa_barrier_response_err>]

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
open-flow	open flow
error-statistics	IR mode specific adjacency statistics
__readonly__	(Optional)
arp_ofa_total_err_cnt	(Optional) OFA total error count
arp_ofa_dp_adj_err_on_del	(Optional) Controller Deleting DP adjacency error
arp_ofa_cp_mac_mismatch_err_on_del	(Optional) CP adjacency MAC mismatch error while delete
arp_ofa_cp_null_mac_err_on_del	(Optional) CP adjacency NULL mac error while delete
arp_ofa_cp_no_adj_err_on_del_flag	(Optional) No adjacency found while delete
arp_ofa_cp_cp_nh_mismatch_err_on_del	(Optional) CP adjacency NH mismatch error while delete
arp_ofa_cp_adj_del_failure_err	(Optional) Other errors while deleting
arp_ofa_cp_null_mac_err_on_add	(Optional) CP adjacency NULL mac error while Adding
arp_ofa_cp_dp_mac_mismatch_err_on_add	(Optional) DP adjacency present with different mac
arp_ofa_cp_cp_mac_mismatch_err_on_add	(Optional) CP adjacency present with different mac
arp_ofa_cp_added_first_err	(Optional) CP adjacency added first
arp_ofa_dp_overwrite_cp_err	(Optional) Overwriting CP adjacency with DP
arp_ofa_dp_cp_nh_mismatch_err_on_add	(Optional) DP adjacency already present with different NH
arp_ofa_cp_cp_nh_mismatch_err_on_add	(Optional) CP adjacency already present with different NH

arp_ofa_cp_dp_nh_mismatch_err_on_add	(Optional) Overwriting CP adj with DP with different NH
arp_ofa_cp_adj_add_failure_err	(Optional) Other errors while adding
arp_ofa_peer_ip_lookup_rec_phy_iod_err	(Optional) Peer IP lookup for received physical iod
arp_ofa_peer_ip_ipv6_rec_phy_iod_err	(Optional) Peer is IPv6 for received physical iod
arp_ofa_peer_ip_lookup_adj_phy_iod_err	(Optional) Peer IP lookup for adjacency physical iod
arp_ofa_peer_ip_ipv6_adj_phy_iod_err	(Optional) Peer is IPv6 for adjacecny physical iod
arp_ofa_barrier_response_err	(Optional) Barrier responses

Command Mode

- /exec

show ip arp statistics

show ip arp statistics [<interface>] [interface-all] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name-out1> [TABLE_stat <tx-total> <tx-req> <tx-reply> <tx-req-l2> <tx-reply-l2> <tx-grat> <tx-tunnel> <tx-drop> [<tx-srvrport>] [<tx-fbrcport>] [<tx-fixup-core>] [<tx-fixup-server>] [<tx-fixup-rarp>] [<tx-anycast-glean>] <tx-mbuf-fail> <tx-ctxt-not-crtd> <tx-bad-ctxt-id> <tx-invalid-ifindex> <tx-invalid-sip> <tx-invalid-dip> <tx-own-ip> <tx-unattached-ip> <tx-adj-create-fail> <tx-null-sip> <tx-null-smac> <tx-client-enq-fail> <tx-dest-unreachable-proxy-arp> <tx-dest-unreachable-enhanced-proxy> <tx-dest-l2port-track> <tx-invalid-local-proxy> <tx-invalid-proxy> <tx-vip-not-active> <tx-skip-refresh-over-core-and-flood-to-server> <rx-total> <rx-req> <rx-reply> <rx-req-l2> <rx-reply-l2> <rx-proxy> <rx-local-proxy> <rx-enhanced-proxy> <rx-enhanced-proxy-anycast> <rx-enhanced-proxy-l2port-track> <rx-tunnel> <rx-fastpath> <rx-snoop> <rx-drop> <rx-srvrport> <bad-if> <bad-len> <invalid-prot> <invalid-hrd-type> <invalid-ctxt> <ctxt-not-crtd> <invalid-l2> <invalid-l3> <invalid-sip> <our-sip> <arp-if-no-mem> <subnet-mismatch> <dir-bcast> <invalid-dip> <non-local-dst> <non-active-fhrp> <invalid-smac> <our-smac> <not-init> <l2-prxy-en> <l2-port-untrusted> <stdby-fhrp-vip> <grat-prxy-en> <arp-req-ignore> <l2-intf> <l2fm-query-fail> <tunnel_fail> [<hsrp-active-vmac>] [<rx-intf-down>] <recv-glean-count> <refresh-req-from-clients> <l2rib-signals> <adds> <dels> <timeouts>]]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
statistics	Display ARP statistics
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display ARP statistics for all vrfs
interface-all	(Optional) Display ARP statistics for all interface
interface	(Optional) ARP interface
__readonly__	(Optional)
TABLE_vrf	(Optional) Table Vrf
vrf-name-out1	(Optional) Show VRF name
TABLE_stat	(Optional) Show IP ARP statistics
tx-total	(Optional) Sent: total
tx-req	(Optional) Sent: request
tx-reply	(Optional) Sent: reply

tx-req-l2	(Optional) Sent: request on L2
tx-reply-l2	(Optional) Sent: replay on L2
tx-grat	(Optional) Sent: gratuitous
tx-tunnel	(Optional) Sent: tunnel packet
tx-drop	(Optional) Sent:Dropped packet
tx-srvrport	(Optional) Sent from Server Port
tx-fbrcport	(Optional) Sent from Fabric Port
tx-fixup-core	(Optional) Sent: fixup core
tx-fixup-server	(Optional) Sent: fixup server
tx-fixup-rarp	(Optional) Sent: fixup rarp
tx-anycast-glean	(Optional) Sent: modified anycast glean
tx-mbuf-fail	(Optional) Sent:MBUF operation failed
tx-ctxt-not-crtd	(Optional) Sent:Context not yet created
tx-bad-ctxt-id	(Optional) Sent:Invalid context
tx-invalid-ifindex	(Optional) Sent:Invalid ifindex
tx-invalid-sip	(Optional) Sent:Invalid SRC IP
tx-invalid-dip	(Optional) Sent:Invalid DEST IP
tx-own-ip	(Optional) Sent:Destination is our own IP
tx-unattached-ip	(Optional) Sent:Unattached IP
tx-adj-create-fail	(Optional) Sent:Adjacency Couldn't be added
tx-null-sip	(Optional) Sent:Null Source IP
tx-null-smac	(Optional) Sent: Null Source MAC
tx-client-enq-fail	(Optional) Sent: Client Enqueue Failed
tx-dest-unreachable-proxy-arp	(Optional) Sent: Dest. not reachable for proxy arp
tx-dest-unreachable-enhanced-proxy	(Optional) Sent:Dest. unreachable for enhanced proxy
tx-dest-l2port-track	(Optional) Sent:Dest. on L2 port being tracked
tx-invalid-local-proxy	(Optional) Sent:Invalid Local proxy arp
tx-invalid-proxy	(Optional) Sent:Invalid proxy arp
tx-vip-not-active	(Optional) Sent:VIP is not active

tx-skip-refresh-over-core-and-flood-to-server	(Optional) ARP refresh skipped over core and sent on server side
rx-total	(Optional) Received: total
rx-req	(Optional) Received: Requests
rx-reply	(Optional) Received: Replies
rx-req-l2	(Optional) Received: Requests on L2
rx-reply-l2	(Optional) Received: Replies on L2
rx-proxy	(Optional) Received: Proxy arp
rx-local-proxy	(Optional) Received: Local-Proxy arp
rx-enhanced-proxy	(Optional) Received: Enhanced Proxy arp
rx-enhanced-proxy-anycast	(Optional) Received: Anycast proxy Proxy arp
rx-enhanced-proxy-l2port-track	(Optional) Received: L2 Port-track Proxy arp
rx-tunnel	(Optional) Received: Tunneled
rx-fastpath	(Optional) Received: Fastpath
rx-snoop	(Optional) Received: Snooped
rx-drop	(Optional) Received: Dropped
rx-srvrport	(Optional) Received: on Server Port
bad-if	(Optional) Appeared on a wrong interface
bad-len	(Optional) Incorrect length
invalid-prot	(Optional) Invalid protocol packet
invalid-hrd-type	(Optional) Invalid Hardware type
invalid-ctxt	(Optional) Invalid context
ctxt-not-crtd	(Optional) Context not yet created
invalid-l2	(Optional) Invalid layer 2 address length
invalid-l3	(Optional) Invalid layer 3 address length
invalid-sip	(Optional) Invalid source IP address
our-sip	(Optional) Source IP address is our own
arp-if-no-mem	(Optional) No mem to create per intf structure
subnet-mismatch	(Optional) Source address mismatch with subnet
dir-bcast	(Optional) Directed broadcast source

invalid-dip	(Optional) Invalid destination IP address
non-local-dst	(Optional) Non-local destination IP address
non-active-fhrp	(Optional) Non-active FHRP dest IP address. Learn and drop
invalid-smac	(Optional) Invalid source MAC address
our-smac	(Optional) Source MAC address is our own
not-init	(Optional) Received before arp initialization
l2-prxy-en	(Optional) L2 packet on proxy-arp-enabled interface
l2-port-untrusted	(Optional) L2 packet on untrusted L2 port
stdby-fhrp-vip	(Optional) Packet with VIP on standby FHRP
grat-prxy-en	(Optional) Grat arp received on proxy-arp-enabled interface
arp-req-ignore	(Optional) Requests came for exising entries
l2-intf	(Optional) Requests came on a L2 interface
l2fm-query-fail	(Optional) L2FM query failed for a L2 Address
tunnel_fail	(Optional) Dropping due to tunneling failures
hsrp-active-vmac	(Optional) Dropping due to HSRP standby receiving HSRP active vmac
rx-intf-down	(Optional) Received Interface Down
recv-glean-count	(Optional) Glean requests recv count
refresh-req-from-clients	(Optional) Refresh requests received from clients
l2rib-signals	(Optional) Signals received from L2rib
adds	(Optional) Adds
dels	(Optional) Deletes
timeouts	(Optional) Timeouts

Command Mode

- /exec

show ip arp suppression-cache

show ip arp suppression-cache { detail [vlan <vlan_id>] | summary | statistics | vlan <vlan_id> | local [vlan <vlan_id>] | remote [vlan <vlan_id>] } [__readonly__ TABLE_arp-suppression [TABLE_entries <ip-addr> <age> <mac> <vlan> <physical-iod> <flag> [<remote-vtep-addr> | <remote-vtep-v6addr>]] [TABLE_summary <remote-count> <local-count> <total-count>] [TABLE_stats TABLE_suppressed <total> <requests> <requests-on-l2> <gratuitous> <gratuitous-on-l2> TABLE_forwarded <total-sent> <requests-sent> <replies-sent> <requests-on-core-sent> <replies-on-core-sent> <dropped-sent> <requests-on-l2-sent> <replies-on-l2-sent> <requests-on-core-l2-sent> <replies-on-core-l2-sent> <dropped-l2-sent> TABLE_received <total-recv> <requests-recv> <replies-recv> <local-requests-recv> <local-replies-recv> <gratuitous-recv> <dropped-recv> <requests-on-l2-recv> <replies-on-l2-recv> <gratuitous-l2-recv> <dropped-l2-recv> TABLE_entrystats <adds> <dels>]]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
suppression-cache	arp-suppression-cache
detail	show details
summary	show summary
statistics	show statistics
local	show local entries
remote	show remote entries
vlan	(Optional) L2vlan
vlan_id	(Optional) Vlan
__readonly__	(Optional)
TABLE_arp-suppression	(Optional) IP ARP suppression-cache
TABLE_entries	(Optional) IP ARP suppression entries
ip-addr	(Optional) IP address
age	(Optional) Age
mac	(Optional) MAC address
vlan	(Optional) vlan id
physical-iod	(Optional) Physical iod
flag	(Optional) Flags

remote-vtep-addr	(Optional) Remote Vtep Address
TABLE_summary	(Optional) IP ARP suppression-cache Summary
remote-count	(Optional) Remote count
local-count	(Optional) Local count
total-count	(Optional) Total count
TABLE_stats	(Optional) Show IP ARP suppression statistics
TABLE_suppressed	(Optional) Suppressed table
total	(Optional) total
requests	(Optional) request
requests-on-l2	(Optional) requests-on-l2
gratuitous	(Optional) gratuitous
gratuitous-on-l2	(Optional) gratuitous-on-l2
TABLE_forwarded	(Optional) Forwarded table
total-sent	(Optional) total
requests-sent	(Optional) Requests sent on L3
replies-sent	(Optional) Replies sent on L3
requests-on-core-sent	(Optional) Request on core port
replies-on-core-sent	(Optional) Reply on core port
dropped-sent	(Optional) Dropped
requests-on-l2-sent	(Optional) Requests on L2
replies-on-l2-sent	(Optional) Replies on L2
requests-on-core-l2-sent	(Optional) Request on core port L2
replies-on-core-l2-sent	(Optional) Reply on core port L2
dropped-l2-sent	(Optional) Dropped on L2
TABLE_received	(Optional) Received
total-recv	(Optional) Total
requests-recv	(Optional) Requests on L3 mode
replies-recv	(Optional) Replies on L3 mode
local-requests-recv	(Optional) Local Request

local-replies-recv	(Optional) Local Responses
gratuitous-recv	(Optional) Gratuitous on L3 mode
dropped-recv	(Optional) Dropped on L3 mode
requests-on-l2-recv	(Optional) Requests on L2 mode
replies-on-l2-recv	(Optional) Replies on L2 mode
gratuitous-l2-recv	(Optional) Gratuitous on L2 mode
dropped-l2-recv	(Optional) Dropped on L2 mode
TABLE_entrystats	(Optional) ARP suppression-cache Local entry statistics
adds	(Optional) Adds
dels	(Optional) Deletes

Command Mode

- /exec

show ip arp suppression topo-info

show ip arp suppression topo-info [<topo-id>] [__readonly__ { TABLE_ip_arp_suppression_topo_info [<ip_arp_suppression_topo_id>] [<ip_arp_suppression_mode>] [<ip_arp_suppression_hmm_mode>] }]

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
suppression	ARP-suppression based event
topo-info	E-VPN identifier
topo-id	(Optional) E-VPN identifier (VLAN-ID or BD-ID)
__readonly__	(Optional)
TABLE_ip_arp_suppression_topo_info	(Optional) Show suppression topo-info
ip_arp_suppression_topo_id	(Optional) Show ARP suppression topo_id
ip_arp_suppression_mode	(Optional) Show ARP suppression mode
ip_arp_suppression_hmm_mode	(Optional) Show ARP suppression hmm mode

Command Mode

- /exec

show ip arp tunnel-statistics

show ip arp tunnel-statistics [__readonly__ { TABLE_ip_arp_tunnel_stat [<arp-tun-pkt-rcv-cnt>] [<arp-tun-pkt-rcv-ing-vpc>] [<arp-tun-pkt-rcv-ing-gpc>] [<arp-tun-pkt-rcv-ing-orp-vpc>] [<arp-tun-pkt-rcv-ing-orp-vpc-pl>] [<arp-tun-pkt-snd-cnt>] [<arp-tun-pkt-snd-snoop-cnt>] [<arp-tun-pkt-snd-non-local-vip-cnt>] [<arp-tun-pkt-snd-peer-gate-cnt>] [<arp-tun-pkt-snd-ing-vpc>] [<arp-tun-pkt-snd-ing-gpc>] [<arp-tun-pkt-snd-ing-orp-vpc>] [<arp-tun-pkt-snd-ing-orp-vpc-pl>] [<arp-tun-pkt-rcv-drp-cnt>] [<arp-tun-pkt-snd-drp-cnt>] [<arp-tun-pkt-snd-drp-snd-fail-cnt>] [<arp-tun-pkt-rcv-drp-ver-cnt>] [<arp-tun-pkt-rcv-drp-pl-cnt>] [<arp-tun-pkt-rcv-drp-ing-non-mct>] [<arp-tun-pkt-rcv-drp-inv-ing-intf>] [<arp-tun-pkt-snd-drp-inv-ing-intf>] [<arp-tun-pkt-rcvdrp-inv-gpc-core-sw>] [<arp-tun-pkt-rcvdrp-inv-gpc-peer-sw>] [<arp-tun-pkt-drp-inv-mcec>] [<arp-tun-pkt-im-api-fail>] [<arp-tun-pkt-drp-ctxt-inv>] [<arp-tun-pkt-drp-mct-dwn>] [<arp-tun-pkt-rcv-drp-mbuf-op-fail>] [<arp-tun-pkt-snd-drp-mbuf-op-fail>] [<arp-tun-pkt-snd-drp-tunnel>] [<arp-tun-pkt-snd-drp-ce>] [<arp-tun-pkt-snd-drp-inv-gpc>] [<arp-tun-pkt-rcv-drp-inv-gpc>] [<arp-tun-pkt-sys-mcecm-key-not-found>] }]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
tunnel-statistics	Display ARP statistics for tunneled packets
__readonly__	(Optional)
TABLE_ip_arp_tunnel_stat	(Optional) ARP Tunnel statistics
arp-tun-pkt-rcv-cnt	(Optional) Total tunneled packets received
arp-tun-pkt-rcv-ing-vpc	(Optional) Tunneled packets rx for ingress vPC
arp-tun-pkt-rcv-ing-gpc	(Optional) Tunneled packets rx for ingress GPC
arp-tun-pkt-rcv-ing-orp-vpc	(Optional) Tunneled Packets rx for ingress orphan vPC
arp-tun-pkt-rcv-ing-orp-vpc-pl	(Optional) Tunneled Packets rx for ingress orphan vPC+
arp-tun-pkt-snd-cnt	(Optional) Total tunneled packets sent
arp-tun-pkt-snd-snoop-cnt	(Optional) Tunneled packets Sent for ARP Snoop
arp-tun-pkt-snd-non-local-vip-cnt	(Optional) Tunneled packets sent for Non-Local VIP
arp-tun-pkt-snd-peer-gate-cnt	(Optional) Tunneled Packets sent for Peer Gateway
arp-tun-pkt-snd-ing-vpc	(Optional) Tunneled packets tx for ingress vPC
arp-tun-pkt-snd-ing-gpc	(Optional) Tunneled packets tx for ingress GPC
arp-tun-pkt-snd-ing-orp-vpc	(Optional) Tunneled Packets tx for ingress orphan vPC

arp-tun-pkt-snd-ing-orp-vpc-pl	(Optional) Tunneled Packets tx for ingress orphan vPC+
arp-tun-pkt-rcv-drp-cnt	(Optional) Total tunnel packets recv dropped
arp-tun-pkt-snd-drp-cnt	(Optional) Total tunnel packets send dropped
arp-tun-pkt-snd-drp-snd-fail-cnt	(Optional) Drops due to send failed
arp-tun-pkt-rcv-drp-ver-cnt	(Optional) Received packet with invalid version
arp-tun-pkt-rcv-drp-pl-cnt	(Optional) Received packet with invalid payload type
arp-tun-pkt-rcv-drp-ing-non-mct	(Optional) Received packet on non mct interface
arp-tun-pkt-rcv-drp-inv-ing-intf	(Optional) Received packet with invalid ingress port
arp-tun-pkt-snd-drp-inv-ing-intf	(Optional) Drop send packets for invalid ingress port
arp-tun-pkt-rcvdrp-inv-gpc-core-sw	(Optional) Drop recv pkt, invalid GPC of core switch
arp-tun-pkt-rcvdrp-inv-gpc-peer-sw	(Optional) Drop recv pkt, invalid GPC of peer switch
arp-tun-pkt-drp-inv-mcec	(Optional) Failed to retrieve vPC ID while processing
arp-tun-pkt-im-api-fail	(Optional) IM api failed while processing
arp-tun-pkt-drp-ctxt-inv	(Optional) Drop tunnel packet as context is invalid
arp-tun-pkt-drp-mct-dwn	(Optional) Drop tunnel packet as mct is down
arp-tun-pkt-rcv-drp-mbuf-op-fail	(Optional) Drop recv packets as mbuf operation failed
arp-tun-pkt-snd-drp-mbuf-op-fail	(Optional) Drop send packets as mbuf operation failed
arp-tun-pkt-snd-drp-tunnel	(Optional) Cannot tunnel a incoming tunneled packet
arp-tun-pkt-snd-drp-ce	(Optional) Cannot tunnel in a CE network
arp-tun-pkt-snd-drp-inv-gpc	(Optional) Drop send pkt, failed in retrieving the GPC
arp-tun-pkt-rcv-drp-inv-gpc	(Optional) Drop recv pkt, failed in retrieving the GPC
arp-tun-pkt-sys-mcecm-key-not-found	(Optional) MCEC_ID to PHY_IF_INDEX not found in DB

Command Mode

- /exec

show ip arp vpc-statistics

show ip arp vpc-statistics [__readonly__ { TABLE_arp_vpc_stats [<arp-pro-drp-pull-disable>] [<arp-pro-drp-push-msg-disable>] [<arp-pro-ign-snd-pull-disabe>] [<arp-ign-snd-push-disable>] [<arp-drp-im-fail>] [<arp-drp-mcecm-fail>] [<arp-drp-invalid-pc-iod>] [<arp-drp-pt-lookup-fail>] [<arp-drp-resp-fail-no-mct>] [<arp-drp-resp-fail>] [<arp-mcecm-ifidx-vpc-fail>] [<arp-mcecm-vpc-ifidx-fail>] [<arp-periodic-mcecm-ifidx-vpc-fail>] [<arp-resp-sent>] [<arp-resp-recvd>] [<arp-resp-recv-err>] [<arp-rcvd-msg>] [<arp-send-fail>] [<arp-cfs-rel-dlvry-fail>] [<arp-cfs-rel-dnvry-suc>] [<arp-pkt-vmct-drop-count>] [<arp-drp-pt-add-fail>] [<arp-drp-no-mem>] [<arp-drp-tmr-cre-fail>] [<arp-drp-add-adj-fail>] [<arp-off-drp-pt-lookup-fail>] [<arp-dont-drp-vlan-mismat>] [<arp-drp-svi-invalid>] [<arp-dont-drop-sv-down>] [<arp-drp-mct-down>] [<arp-drp-ctxt-invalid>] [<arp-drp-vrf-invalid>] [<arp-drp-l3addr-invalid>] [<arp-drp-l3addr-sanity-fail>] [<arp-drp-mac-sanity-fail>] [<arp-own-rtr-mac>] [<arp-drp-own-ipaddr>] [<arp-drp-own-vipadd>] [<arp-drp-adj-fail>] [<arp-drp-subnet-mismatch>] [<arp-drp-adj-exist>] [<arp-dont-drp-ip-not-enable>] [<arp-drp-total-cnt>] [<arp-dont-drop-total-cnt>] [<arp-drp-inval-phy-iod>] [<arp-add-adj>] [<arp-del-adj>] [<arp-adj-already-exist>] [<arp-sync-recv-op-add-adj>] [<arp-sync-recv-op-del-adj>] [<arp-sync-push-msg-adj-cnt>] [<arp-sync-send-op-add-adj>] [<arp-sync-send-op-del-adj>] [<arp-sync-adj-cnt>] [<arp-sync-addadj-fail>] [<arp-sync-drp-svi-inv>] [<arp-sync-drp-svi-dwn>] [<arp-sync-drp-ctxt-inv>] [<arp-sync-null-adj>] [<arp-sync-invalid-ip>] [<arp-periodic-sync-adj-l2-supp-cnt>] [<arp-periodic-sync-stop-bcast-pkt-sync-count>] [<arp-periodic-sync-vmct-stop-orphan-sync-count>] }]

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vpc-statistics	Show vPC global statistics
__readonly__	(Optional)
TABLE_arp_vpc_stats	(Optional) Arp Vpc statistics
arp-mcecm-ifidx-vpc-fail	(Optional) Unable to retrieve VPC id from ifidx
arp-mcecm-vpc-ifidx-fail	(Optional) Unable to retrieve ifidx from VPC id
arp-periodic-mcecm-ifidx-vpc-fail	(Optional) Unable to retrieve ifidx from VPC id during periodic sync
arp-sync-recv-op-add-adj	(Optional) Total adjacencies recieved from peer to add
arp-sync-recv-op-del-adj	(Optional) Total adjacencies received from peer to delete
arp-sync-push-msg-adj-cnt	(Optional) Total gross adjacencies sent periodically
arp-sync-send-op-add-adj	(Optional) Total adjacencies sent to peer to add
arp-sync-send-op-del-adj	(Optional) Total adjacencies sent to peer to delete
arp-sync-adj-cnt	(Optional) Total periodic sync adjacencies

arp-sync-addadj-fail	(Optional) Failure in adding adjacencies while periodic sync send
arp-sync-drp-svi-inv	(Optional) Total drops during periodic sync because of invalid svi
arp-sync-drp-svi-dwn	(Optional) Total drops during periodic sync because of svi down
arp-sync-drp-ctxt-inv	(Optional) Total drops during periodic sync because of invalid context
arp-sync-null-adj	(Optional) Total drops while processsing syne of NULL Adjacencies
arp-sync-invalid-ip	(Optional) Total drops while processing sync because of NULL IP
arp-periodic-sync-adj-l2-supp-cnt	(Optional) Total periodic sync adjacenciesadded for L2 suppression case
arp-periodic-sync-stop-bcast-pkt-sync-count	(Optional) Total Bcast packets that was stopped sync to peer
arp-pro-drp-pull-disable	(Optional) Drop the received CFS pull request
arp-pro-drp-push-msg-disable	(Optional) Drop the received CFS push message
arp-pro-ign-snd-pull-disabe	(Optional) Ignore to send pull request using CFSoE
arp-ign-snd-push-disable	(Optional) Ignore to send push message using CFSoE
arp-drp-im-fail	(Optional) IM api failed while processing CFS payload
arp-drp-mcecm-fail	(Optional) MCECM api failed while processing CFS payload
arp-drp-invalid-pc-iod	(Optional) Invalid MCT port-channel iod
arp-drp-pt-lookup-fail	(Optional) PT lookup failed while processing CFS payload
arp-drp-resp-fail-no-mct	(Optional) Sending CFS response failed due to invalid MCT iod
arp-drp-resp-fail	(Optional) Sending CFS response failed
arp-resp-sent	(Optional) Response sent via CFSoE
arp-resp-recvd	(Optional) Response received via CFSoE
arp-resp-recv-err	(Optional) Response received via CFSoE with errors
arp-rcvd-msg	(Optional) Received message via CFSoE
arp-send-fail	(Optional) Send message failed via CFSoE
arp-cfs-rel-dlvry-fail	(Optional) MCECM send api failed via CFSoE
arp-cfs-rel-dnvry-suc	(Optional) Send message succeeded via CFSoE
arp-drp-pt-add-fail	(Optional) PT add failed while processing offlist
arp-drp-no-mem	(Optional) Memory alloc failed while processing offlist databse
arp-drp-tmr-cre-fail	(Optional) Timer create failed while processing offlist database

arp-drp-add-adj-fail	(Optional) Adjacency addition failed while processing offlist database
arp-off-drp-pt-lookup-fail	(Optional) PT lookup failed while processing offlist database
arp-dont-drp-vlan-mismat	(Optional) VLAN mismatch while processing offlist database
arp-drp-svi-invalid	(Optional) SVI is invalid while processing offlist database
arp-dont-drop-sv-down	(Optional) SVI is down while processing offlist database
arp-drp-mct-down	(Optional) MCT is down while processing offlist database
arp-drp-ctxt-invalid	(Optional) Ctxt_type is invalid while processing offlist database
arp-drp-vrf-invalid	(Optional) VRF is invalid while processing offlist database
arp-drp-l3addr-invalid	(Optional) VRF is invalid while processing offlist database
arp-drp-l3addr-sanity-fail	(Optional) IP address sanity failed
arp-drp-mac-sanity-fail	(Optional) MAC address sanity failed
arp-own-rtr-mac	(Optional) Our own router mac
arp-drp-own-ipaddr	(Optional) Our own ip address
arp-drp-own-vipadd	(Optional) Our own virtual ip address
arp-drp-adj-fail	(Optional) Create adjacency failed
arp-drp-subnet-mismatch	(Optional) Subnet mismatch
arp-drp-adj-exist	(Optional) Entry exists
arp-dont-drp-ip-not-enable	(Optional) IP not enabled on interface
arp-drp-inval-phy-iod	(Optional) Physical interface invalid
arp-drp-total-cnt	(Optional) Total drop count
arp-dont-drop-total-cnt	(Optional) Total don't drop count
arp-add-adj	(Optional) Total adjacency additions
arp-del-adj	(Optional) Total adjacency deletions
arp-adj-already-exist	(Optional) Total adjacencies ignored as already exist
arp-pkt-vmct-drop-count	(Optional) Total virtual-mct packets dropped
arp-periodic-sync-vmct-stop-orphan-sync-count	(Optional) Total virtual-mct orphan hosts that was stopped syncing to peer

Command Mode

- /exec

show ip as-path-access-list

show ip as-path-access-list [<aspl-name> | <aspl-cfg-name>] [__readonly__ TABLE_aspl <name> <seq> <action> <rule>]

Syntax Description

show	Show running system information
ip	Display IP information
as-path-access-list	List AS path access lists
aspl-name	(Optional) AS path access list name
aspl-cfg-name	(Optional) Known as-path access-list name
__readonly__	(Optional)
TABLE_aspl	(Optional)
name	(Optional)
seq	(Optional)
action	(Optional)
rule	(Optional)

Command Mode

- /exec

show ip client

show ip client [<client-name>] [__readonly__ [TABLE_ip_clnt [TABLE_clnt { <clnt-name> <clnt-uuid> <clnt-pid> <clnt-ext-pid> [<clnt-proto>] <clnt-ind> <clnt-cntxt-id> <clnt-mts-sap> <clnt-flg> <clnt-msg-succ-cnt> <clnt-msg-fail-cnt> [<clnt-recv-fn-name> <clnt-recv-fn>] }]]]

Syntax Description

show	Show running system information
ip	Display IP information
client	Display clients registered with the IP process
client-name	(Optional) Display information for a single IP client
__readonly__	(Optional)
TABLE_ip_clnt	(Optional)
TABLE_clnt	(Optional)
clnt-name	(Optional)
clnt-uuid	(Optional)
clnt-pid	(Optional)
clnt-ext-pid	(Optional)
clnt-proto	(Optional)
clnt-ind	(Optional)
clnt-cntxt-id	(Optional)
clnt-mts-sap	(Optional)
clnt-flg	(Optional)
clnt-msg-succ-cnt	(Optional)
clnt-msg-fail-cnt	(Optional)
clnt-recv-fn-name	(Optional)
clnt-recv-fn	(Optional)

Command Mode

- /exec

show ip community-list

show ip community-list [<cl_name>] [__readonly__ TABLE_cl <name> <seq> <action> <rule>]

Syntax Description

show	Show running system information
ip	Display IP information
community-list	List community-list
cl_name	(Optional) Standard or expanded community-list name
__readonly__	(Optional)
TABLE_cl	(Optional)
name	(Optional)
seq	(Optional)
action	(Optional)
rule	(Optional)

Command Mode

- /exec

show ip debug

show ip debug

Syntax Description

show	Show running system information
ip	Display IP information
debug	Display IP debug-filter configuration

Command Mode

- /exec

show ip dhcp global statistics

show ip dhcp global statistics [__readonly__ <pkts_processed> <pkts_recvd_through_cfsoe> <pkts_fwded> <pkts_cfsoe_fwded> <pkts_dropped> <pkts_dropped_from_untrusted_ports> <pkts_dropped_src_mac_chk_fail> <pkts_dropped_opt82_ins_fail> <pkts_dropped_unknown_op_intf> <pkts_dropped_unknown_pkt> <pkts_dropped_no_trust_inf> <pkts_dropped_relay_disable> <pkts_dropped_no_binding_entry> <pkts_dropped_interface_error> <pkts_dropped_max_hops_exceeded> <pkts_dropped_queue_full>]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
global	DHCP global stats
statistics	Statistics related to DHCP
__readonly__	(Optional) Read only
pkts_processed	(Optional) Packets processed
pkts_recvd_through_cfsoe	(Optional) Packets received through cfsoe
pkts_fwded	(Optional) Packets forwarded
pkts_cfsoe_fwded	(Optional) Packets forwarded on cfsoe
pkts_dropped	(Optional) Total packets dropped
pkts_dropped_from_untrusted_ports	(Optional) Packets dropped from untrusted ports
pkts_dropped_src_mac_chk_fail	(Optional) Packets dropped due to MAC address check failure
pkts_dropped_opt82_ins_fail	(Optional) Packets dropped due to Option 82 insertion failure
pkts_dropped_unknown_op_intf	(Optional) Packets dropped due to o/p intf unknown
pkts_dropped_unknown_pkt	(Optional) Packets dropped which were unknown
pkts_dropped_no_trust_inf	(Optional) Packets dropped due to no trusted ports
pkts_dropped_relay_disable	(Optional) Packets dropped due to dhcp relay not enabled
pkts_dropped_no_binding_entry	(Optional) Packets dropped due to no binding entry
pkts_dropped_interface_error	(Optional) Packets dropped due to interface error/no interface
pkts_dropped_max_hops_exceeded	(Optional) Packets dropped due to max hops exceeded
pkts_dropped_queue_full	(Optional) Packets dropped due to queue full

Command Mode

- /exec

show ip dhcp option82 suboption info interface

show ip dhcp option82 suboption info interface [<intf>] [__readonly__ <intf_header> { TABLE_intf_option82 <intf_name> <option82_status> <suboption_string> <tx_count> }]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
option82	DHCP option82
suboption	DHCP option82 suboption
info	DHCP option82 suboption information
interface	DHCP option82 suboption information of all interfaces
intf	(Optional) interface
__readonly__	(Optional) Read only
intf_header	(Optional)
TABLE_intf_option82	(Optional)
intf_name	(Optional)
option82_status	(Optional)
suboption_string	(Optional)
tx_count	(Optional)

Command Mode

- /exec

show ip dhcp relay

show ip dhcp relay [__readonly__ <relay_service_enable> <relay_opt82_enable> <relay_opt82_customize> <relay_subopt_VPN_enable> <relay_subopt_type_cisco_enable> <global_smart-relay_enable> <global_relay_trusted_enable> <relay_trusted_port_enable> <global_src_addr_hsrp_enable> <smart_relay_intfs_hdr> [TABLE_intf <smart_relay_enabled_intfs>] <subnet_bcast_intfs_hdr> [TABLE_intf <subnet_bcast_enabled_intfs>] <trusted_port_intfs_hdr> [TABLE_intf <trusted_port_enabled_intfs>] <relay_src_addr_hsrp_hdr> [TABLE_intf <src_addr_hsrp_enabled_intfs>] <relay_address_hdr> [TABLE_intf <intf> <relay_address> <vrf_name>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
relay	DHCP relay
__readonly__	(Optional) Read only
relay_service_enable	(Optional)
relay_opt82_enable	(Optional)
relay_opt82_customize	(Optional)
relay_subopt_VPN_enable	(Optional)
relay_subopt_type_cisco_enable	(Optional)
global_smart-relay_enable	(Optional)
global_relay_trusted_enable	(Optional)
relay_trusted_port_enable	(Optional)
global_src_addr_hsrp_enable	(Optional) V4 Relay src-addr hsrp is globally enabled or not
smart_relay_intfs_hdr	(Optional) Smart relay interfaces header
TABLE_intf	(Optional)
smart_relay_enabled_intfs	(Optional) smart-relay enabled interfaces
subnet_bcast_intfs_hdr	(Optional) Subnet broadcast interfaces header
TABLE_intf	(Optional)
subnet_bcast_enabled_intfs	(Optional) subnet_bcast enabled interfaces
trusted_port_intfs_hdr	(Optional) Trusted port interfaces header
TABLE_intf	(Optional)

trusted_port_enabled_intfs	(Optional) trusted_port enabled interfaces
relay_src_addr_hsrp_hdr	(Optional) Header for V4 Relay src-addr enabled interfaces
TABLE_intf	(Optional)
src_addr_hsrp_enabled_intfs	(Optional) source-address hsrp enabled interfaces
relay_address_hdr	(Optional) relay address header
TABLE_intf	(Optional) Table for list of interfaces
intf	(Optional) interface name
relay_address	(Optional) helper address
vrf_name	(Optional) vrf name

Command Mode

- /exec

show ip dhcp relay address

show ip dhcp relay address [interface <intf-range>] [__readonly__ <intf_header> [TABLE_intf <intf2> <relay_address> <vrf_name>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show DHCP
relay	relay address of the interface
address	DHCP relay address
interface	(Optional) DHCP relay address of the interface
intf-range	(Optional) interface
__readonly__	(Optional) Read only
intf_header	(Optional) interface header
TABLE_intf	(Optional)
intf2	(Optional) interface name
relay_address	(Optional) helper address
vrf_name	(Optional) VRF name

Command Mode

- /exec

show ip dhcp relay information trusted-sources

show ip dhcp relay information trusted-sources [__readonly__ <header> [TABLE_intf <intf>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show DHCP
relay	DHCP Relay
information	Relay information
trusted-sources	Relay Trusted Sources
__readonly__	(Optional) Read only
TABLE_intf	(Optional) trusted interface table
header	(Optional) interface header
intf	(Optional) interface name

Command Mode

- /exec

show ip dhcp relay statistics

show ip dhcp relay statistics [interface <intf> | { interface <intf> serverip <ip-addr-val> [use-vrf <vrf-name>] }] [__readonly__ [<msg_stats_hdr> <msg_type_str> <tx_pkts> <rx_pkts> <drops> <msg_type_str_offer> <offer_rx_pkts> <offer_tx_pkts> <offer_drops> <msg_type_str_request> <request_rx_pkts> <request_tx_pkts> <request_drops> <msg_type_str_ack> <ack_rx_pkts> <ack_tx_pkts> <ack_drops> <msg_type_str_release> <release_rx_pkts> <release_tx_pkts> <release_drops> <msg_type_str_decline> <decline_rx_pkts> <decline_tx_pkts> <decline_drops> <msg_type_str_inform> <inform_rx_pkts> <inform_tx_pkts> <inform_drops> <msg_type_str_nack> <nack_rx_pkts> <nack_tx_pkts> <nack_drops> <line> <msg_type_str_total> <total_rx_pkts> <total_tx_pkts> <total_drops> <line_x>] [<server_consolidated_hdr> [TABLE_server_info <server_helper_addr> <server_vrf> <server_total_request> <server_total_response>] <line_y>] [<l3_fwd_hdr> <l3_fwd_rx_pkts> <l3_fwd_tx_pkts> <l3_fwd_drops> <non_dhcp_hdr> <non_dhcp_rx_pkts> <non_dhcp_tx_pkts> <non_dhcp_drops> <drop_hdr> <drop_validation_fail> <drop_relay_disable> <drop_invalid_msg_type> <drop_intf_err> <drop_tx_sock_err> <drop_tx_fail_client_intf> <drop_unknown_op_intf> <drop_l3_unknown_op_intf> <drop_max_hops> <drop_opt82_insert_fail> <drop_malformed> <drop_mct_drop> <drop_untrusted_relay_intf>] [<server_discover> <server_request> <server_decline> <server_release> <server_inform> <server_ack> <server_nack> <server_offer> <server_resp_hdr> <drop_unknown> <server_req_hdr>] <footer>]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
relay	DHCP Relay
statistics	Statistics related to DHCP
interface	(Optional) input interface
intf	(Optional) interface
serverip	(Optional) Helper address
ip-addr-val	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
vrf-name	(Optional) VRF name
__readonly__	(Optional) Read only
msg_stats_hdr	(Optional) dhcp message statistics header
msg_type_str	(Optional) dhcp message type
rx_pkts	(Optional) received dhcp packets
tx_pkts	(Optional) forwarded dhcp packets
drops	(Optional) dhcp packet drops

msg_type_str_offer	(Optional) dhcp message type
offer_rx_pkts	(Optional) received dhcp packets
offer_tx_pkts	(Optional) forwarded dhcp packets
offer_drops	(Optional) dhcp packet drops
msg_type_str_request	(Optional) dhcp message type
request_rx_pkts	(Optional) received dhcp packets
request_tx_pkts	(Optional) forwarded dhcp packets
request_drops	(Optional) dhcp packet drops
msg_type_str_ack	(Optional) dhcp message type
ack_rx_pkts	(Optional) received dhcp packets
ack_tx_pkts	(Optional) forwarded dhcp packets
ack_drops	(Optional) dhcp packet drops
msg_type_str_release	(Optional) dhcp message type
release_rx_pkts	(Optional) received dhcp packets
release_tx_pkts	(Optional) forwarded dhcp packets
release_drops	(Optional) dhcp packet drops
msg_type_str_decline	(Optional) dhcp message type
decline_rx_pkts	(Optional) received dhcp packets
decline_tx_pkts	(Optional) forwarded dhcp packets
decline_drops	(Optional) dhcp packet drops
msg_type_str_inform	(Optional) dhcp message type
inform_rx_pkts	(Optional) received dhcp packets
inform_tx_pkts	(Optional) forwarded dhcp packets
inform_drops	(Optional) dhcp packet drops
msg_type_str_nack	(Optional) dhcp message type
nack_rx_pkts	(Optional) received dhcp packets
nack_tx_pkts	(Optional) forwarded dhcp packets
nack_drops	(Optional) dhcp packet drops
line	(Optional)

msg_type_str_total	(Optional) total dhcp packets of all message types
total_rx_pkts	(Optional) total forwarded dhcp packets
total_tx_pkts	(Optional) total forwarded dhcp packets
total_drops	(Optional) total dhcp drops
line_x	(Optional)
server_consolidated_hdr	(Optional) DHCP server stats
TABLE_server_info	(Optional)
server_helper_addr	(Optional) dhcp server address
server_vrf	(Optional) dhcp server vrf
server_total_request	(Optional) total dhcp requests to server
server_total_response	(Optional) total dhcp responses from server
line_y	(Optional)
l3_fwd_hdr	(Optional) DHCP l3 forward header
l3_fwd_rx_pkts	(Optional) DHCP l3 received packets
l3_fwd_tx_pkts	(Optional) DHCP l3 forwarded packets
l3_fwd_drops	(Optional) DHCP l3 forward drops
non_dhcp_hdr	(Optional) non dhcp packets header
non_dhcp_rx_pkts	(Optional) total non dhcp packets received
non_dhcp_tx_pkts	(Optional) total non dhcp packets forwarded
non_dhcp_drops	(Optional) total non dhcp drops
drop_hdr	(Optional) total dhcp drops in various scenarios
drop_validation_fail	(Optional) drops due to option 82 validation failed
drop_relay_disable	(Optional) drops due to dhcp relay not enabled
drop_invalid_msg_type	(Optional) drops due to invalid message type
drop_intf_err	(Optional) drops due to interface error
drop_tx_sock_err	(Optional) tx failure towards server
drop_tx_fail_client_intf	(Optional) drops due to Tx failure towards client
drop_unknown_op_intf	(Optional) Unknown output interface
drop_l3_unknown_op_intf	(Optional) unknown vrf interface for server

drop_max_hops	(Optional) drops due to max hop exceeded
drop_opt82_insert_fail	(Optional) Insertion of option 82 failed
drop_malformed	(Optional) drops due to packet malformed
drop_mct_drop	(Optional) drops through mct
drop_untrusted_relay_intf	(Optional) drops due to untrusted relay interface
server_discover	(Optional) DHCP discover messages relayed to server
server_request	(Optional) DHCP request messages relayed to server
server_decline	(Optional) DHCP decline messages relayed to server
server_release	(Optional) DHCP release messages relayed to server
server_inform	(Optional) DHCP inform messages relayed to server
server_ack	(Optional) DHCP ack messages relayed from server
server_nack	(Optional) DHCP nack messages relayed from server
server_offer	(Optional) DHCP offer messages relayed from server
server_resp_hdr	(Optional) DHCP server response header
drop_unknown	(Optional) drops due to Unknown Failure
server_req_hdr	(Optional) DHCP server request header
footer	(Optional) footer line

Command Mode

- /exec

show ip dhcp snooping

show ip dhcp snooping [__readonly__ <snoop_service_enable> <snoop_gbl_enable> <snoop_vlan_enable> <snoop_oper_vlan_enable> <snoop_opt82_enable> <snoop_hwaddr_verify_enable> <snoop_hdr> [{ TABLE_intf_entry <intf_entry_if_index> <intf_entry_trust_dhcp> <intf_entry_pkt_limit> }]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
__readonly__	(Optional) Read only
snoop_service_enable	(Optional)
snoop_gbl_enable	(Optional)
snoop_vlan_enable	(Optional)
snoop_oper_vlan_enable	(Optional)
snoop_opt82_enable	(Optional)
snoop_hwaddr_verify_enable	(Optional)
snoop_hdr	(Optional)
TABLE_intf_entry	(Optional)
intf_entry_if_index	(Optional)
intf_entry_trust_dhcp	(Optional) is DHCP snooping trusted on the interface
intf_entry_pkt_limit	(Optional) limit for DHCP packets per second on the interface

Command Mode

- /exec

show ip dhcp snooping binding

show ip dhcp snooping binding [<ip> | <mac> | vlan <vlan-range> |

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show items in DHCP
snooping	DHCP snooping
binding	DHCP snooping bindings
ip	(Optional) Binding entry IP address
mac	(Optional) Binding entry MAC address
vlan	(Optional) Binding entry VLAN
vlan-range	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec

show ip dhcp snooping statistics

show ip dhcp snooping statistics [{ vlan <vlan-id> interface <intf> } |

Syntax Description

vlan-id	(Optional)]
show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
snooping	DHCP snooping
statistics	Statistics related to DHCP
vlan	(Optional) VLAN
interface	(Optional) input interface
intf	(Optional) interface

Command Mode

- /exec

show ip dhcp status

show ip dhcp status [__readonly__ [<current_cli_op>] [<last_cli_op> <last_cli_stat>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
dhcp	Show information about DHCP
status	Current CLI command and execution status of the last command
__readonly__	(Optional) Read only
current_cli_op	(Optional) current cli operation
last_cli_op	(Optional) last cli operation
last_cli_stat	(Optional) last cli status

Command Mode

- /exec

show ip dns source-interface

show ip dns source-interface [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [{ TABLE_ipdnsvrf <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_ipdnsvrf	(Optional) source interface of dns given vrf
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip dns source-interface vrf all

show ip dns source-interface vrf all [__readonly__ [{ TABLE_ipdns <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
dns	Display domain-lookup information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipdns	(Optional) source interface of dns
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip eigrp

show { ip | ipv6 } eigrp [<eigrp-ptag>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_asn <asn> <router_id> TABLE_vrf <vrf> <eigrp_ptag> <instance_num> <state> <authen_md5> <authen_keychain> <metric_weight_k1> <metric_weight_k2> <metric_weight_k3> <metric_weight_k4> <metric_weight_k5> [<metric_weight_k6> <metric_ribscale>] <metric_version> <eigrp_proto> { <multicast_group> | <multicast_groupv6> } <int_distance> <ext_distance> <max_paths> <active_interval> <num_interfaces> <num_lo_interfaces> <num_pass_interfaces> <num_peers> [{ TABLE_redist <redist_srcproto> <redist_routemap> }] <tmap_route_map> [<tmap_filter_configured>] <default_info_originate> [<default_info_route_map> <default_info_originate_always>] <graceful_restart> <stub_configured> [<stub_option_connected> <stub_option_summary> <stub_option_redist> <stub_option_leak_map> <stub_option_receive_only>] <isolate> <nsf_converge_time> <nsf_converge_expiries> <nsf_route_hold_time> <nsf_route_hold_expiries> <nsf_signal_time> <nsf_signal_expiries> <redist_max_prefix> [<redist_max_prefix_mode> <redist_prefix_count> <redist_prefix_max> <redist_limit_threshold> <redist_limit_retry_count> <redist_limit_retry_max> <redist_limit_timer_left> <redist_limit_timeout>] <bfd_enabled> <eigrp_mmode> [{ TABLE_command_q <addr> <mask> }] <await_redist_proto_converge> <suppress_fib_pending> <nsf_in_progress>]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag
__readonly__	(Optional)
TABLE_asn	(Optional) AS Number table
asn	(Optional) AS number
router_id	(Optional) Router-ID
TABLE_vrf	(Optional) VRF table
vrf	(Optional) VRF name
eigrp_ptag	(Optional) Process-tag for EIGRP
instance_num	(Optional) EIGRP Instance Number

state	(Optional) EIGRP Process Status
authen_md5	(Optional) Authentication Mode
authen_keychain	(Optional) Authentication Key-Chain
metric_weight_k1	(Optional) DUAL metric k1
metric_weight_k2	(Optional) DUAL metric k2
metric_weight_k3	(Optional) DUAL metric k3
metric_weight_k4	(Optional) DUAL metric k4
metric_weight_k5	(Optional) DUAL metric k5
metric_weight_k6	(Optional) DUAL metric k6
metric_ribscale	(Optional) RIB Scale
metric_version	(Optional) Metric version
eigrp_proto	(Optional) IP Protocol number
multicast_group	(Optional) Multicast Group Address
int_distance	(Optional) Internal Administrative Distance
ext_distance	(Optional) External Administrative Distance
max_paths	(Optional) Maximum paths allowed for a dndb
active_interval	(Optional) Active Interval in minutes
num_interfaces	(Optional) Number of EIGRP interfaces configured under this AS
num_lo_interfaces	(Optional) Number of EIGRP loopback interfaces configured under this AS
num_pass_interfaces	(Optional) Number of EIGRP Passive interfaces configured under this AS
num_peers	(Optional) Number of EIGRP peers
TABLE_redist	(Optional) Redistribution Table
redist_srcproto	(Optional) Source protocol of the redistributed route
redist_routemap	(Optional) Route-map used in this redistribution
tmap_route_map	(Optional) Tablemap Policy name
tmap_filter_configured	(Optional) Tablemap filter configured?
default_info_originate	(Optional) Default-info Policy Originate?

default_info_route_map	(Optional) Default-info Policy name
default_info_originate_always	(Optional) Default-info Originate always?
graceful_restart	(Optional) Graceful restart configured?
stub_configured	(Optional) Stub-Routing configured?
stub_option_connected	(Optional) Advertise connected routes?
stub_option_summary	(Optional) Advertise summary routes?
stub_option_redist	(Optional) Advertise redistributed routes?
stub_option_leak_map	(Optional) Allow routes permitted by leak-map?
stub_option_receive_only	(Optional) Configured as receive only?
isolate	(Optional) Isolate is enabled
nsf_converge_time	(Optional) NSF converge time limit
nsf_converge_expiries	(Optional) NSF converge time expiries
nsf_route_hold_time	(Optional) NSF route-hold time limit
nsf_route_hold_expiries	(Optional) NSF route-hold time expiries
nsf_signal_time	(Optional) NSF signal time limit
nsf_signal_expiries	(Optional) NSF signal time expiries
redist_max_prefix	(Optional) Redistributed max-prefix enabled?
redist_max_prefix_mode	(Optional) Redistributed max-prefix mode
redist_prefix_count	(Optional) Redistributed prefix count
redist_prefix_max	(Optional) Redistributed prefix max
redist_limit_threshold	(Optional) Redistributed max-prefix warning threshold
redist_limit_retry_count	(Optional) Redistributed max-prefix retries attempted
redist_limit_retry_max	(Optional) Redistributed max-prefix retries allowed
redist_limit_timer_left	(Optional) Redistributed max-prefix timer left
redist_limit_timeout	(Optional) Redistributed max-prefix timeout
bfd_enabled	(Optional) Is BFD enabled?
eigrp_mmode	(Optional) EIGRP MMODE initialized?
TABLE_command_q	(Optional) Network commands table
addr	(Optional) IP address

mask	(Optional) Mask length
await_redist_proto_converge	(Optional) Await-Redist-proto-convergence configured?
suppress_fib_pending	(Optional) Suppress-FIB-Pending configured?
nsf_in_progress	(Optional) NSF in progress?

Command Mode

- /exec

show ip eigrp accounting

show { ip | ipv6 } eigrp [<eigrp-ptag>] accounting [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_asn <asn> <router_id> TABLE_vrf <vrf> <total_prefix> <redist_state> <redist_count> <restart_count> <acct_timer> [TABLE_peer { <p_ipaddr> | <p_ipv6addr> } <p_state> <p_ifname> <p_prefix_count> <p_restart_count> <p_acct_timer>]]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag
accounting	IP-EIGRP Accounting
__readonly__	(Optional)
TABLE_asn	(Optional) AS number table
asn	(Optional) AS number
router_id	(Optional) Router-ID
TABLE_vrf	(Optional) VRF table
vrf	(Optional) VRF name
total_prefix	(Optional) Total prefix count (Aggregate)
redist_state	(Optional) State of redistributed prefixes
redist_count	(Optional) Number of redistributed prefixes
restart_count	(Optional) Number of times the prefix was suspended
acct_timer	(Optional) Accounting timer
TABLE_peer	(Optional) Peer (Prefix) table
p_ipaddr	(Optional) Peer IP addr

p_state	(Optional) Peer state
p_ifname	(Optional) Peering interface
p_prefix_count	(Optional) Number of Prefixes learnt from the peer
p_restart_count	(Optional) Number of times the prefix was suspended
p_acct_timer	(Optional) Peer accounting timer

Command Mode

- /exec

show ip eigrp detail

show { ip | ipv6 } eigrp [<eigrp-ptag>] detail [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
detail	Show detailed EIGRP process stats
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag

Command Mode

- /exec

show ip eigrp event-history

show { ip | ipv6 } eigrp [<eigrp-ptag>] [internal] event-history { fsm | packet | rib }

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
eigrp-ptag	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Event History of EIGRP
fsm	FSM log of EIGRP
packet	Packet log of EIGRP
rib	RIB log of EIGRP

Command Mode

- /exec

show ip eigrp event-history bfd

show { ip | ipv6 } eigrp [<eigrp-ptag>] [internal] event-history bfd

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
eigrp-ptag	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Event History of EIGRP
bfd	Show bfd log of EIGRP

Command Mode

- /exec

show ip eigrp interfaces

show { ip | ipv6 } eigrp [<eigrp-ptag>] interfaces [detail] [<interface>] [brief] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_asn <asn> TABLE_vrf <vrf> [TABLE_if <ifname> <peer_count> <xmitq_unrel> <xmitq_rel> <mean_srtt> <send_intvl_unrel> <send_intvl_rel> <mcast_flow_delay> <pending_routes> [<hello_intvl> <holdtime_intvl> <next_xmit_serno> <packetize_pending> <mcasts_sent_unrel> <mcasts_sent_rel> <ucasts_sent_unrel> <ucasts_sent_rel> <mcast_exceptions> <cr_packets> <acks_suppressed> <retrans_sent> <out_of_seq_rcvd> <stub_interface> <nexthop_self> <auth_mode_md5> <auth_key_chain> <use_multicast> <classic_metric_peers> <wide_metric_peers> <bfd_enabled>]]]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag
interfaces	IP-EIGRP interfaces
detail	(Optional) Show detailed interface information
interface	(Optional) Interface
brief	(Optional) Show summary information only
__readonly__	(Optional)
TABLE_asn	(Optional) AS number table
asn	(Optional) AS number
TABLE_vrf	(Optional) VRF table
vrf	(Optional) VRF name
TABLE_if	(Optional) Interface table
ifname	(Optional) Interface name
peer_count	(Optional) Number of Peer on this interface

xmitq_unrel	(Optional) Xmit Q (unreliable) count
xmitq_rel	(Optional) Xmit Q (reliable) count
mean_srtt	(Optional) Mean of all peer SRTTs
send_intvl_unrel	(Optional) Base packet gap, per queue (unreliable)
send_intvl_rel	(Optional) Base packet gap, per queue (reliable)
mcast_flow_delay	(Optional) Last delay for Multicast flow control timer
pending_routes	(Optional) Pending routes on the interface
hello_intvl	(Optional) Configured hello interval for interface
holdtime_intvl	(Optional) Configured holdtime interval for interface
next_xmit_serno	(Optional) Next xmit serial number
packetize_pending	(Optional) Packetization pending?
mcasts_sent_unrel	(Optional) Number of Multicasts sent (unreliable)
mcasts_sent_rel	(Optional) Number of Multicasts sent (reliable)
ucasts_sent_unrel	(Optional) Number of Unicasts sent (unreliable)
ucasts_sent_rel	(Optional) Number of Unicasts sent (reliable)
mcast_exceptions	(Optional) Multicast exceptions (Count of multicasts sent as unicasts)
cr_packets	(Optional) Count of Multicasts sent with CR
acks_suppressed	(Optional) Count of suppressed ACK packets
retrans_sent	(Optional) Count of Retransmissions sent
out_of_seq_rcvd	(Optional) Count of packets received Out-of-Sequence
stub_interface	(Optional) All Peers are stubbed?
nexthop_self	(Optional) should retain next-hop?
auth_mode_md5	(Optional) MD5 Authentication enabled?
auth_key_chain	(Optional) Authentication key-chain
use_multicast	(Optional) Use Multicast?
classic_metric_peers	(Optional) Classical metric peers
wide_metric_peers	(Optional) Wide metric peers
bfd_enabled	(Optional) BFD enabled

Command Mode

- /exec

show ip eigrp route-map statistics

show ip eigrp [<eigrp-ptag>] route-map statistics { { redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp } } | table-map } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_asn <asn> TABLE_vrf <vrf> { TABLE_rmap <name> <action> <seq_num> [{ TABLE_cmd <command> [<compare_count>] <match_count> }] } <total_accept_count> <total_reject_count>]

Syntax Description

show	Show running system information
ip	Display IP information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
table-map	Tablemap information
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
tag	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes

__readonly__	(Optional)
TABLE_asn	(Optional) AS number table
asn	(Optional) AS number
TABLE_vrf	(Optional) VRF table
vrf	(Optional) VRF name
TABLE_rmap	(Optional) Routemap table
name	(Optional) Route-map Name
action	(Optional) Route-map action
seq_num	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
command	(Optional) Route-map command
compare_count	(Optional) Number of comparisons
match_count	(Optional) Number of matches
total_accept_count	(Optional) Total number of packets accepted by the policy
total_reject_count	(Optional) Total number of pakcets rejected by the policy

Command Mode

- /exec

show ip eigrp traffic

show { ip | ipv6 } eigrp [<eigrp-ptag>] traffic [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_asn <asn> TABLE_vrf <vrf> <hellos_sent> <hellos_rcvd> <updates_sent> <updates_rcvd> <queries_sent> <queries_rcvd> <replies_sent> <replies_rcvd> <acks_sent> <acks_rcvd> <max_inqueue_depth> <inqueue_drops> <sia_queries_sent> <sia_queries_rcvd> <sia_replies_sent> <sia_replies_rcvd>]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag
traffic	IP-EIGRP Traffic Statistics
__readonly__	(Optional)
TABLE_asn	(Optional) AS number table
asn	(Optional) AS number
TABLE_vrf	(Optional) VRF table
vrf	(Optional) VRF name
hellos_sent	(Optional) Number of Hellos sent
hellos_rcvd	(Optional) Number of Hellos received
updates_sent	(Optional) Number of Updates sent
updates_rcvd	(Optional) Number of Updates received
queries_sent	(Optional) Number of Queries sent
queries_rcvd	(Optional) Number of Queries received
replies_sent	(Optional) Number of Replies sent
replies_rcvd	(Optional) Number of Replies received

acks_sent	(Optional) Number of ACKs sent
acks_rcvd	(Optional) Number of ACKs received
max_inqueue_depth	(Optional) Input queue high water mark
inqueue_drops	(Optional) Input queue drops
sia_queries_sent	(Optional) Number of SIA queries sent
sia_queries_rcvd	(Optional) Number of SIA queries received
sia_replies_sent	(Optional) Number of SIA replies sent
sia_replies_rcvd	(Optional) Number of SIA replies received

Command Mode

- /exec

show ip extcommunity-list

show ip extcommunity-list [<extcl_name>] [__readonly__ TABLE_extcl <name> <action> <rule>]

Syntax Description

show	Show running system information
ip	Display IP information
extcommunity-list	List extcommunity-list
extcl_name	(Optional) Standard or expanded community-list name
__readonly__	(Optional)
TABLE_extcl	(Optional)
name	(Optional)
action	(Optional)
rule	(Optional)

Command Mode

- /exec

show ip fib distribution

show ip fib distribution [pauz | rezum]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution information
pauz	(Optional) start black-holing routes
rezum	(Optional) stop black-holing routes

Command Mode

- /exec

show ip fib distribution clients

show ip fib distribution clients [__readonly__ <id><pid><name><shms><shme><shmn>]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
clients	unicast client information
__readonly__	(Optional)

Command Mode

- /exec

show ip fib distribution mroute

show ip fib distribution mroute [{ <group> | <gprefix> } [<source>]] [table <id>] [__readonly__ TABLE_vrf [<vrf-name>] [<table-name>] [<table-id>] [<table-wildcard>] [<total-num-groups>] [TABLE_route_summary [<vrf-name>] [<total-num-routes>] [<num-star-g-route>] [<num-sg-route>] [<num-star-g-prfx>] [<num-group-count>]] [TABLE_one_route [<source-addrs>] [<source-len>] [<group-addrs>] [<group-len>] [<df-ordinal>] [<rpf-intf>] [<flags>] [<stats-pkts>] [<stats-bytes>] [<oif-count>] [<oiflist-index>] [TABLE_oif [<oif-name>] [<mti-src-intf>] [<mti-grp-ip>] [<mti-src-ip>] [<next-hop>]]]]

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
mroute	MFDM IP multicast routing table
group	(Optional) IPv4 Multicast Group Address
gprefix	(Optional) IPv4 Multicast Group Prefix
source	(Optional) IPv4 Source Address
table	(Optional) Specify Multicast Routing Table
id	(Optional) Multicast Routing Table Identifier
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
table-name	(Optional)
table-id	(Optional)
table-wildcard	(Optional)
total-num-groups	(Optional)
TABLE_route_summary	(Optional)
total-num-routes	(Optional)
num-star-g-route	(Optional)
num-sg-route	(Optional)
num-star-g-prfx	(Optional)

num-group-count	(Optional)
TABLE_one_route	(Optional)
source-addrs	(Optional)
source-len	(Optional)
group-addrs	(Optional)
group-len	(Optional)
df-ordinal	(Optional)
rpf-intf	(Optional)
flags	(Optional)
stats-pkts	(Optional)
stats-bytes	(Optional)
oif-count	(Optional)
oiflist-index	(Optional)
TABLE_oif	(Optional)
oif-name	(Optional)
mti-src-intf	(Optional)
mti-grp-ip	(Optional)
mti-src-ip	(Optional)
next-hop	(Optional)

Command Mode

- /exec

show ip fib distribution multicast

show ip fib distribution multicast [messages] [__readonly__ <fibstate> <slot> <accepting_routes> <num_accepting_routes>]

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
messages	(Optional) Outstanding Message Information
__readonly__	(Optional)
fibstate	(Optional) IP Multicast FIB process state
slot	(Optional) Slot
accepting_routes	(Optional) Indicates whether FIB is accepting routes
num_accepting_routes	(Optional) Number of fibs accepting routes

Command Mode

- /exec

show ip fib distribution multicast outgoing-interface-list

show ip fib distribution multicast outgoing-interface-list { L2 | L3 | OTV } [<index>] [__readonly__ <platform_index> <ref_count> <num_oif> <oif>]

Syntax Description

show	
ip	IP information
fib	Forwarding Information
distribution	FIB distribution information
multicast	Multicast FIB distribution information
outgoing-interface-list	Outgoing interface list
L2	Layer 2 oiflist
L3	Layer 3 oiflist
OTV	OTV oiflist
index	(Optional) Outgoing Interface List index
__readonly__	(Optional)
platform_index	(Optional) Platform index
ref_count	(Optional) Reference count
num_oif	(Optional) Number of outgoing interfaces
oif	(Optional) OIF name

Command Mode

- /exec

show ip fib distribution state

show ip fib distribution state [__readonly__ <slot> <state><ttc><tprc><tv4ac><tv6ac> { TABLE_fib_state <tid><tafi><prc><pc><tname> }]

Syntax Description

show	
ip	ipv4
fib	forwarding information
distribution	fib distribution info
state	unicast fib state info
__readonly__	(Optional)
slot	(Optional) slot number
TABLE_fib_state	(Optional) fib-state table

Command Mode

- /exec

show ip fib mroute

show ip fib mroute [{ <group> | <gprefix> } [<source>]] [table <table-id>] [module <module>] [__readonly__ <table_type> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpfif> <rpf_ifindex> <flag> <flag_value> <route_pkts> <route_bytes> <oiflist_id> <platform_id> <oif_count> <refcount> <oifname> <oifindex> <oif_pkts> <oif_bytes>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	Multicast IPv4 routes
group	(Optional) Multicast IPv4 Group Address
gprefix	(Optional) Multicast IPv4 Group Prefix
source	(Optional) Multicast IPv4 Source Address
table	(Optional) display info per vpn-id
table-id	(Optional) table-id
module	(Optional) slot
module	(Optional) slot number
__readonly__	(Optional)
table_type	(Optional) Table Type
num_groups	(Optional) Number of group entries in the table
num_sources	(Optional) Number of (S, G) entries for the group address
src_len	(Optional) Source Address Mask
grp_len	(Optional) Group address Mask
df_ordinal	(Optional) DF ordinal
rpfif	(Optional) RPF interface
rpf_ifindex	(Optional) RPF Interface ifIndex
flag	(Optional) Route type flag
flag_value	(Optional) hex value of route flag
route_pkts	(Optional) Route packet count

route_bytes	(Optional) Route bytes
oiflist_id	(Optional) OIF list Identifier
platform_id	(Optional) Platform-index
oif_count	(Optional) Number of OIFs
refcount	(Optional) OIF list Reference Count
oifname	(Optional) OIF Interface name
oifindex	(Optional) OIF Interface ifIndex
oif_pkts	(Optional) OIF packets
oif_bytes	(Optional) OIF bytes

Command Mode

- /exec

show ip fib mroute

show ip fib mroute [{ <group> | <gprefix> } [<source>]] [table <table-id>] [module <module>] [__readonly__ <table_type> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpfif> <rpf_ifindex> <flag> <flag_value> <route_pkts> <route_bytes> <oiflist_id> <platform_id> <oif_count> <refcount> <oifname> <oifindex> <oif_pkts> <oif_bytes>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	Multicast IPv4 routes
group	(Optional) Multicast IPv4 Group Address
gprefix	(Optional) Multicast IPv4 Group Prefix
source	(Optional) Multicast IPv4 Source Address
table	(Optional) display info per vpn-id
table-id	(Optional) table-id
module	(Optional) slot
module	(Optional) slot number
__readonly__	(Optional)
table_type	(Optional) Table Type
num_groups	(Optional) Number of group entries in the table
num_sources	(Optional) Number of (S, G) entries for the group address
src_len	(Optional) Source Address Mask
grp_len	(Optional) Group address Mask
df_ordinal	(Optional) DF ordinal
rpfif	(Optional) RPF interface
rpf_ifindex	(Optional) RPF Interface ifIndex
flag	(Optional) Route type flag
flag_value	(Optional) hex value of route flag
route_pkts	(Optional) Route packet count

route_bytes	(Optional) Route bytes
oiflist_id	(Optional) OIF list Identifier
platform_id	(Optional) Platform-index
oif_count	(Optional) Number of OIFs
refcount	(Optional) OIF list Reference Count
oifname	(Optional) OIF Interface name
oifindex	(Optional) OIF Interface ifIndex
oif_pkts	(Optional) OIF packets
oif_bytes	(Optional) OIF bytes

Command Mode

- /exec

show ip fib route

show ip fib route [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id>] [summary | <prefix> [longer-prefixes] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency { <aif> <anh> | drop | glean | punt }] [module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] + [__readonly__ [<header> <vrfname> <tableid> <prefix-count> <pfx> { <nexthop> | <special> } <intf> <route-count> <path-count> <mask-length> <routes-per-mask>] [TABLE_vrf { [<vrf_name_out>] [<table_name>] [TABLE_prefix { [<pfx>] [TABLE_path { [<nexthop>] | <special>] [<intf>] }] }] }]]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
table_id	(Optional) table number
summary	(Optional) display route counts
prefix	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
address	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
interface	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
nh	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
aif	(Optional) adjacency output interface

anh	(Optional) adjacency next-hop address
drop	(Optional) display routes via drop adjacency
glean	(Optional) display routes via glean adjacency
punt	(Optional) display routes via punt adjacency
module	(Optional) slot
module	(Optional) slot number
__readonly__	(Optional)
header	(Optional) header string
vrfname	(Optional) VRF name
tableid	(Optional) table identifier
prefix-count	(Optional) total number of prefix in VRF
pfx	(Optional) ipv4 prefix
nexthop	(Optional) next hop address
special	(Optional) special adjacencies
intf	(Optional) output interface
route-count	(Optional) total number of routes in VRF
path-count	(Optional) total number of paths in VRF
mask-length	(Optional) length of mask
routes-per-mask	(Optional)
TABLE_vrf	(Optional) vrf table
vrf_name_out	(Optional) VRF name
table_name	(Optional) table name
TABLE_prefix	(Optional) all xml prefix entries
pfx	(Optional) ipv4 prefix
TABLE_path	(Optional) path table
nexthop	(Optional) next hop address
special	(Optional) special adjacencies
intf	(Optional) output interface

Command Mode

- /exec

show ip fib route

show ip fib route [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id>] [summary | <prefix> [longer-prefixes] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency { <aif> <anh> | drop | glean | punt }] [module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] + [__readonly__ <header> <vrfname> <tableid> <prefix-count> <pfx> { <nexthop> | <special> } <intf> <route-count> <path-count> <mask-length> <routes-per-mask>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
route	display IP routing table
vrf	(Optional) display info per VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
table	(Optional) display info per vpn-id
table_id	(Optional) table number
summary	(Optional) display route counts
prefix	(Optional) display single exact match route
longer-prefixes	(Optional) display longer prefixes
address	(Optional) display single longest match route
interface	(Optional) display routes with this output i/f only
interface	(Optional) output interface
next-hop	(Optional) display routes with this next-hop only
nh	(Optional) next hop address
attached	(Optional) display directly connected routes
unresolved	(Optional) display unresolved routes
adjacency	(Optional) display routes via specified adjacency
aif	(Optional) adjacency output interface
anh	(Optional) adjacency next-hop address

drop	(Optional) display routes via drop adjacency
glean	(Optional) display routes via glean adjacency
punt	(Optional) display routes via punt adjacency
module	(Optional) slot
module	(Optional) slot number
__readonly__	(Optional)
header	(Optional) header string
vrfname	(Optional) VRF name
tableid	(Optional) table identifier
prefix-count	(Optional) total number of prefix in VRF
pfx	(Optional) ipv4 prefix
nexthop	(Optional) next hop address
special	(Optional) special adjacencies
intf	(Optional) output interface
route-count	(Optional) total number of routes in VRF
path-count	(Optional) total number of paths in VRF
mask-length	(Optional) length of mask
routes-per-mask	(Optional)

Command Mode

- /exec

show ip ftp source-interface

show ip ftp source-interface [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [{ TABLE_ipftpvrf <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_ipftpvrf	(Optional) source interface of ftp given vrf
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip ftp source-interface vrf all

show ip ftp source-interface vrf all [__readonly__ [{ TABLE_ipftp <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
ftp	Display FTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipftp	(Optional) source interface of ftp
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip http source-interface

show ip http source-interface [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [{ TABLE_iphttpvrf <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_iphttpvrf	(Optional) source interface of http given vrf
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip http source-interface vrf all

show ip http source-interface vrf all [__readonly__ [{ TABLE_iphttp <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
http	Display HTTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iphttp	(Optional) source interface of http
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip igmp event-history

show ip igmp [internal] event-history { errors | msgs | <igmp-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
internal	(Optional) Commands for internal use
event-history	Show various event logs of IGMP
errors	Show error logs of IGMP
msgs	Show various message logs of IGMP
igmp-event-hist-buf-name	Show various logs of IGMP
statistics	Show state and size of buffer

Command Mode

- /exec

show ip igmp groups

show ip igmp { groups | route } [<source> [<group>] | <group> [<source>]] [<interface>] [summary] [vrf { <vrf-name> | <vrf-known-name> | all }] [summary-old] [__readonly__ [TABLE_vrf [<if-name>] [<vrfname>] [<entry-count>] [<group-addr>] [<sourceaddress>] [TABLE_group [<group-addr>] [<group-type>] [<if-name>] [<uptime>] [<expires>] [<reporter>]] [TABLE_source [<source-addr>] [<group-type>] [<translate>] [<if-name>] [<uptime>] [<expires>] [<reporter>]] [<vrf-cntxt>] [<g-count>] [<sg-count>]]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
groups	Display IGMP attached group membership information
route	Display IGMP attached group membership information
group	(Optional) Multicast IP address of single group to display
source	(Optional) Source IP address
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	(Optional) Display group membership on single interface name
summary	(Optional) Display group summary
summary-old	(Optional) Display group summary
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrfname	(Optional)
if-name	(Optional)
group-addr	(Optional)
entry-count	(Optional)
sourceaddress	(Optional)
TABLE_group	(Optional)

group-addr	(Optional)
group-type	(Optional)
if-name	(Optional)
uptime	(Optional)
expires	(Optional)
reporter	(Optional)
TABLE_source	(Optional)
source-addr	(Optional)
group-type	(Optional)
translate	(Optional)
if-name	(Optional)
uptime	(Optional)
expires	(Optional)
reporter	(Optional)
vrf-cntxt	(Optional)
g-count	(Optional)
sg-count	(Optional)

Command Mode

- /exec

show ip igmp interface

show ip igmp interface [<interface>] [brief] [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf> [<entry-count>] [[TABLE_brief [<if-name>] [<addr>] [<querier>] [<mc>] [<ver>]] [TABLE_if <if-name> [<if-status>] [<ip-sum>] [<addr>] [<querier>] [<q-ver>] [<next-query>] [<expires>] [<mc>] [<ver>] [<host-ver>] [<qi>] [<cqi>] [<mrt>] [<cmrt>] [<sqi>] [<csqi>] [<sqc>] [<lmmrt>] [<lmqc>] [<gt>] [<cgt>] [<qt>] [<cqt>] [<uri>] [<rv>] [<crv>] [<rll>] [<rc>] [<il>] [<join-group-map>] [<static-group-map>] [<host-proxy>] [<host-proxy-group-map>] [<un-solicited>] [<unsoint>] [<v1rr>] [<v2qs>] [<v2qr>] [<v2rs>] [<v2rr>] [<v2ls>] [<v2lr>] [<v3qs>] [<v3qr>] [<v3rs>] [<v3rr>] [<v2gqdest>] [<v3gqdest>] [<cse>] [<ple>] [<lsip>] [<scf>] [<qnq>] [<rvm>] [<qvm>] [<uit>] [<v1gdam>] [<v2gdam>] [<v3dai>] [<ra>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
interface	Display IGMP interface related information
interface	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
entry-count	(Optional)
TABLE_brief	(Optional)
if-name	(Optional)
addr	(Optional)
querier	(Optional)
mc	(Optional)

ver	(Optional)
TABLE_if	(Optional)
if-name	(Optional)
if-status	(Optional)
ip-sum	(Optional)
addr	(Optional)
querier	(Optional)
q-ver	(Optional)
next-query	(Optional)
expires	(Optional)
mc	(Optional)
ver	(Optional)
host-ver	(Optional)
qi	(Optional)
cqi	(Optional)
mrt	(Optional)
cmrt	(Optional)
sqi	(Optional)
csqi	(Optional)
sqc	(Optional)
lmmrt	(Optional)
lmqc	(Optional)
gt	(Optional)
cgt	(Optional)
qt	(Optional)
cqt	(Optional)
uri	(Optional)
rv	(Optional)
crv	(Optional)

rll	(Optional)
rc	(Optional)
v1rr	(Optional)
v2qs	(Optional)
v2qr	(Optional)
v2rs	(Optional)
v2rr	(Optional)
v2ls	(Optional)
v2lr	(Optional)
v3qs	(Optional)
v3qr	(Optional)
v3rs	(Optional)
v3rr	(Optional)
v2gqdest	(Optional)
v3gqdest	(Optional)
cse	(Optional)
ple	(Optional)
lsip	(Optional)
scf	(Optional)
qnq	(Optional)
rvm	(Optional)
qvm	(Optional)
uit	(Optional)
v1gdam	(Optional)
v2gdam	(Optional)
v3dai	(Optional)
ra	(Optional)
static-group-map	(Optional)
join-group-map	(Optional)

host-proxy-group-map	(Optional)
il	(Optional)
host-proxy	(Optional)
un-solicited	(Optional)
unsoint	(Optional)

Command Mode

- /exec

show ip igmp local-groups

show ip igmp local-groups [<interface>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf [<vrf-name>] [TABLE_if [<if-name>] [TABLE_grp [<group-addr>] [TABLE_src [<source-addr>] [<last-reported>] [<local-group>] [<static-oif>] [<report-only>] [<host-proxy>]]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
local-groups	Display IGMP local group membership information
interface	(Optional) Display group membership on single interface name
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
TABLE_if	(Optional)
if-name	(Optional)
TABLE_grp	(Optional)
group-addr	(Optional)
TABLE_src	(Optional)
source-addr	(Optional)
last-reported	(Optional)
local-group	(Optional)
static-oif	(Optional)
report-only	(Optional)
host-proxy	(Optional)

Command Mode

- /exec

show ip igmp policy statistics reports

show ip igmp policy statistics reports [<interface>] [__readonly__ [TABLE_interface [<if>] [TABLE_routemap [<name>] [<action>] [<seq_num>] [TABLE_cmd [<command>] [<compare_count>] [<match_count>]]] [<total_accept_count>] [<total_reject_count>]]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Show IGMP related information
policy	Policy related information
statistics	Policy statistics
reports	IGMP reports
interface	(Optional) Interface to display statistics for
__readonly__	(Optional)
TABLE_interface	(Optional)
if	(Optional)
TABLE_routemap	(Optional)
name	(Optional)
action	(Optional)
seq_num	(Optional)
TABLE_cmd	(Optional)
command	(Optional)
compare_count	(Optional)
match_count	(Optional)
total_accept_count	(Optional)
total_reject_count	(Optional)

Command Mode

- /exec

show ip igmp snooping

show ip igmp snooping [{ vlan <vlan> | bridge-domain <bdid> }] [__readonly__ [<vdc>] [<enabled>] [<omf>] [<grepsup>] [<gv3repsup>] [<glinklocalgrpsup>] { TABLE_vlan <vlan-id> [<description>] [<snoop-on>] [<qa>] [<qv>] [<qi>] [<qlmqi>] [<rv>] [<sq>] [<sqr>] [<eht>] [<fl>] [<repsup>] [<v3repsup>] [<vlinklocalgrpsup>] [<rpc>] [<gc>] [TABLE_active_ports [<actvports>]] [<lkupmode>] [<omf_enabled>] [<reportfloodenable>] [<reportfloodall>] [TABLE_intf <if-name>] [<leavegroupaddress>] }]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
vlan	(Optional) Display VLAN IGMP snooping membership information
vlan	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
bdid	(Optional) Specify BD
__readonly__	(Optional)
vdc	(Optional)
enabled	(Optional)
omf	(Optional)
grepsup	(Optional)
gv3repsup	(Optional)
glinklocalgrpsup	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
description	(Optional) description, if any
snoop-on	(Optional)
qa	(Optional)
qv	(Optional)
qi	(Optional)

qlmqi	(Optional)
rv	(Optional)
sq	(Optional)
sqr	(Optional)
eht	(Optional)
fl	(Optional)
repsup	(Optional)
v3repsup	(Optional)
vlinklocalgrpsup	(Optional)
rpc	(Optional)
gc	(Optional)
TABLE_active_ports	(Optional)
actvports	(Optional)
lkupmode	(Optional)
omf_enabled	(Optional)
reportfloodenable	(Optional)
reportfloodall	(Optional)
TABLE_intf	(Optional)
if-name	(Optional)
leavegroupaddress	(Optional)

Command Mode

- /exec

show ip igmp snooping event-history

show ip igmp snooping [internal] event-history { statistics | <igmp-snoop-event-hist-buf-name> }

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
internal	(Optional) Display IGMP snooping internal information
event-history	Show various event logs of IGMP Snooping
statistics	Show state and size of the buffers
igmp-snoop-event-hist-buf-name	Show contents of event-history buffer

Command Mode

- /exec

show ip igmp snooping explicit-tracking

show ip igmp snooping explicit-tracking [vlan <vlan> | bridge-domain <bdid>] [detail] [__readonly__ [TABLE_vlan [<vlan-id>] [TABLE_gaddr [<grp-addr>] [TABLE_if [<if-name>] [TABLE_haddr [<host-addr>] [TABLE_srcaddr [<src-addr>] [<uptime>] [<last-join>] [<expires>] [<cfs-flag>] [<native-flag>] [<delete-pending>] [<cfs-update-pending>]]]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
explicit-tracking	Display explicit-tracking database for IGMPv3
vlan	(Optional) Display Vlan explicit-tracking database
vlan	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD explicit-tracking database
bdid	(Optional) Specify BD
detail	(Optional) Display detail info regarding host and vPC
__readonly__	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
TABLE_gaddr	(Optional)
grp-addr	(Optional)
TABLE_if	(Optional)
if-name	(Optional)
TABLE_haddr	(Optional)
host-addr	(Optional)
TABLE_srcaddr	(Optional)
src-addr	(Optional)
uptime	(Optional)
last-join	(Optional)

expires	(Optional)
cfs-flag	(Optional)
native-flag	(Optional)
delete-pending	(Optional)
cfs-update-pending	(Optional)

Command Mode

- /exec

show ip igmp snooping filter details

show ip igmp snooping filter [vlan <vlan_id>] details [__readonly__ { TABLE_vlanid <vlan-id> <access-group> <group-channels-limit> <igmp-min-ver> }]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
filter	Shows filter policy configuration
vlan	(Optional) Only for the specified VLAN
vlan_id	(Optional) VLAN ID
details	Shows different Filter configurations
__readonly__	(Optional)
TABLE_vlanid	(Optional)
vlan-id	(Optional)
access-group	(Optional)
group-channels-limit	(Optional)
igmp-min-ver	(Optional)

Command Mode

- /exec

show ip igmp snooping groups

show ip igmp snooping [otv | remote] groups [{ <source> [<group>] } | { <group> [<source>] }] [vlan <vlan> | bridge-domain <bdid>] [detail] [summary] [__readonly__ [TABLE_vlan [<vlan-id>] [<rports>] [<rtrPortFlag>] [TABLE_port <if-name>] [TABLE_rtrports <rport-if-name>] [<raddr>] [TABLE_source <source>] [TABLE_group <addr> [<g-mfdm>] [<ver>] [<old-host>] [<raddr>] [<static>] [<dynamic>] [TABLE_static_ports <static-if-name>] [TABLE_v2_ports <v2-if-name> [<uptime>] [<expires>] [<gq-missed>]] [TABLE_star_g_ports <star-g-if-name> [<uptime>] [<expires>]] [<g-vpc>] [<rsf>] [<js>] [TABLE_source <source> [<srsf>] [<s-mfdm>] [<src-static>] [<src-dynamic>] [TABLE_src_static_ports <src-static-if-name>] [TABLE_src_dynamic [<oifs>] <dyn-if-name> [<src-uptime>] [<src-expires>]] [<s-vpc>]]] [<snoop-enabled>] [<omf-enabled>] [<group-count>] [<s-g-count>] [<total_star_g_count>] [<total_sg_count>]]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
otv	(Optional) IGMP Snooping OTV information
remote	(Optional) IGMP Snooping remote information
groups	Display snooping information for group address
summary	(Optional) Display snooping group summary
group	(Optional) Multicast IP address of single group to display
source	(Optional) Source IP address
vlan	(Optional) Display VLAN IGMP snooping membership information
vlan	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping membership information
bdid	(Optional) Specify BD
detail	(Optional) Display detailed information for the group
__readonly__	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
rports	(Optional)
rtrPortFlag	(Optional)

snoop-enabled	(Optional)
omf-enabled	(Optional)
group-count	(Optional)
s-g-count	(Optional)
total_star_g_count	(Optional)
total_sg_count	(Optional)
TABLE_port	(Optional)
if-name	(Optional)
TABLE_rtrports	(Optional)
rport-if-name	(Optional)
raddr	(Optional)
TABLE_group	(Optional)
addr	(Optional)
ver	(Optional)
raddr	(Optional)
TABLE_source	(Optional)
source	(Optional)
rsf	(Optional)
js	(Optional)
g-mfdm	(Optional)
old-host	(Optional)
g-vpc	(Optional)
static	(Optional)
dynamic	(Optional)
TABLE_static_ports	(Optional)
static-if-name	(Optional)
TABLE_v2_ports	(Optional)
v2-if-name	(Optional)
uptime	(Optional)

expires	(Optional)
gq-missed	(Optional)
TABLE_star_g_ports	(Optional)
star-g-if-name	(Optional)
uptime	(Optional)
expires	(Optional)
TABLE_source	(Optional)
source	(Optional)
srsf	(Optional)
s-mfdm	(Optional)
s-vpc	(Optional)
src-static	(Optional)
src-dynamic	(Optional)
TABLE_src_static_ports	(Optional)
src-static-if-name	(Optional)
TABLE_src_dynamic	(Optional)
oifs	(Optional)
dyn-if-name	(Optional)
src-uptime	(Optional)
src-expires	(Optional)

Command Mode

- /exec

show ip igmp snooping lookup-mode

show ip igmp snooping lookup-mode [vlan <vlan> | bridge-domain <bdid>] [__readonly__ [<configured>] [<operational>] [TABLE_vlan [<vlan-id>] [<lookup>]]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
lookup-mode	IGMP Snooping lkup mode information
vlan	(Optional) Display VLAN information
vlan	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD information
bdid	(Optional) Specify BD
__readonly__	(Optional)
configured	(Optional)
operational	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
lookup	(Optional)

Command Mode

- /exec

show ip igmp snooping mac-oif

show ip igmp snooping mac-oif [vlan <vlan> | bridge-domain <bdid>] [detail] [__readonly__ [<totaloif>] [TABLE_vlan [<vlan-id>] [<count>] [TABLE_mac [<mac-addr>] [TABLE_oif [<oifs>]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
mac-oif	IGMP Snooping static mac oif information
vlan	(Optional) Display VLAN information
vlan	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD information
bdid	(Optional) Specify BD
detail	(Optional) static mac oif detail, M2RIB oif info
__readonly__	(Optional)
totaloif	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
count	(Optional)
TABLE_mac	(Optional)
mac-addr	(Optional)
TABLE_oif	(Optional)
oifs	(Optional)

Command Mode

- /exec

show ip igmp snooping mrouter

show ip igmp snooping mrouter [otv] [vlan <vlan> | bridge-domain <bdid>] [detail] [__readonly__ TABLE_vlan <vlan-id> TABLE_intf <if-name> <static> <dynamic> <vpc> <fabricpath-core-port> <co-learned> <user-configured> <learnt-by-peer> <uptime> <expires> <internal>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
mrouter	Display multicast routers detected
otv	(Optional) IGMP Snooping OTV information
vlan	(Optional) Display VLAN multicast router information
vlan	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD multicast router information
bdid	(Optional) Specify BD
detail	(Optional) Display detailed mrouter information
__readonly__	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
TABLE_intf	(Optional)
if-name	(Optional)
uptime	(Optional)
expires	(Optional)
static	(Optional)
dynamic	(Optional)
internal	(Optional)
vpc	(Optional)
fabricpath-core-port	(Optional)
co-learned	(Optional)

user-configured	(Optional)
learnt-by-peer	(Optional)

Command Mode

- /exec

show ip igmp snooping pw vlan brief

show ip igmp snooping pw vlan brief [__readonly__ <vlan-id>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
pw	IGMP Snooping PW information
vlan	Display VLAN/BD information
brief	Brief output
__readonly__	(Optional)
vlan-id	(Optional)

Command Mode

- /exec

show ip igmp snooping querier

show ip igmp snooping querier [vlan <vlan> | bridge-domain <bdid>] [detail] [__readonly__ [TABLE_vlan <vlan-id> <qa> <qv> [<expires>] <qiod> <qname> <int> [<last_member_query_count>] [<config_last_member_query_count>] [<snooping_version>] [<config_qv>] [<robust>] [<config_robust>] [<startup_query_count>] [<config_startup_query_count>] [<startup_query_interval>] [<config_startup_query_interval>] [<mbr_query_interval>] [<config_mbr_query_interval>] [<snooping_query_intvl>] [<config_snooping_query_intvl>] [<gquery_response_time>] [<config_gquery_response_time>] [<querier_timeout>] [<querier_timeout_flag>]]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
querier	Display snooping querier information
vlan	(Optional) Display VLAN IGMP snooping querier information
vlan	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD IGMP snooping querier information
bdid	(Optional) Specify BD
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
qa	(Optional)
expires	(Optional)
qv	(Optional)
qiod	(Optional)
qname	(Optional)
int	(Optional)
last_member_query_count	(Optional)
config_last_member_query_count	(Optional)
snooping_version	(Optional)

config_qv	(Optional)
robust	(Optional)
config_robust	(Optional)
startup_query_count	(Optional)
config_startup_query_count	(Optional)
startup_query_interval	(Optional)
config_startup_query_interval	(Optional)
mbr_query_interval	(Optional)
config_mbr_query_interval	(Optional)
snooping_query_intvl	(Optional)
config_snooping_query_intvl	(Optional)
gquery_response_time	(Optional)
config_gquery_response_time	(Optional)
querier_timeout	(Optional)
querier_timeout_flag	(Optional)

Command Mode

- /exec

show ip igmp snooping report statistics

show ip igmp snooping { report-policy | access-group } statistics [vlan <vlan>] [__readonly__ [TABLE_vlanid { <vlan-id> <rpm-type> <policy-name> }]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
report-policy	IGMP Report Policy
access-group	IGMP access-group
statistics	Policy statistics
vlan	(Optional) Display VLAN IGMP snooping policy statistics information
vlan	(Optional) Specify VLAN
__readonly__	(Optional)
TABLE_vlanid	(Optional)
vlan-id	(Optional)
rpm-type	(Optional)
policy-name	(Optional)

Command Mode

- /exec

show ip igmp snooping statistics

show ip igmp snooping statistics [global | vlan <vlan> | bridge-domain <bdid>] [__readonly__ [<pr>] [<inv_pkt>] [<pnv>] [<loopbkpkt>] [<mrdloopbk>] [<pf>] [<vpcdrqs>] [<vpcdrqr>] [<vpcdrqf>] [<vpcdrus>] [<vpcdrur>] [<vpcdruf>] [<vpccfssf>] [<vpccfsrs>] [<vpccfsrr>] [<vpccfsrf>] [<vpccfsrfp>] [<vpccfsurls>] [<vpccfsurlr>] [<vpccfsurlf>] [<vpccfsrls>] [<vpccfsrlr>] [<vpccfsrlf>] [<inv_iod>] [<stptcnr>] [<imapif>] [<mfreqr>] [<mfcmps>] [<mfdgcmps>] [<bufsnt>] [<bufackr>] [<vpcmismatch>] [{ TABLE_vlan [<vlan-id>] [<ut>] [<vpr>] [<v1rr>] [<v2rr>] [<v3rr>] [<v1qr>] [<v2qr>] [<v3qr>] [<v2lr>] [<phr>] [<irr>] [<iqr>] [<v1rs>] [<v2rs>] [<v2ls>] [<v3gs>] [<vmr>] [<upr>] [<qo>] [<v2ro>] [<v2lo>] [<v3ro>] [<vpsr>] [<str>] [<mps>] [<mpr>] [<mpe>] [<cps>] [<cpr>] [<cpe>] [<repflooded>] [<repfwded>] }]]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
statistics	Display packet/error counter statistics
global	(Optional) Display global statistics
vlan	(Optional) Display VLAN statistics
vlan	(Optional) Specify VLAN
bridge-domain	(Optional) Display BD statistics
bdid	(Optional) Specify BD
__readonly__	(Optional)
pr	(Optional)
inv_pkt	(Optional)
pnv	(Optional)
loopbkpkt	(Optional)
mrdloopbk	(Optional)
pf	(Optional)
vpcdrqs	(Optional)
vpcdrqr	(Optional)
vpcdrqf	(Optional)

vpcdrus	(Optional)
vpcdrur	(Optional)
vpcdruf	(Optional)
vpccfssf	(Optional)
vpccfsrs	(Optional)
vpccfsrr	(Optional)
vpccfsrf	(Optional)
vpccfsrfp	(Optional)
vpccfsurls	(Optional)
vpccfsurlr	(Optional)
vpccfsurlf	(Optional)
vpccfsrls	(Optional)
vpccfsrlr	(Optional)
vpccfsrlf	(Optional)
inv_iod	(Optional)
stptcnr	(Optional)
imapif	(Optional)
mfreqr	(Optional)
mfcmps	(Optional)
mfdgcmps	(Optional)
bufsnt	(Optional)
bufackr	(Optional)
vpcmismatch	(Optional)
TABLE_vlan	(Optional)
vlan-id	(Optional)
ut	(Optional)
vpr	(Optional)
v1rr	(Optional)
v2rr	(Optional)

v3rr	(Optional)
v1qr	(Optional)
v2qr	(Optional)
v3qr	(Optional)
v2lr	(Optional)
phr	(Optional)
irr	(Optional)
iqr	(Optional)
v1rs	(Optional)
v2rs	(Optional)
v2ls	(Optional)
v3gs	(Optional)
vmr	(Optional)
upr	(Optional)
qo	(Optional)
v2ro	(Optional)
v2lo	(Optional)
v3ro	(Optional)
vpsr	(Optional)
str	(Optional)
cps	(Optional)
cpr	(Optional)
cpe	(Optional)
mps	(Optional)
mpr	(Optional)
mpe	(Optional)
repflooded	(Optional)
repfwded	(Optional)

Command Mode

- /exec

show ip igmp vrf all

show ip igmp vrf all [__readonly__ { TABLE_vrfname <vrf-name> <vrf-id> <instance> <work-in-txlist> } { TABLE_vrfid <vrf-name-i> <vrf-id-i> <instance-i> <work-in-txlist-i> }]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
vrf	Display per-VRF information
all	Display information for all VRFs
__readonly__	(Optional)
TABLE_vrfname	(Optional)
vrf-name	(Optional)
vrf-id	(Optional)
instance	(Optional)
work-in-txlist	(Optional)
TABLE_vrfid	(Optional)
vrf-name-i	(Optional)
vrf-id-i	(Optional)
instance-i	(Optional)
work-in-txlist-i	(Optional)

Command Mode

- /exec

show ip interface

show ip interface { { { brief [include-secondary] } | [<interface>] | [<ip-addr>] } [operational] [vaddr] [vrf { <vrf-name> | <vrf-known-name> | all }] } [__readonly__ [TABLE_intf [<vrf-name-out>] [<intf-name>] [<proto-state>] [<link-state>] [<admin-state>] [<iod>] [<first_unnum_iod>] [TABLE_unnuminf <unnum-child-inf>] [<prefix>] [<subnet>] [<masklen>] [TABLE_secondary_address <prefix1> <subnet1> <masklen1>] [<num-addr>] [<vaddr-client>] [<vaddr-prefix>] [<vaddr-subnet>] [<vaddr-masklen>] [<num-vaddr>] [<unnum-intf>] [<ip-disabled>] [<bcast-addr>] [<maddr>] + [<num-maddr>] [<mtu>] [<pref>] [<tag>] [<proxy-arp>] [<lcl-proxy-arp>] [<mrouting>] [<icmp-redirect>] [<dir-bcast>] [<ip-forwarding>] [<ip-unreach>] [<port-unreach>] [<urpf-mode>] [<ip-ls-type>] [<urpf-acl>] [<pbr-in>] [<pbr-out>] [<acl-in>] [<acl-out>] [<stats-last-reset>] [<upkt-sent>] [<upkt-recv>] [<upkt-fwd>] [<upkt-orig>] [<upkt-consumed>] [<ubyte-sent>] [<ubyte-recv>] [<ubyte-fwd>] [<ubyte-orig>] [<ubyte-consumed>] [<mpkt-sent>] [<mpkt-recv>] [<mpkt-fwd>] [<mpkt-orig>] [<mpkt-consumed>] [<mbyte-sent>] [<mbyte-recv>] [<mbyte-fwd>] [<mbyte-orig>] [<mbyte-consumed>] [<bpkt-sent>] [<bpkt-recv>] [<bpkt-fwd>] [<bpkt-orig>] [<bpkt-consumed>] [<bbyte-sent>] [<bbyte-recv>] [<bbyte-fwd>] [<bbyte-orig>] [<bbyte-consumed>] [<lpkt-sent>] [<lpkt-recv>] [<lpkt-fwd>] [<lpkt-orig>] [<lpkt-consumed>] [<lbyte-sent>] [<lbyte-recv>] [<lbyte-fwd>] [<lbyte-orig>] [<lbyte-consumed>] [<wccp-outbound>] [<wccp-inbound>] [<wccp-exclude>]]]

Syntax Description

show	Show running system information
ip	Display IP information
interface	Display IP related interface information
brief	Display summary of IP interface status and configuration
include-secondary	(Optional) Display summary of all IP addresses
operational	(Optional) Display only interfaces that are administratively enabled
interface	(Optional) Interface name to display
ip-addr	(Optional) Display interface for local IP address
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display all VRFs
vaddr	(Optional) Display virtual IP addresses as well
__readonly__	(Optional)
vrf-name-out	(Optional)
TABLE_intf	(Optional)

intf-name	(Optional)
iod	(Optional)
first_unnum_iod	(Optional)
prefix	(Optional)
proto-state	(Optional)
link-state	(Optional)
admin-state	(Optional)
subnet	(Optional)
masklen	(Optional)
TABLE_unnuminf	(Optional)
unnum-child-inf	(Optional)
TABLE_secondary_address	(Optional)
prefix1	(Optional)
subnet1	(Optional)
masklen1	(Optional)
num-addr	(Optional)
vaddr-client	(Optional)
vaddr-prefix	(Optional)
vaddr-subnet	(Optional)
vaddr-masklen	(Optional)
num-vaddr	(Optional)
unnum-intf	(Optional)
ip-disabled	(Optional)
bcast-addr	(Optional)
maddr	(Optional)
num-maddr	(Optional)
mtu	(Optional)
pref	(Optional)
tag	(Optional)

proxy-arp	(Optional)
lcl-proxy-arp	(Optional)
mrouting	(Optional)
icmp-redirect	(Optional)
dir-bcast	(Optional)
ip-forwarding	(Optional)
ip-unreach	(Optional)
port-unreach	(Optional)
urpf-mode	(Optional)
ip-ls-type	(Optional)
urpf-acl	(Optional)
pbr-in	(Optional)
pbr-out	(Optional)
acl-in	(Optional)
acl-out	(Optional)
stats-last-reset	(Optional)
upkt-sent	(Optional)
upkt-recv	(Optional)
upkt-fwd	(Optional)
upkt-orig	(Optional)
upkt-consumed	(Optional)
ubyte-sent	(Optional)
ubyte-recv	(Optional)
ubyte-fwd	(Optional)
ubyte-orig	(Optional)
ubyte-consumed	(Optional)
mpkt-sent	(Optional)
mpkt-recv	(Optional)
mpkt-fwd	(Optional)

mpkt-orig	(Optional)
mpkt-consumed	(Optional)
mbyte-sent	(Optional)
mbyte-recv	(Optional)
mbyte-fwd	(Optional)
mbyte-orig	(Optional)
mbyte-consumed	(Optional)
bpkt-sent	(Optional)
bpkt-recv	(Optional)
bpkt-fwd	(Optional)
bpkt-orig	(Optional)
bpkt-consumed	(Optional)
bbyte-sent	(Optional)
bbyte-recv	(Optional)
bbyte-fwd	(Optional)
bbyte-orig	(Optional)
bbyte-consumed	(Optional)
lpkt-sent	(Optional)
lpkt-recv	(Optional)
lpkt-fwd	(Optional)
lpkt-orig	(Optional)
lpkt-consumed	(Optional)
lbyte-sent	(Optional)
lbyte-recv	(Optional)
lbyte-fwd	(Optional)
lbyte-orig	(Optional)
lbyte-consumed	(Optional)
wccp-outbound	(Optional)
wccp-inbound	(Optional)

wccp-exclude	(Optional)

Command Mode

- /exec

show ip lisp

show { ip | ipv6 } lisp [database] [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
database	(Optional) Show EID-prefixes configured for site
vrf	(Optional) Display information for vrf
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp data-cache

show ip lisp data-cache [<eid>] [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

show	Show running system information
ip	Display IP information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
eid	(Optional) Display mapping for IP destination EID
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp locator-hash

{ { show ip lisp locator-hash { <eid-prefix> | { <source-eid> <dest-eid> } } [vrf { <vrf-name> | <vrf-known-name> }] } | { show ipv6 lisp locator-hash { <eid-prefix6> | { <source-eid6> <dest-eid6> } } [vrf { <vrf-name> | <vrf-known-name> }] } }

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
locator-hash	Display source and dest locators for EID pair
source-eid	Source IPv4 endpoint identifier (EID)
dest-eid	Destination IPv4 endpoint identifier (EID)
eid-prefix	Display exact match for IP EID-prefix entry
vrf	(Optional) Display information for vrf
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp map-cache

{ { show ip lisp map-cache [<eid> | <eid-prefix> | detail] [vrf { <vrf-name> | <vrf-known-name> }] } | { show ipv6 lisp map-cache [<eid6> | <eid-prefix6> | detail] [vrf { <vrf-name> | <vrf-known-name> }] } }

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
map-cache	Display EID-to-RLOC cache mapping in this ITR
vrf	(Optional) Display information for vrf
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
eid	(Optional) Display mapping for IP destination EID
eid-prefix	(Optional) Display exact match for IP EID-prefix entry
detail	(Optional) Display entire map-cache in long format

Command Mode

- /exec

show ip lisp statistics

show { ip | ipv6 } lisp statistics [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
statistics	Display global LISP statistics
vrf	(Optional) Display statistics information for vrf
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

Command Mode

- /exec

show ip lisp translate-cache

{ show ip lisp translate-cache [<nrEID>] } | { show ipv6 lisp translate-cache [<nrEID6>] }

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
translate-cache	Display configured translation cache
nrEID	(Optional) IPv4 address of inside non-routable EID
nrEID6	(Optional) IPv6 address of inside non-routable EID

Command Mode

- /exec

show ip load-sharing

show ip load-sharing [__readonly__ { <univer-id-ran-seed> [<l3-msg-load>] [<l34-msg-load>] [<dest-addr-load>] [<src-dst-ip-gre>] [<bad-load>] [<gre-outer-hash>] [<concatenation>] [<rotate>] [<src-dst-ip-gtpu>] }]

Syntax Description

show	Show running system information
ip	Configure IP features
load-sharing	Display global loadbalance info
__readonly__	(Optional)
univer-id-ran-seed	(Optional)
l3-msg-load	(Optional)
l34-msg-load	(Optional)
dest-addr-load	(Optional)
src-dst-ip-gre	(Optional)
bad-load	(Optional)
gre-outer-hash	(Optional)
concatenation	(Optional)
rotate	(Optional)
src-dst-ip-gtpu	(Optional)

Command Mode

- /exec

show ip local policy

show ip local policy [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_pbr [<interface>] [<rmap>] [<status>] [<vrf_name>] }]

Syntax Description

show	Show running system information
ip	Display IP information
local	IP local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
interface	(Optional)
rmap	(Optional)
status	(Optional)
vrf_name	(Optional)

Command Mode

- /exec

show ip logging

show ip logging [hash] [__readonly__]

Syntax Description

show	Show running system information
ip	Display IP information
logging	Display IP policy logging table
hash	(Optional) logging hash data
__readonly__	(Optional)

Command Mode

- /exec

show ip mbgp

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [{ ipv4 { unicast | multicast } | all }] } } { route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | { community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommlist-name> | <test_pol_name> } } [exact-match] } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
route-map	Display routes matching the route-map
rmap-name	Route-map name
rmap-name	Known route-map name
filter-list	Display routes matching the filter-list
fltrlist-name	Name of filter-list
community-list	Display routes matching the community-list
extcommunity-list	Display routes matching the extcommunity-list
commlist-name	Name of community-list
extcommlist-name	Name of extcommunity-list
test_pol_name	An existing test-list policy
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ip mbgp

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [{ ipv4 { unicast | multicast | mdt } | all }] } } [<ip-addr> [<ip-mask> [longer-prefixes]] | <ip-prefix> [longer-prefixes]] [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
ip-addr	(Optional) Display one particular network from the BRIB in detail
ip-mask	(Optional) Mask for one particular prefix in the BRIB
ip-prefix	(Optional) Display one particular prefix from the BRIB in detail
longer-prefixes	(Optional) Display route and more specific routes
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
mdt	(Optional) Display BGP information for multicast distribution tree
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip mbgp community

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [{ ipv4 { unicast | multicast } | all }] } } community { <regexp-str> | { { <comm-id> | <wellknown-id> } + [exact-match] } } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
community	Display routes matching the BGP communities
regexp-str	Regular expression to match the communities
comm-id	BGP community value
wellknown-id	BGP wellknown community
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ip mbgp dampening

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [{ ipv4 { unicast | multicast } | all }] } } dampening { dampened-paths [regexp <regexp-str>] | flap-statistics | parameters | history-paths [regexp <regexp-str>] } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
dampening	Display dampening info
dampened-paths	Display all dampened paths
flap-statistics	Display flap statistics for routes
parameters	Display dampening parameters
history-paths	Display all history paths
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
regexp	(Optional) Display routes matching the AS path regular expression
regexp-str	(Optional) Regular expression to match the AS paths

Command Mode

- /exec

show ip mbgp extcommunity

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [{ ipv4 { unicast | multicast } | all }] } } extcommunity { <regexp-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } } + [exact-match] } } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display BGP information for all address families
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
regexp-str	Regular expression to match the extcommunities
ext-comm-gen-trans	Extcommunity number aa4:nn format
ext-comm-gen-nontrans	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

Command Mode

- /exec

show ip mbgp flap-statistics

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [{ ipv4 { unicast | multicast } | all }] } } flap-statistics [<ip-prefix> | <ip-addr> [<ip-mask>]] [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
flap-statistics	Display route flap statistics
ip-prefix	(Optional) Display flap statistics for one prefix
ip-addr	(Optional) Display flap statistics for one network
ip-mask	(Optional) Network mask
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip mbgp neighbors

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [{ ipv4 { unicast | multicast } | all }] } } neighbors { [{ <neighbor-id> | <ipv6-neighbor-id> } [routes [advertised | received | dampened] | advertised-routes | received-routes | paths | flap-statistics]] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id> } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
neighbors	Display all configured BGP neighbors
neighbor-id	(Optional) Display one particular BGP neighbor
neighbor-prefix-id	Display details for a prefix peering
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

Command Mode

- /exec

show ip mbgp nexthop-database

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [{ ipv4 { unicast | multicast } | all }] } } nexthop-database [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
nexthop-database	Display nexthop database
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families

Command Mode

- /exec

show ip mbgp nexthop

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [ipv4 { unicast | multicast }] } nexthop <ipnexthop> [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
nexthop	Display routes matching the nexthop
ipnexthop	Nexthop address
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family

Command Mode

- /exec

show ip mbgp prefix-list

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [ipv4 { unicast | multicast }] } } prefix-list { <prfxlist-name> | <test_pol_name> } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
prefix-list	Display routes matching the prefix-list
prfxlist-name	Name of prefix-list
test_pol_name	An existing test-list policy
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family

Command Mode

- /exec

show ip mbgp received-paths

show ip { mbgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] | { bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [{ ipv4 { unicast | multicast } | all }] } } received-paths [private] [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ip	Display IP information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
ipv4	(Optional) Display BGP information for IPv4 address family
unicast	(Optional) Display BGP information for unicast address family
multicast	(Optional) Display BGP information for multicast address family
all	(Optional) Display BGP information for all address families
private	(Optional) private

Command Mode

- /exec

show ip mroute

show ip mroute [[[bitfield] [detail]] | sr | rp | [summary [count | software-forwarded | rpf-failed]] | { [[<source> <group>] | [<group> [<source>]]] [shared-tree | source-tree | mofrr] [[flags] | [detail] | [bitfield] | [summary [software-forwarded | rpf-failed]]] }] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name> [<expry_timer>] [<route_count>] [<star_g_cnt>] [<sg_cnt>] [<star_g_prfx_cnt>] [TABLE_route_summary [<total-num-routes>] [<star-g-route>] [<sg-route>] [<star-g-prfx>] [<group-count>] [<avg>] [<rem>] [<stats-pndg>]] [TABLE_summary_source [<group_addr>] [<group_mask_len>] [<source_count>] [TABLE_one_sg [<source_addr>] [<packets>] [<bytes>] [<aps>] [<pps>] [<rate_buf>] [<oifs>] [<software_fwd>] [<rpf-failed-pkts>] [<rpf-failed-bytes>]]] [TABLE_one_route <mcast-addrs> [<source_addrs> <group_addrs>] [<pending>] [<bidir>] [<uptime>] [<mofrr>] [TABLE_mpib [<mpib-name>] [<oif-count>] [<stale-route>]] [<mdt-encap-index>] [<stats-pkts>] [<stats-bytes>] [<stats-rate-buf>] [<lisp-src-rloc>] [<translated-route-src>] [<translated-route-grp>] [<route-iif>] [<rpf-nbr>] [<mofrr-iif>] [<mofrr-nbr>] [<internal>] [<oif-count>] [<fabric-oif>] [<fabric-loser>] [<num-vpc-svi-oifs>] [TABLE_oif [<oif-name>] [<oif-uptime>] [TABLE_oif_mpib [<oif-mpib-name>] [<stale-oif>] [<omd-vpc-svi>] [<core-interest>] [<fabric-interest>]] [<rpf>]] [<route-mdt-iod>] [<oif-list-bitfield>]]]

Syntax Description

show	Show running system information
ip	Display IP information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mroute	Display IP multicast routing table
summary	(Optional) Display route counts and packet rates
shared-tree	(Optional) Display route for *,G entries
source-tree	(Optional) Display route for S,G entries
software-forwarded	(Optional) Display software switched route counts only
rpf-failed	(Optional) Display RPF failure statistics
rp	(Optional) Display RP routes (RP, 0.0.0.0/32)
sr	(Optional) Display Service Reflect Routes only
mofrr	(Optional) Display mofrr routes
group	(Optional) Display multicast group/source address for route
source	(Optional) Display multicast group/source address for route

count	(Optional) Display route counts only
bitfield	(Optional) Display bitfield details
detail	(Optional) Display detailed route attributes
flags	(Optional) Display detailed route attributes
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
expry_timer	(Optional)
route_count	(Optional)
star_g_cnt	(Optional)
sg_cnt	(Optional)
star_g_prfx_cnt	(Optional)
TABLE_summary_source	(Optional)
group_addr	(Optional)
group_mask_len	(Optional)
source_count	(Optional)
TABLE_one_sg	(Optional)
source_addr	(Optional)
packets	(Optional)
bytes	(Optional)
aps	(Optional)
pps	(Optional)
rate_buf	(Optional)
oifs	(Optional)
software_fwd	(Optional)
rpf-failed-pkts	(Optional)
rpf-failed-bytes	(Optional)
TABLE_one_route	(Optional)
mcast-addrs	(Optional)

source_addrs	(Optional)
group_addrs	(Optional)
bidir	(Optional)
pending	(Optional)
mofrr	(Optional)
uptime	(Optional)
TABLE_mpib	(Optional)
mpib-name	(Optional)
oif-count	(Optional)
stale-route	(Optional)
mdt-encap-index	(Optional)
stats-pkts	(Optional)
stats-bytes	(Optional)
stats-rate-buf	(Optional)
lisp-src-rloc	(Optional)
translated-route-src	(Optional)
translated-route-grp	(Optional)
route-iif	(Optional)
rpf-nbr	(Optional)
mofrr-iif	(Optional)
mofrr-nbr	(Optional)
internal	(Optional)
oif-count	(Optional)
fabric-oif	(Optional)
fabric-loser	(Optional)
num-vpc-svi-oifs	(Optional)
TABLE_oif	(Optional)
oif-name	(Optional)
oif-uptime	(Optional)

TABLE_oif_mpib	(Optional)
oif-mpib-name	(Optional)
stale-oif	(Optional)
omd-vpc-svi	(Optional)
core-interest	(Optional)
fabric-interest	(Optional)
rpf	(Optional)
route-mdt-iod	(Optional)
oif-list-bitfield	(Optional)
TABLE_route_summary	(Optional)
total-num-routes	(Optional)
star-g-route	(Optional)
sg-route	(Optional)
star-g-prfx	(Optional)
group-count	(Optional)
avg	(Optional)
rem	(Optional)
stats-pndg	(Optional)

Command Mode

- /exec

show ip msdp count

show ip msdp count [<asn>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf [<out-vrf>] [<total-cnt>] [TABLE_asn [<out-asn>] [<src-cnt>] [<grp-cnt>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
count	Display SA cache counters
asn	(Optional) AS number
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-vrf	(Optional)
total-cnt	(Optional)
TABLE_asn	(Optional)
out-asn	(Optional)
src-cnt	(Optional)
grp-cnt	(Optional)

Command Mode

- /exec

show ip msdp event-history

show ip msdp [<asn>] [internal] event-history { errors | msgs | <msdp-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
asn	(Optional) AS number
internal	(Optional) Commands for internal use
event-history	Show various event logs of MSDP
errors	Error logs of MSDP
msgs	Message logs of MSDP
msdp-event-hist-buf-name	Buffer
statistics	Buffer state

Command Mode

- /exec

show ip msdp mesh-group

show ip msdp mesh-group [<mesh-group>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf [<out-vrf>] [TABLE_meshgroup [<meshgroup-name>] [TABLE_peer [<peer-ipaddr>] [<peer-asn>] [<peer-description>]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
mesh-group	Display members of mesh-group
mesh-group	(Optional) Display single mesh-group
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-vrf	(Optional)
TABLE_meshgroup	(Optional)
meshgroup-name	(Optional)
TABLE_peer	(Optional)
peer-ipaddr	(Optional)
peer-asn	(Optional)
peer-description	(Optional)

Command Mode

- /exec

show ip msdp peer

show ip msdp peer [<peer-address>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_peer [<peer-ipaddr>] [<out-vrf>] [<peer-asn>] [<local-ipaddr>] [<local-iface>] [<fully-configured>] [<peer-description>] [<connection-status>] [<peer-listening>] [<state-duration>] [<peer-uptime>] [<peer-rr>] [<peer-password>] [<peer-ki>] [<peer-kt>] [<peer-ri>] [<sa-in-policy>] [<sa-out-policy>] [<sa-limit>] [<mesh-name>] [<last-rcvd>] [<sa-rcvd>] [<sa-sent>] [<sa-req-rcvd>] [<sa-req-sent>] [<sa-resp-rcvd>] [<sa-resp-sent>] [<in-ctrl-msgs>] [<out-ctrl-msgs>] [<in-data-msgs>] [<out-data-msgs>] [<sa-ka-rcvd>] [<sa-ka-sent>] [<sa-notif-rcvd>] [<sa-notif-sent>] [<rem-port>] [<local-port>] [<rpf-failures>] [<cache-lifetime>] [<estb-transitions>] [<conn-attempts>] [<discont-time>]]]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
peer	Display MSDP peer information
peer-address	(Optional) IP address of MSDP peer
__readonly__	(Optional)
TABLE_peer	(Optional)
peer-ipaddr	(Optional)
out-vrf	(Optional)
peer-asn	(Optional)
local-ipaddr	(Optional)
local-iface	(Optional)
fully-configured	(Optional)
peer-description	(Optional)
connection-status	(Optional)
state-duration	(Optional)

peer-listening	(Optional)
peer-uptime	(Optional)
peer-password	(Optional)
peer-ki	(Optional)
peer-kt	(Optional)
peer-ri	(Optional)
peer-rr	(Optional)
sa-in-policy	(Optional)
sa-out-policy	(Optional)
sa-limit	(Optional)
mesh-name	(Optional)
last-rcvd	(Optional)
sa-rcvd	(Optional)
sa-sent	(Optional)
sa-req-rcvd	(Optional)
sa-req-sent	(Optional)
sa-resp-rcvd	(Optional)
sa-resp-sent	(Optional)
out-ctrl-msgs	(Optional)
in-ctrl-msgs	(Optional)
out-data-msgs	(Optional)
in-data-msgs	(Optional)
sa-ka-rcvd	(Optional)
sa-ka-sent	(Optional)
sa-notif-rcvd	(Optional)
sa-notif-sent	(Optional)
rem-port	(Optional)
local-port	(Optional)
rpf-failures	(Optional)

cache-lifetime	(Optional)
estb-transitions	(Optional)
conn-attempts	(Optional)
discont-time	(Optional)

Command Mode

- /exec

show ip msdp policy statistics sa-policy in

show ip msdp policy statistics sa-policy <peer-address> { in | out } [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [TABLE_routemap [<name>] [<action>] [<seq_num>] [TABLE_cmd [<command>] [<compare_count>] [<match_count>]]] [<total_accept_count>] [<total_reject_count>]]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	MSDP global configuration commands
policy	Policy information
statistics	Policy statistics
sa-policy	Configureed SA policy for MSDP peer
peer-address	IP address of MSDP peer for SA policy
in	Input policy
out	Output policy
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_routemap	(Optional)
name	(Optional)
action	(Optional)
seq_num	(Optional)
TABLE_cmd	(Optional)
command	(Optional)
compare_count	(Optional)
match_count	(Optional)
total_accept_count	(Optional)
total_reject_count	(Optional)

Command Mode

- /exec

show ip msdp rpf

show ip msdp rpf <rp-address> [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_rp [<out-rp-address>] [<out-vrf>] [TABLE_mesh [<peer-addr>] [<mesh-name>]] [<is-peer-cnt-one>] [<is-rp-peer>] [<is-bgp-alive>] [<bgp-peer-addr>] [<peer-asn>] [<origin-asn>] [<is-mbgp>]]]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
rpf	Display RPF-peer for RP address
rp-address	IP address of RP
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_rp	(Optional)
out-rp-address	(Optional)
out-vrf	(Optional)
TABLE_mesh	(Optional)
peer-addr	(Optional)
mesh-name	(Optional)
is-peer-cnt-one	(Optional)
is-rp-peer	(Optional)
is-bgp-alive	(Optional)
bgp-peer-addr	(Optional)
peer-asn	(Optional)
origin-asn	(Optional)
is-mbgp	(Optional)

Command Mode

- /exec

show ip msdp sa

show ip msdp { sa-cache | route } [{ <source> [<group>] } | { <group> [<source>] }] [<asn>] [peer <peer>] [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf [<out-vrf>] [<total-sa-count>] [TABLE_sa [<src-addr>] [<grp-addr>] [<rp-addr>] [<out-asn>] [<uptime>] [<peer-addr>] [<expire>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Display MSDP SA route cache
sa-cache	Display MSDP SA route cache
source	(Optional) Display group/source address for SA
group	(Optional) Display group/source address for SA
asn	(Optional) AS number
detail	(Optional) Display detailed information
peer	(Optional) Display MSDP SA received from single peer
peer	(Optional) IP address of peer for SA
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-vrf	(Optional)
total-sa-count	(Optional)
TABLE_sa	(Optional)
src-addr	(Optional)
grp-addr	(Optional)
rp-addr	(Optional)

peer-addr	(Optional)
out-asn	(Optional)
uptime	(Optional)
expire	(Optional)

Command Mode

- /exec

show ip msdp sources

show ip msdp sources [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_VRF [<out-vrf>] [TABLE_source [<source-addr>] [<count>] [<is-count-ge-limit>] [<is-limit-valid>] [<limit>] [<source-prefix>] [<violates>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
sources	Display learned sources with their group counts and limits
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_VRF	(Optional)
out-vrf	(Optional)
TABLE_source	(Optional)
source-addr	(Optional)
is-count-ge-limit	(Optional)
count	(Optional)
is-limit-valid	(Optional)
limit	(Optional)
source-prefix	(Optional)
violates	(Optional)

Command Mode

- /exec

show ip msdp statistics

show ip msdp statistics [<peer-address>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf [<out-vrf>] [<select-err>] [<recv-sel-err>] [TABLE_peer [<peer-address>] [<buffer-full>] [<recv-buf-full>] [<fatal-err>] [<recv-fat-err>] [<would-block>] [<recv-would-block>] [<sock-exp>] [<invalid-type>] [<invalid-len>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
statistics	Display internal statistics
peer-address	(Optional) IP address of MSDP peer
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-vrf	(Optional)
select-err	(Optional)
recv-sel-err	(Optional)
TABLE_peer	(Optional)
peer-address	(Optional)
buffer-full	(Optional)
recv-buf-full	(Optional)
fatal-err	(Optional)
recv-fat-err	(Optional)
would-block	(Optional)
recv-would-block	(Optional)
sock-exp	(Optional)

invalid-type	(Optional)
invalid-len	(Optional)

Command Mode

- /exec

show ip msdp summary

show ip msdp summary [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_VRF [<out-vrf>] [<local-asn>] [<originator-id>] [<config-peer-count>] [<estb-peer-count>] [<shut-peer-count>] [TABLE_peer [<peer-address>] [<peer-asn>] [<peer-state>] [<peer-uptime>] [<peer-last-msg>] [<peer-sa-rcvd>] [<peer-sa-limit>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary	Display MSDP peer summary
__readonly__	(Optional)
TABLE_VRF	(Optional)
out-vrf	(Optional)
local-asn	(Optional)
originator-id	(Optional)
config-peer-count	(Optional)
estb-peer-count	(Optional)
shut-peer-count	(Optional)
TABLE_peer	(Optional)
peer-address	(Optional)
peer-asn	(Optional)
peer-state	(Optional)
peer-uptime	(Optional)
peer-last-msg	(Optional)
peer-sa-rcvd	(Optional)

peer-sa-limit	(Optional)

Command Mode

- /exec

show ip nat-alias

show ip nat-alias [__readonly__ [TABLE_nat_alias_vrf [{ <nat-alias-vrf-name> [TABLE_each_vrf_alias { <nat-alias-addr> <nat-alias-intr> }] }]]]

Syntax Description

show	Show running system information
ip	Display IP information
nat-alias	Display aliases registered by NAT module
__readonly__	(Optional)
TABLE_nat_alias_vrf	(Optional)
nat-alias-vrf-name	(Optional)
TABLE_each_vrf_alias	(Optional)
nat-alias-addr	(Optional)
nat-alias-intr	(Optional)

Command Mode

- /exec

show ip nat max

show ip nat max [__readonly__ <max_dyn_translations> <max_all_host> <static_translations> <dynamic_translations> <icmp_translations>]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
max	IP NAT max values
__readonly__	(Optional)
max_dyn_translations	(Optional) Max Dynamic Translations
max_all_host	(Optional) Max All Hosts
static_translations	(Optional) No. Static Translations
dynamic_translations	(Optional) No. Dynamic Translations
icmp_translations	(Optional) No. ICMP Translations

Command Mode

- /exec

show ip nat statistics

show ip nat statistics [__readonly__ <last_clear_time> <total_active_translations> <static_translations> <dynamic_translations> <icmp_translations> <total_exp_translations> <syn_exp_translations> <finrst_exp_translations> <inactive_exp_translations> <total_hits> <total_misses> <io_hits> <io_misses> <oi_hits> <oi_misses> <total_sw_translated> <io_sw_translated> <oi_sw_translated> <total_sw_dropped> <io_sw_dropped> <oi_sw_dropped> <addr_alloc_fail_drop> <port_alloc_fail_drop> <dyn_trans_maxlimit_drop> <icmp_maxlimit_drop> <allhost_maxlimit_drop> <total_tcp_session_created> <total_tcp_session_closed> [<Total_NAT_inside_interfaces>] [{ TABLE_NAT_inside_interfaces [<nat_inside_interfaces>] }] [<Total_NAT_outside_interfaces>] [{ TABLE_NAT_outside_interfaces [<nat_outside_interfaces>] }] [{ TABLE_NAT_inside_source_list [<nat_in_acl_name>] [<nat_in_acl_refcount>] [<nat_in_pool_name>] [<nat_pool_overload>] [<in_pool_total_address>] [<in_pool_allocated>] [<in_pool_missed>] [<interface_name>] [<interface_status>] [<interface_ip_addr>] }] [{ TABLE_NAT_outside_source_list [<nat_out_acl_name>] [<nat_out_acl_refcount>] [<nat_out_pool_name>] [<out_pool_total_address>] [<out_pool_allocated>] [<out_pool_missed>] }]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
statistics	Translation statistics
__readonly__	(Optional)
last_clear_time	(Optional) Clearable stats collected from
total_active_translations	(Optional) Total active translations
static_translations	(Optional) No. Static Translations
dynamic_translations	(Optional) No. Dynamic Translations
icmp_translations	(Optional) No. ICMP Translations
total_exp_translations	(Optional) Total expired Translations
syn_exp_translations	(Optional) SYN timer expired Translations
finrst_exp_translations	(Optional) FIN-RST timer expired Translations
inactive_exp_translations	(Optional) Inactive timer expired Translations
total_hits	(Optional) Total Hits
total_misses	(Optional) Total Misses
io_hits	(Optional) In-Out Hits
io_misses	(Optional) In-Out Misses

oi_hits	(Optional) Out-In Hits
oi_misses	(Optional) Out-In Misses
total_sw_translated	(Optional) Total SW Translated Packets
io_sw_translated	(Optional) In-Out SW Translated Packets
oi_sw_translated	(Optional) Out-In SW Translated Packets
total_sw_dropped	(Optional) Total SW Dropped Packets
io_sw_dropped	(Optional) In-Out SW Dropped Packets
oi_sw_dropped	(Optional) Out-In SW Dropped Packets
addr_alloc_fail_drop	(Optional) Address alloc. failure dropped Packets
port_alloc_fail_drop	(Optional) Port alloc. failure dropped Packets
dyn_trans_maxlimit_drop	(Optional) Dyn. Translation max limit dropped Packets
icmp_maxlimit_drop	(Optional) ICMP max limit dropped Packets
allhost_maxlimit_drop	(Optional) Allhost max limit dropped Packets
total_tcp_session_created	(Optional) Total tcp session created
total_tcp_session_closed	(Optional) Total tcp session closed
Total_NAT_inside_interfaces	(Optional) Number of NAT inside interfaces
TABLE_NAT_inside_interfaces	(Optional) NAT inside interfaces
nat_inside_interfaces	(Optional) NAT Inside Interfaces
Total_NAT_outside_interfaces	(Optional) Number of NAT outside interfaces
TABLE_NAT_outside_interfaces	(Optional) NAT outside interfaces
nat_outside_interfaces	(Optional) NAT Outside Interfaces
TABLE_NAT_inside_source_list	(Optional) NAT Inside source list
TABLE_NAT_outside_source_list	(Optional) NAT Outside source list
nat_in_acl_name	(Optional) NAT inside access list name
nat_out_acl_name	(Optional) NAT outside access list name
nat_in_acl_refcount	(Optional) NAT inside access list ref. count
nat_out_acl_refcount	(Optional) NAT outside access list ref. count
nat_in_pool_name	(Optional) NAT inside Pool name
nat_out_pool_name	(Optional) NAT outside Pool name

nat_pool_overload	(Optional) NAT Pool overload
in_pool_total_address	(Optional) Total address in the inside pool
out_pool_total_address	(Optional) Total address in the outside pool
in_pool_allocated	(Optional) Total address allocated in the inside pool
out_pool_allocated	(Optional) Total address allocated in the outside pool
in_pool_missed	(Optional) Total failed address allocation in the inside pool
out_pool_missed	(Optional) Total failed address allocation in the outside pool
interface_name	(Optional) NAT source list interface name
interface_status	(Optional) NAT source list interface status
interface_ip_addr	(Optional) NAT source list interface addr

Command Mode

- /exec

show ip nat timeout

show ip nat timeout [__readonly__ <tcp_timeout> <udp_timeout> [<icmp_timeout>] <dynamic_timeout> [<sampling_timeout>] [<syn_timeout>] [<finrst_timeout>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
timeout	IP NAT timeout values
__readonly__	(Optional)
tcp_timeout	(Optional) TCP Timeout
udp_timeout	(Optional) UDP Timeout
icmp_timeout	(Optional) ICMP Timeout
dynamic_timeout	(Optional) Dynamic Timeout
sampling_timeout	(Optional) Sampling Timeout
syn_timeout	(Optional) SYN Timeout
finrst_timeout	(Optional) FINRST Timeout

Command Mode

- /exec

show ip nat translations

show ip nat translations [vrf { <vrf-name> | <vrf-known-name> | all }] [verbose] [internal-detail] [__readonly__ { TABLE_nat_translation [<Protocol>] [<Inside_global_IP_V4_Address>] [<Inside_global_port>] [<Inside_local_IP_V4_Address>] [<Inside_local_port>] [<Outside_local_IP_V4_Address>] [<Outside_local_port>] [<Outside_global_IP_V4_Address>] [<Outside_global_port>] [<VRF>] [<In_stats_count>] [<Out_stats_count>] [<Group_id>] [<Time_left>] [<Syn>] [<Fin_rst>] [<Flags>] [<Entry_id>] [<State>] }]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
nat	IP NAT information
translations	Translation entries
verbose	(Optional) Show extra information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display all vrfs
internal-detail	(Optional) Display internal debugs
__readonly__	(Optional) Readonly
TABLE_nat_translation	(Optional) NAT Translation Table
Protocol	(Optional) Protocol
Inside_global_IP_V4_Address	(Optional) Inside global address
Inside_global_port	(Optional) Inside global port
Inside_local_IP_V4_Address	(Optional) Inside local address
Inside_local_port	(Optional) Inside local port
Outside_local_IP_V4_Address	(Optional) Outside local address
Outside_local_port	(Optional) Outside local port
Outside_global_IP_V4_Address	(Optional) Outside global address
Outside_global_port	(Optional) Outside global port
Flags	(Optional) Flags

In_stats_count	(Optional) In stats count
Out_stats_count	(Optional) Out stats count
Entry_id	(Optional) Entry ID
State	(Optional) State
Group_id	(Optional) Group ID
VRF	(Optional) VRF
Time_left	(Optional) Time Left (HH:MM:SS)
Syn	(Optional) Syn
Fin_rst	(Optional) FIN RESET

Command Mode

- /exec

show ip ospf

show ip ospf [<tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <instance_number> <cname> <rid> [<domain_id_type>] [<domain_id_value>] [<domain_tag>] [<dn_bit_ignore>] <stateful_ha> <gr_ha> [<gr_planned_only>] [<gr_grace_period>] [<gr_state>] [<gr_last_status>] [<gr_helper_mode>] <support_tos0_only> <support_opaque_lsa> [<low_mem_cond>] <is_abr> <is_asbr> [<max_lsa_non_self_number>] [<max_lsa_state>] [<max_lsa_warning_only>] [<max_lsa_current_non_self_lsa_number>] [<max_lsa_threshold_pct>] [<max_lsa_ignore_time>] [<max_lsa_reset_time>] [<max_lsa_ignore_count>] [<max_lsa_current_ignore_count>] [<max_lsa_ignore_time_left>] [<max_lsa_reset_time_left>] [<max_lsa_permanent_ignore>] [{ TABLE_redist <proto> [<max_lsas>] [<warning>] [<threshold>] [<current_count>] }] <admin_dist> <ref_bw> <spf_start_time> <spf_hold_time> <spf_max_time> <lsa_start_time> <lsa_hold_time> <lsa_max_time> <min_lsa_arr_time> <lsa_aging_pace> <spf_max_paths> <max_metric_adver> [[<max_metric_time_left>] [<max_metric_wait_bgp>] [<max_metric_timeout>] [<max_metric_always>] [<max_metric_sum_lsa>] [<max_metric_ext_lsa>]] <asext_lsa_cnt> <asext_lsa_crc> <asopaque_lsa_cnt> <asopaque_lsa_crc> <area_total> <area_normal> <area_stub> <area_nssa> <act_area_total> <act_area_normal> <act_area_stub> <act_area_nssa> [<name_lookup>] <no_discard_rt_ext> <no_discard_rt_int> [<passive_dflt>] [<bfd_enabled>] [<segrt_configured>] [<segrt_enabled>] [{ <srgb_min_label> <srgb_max_label> }] [{ TABLE_area <aname> [<backbone_active>] [<active>] <age> <total_intf> <act_intf> <passive_intf> <loopback_intf> [<gr_nbr_cnt>] <stub> [<stub_def_cost>] <nssa> [<no_redist>] [<nssa_trans>] <no_summary> <auth_type> [{ <area_segrt_configured> | <area_segrt_disabled_by_config> }] [<area_segrt_enabled>] <spf_runs> <last_spf_run_time> [TABLE_range <addr> <masklen> <state> <nets> <advertise> [<cost>]] [<filter_in>] [<filter_out>] <lsa_cnt> <lsa_crc> }]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
instance_number	(Optional)
cname	(Optional)
rid	(Optional)

domain_id_type	(Optional)
domain_id_value	(Optional)
domain_tag	(Optional)
dn_bit_ignore	(Optional)
stateful_ha	(Optional)
gr_ha	(Optional)
gr_planned_only	(Optional)
gr_grace_period	(Optional)
gr_state	(Optional)
gr_last_status	(Optional)
gr_helper_mode	(Optional)
support_tos0_only	(Optional)
support_opaque_lsa	(Optional)
low_mem_cond	(Optional)
is_abr	(Optional)
is_asbr	(Optional)
max_lsa_non_self_number	(Optional)
max_lsa_state	(Optional)
max_lsa_warning_only	(Optional)
max_lsa_current_non_self_lsa_number	(Optional)
max_lsa_threshold_pct	(Optional)
max_lsa_ignore_time	(Optional)
max_lsa_reset_time	(Optional)
max_lsa_ignore_count	(Optional)
max_lsa_current_ignore_count	(Optional)
max_lsa_ignore_time_left	(Optional)
max_lsa_reset_time_left	(Optional)
max_lsa_permanent_ignore	(Optional)
TABLE_redist	(Optional)

proto	(Optional)
max_lsas	(Optional)
warning	(Optional)
threshold	(Optional)
current_count	(Optional)
admin_dist	(Optional)
ref_bw	(Optional)
spf_start_time	(Optional)
spf_hold_time	(Optional)
spf_max_time	(Optional)
lsa_start_time	(Optional)
lsa_hold_time	(Optional)
lsa_max_time	(Optional)
min_lsa_arr_time	(Optional)
lsa_aging_pace	(Optional)
spf_max_paths	(Optional)
max_metric_adver	(Optional)
max_metric_time_left	(Optional)
max_metric_wait_bgp	(Optional)
max_metric_timeout	(Optional)
max_metric_always	(Optional)
max_metric_sum_lsa	(Optional)
max_metric_ext_lsa	(Optional)
asext_lsa_cnt	(Optional)
asext_lsa_crc	(Optional)
asopaque_lsa_cnt	(Optional)
asopaque_lsa_crc	(Optional)
area_total	(Optional)
area_normal	(Optional)

area_stub	(Optional)
area_nssa	(Optional)
act_area_total	(Optional)
act_area_normal	(Optional)
act_area_stub	(Optional)
act_area_nssa	(Optional)
name_lookup	(Optional)
no_discard_rt_ext	(Optional)
no_discard_rt_int	(Optional)
passive_dflt	(Optional)
bfd_enabled	(Optional)
segrt_configured	(Optional)
segrt_enabled	(Optional)
srgb_min_label	(Optional)
srgb_max_label	(Optional)
TABLE_area	(Optional)
aname	(Optional)
backbone_active	(Optional)
active	(Optional)
age	(Optional)
total_intf	(Optional)
act_intf	(Optional)
passive_intf	(Optional)
loopback_intf	(Optional)
gr_nbr_cnt	(Optional)
stub	(Optional)
stub_def_cost	(Optional)
nssa	(Optional)
no_redist	(Optional)

nssa_trans	(Optional)
no_summary	(Optional)
auth_type	(Optional)
area_segrt_configured	(Optional)
area_segrt_disabled_by_config	(Optional)
area_segrt_enabled	(Optional)
spf_runs	(Optional)
last_spf_run_time	(Optional)
TABLE_range	(Optional)
addr	(Optional)
masklen	(Optional)
state	(Optional)
nets	(Optional)
advertise	(Optional)
cost	(Optional)
filter_in	(Optional)
filter_out	(Optional)
lsa_cnt	(Optional)
lsa_crc	(Optional)

Command Mode

- /exec

show ip ospf border-routers

show ip ospf [<tag>] border-routers [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> [TABLE_br <type> <addr> <cost> <asbr> <abr> <area> <spf_inst> [<vlink_unresolved>] [TABLE_br_ubest_nh [<ubest_nh_addr>] [<ubest_nh_intf>]] [TABLE_br_mbest_nh [<mbest_nh_addr>] [<mbest_nh_intf>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
border-routers	Border routers
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_br	(Optional)
type	(Optional)
addr	(Optional)
cost	(Optional)
asbr	(Optional)
abr	(Optional)
area	(Optional)
spf_inst	(Optional)
vlink_unresolved	(Optional)
TABLE_br_ubest_nh	(Optional)

ubest_nh_addr	(Optional)
ubest_nh_intf	(Optional)
TABLE_br_mbest_nh	(Optional)
mbest_nh_addr	(Optional)
mbest_nh_intf	(Optional)

Command Mode

- /exec

show ip ospf database

show ip ospf [<tag>] database [[[[network | asbr-summary | summary | router | opaque-link | opaque-area [type { router-information | ext-prefix | ext-link }] | nssa-external] [area <area-id-ip>]] | external [ext_tag <tag_val>] | opaque-as] [<lsid>] [self-originated | adv-router <advid> | adv-router-name <adv-name>]] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <rid> <ptag> <cname> [TABLE_db2_lsa <name> [<area>] <id> <advrtr> <age> <seqno> <cksum> [<opaque_id>] [<prefix>] [<prefix_mask>] [<srgb_base>] [<srgb_range>] [<corrupt>] [<rtr_num_links>] [<tag>]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs
opaque-link	(Optional) Display Opaque Link-Local LSAs
opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
lsid	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
advid	(Optional) Advertising router ID

adv-router-name	(Optional) Restrict display by Advertising router name
adv-name	(Optional) DNS Name of the Advertising router
area	(Optional) Display only LSA's in this area
area-id-ip	(Optional) Area Id as an integer or ip address
ext_tag	(Optional) Restrict display by tag
tag_val	(Optional) 32-bit tag value
type	(Optional) Opaque type
router-information	(Optional) Router Information (RI) Opaque LSA
ext-prefix	(Optional) Extended Prefix Opaque LSA
ext-link	(Optional) Extended Link Opaque LSA
tag	(Optional)
__readonly__	(Optional)
TABLE_ctx	(Optional)
rid	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_db2_lsa	(Optional)
name	(Optional)
area	(Optional)
id	(Optional)
advrtr	(Optional)
age	(Optional)
seqno	(Optional)
cksum	(Optional)
opaque_id	(Optional)
prefix	(Optional)
prefix_mask	(Optional)
srgb_base	(Optional)
srgb_range	(Optional)

corrupt	(Optional)
rtr_num_links	(Optional)

Command Mode

- /exec

show ip ospf database database-summary

show ip ospf [<tag>] database database-summary [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <rid> <ptag> <cname> [TABLE_dbsum [TABLE_dbsum_area <area> [TABLE_dbsum_area_lsa <area_lsa_name> <area_lsa_count>] <area_lsa_total>] [TABLE_dbsum_all [TABLE_dbsum_lsa_all <lsa_name> <lsa_count>] <non_self_lsa_total> <lsa_total>]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
database-summary	Summary of database
__readonly__	(Optional)
TABLE_ctx	(Optional)
rid	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_dbsum	(Optional)
TABLE_dbsum_area	(Optional)
area	(Optional)
TABLE_dbsum_area_lsa	(Optional)
area_lsa_name	(Optional)
area_lsa_count	(Optional)
area_lsa_total	(Optional)
TABLE_dbsum_all	(Optional)

TABLE_dbsum_lsa_all	(Optional)
lsa_name	(Optional)
lsa_count	(Optional)
non_self_lsa_total	(Optional)
lsa_total	(Optional)

Command Mode

- /exec

show ip ospf database detail

show ip ospf [<tag>] database [[[network | asbr-summary | summary | router | opaque-link | opaque-area [type { router-information | ext-prefix | ext-link }] | nssa-external] [area <area-id-ip>]] | external [ext_tag <tag_val>] | opaque-as] [<lsid>] [self-originated | adv-router <advid> | adv-router-name <adv-name>] detail [private] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <rid> <ptag> <cname> [TABLE_db2_lsa <name> [<area>] [<rtr_max_metric>] [TABLE_lsdb <age> <maxage> <options> <options_str> <wrapping> <dummy> <flush_pending> <type> <id> <id_str> [<opaque_type>] [<opaque_type_str>] [<opaque_id>] [<prefix>] [<prefix_mask>] [<srgb_base>] [<srgb_range>] <advrtr> <seqno> <cksum> <len> [<corrupt>] [<rtr_abr>] [<rtr_asbr>] [<rtr_translate>] [<rtr_vlink_end>] [<rtr_num_links>] [<rtr_links_mismatch>] [TABLE_rlsa [<rtr_link_type>] [<rtr_link_id_str>] [<rtr_link_id>] [<rtr_link_data_str>] [<rtr_link_data>] [<rtr_link_num_tos>] [<rtr_link_metric>] [TABLE_rlinktos [<rtr_link_tos_id>] [<rtr_link_tos_metric>]]] [<net_mask>] [TABLE_netlsa [<net_rtr>]] [<sum_mask>] [<sum_metric>] [TABLE_sumlsa [<sum_tos_id>] [<sum_tos_metric>]] [<nssa_mask>] [<nssa_metric_type2>] [<nssa_metric>] [<nssa_fwd_addr>] [<nssa_tag>] [TABLE_nssa [<nssa_tos_metric_type2>] [<nssa_tos_id>] [<nssa_tos_metric>] [<nssa_tos_fwd_addr>] [<nssa_tos_tag>]] [<asext_mask>] [<asext_metric_type2>] [<asext_metric>] [<asext_fwd_addr>] [<asext_tag>] [TABLE_asext [<asext_tos_metric_type2>] [<asext_tos_id> <asext_tos_metric>] [<asext_tos_fwd_addr>] [<asext_tos_tag>]] [<opaque_link_intf>] [<opaque_unknown>] [<opaque_data_len>] [<opaque_data>] [<opaque_corrupt>] [<tlv_type>] [<tlv_len>] [<tlv_data>] [<tlv_unknown>] [<gr_interval>] [<gr_reason>] [<gr_addr>] [<te_frag_id>] [<te_rtr_id>] [<te_link_type>] [<te_link_id>] [<te_link_metric>] [<te_link_max_bw>] [<te_link_rsv_bw>] [<te_link_unrsv_bw>] [<te_link_admin>] [<te_num_links>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Link-state Database Summary
network	(Optional) Display network LSAs
asbr-summary	(Optional) Display type 4 (asbr-summary) LSAs
external	(Optional) Display type 5 (external) LSAs
router	(Optional) Display router LSAs
nssa-external	(Optional) Display type 7 (NSSA external) LSAs

opaque-link	(Optional) Display Opaque Link-Local LSAs
opaque-area	(Optional) Display Opaque Area LSAs
opaque-as	(Optional) Display Opaque AS LSAs
summary	(Optional) Display type 3 (network-summary) LSAs
self-originated	(Optional) Display only self-originated LSAs
lsid	(Optional) Restrict display by link state ID
adv-router	(Optional) Restrict display by Advertising router
advid	(Optional) Advertising router ID
adv-router-name	(Optional) Restrict display by Advertising router name
adv-name	(Optional) DNS Name of the Advertising router
area	(Optional) Display only LSA's in this area
area-id-ip	(Optional) Area Id as an integer or ip address
ext_tag	(Optional) Restrict display by tag
tag_val	(Optional) 32-bit tag value
type	(Optional) Opaque type
router-information	(Optional) Router Information (RI) Opaque LSA
ext-prefix	(Optional) Extended Prefix Opaque LSA
ext-link	(Optional) Extended Link Opaque LSA
detail	Display LSA in detail
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
rid	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_db2_lsa	(Optional)
name	(Optional)
area	(Optional)
rtr_max_metric	(Optional)

TABLE_lsdb	(Optional)
age	(Optional)
maxage	(Optional)
options	(Optional)
options_str	(Optional)
wrapping	(Optional)
dummy	(Optional)
flush_pending	(Optional)
type	(Optional)
id	(Optional)
id_str	(Optional)
opaque_type	(Optional)
opaque_type_str	(Optional)
opaque_id	(Optional)
prefix	(Optional)
prefix_mask	(Optional)
srgb_base	(Optional)
srgb_range	(Optional)
advrtr	(Optional)
seqno	(Optional)
cksum	(Optional)
len	(Optional)
corrupt	(Optional)
rtr_abr	(Optional)
rtr_asbr	(Optional)
rtr_translate	(Optional)
rtr_vlink_end	(Optional)
rtr_num_links	(Optional)
rtr_links_mismatch	(Optional)

TABLE_rlsa	(Optional)
rtr_link_type	(Optional)
rtr_link_id_str	(Optional)
rtr_link_id	(Optional)
rtr_link_data_str	(Optional)
rtr_link_data	(Optional)
rtr_link_num_tos	(Optional)
rtr_link_metric	(Optional)
TABLE_rlinktos	(Optional)
rtr_link_tos_id	(Optional)
rtr_link_tos_metric	(Optional)
net_mask	(Optional)
TABLE_netlsa	(Optional)
net_rtr	(Optional)
sum_mask	(Optional)
sum_metric	(Optional)
TABLE_sumlsa	(Optional)
sum_tos_id	(Optional)
sum_tos_metric	(Optional)
nssa_mask	(Optional)
nssa_metric_type2	(Optional)
nssa_metric	(Optional)
nssa_fwd_addr	(Optional)
nssa_tag	(Optional)
TABLE_nssa	(Optional)
nssa_tos_metric_type2	(Optional)
nssa_tos_id	(Optional)
nssa_tos_metric	(Optional)
nssa_tos_fwd_addr	(Optional)

nssa_tos_tag	(Optional)
asext_mask	(Optional)
asext_metric_type2	(Optional)
asext_metric	(Optional)
asext_fwd_addr	(Optional)
asext_tag	(Optional)
TABLE_asext	(Optional)
asext_tos_metric_type2	(Optional)
asext_tos_id	(Optional)
asext_tos_metric	(Optional)
asext_tos_fwd_addr	(Optional)
asext_tos_tag	(Optional)
opaque_link_intf	(Optional)
opaque_unknown	(Optional)
opaque_data_len	(Optional)
opaque_data	(Optional)
opaque_corrupt	(Optional)
tlv_type	(Optional)
tlv_len	(Optional)
tlv_data	(Optional)
tlv_unknown	(Optional)
gr_interval	(Optional)
gr_reason	(Optional)
gr_addr	(Optional)
te_frag_id	(Optional)
te_rtr_id	(Optional)
te_link_type	(Optional)
te_link_id	(Optional)
te_link_metric	(Optional)

te_link_max_bw	(Optional)
te_link_rsv_bw	(Optional)
te_link_unrsv_bw	(Optional)
te_link_admin	(Optional)
te_num_links	(Optional)

Command Mode

- /exec

show ip ospf event-history

show ip ospf [<tag>] [internal] event-history { errors | msgs | statistics | adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | cli | objstore | segrt }

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show various event logs of OSPF
errors	Error logs
msgs	IPC logs
statistics	Show the state and size of the buffers
adjacency	Adjacency formation logs
event	Internal event logs
ha	HA and GR logs
flooding	LSA flooding logs
lsa	LSA generation and databse logs
spf	SPF calculation logs
redistribution	Redistribution logs
ldp	LDP related logs
te	MPLS TE related logs
rib	RIB related logs
hello	Hello related logs
cli	Cli logs
spf-trigger	SPF TRIGGER related logs
objstore	DME OBJSTORE related logs
segrt	Segment Routing logs

Command Mode

- /exec

show ip ospf event-history detail

show ip ospf [<tag>] [internal] event-history detail [statistics]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show event history of OSPF
detail	Show detailed event history information
statistics	(Optional) Show the state and size of the verbose history buffer

Command Mode

- /exec

show ip ospf interface

show ip ospf [<tag>] interface [<interface> | vrf { <vrf-name> | <vrf-known-name> | all }] [private] [__readonly__ TABLE_ctx <ptag> <cname> [TABLE_intf <ifname> <admin_status> <proto_status> [<unnumbered>] <addr> [<masklen>] [<parent_intf>] <area> [<if_cfg>] <state_str> <type_str> <cost> [<bfd_enabled>] [<ldp_sync>] [<dc_enabled>] [<sid_index>] [<sid_n_flag_clear>] [<sid_exp_null>] <index> [<passive>] [<mpls>] [<transmit_delay>] [<if_priority>] [<dr_rid>] [<dr_addr>] [<bdr_rid>] [<bdr_addr>] [<nbr_total>] [<nbr_flood>] [<nbr_adjs>] [<gr_nbr>] [<hello_interval>] [<dead_interval>] [<wait_interval>] [<rxmt_interval>] [<hello_timer>] [<wait_timer>] [<lsu_timer>] [<lsack_timer>] [<auth_type>] [<keychain_name>] [<keychain_ready>] [<auth_md5_keyid>] [<auth_keyid>] [<auth_algo>] [<link_lsa_cnt>] [<link_lsa_crc>] [<multi_area_cnt>] [<multi_area_adj>]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
interface	(Optional) OSPF enabled interface
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_intf	(Optional)
ifname	(Optional)
admin_status	(Optional)
proto_status	(Optional)
unnumbered	(Optional)

addr	(Optional)
masklen	(Optional)
parent_intf	(Optional)
area	(Optional)
if_cfg	(Optional)
state_str	(Optional)
type_str	(Optional)
cost	(Optional)
bfd_enabled	(Optional)
ldp_sync	(Optional)
dc_enabled	(Optional)
sid_index	(Optional)
sid_n_flag_clear	(Optional)
sid_exp_null	(Optional)
index	(Optional)
passive	(Optional)
mpls	(Optional)
transmit_delay	(Optional)
if_priority	(Optional)
dr_rid	(Optional)
dr_addr	(Optional)
bdr_rid	(Optional)
bdr_addr	(Optional)
nbr_total	(Optional)
nbr_flood	(Optional)
nbr_adjs	(Optional)
gr_nbr	(Optional)
hello_interval	(Optional)
dead_interval	(Optional)

wait_interval	(Optional)
rxmt_interval	(Optional)
hello_timer	(Optional)
wait_timer	(Optional)
lsu_timer	(Optional)
lsack_timer	(Optional)
auth_type	(Optional)
keychain_name	(Optional)
keychain_ready	(Optional)
auth_md5_keyid	(Optional)
auth_keyid	(Optional)
auth_algo	(Optional)
link_lsa_cnt	(Optional)
link_lsa_crc	(Optional)
multi_area_cnt	(Optional)
multi_area_adj	(Optional)

Command Mode

- /exec

show ip ospf interface brief

show ip ospf [<tag>] interface brief [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname> <index> <area> <cost> <state_str> <nbr_total> <admin_status>]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	OSPF enabled interface
brief	Display summary of OSPF interfaces
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
intf_count	(Optional)
TABLE_intf	(Optional)
ifname	(Optional)
index	(Optional)
area	(Optional)
cost	(Optional)
state_str	(Optional)
nbr_total	(Optional)
admin_status	(Optional)

Command Mode

- /exec

show ip ospf lsa-content-changed-list

show ip ospf [<tag>] lsa-content-changed-list { <ip-addr> | <neighbor-name> } <interface> [__readonly__ [TABLE_ctx <ptag> <cname> [TABLE_lschg <nbr_rid> <intf> <nbr_addr> [TABLE_lsa [<type>] [<lsid>] [<advrtr>] [<seqno>] [<cksum>] [<age>]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
lsa-content-changed-list	LSAs that changed contents
interface	OSPF enabled interface
ip-addr	Neighbor router ID
neighbor-name	DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_lschg	(Optional)
nbr_rid	(Optional)
intf	(Optional)
nbr_addr	(Optional)
TABLE_lsa	(Optional)
type	(Optional)
lsid	(Optional)
advrtr	(Optional)
seqno	(Optional)
cksum	(Optional)
age	(Optional)

Command Mode

- /exec

show ip ospf neighbors

show ip ospf [<tag>] neighbors [{ { <interface> [<neighbor> | <neighbor-name>] } | { [<neighbor> | <neighbor-name>] [vrf { <vrf-name> | <vrf-known-name> | all }] } }] [__readonly__ TABLE_ctx <ptag> <cname> <nbrcount> [TABLE_nbr <rid> <priority> <state> <drstate> <uptime> <addr> <intf> [<multiarea>]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
neighbor	(Optional) Router ID of neighbor
neighbor-name	(Optional) DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
nbrcount	(Optional)
TABLE_nbr	(Optional)
rid	(Optional)
priority	(Optional)
state	(Optional)
drstate	(Optional)
uptime	(Optional)

addr	(Optional)
intf	(Optional)
multiarea	(Optional)

Command Mode

- /exec

show ip ospf neighbors detail

show ip ospf [<tag>] neighbors [<interface>] [<neighbor> | <neighbor-name>] detail [vrf { <vrf-name> | <vrf-known-name> | all }] [private] [__readonly__ TABLE_ctx <ptag> <cname> [TABLE_nbr <rid> <addr> <area> <intf> <state> <transition> <lastchange> [<bfd_state>] [<priority>] [<ifid>] [<dr>] [<dc>] [<bdr>] [<master>] [<seqno>] [<dbdallsentacked>] [<dbdallsent>] [<dbdallacked>] [<lsaonreqlist>] [<lsafromlastreq>] [<lsreqrxmts>] <helloptions> <dbdoptions> <lastnonhello> [<deadtimer>] [<pacingtimer>] [<dbdrxmtimer>] [<reqrxmtimer>] [<lsutimer>] [<rerxmtimer>] [<fastrerxmtimer>] [<lsacktimer>] [<grtimer>] [<helpermode>] [<helpercand>] [<helperterm>] [<senddbd>] [<sendlsreq>] [<sendlsu>] [<sendlsurxmt>] [<sendlsack>] [<sendlsreqreply>] [<sradjsid>] [<sradjflags>]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
neighbor	(Optional) Router ID of neighbor
neighbor-name	(Optional) DNS Name of the neighbor
detail	Show detailed neighbor display
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_nbr	(Optional)
rid	(Optional)
addr	(Optional)

area	(Optional)
intf	(Optional)
state	(Optional)
transition	(Optional)
lastchange	(Optional)
bfd_state	(Optional)
priority	(Optional)
ifid	(Optional)
dr	(Optional)
bdr	(Optional)
master	(Optional)
seqno	(Optional)
dbdallsentacked	(Optional)
dbdallsent	(Optional)
dbdallacked	(Optional)
lsaonreqlist	(Optional)
lsafromlastreq	(Optional)
lsreqrxmts	(Optional)
helloptions	(Optional)
dbdoptions	(Optional)
lastnonhello	(Optional)
deadtimer	(Optional)
pacingtimer	(Optional)
dbdrxmtimer	(Optional)
reqrxmtimer	(Optional)
lsutimer	(Optional)
rerxmtimer	(Optional)
fastrerxmtimer	(Optional)
lsacktimer	(Optional)

grtimer	(Optional)
helpermode	(Optional)
helpercand	(Optional)
helperterm	(Optional)
senddbd	(Optional)
sendlsreq	(Optional)
sendlsu	(Optional)
sendlsurxmt	(Optional)
sendlsack	(Optional)
sendlsreqreply	(Optional)
dc	(Optional)
sradjsid	(Optional)
sradjflags	(Optional)

Command Mode

- /exec

show ip ospf neighbors summary

show ip ospf [<tag>] neighbors [<interface>] summary [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> TABLE_intf { <ifname> | <total> } <down> <attempt> <init> <twoway> <exstart> <exchange> <loading> <full> <if_total>]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
neighbors	Neighbor list
interface	(Optional) OSPF enabled interface
summary	Summary of neighbors
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_intf	(Optional)
ifname	(Optional)
total	(Optional)
down	(Optional)
attempt	(Optional)
init	(Optional)
twoway	(Optional)
exstart	(Optional)
exchange	(Optional)

loading	(Optional)
full	(Optional)
if_total	(Optional)

Command Mode

- /exec

show ip ospf policy statistics

show ip ospf [<inst>] policy statistics { { redistribute { { bgp | eigrp } <as> | { isis | ospf | rip } <tag> | static | direct | amt } } | { area <area-id-ip> filter-list { in | out } } } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ <ptag> TABLE_ctx <cname>]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
inst	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
policy	Display Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
static	Static
direct	Directly connected
amt	AMT anycast prefix
tag	Source protocol tag
area	Configure area properties
area-id-ip	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas

in	Filter networks sent to this area
out	Filter networks sent from this area
__readonly__	(Optional)
ptag	(Optional)
TABLE_ctx	(Optional)
cname	(Optional)

Command Mode

- /exec

show ip ospf request-list

show ip ospf [<tag>] request-list { <ip-addr> | <neighbor-name> } <interface> [__readonly__ [TABLE_ctx <ptag> <cname> [TABLE_lsreq <nbr_rid> <intf> <nbr_addr> <total> [TABLE_lsa [<type>] [<lsid>] [<advrtr>] [<seqno>] [<cksum>] [<age>]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
request-list	Link state request list
interface	OSPF enabled interface
ip-addr	Neighbor router ID
neighbor-name	DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_lsreq	(Optional)
nbr_rid	(Optional)
intf	(Optional)
nbr_addr	(Optional)
total	(Optional)
TABLE_lsa	(Optional)
type	(Optional)
lsid	(Optional)
advrtr	(Optional)
seqno	(Optional)
cksum	(Optional)
age	(Optional)

Command Mode

- /exec

show ip ospf retransmission-list

show ip ospf [<tag>] retransmission-list { <routerid> | <router-name> } <interface> [__readonly__ [TABLE_ctx <ptag> <cname> [TABLE_rxmit <nbr_rid> <intf> <nbr_addr> [<timer_running>] [<timer_due>] [TABLE_lsa [<type>] [<lsid>] [<advrtr>] [<seqno>] [<cksum>] [<age>]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
retransmission-list	Link state retransmission list
routerid	Neighbor router ID
router-name	DNS Name of the router
interface	OSPF enabled interface
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_rxmit	(Optional)
nbr_rid	(Optional)
intf	(Optional)
nbr_addr	(Optional)
timer_running	(Optional)
timer_due	(Optional)
TABLE_lsa	(Optional)
type	(Optional)
lsid	(Optional)
advrtr	(Optional)
seqno	(Optional)
cksum	(Optional)

age	(Optional)

Command Mode

- /exec

show ip ospf route

show ip ospf [<tag>] route [<ip-addr> | <ip-prefix> [longer-prefixes]] [detail] [all_routes] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> [<hdr_addr>] [<hdr_masklen>] [TABLE_route <addr> <masklen> <type> [<in_ulib>] <in_rib> <direct> [<area>] [<tag>] [<sid>] [<in_label>] [<vlink_unresolved>] [TABLE_route_ubest_nh [<ubest_nh_addr>] [<ubest_nh_intf>] [<ubest_cost>] [<distance>] [<ubest_nh_direct>] [<ubest_nh_sham_link>] [<ubest_nh_te_tun>] [<ubest_nh_in_rib>] [<out_label>] [<lsa>]] [TABLE_route_mbest_nh [<mbest_nh_addr>] [<mbest_nh_intf>] [<mbest_cost>] [<mbest_nh_direct>] [<mbest_nh_in_rib>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
ip-addr	(Optional) Show single OSPF route
ip-prefix	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
detail	(Optional) Detailed information
all_routes	(Optional) Display all OSPF routes
tag	(Optional)
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
hdr_addr	(Optional)
hdr_masklen	(Optional)

TABLE_route	(Optional)
addr	(Optional)
masklen	(Optional)
type	(Optional)
in_ulib	(Optional)
in_rib	(Optional)
direct	(Optional)
area	(Optional)
sid	(Optional)
in_label	(Optional)
vlink_unresolved	(Optional)
TABLE_route_ubest_nh	(Optional)
ubest_nh_addr	(Optional)
ubest_nh_intf	(Optional)
ubest_cost	(Optional)
distance	(Optional)
ubest_nh_direct	(Optional)
ubest_nh_sham_link	(Optional)
ubest_nh_te_tun	(Optional)
ubest_nh_in_rib	(Optional)
out_label	(Optional)
lsa	(Optional)
TABLE_route_mbest_nh	(Optional)
mbest_nh_addr	(Optional)
mbest_nh_intf	(Optional)
mbest_cost	(Optional)
mbest_nh_direct	(Optional)
mbest_nh_in_rib	(Optional)

Command Mode

- /exec

show ip ospf route summary

show ip ospf [<tag>] route [<ip-prefix> [longer-prefixes]] summary [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> [TABLE_route <total_routes> <total_paths> [TABLE_route_type <path_type> <path_routes> <path_paths>] [TABLE_route_masklen <masklen> <masklen_routes> <masklen_paths>]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
route	Internal OSPF routes
ip-prefix	(Optional) Show single exact match OSPF route
longer-prefixes	(Optional) Show exact match and more specific routes
summary	Show route counts
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_route	(Optional)
total_routes	(Optional)
total_paths	(Optional)
TABLE_route_type	(Optional)
path_type	(Optional)
path_routes	(Optional)
path_paths	(Optional)

TABLE_route_masklen	(Optional)
masklen	(Optional)
masklen_routes	(Optional)
masklen_paths	(Optional)

Command Mode

- /exec

show ip ospf segment-routing adj-sid-database

show ip ospf [<tag>] segment-routing adj-sid-database [detail] [__readonly__ TABLE_ctx <rid> <ptag> <cname> [{ TABLE_segrt_adj_sid_db <sid_val> <nbr_id> <nbr_addr> <intf> [<flags>] [<lsa>] }]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
segment-routing	Segment-Routing information
adj-sid-database	Adjacency SID Database
detail	(Optional) Detailed Information
__readonly__	(Optional)
TABLE_ctx	(Optional)
rid	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_segrt_adj_sid_db	(Optional)
sid_val	(Optional)
nbr_id	(Optional)
nbr_addr	(Optional)
intf	(Optional)
flags	(Optional)
lsa	(Optional)

Command Mode

- /exec

show ip ospf segment-routing global-block

show ip ospf [<tag>] segment-routing global-block [<adv-rtr>] [detail] [__readonly__ TABLE_ctx <rid> <ptag> <cname> [{ TABLE_segrt_global_block <area> <adv_router_id> <SR_capable> <SR_algo> <SRGB_base> <SRGB_range> [<ril_area>] [<lsa>] }]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
segment-routing	Segment-Routing information
global-block	Global Block
adv-rtr	(Optional) Advertising Router ID
detail	(Optional) Detailed Information
__readonly__	(Optional)
TABLE_ctx	(Optional)
rid	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_segrt_global_block	(Optional)
adv_router_id	(Optional)
SR_capable	(Optional)
SR_algo	(Optional)
SRGB_base	(Optional)
SRGB_range	(Optional)
area	(Optional)
ril_area	(Optional)
lsa	(Optional)

Command Mode

- /exec

show ip ospf segment-routing sid-database

show ip ospf [<tag>] segment-routing sid-database [<sid-id>] [detail] [__readonly__ TABLE_ctx <rid> <ptag> <cname> [{ TABLE_segrt_sid_db <sid_val> <prefix> <prefix_mask> <own_prefix> [<adv_rtr_vtx_reachable>] [<sid_conflict>] [<area>] [<route_type>] [<pfx_flags>] [<sid_flags>] [<lsa>] [<lsa_ref_count>] }]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
segment-routing	Segment-Routing information
sid-database	SID Database
sid-id	(Optional) SID value
detail	(Optional) Detailed Information
__readonly__	(Optional)
TABLE_ctx	(Optional)
rid	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_segrt_sid_db	(Optional)
sid_val	(Optional)
prefix	(Optional)
prefix_mask	(Optional)
own_prefix	(Optional)
adv_rtr_vtx_reachable	(Optional)
sid_conflict	(Optional)
area	(Optional)
route_type	(Optional)
pfx_flags	(Optional)

sid_flags	(Optional)
lsa	(Optional)
lsa_ref_count	(Optional)

Command Mode

- /exec

show ip ospf sham-links

show ip ospf [<tag>] sham-links [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> [TABLE_slink <name> <if_state> [<unnumbered>] <addr> [<masklen>] [<parent_intf>] <area> [<if_cfg>] <state_str> <type_str> <cost> [<bfd_enabled>] [<ldp_sync>] [<dc_enabled>] [<sid_index> <sid_n_flag_clear> <sid_exp_null>] <index> [[<passive>] [<mpls>] [<transmit_delay>] [<if_priority> [<dr_rid> <dr_addr>] [<bdr_rid> <bdr_addr>]] <nbr_total> <nbr_flood> <nbr_adjs> [<gr_nbr>] <hello_interval> <dead_interval> <wait_interval> <rxmt_interval> [<hello_timer>] [<wait_timer>] [<lsu_timer>] [<lsack_timer>] <auth_type> [<keychain_name> <keychain_ready>] [<auth_md5_keyid>] [<auth_keyid> <auth_algo>] <link_lsa_cnt> <link_lsa_crc>] [<dest_ip>] [TABLE_nbr <rid> <addr> <area> <intf> <state> <transition> <lastchange> [<bfd_state>] [<priority> [<ifid>] [<dr>] [<bdr>]] [<master> <seqno> <dbdallsentacked> <dbdallsent> <dbdallacked>] [<lsaonreqlist> <lsafromlastreq> <lsreqrxmts>] <helloptions> <dbdoptions> <lastnonhello> [<deadtimer>] [<pacingtimer>] [<dbdrxmtimer>] [<reqrxmtimer>] [<lsutimer>] [<rerxmtimer>] [<fastrerxmtimer>] [<lsacktimer>] [<grtimer>] [<helpermode>] [<helpercand>] [<helperterm>] [<senddbd>] [<sendlsreq>] [<sendlsu>] [<sendlsurxmt>] [<sendlsack>] [<sendlsreqreply>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
sham-links	Sham link information
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_slink	(Optional)
name	(Optional)
if_state	(Optional)
unnumbered	(Optional)
addr	(Optional)

masklen	(Optional)
parent_intf	(Optional)
area	(Optional)
if_cfg	(Optional)
state_str	(Optional)
type_str	(Optional)
cost	(Optional)
bfd_enabled	(Optional)
ldp_sync	(Optional)
dc_enabled	(Optional)
sid_index	(Optional)
sid_n_flag_clear	(Optional)
sid_exp_null	(Optional)
index	(Optional)
passive	(Optional)
mpls	(Optional)
transmit_delay	(Optional)
if_priority	(Optional)
dr_rid	(Optional)
dr_addr	(Optional)
bdr_rid	(Optional)
bdr_addr	(Optional)
nbr_total	(Optional)
nbr_flood	(Optional)
nbr_adjs	(Optional)
gr_nbr	(Optional)
hello_interval	(Optional)
dead_interval	(Optional)
wait_interval	(Optional)

rxmt_interval	(Optional)
hello_timer	(Optional)
wait_timer	(Optional)
lsu_timer	(Optional)
lsack_timer	(Optional)
auth_type	(Optional)
keychain_name	(Optional)
keychain_ready	(Optional)
auth_md5_keyid	(Optional)
auth_keyid	(Optional)
auth_algo	(Optional)
link_lsa_cnt	(Optional)
link_lsa_crc	(Optional)
dest_ip	(Optional)
TABLE_nbr	(Optional)
rid	(Optional)
addr	(Optional)
area	(Optional)
intf	(Optional)
state	(Optional)
transition	(Optional)
lastchange	(Optional)
bfd_state	(Optional)
priority	(Optional)
ifid	(Optional)
dr	(Optional)
bdr	(Optional)
master	(Optional)
seqno	(Optional)

dbdallsentacked	(Optional)
dbdallsent	(Optional)
dbdallacked	(Optional)
lsaonreqlist	(Optional)
lsafromlastreq	(Optional)
lsreqrxmts	(Optional)
helloptions	(Optional)
dbdoptions	(Optional)
lastnonhello	(Optional)
deadtimer	(Optional)
pacingtimer	(Optional)
dbdrxmtimer	(Optional)
reqrxmtimer	(Optional)
lsutimer	(Optional)
rerxmtimer	(Optional)
fastrerxmtimer	(Optional)
lsacktimer	(Optional)
grtimer	(Optional)
helpermode	(Optional)
helpercand	(Optional)
helperterm	(Optional)
senddbd	(Optional)
sendlsreq	(Optional)
sendlsu	(Optional)
sendlsurxmt	(Optional)
sendlsack	(Optional)
sendlsreqreply	(Optional)

Command Mode

- /exec

show ip ospf sham-links brief

show ip ospf [<tag>] sham-links brief [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> <count> [TABLE_slink <src_ip> <dest_ip> <ifnum> <area> <cost> <if_state>]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
sham-links	Sham link information
brief	Display summary of OSPF sham links
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
count	(Optional)
TABLE_slink	(Optional)
src_ip	(Optional)
dest_ip	(Optional)
ifnum	(Optional)
area	(Optional)
cost	(Optional)
if_state	(Optional)

Command Mode

- /exec

show ip ospf statistics

show ip ospf [<tag>] statistics [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_stats <ptag> <cname> <last_clear> <rid_change> <dr_elections> <older_lsa_recv> <nbr_state_change> <nbr_dead_postpone> <nbr_dead_expire> <nbr_bad_lsreq> <nbr_seqno_mismatch> <spf_full> <spf_summary> <spf_external> <spf_extsummary> <rtr_generate> <rtr_refresh> <rtr_flush> <rtr_other_flush> <net_generate> <net_refresh> <net_flush> <net_other_flush> <sum_generate> <sum_refresh> <sum_flush> <sum_other_flush> <asbr_generate> <asbr_refresh> <asbr_flush> <asbr_other_flush> <asext_generate> <asext_refresh> <asext_flush> <asext_other_flush> <opaque_link_generate> <opaque_link_refresh> <opaque_link_flush> <opaque_link_other_flush> <opaque_area_generate> <opaque_area_refresh> <opaque_area_flush> <opaque_area_other_flush> <opaque_as_generate> <opaque_as_refresh> <opaque_as_flush> <opaque_as_other_flush> <limbo_lsa_count> <limbo_lsa_hwm> <limbo_lsa_deleted> <limbo_lsa_revived> <limbo_runs> <limbo_lsa_last_time_hwm> [<limbo_timer>] <helloq_size> <helloq_max_size> <helloq_hwm> <helloq_drops> <helloq_last_hwm_time> <floodq_size> <floodq_max_size> <floodq_hwm> <floodq_drops> <floodq_last_hwm_time> <lsdb_add_fail> [TABLE_buffer_detail [<buf_size>] [<buf_size_huge>] <buf_in_use> <buf_hwm> <buf_perm> <buf_alloc> <buf_free>]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Event counters
__readonly__	(Optional)
TABLE_stats	(Optional)
ptag	(Optional)
cname	(Optional)
last_clear	(Optional)
rid_change	(Optional)
dr_elections	(Optional)
older_lsa_recv	(Optional)

nbr_state_change	(Optional)
nbr_dead_postpone	(Optional)
nbr_dead_expire	(Optional)
nbr_bad_lsreq	(Optional)
nbr_seqno_mismatch	(Optional)
spf_full	(Optional)
spf_summary	(Optional)
spf_external	(Optional)
spf_extsummary	(Optional)
rtr_generate	(Optional)
rtr_refresh	(Optional)
rtr_flush	(Optional)
rtr_other_flush	(Optional)
net_generate	(Optional)
net_refresh	(Optional)
net_flush	(Optional)
net_other_flush	(Optional)
sum_generate	(Optional)
sum_refresh	(Optional)
sum_flush	(Optional)
sum_other_flush	(Optional)
asbr_generate	(Optional)
asbr_refresh	(Optional)
asbr_flush	(Optional)
asbr_other_flush	(Optional)
asext_generate	(Optional)
asext_refresh	(Optional)
asext_flush	(Optional)
asext_other_flush	(Optional)

opaque_link_generate	(Optional)
opaque_link_refresh	(Optional)
opaque_link_flush	(Optional)
opaque_link_other_flush	(Optional)
opaque_area_generate	(Optional)
opaque_area_refresh	(Optional)
opaque_area_flush	(Optional)
opaque_area_other_flush	(Optional)
opaque_as_generate	(Optional)
opaque_as_refresh	(Optional)
opaque_as_flush	(Optional)
opaque_as_other_flush	(Optional)
limbo_lsa_count	(Optional)
limbo_lsa_hwm	(Optional)
limbo_lsa_deleted	(Optional)
limbo_lsa_revived	(Optional)
limbo_runs	(Optional)
limbo_lsa_last_time_hwm	(Optional)
limbo_timer	(Optional)
helloq_size	(Optional)
helloq_max_size	(Optional)
helloq_hwm	(Optional)
helloq_drops	(Optional)
helloq_last_hwm_time	(Optional)
floodq_size	(Optional)
floodq_max_size	(Optional)
floodq_hwm	(Optional)
floodq_drops	(Optional)
floodq_last_hwm_time	(Optional)

lsdb_add_fail	(Optional)
TABLE_buffer_detail	(Optional)
buf_size	(Optional)
buf_size_huge	(Optional)
buf_in_use	(Optional)
buf_hwm	(Optional)
buf_perm	(Optional)
buf_alloc	(Optional)
buf_free	(Optional)

Command Mode

- /exec

show ip ospf summary-address

show ip ospf [<tag>] summary-address [private] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_ctx <ptag> <cname> <rid> [TABLE_sum <addr> <masklen> [<metric>] [<tag>] [<pending>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
summary-address	Summary-address redistribution information
private	(Optional) Developer-only statistics
tag	(Optional)
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
rid	(Optional)
TABLE_sum	(Optional)
addr	(Optional)
masklen	(Optional)
metric	(Optional)
pending	(Optional)

Command Mode

- /exec

show ip ospf traffic

show ip ospf [<tag>] traffic [<interface> [detail] | [detail] | [detail] vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_traf <ptag> <cname> <last_clear> [<ifname>] <pkt_in> <pkt_out> <lsu_first_trans> <lsu_retrans> <lsu_for_lsreq> <lsu_nbr_trans> <throttle_out> <throttle_out_token> <throttle_out_ip> <lsa_ignored> <lsa_dropped_spf> <lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out> <pkt_errors_in> <pkt_errors_out> <hello_errors_in> <dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in> <lsacks_errors_in> <pkt_unknown_in> <pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc> <dup_rtr_id> <dup_src_addr> <invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf> <wrong_area> <invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> <bad_auth> [<pkt_no_vrf>] [<bad_reserved>] <hellos_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hellos_out> <dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [<hellos_in_hq> <dbds_in_hq> <lsreqs_in_flq> <lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in> <lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
interface	(Optional) OSPF enabled interface
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Packet counters
__readonly__	(Optional)
TABLE_traf	(Optional)
ptag	(Optional)
cname	(Optional)
last_clear	(Optional)
ifname	(Optional)
pkt_in	(Optional)

pkt_out	(Optional)
lsu_first_trans	(Optional)
lsu_retrans	(Optional)
lsu_for_lsreq	(Optional)
lsu_nbr_trans	(Optional)
throttle_out	(Optional)
throttle_out_token	(Optional)
throttle_out_ip	(Optional)
lsa_ignored	(Optional)
lsa_dropped_spf	(Optional)
lsa_dropped_gr	(Optional)
pkt_drops_in	(Optional)
pkt_drops_out	(Optional)
pkt_errors_in	(Optional)
pkt_errors_out	(Optional)
hello_errors_in	(Optional)
dbds_errors_in	(Optional)
lsreqs_errors_in	(Optional)
lsus_errors_in	(Optional)
lsacks_errors_in	(Optional)
pkt_unknown_in	(Optional)
pkt_unknown_out	(Optional)
pkt_no_ospf_intf	(Optional)
bad_version	(Optional)
bad_crc	(Optional)
dup_rtr_id	(Optional)
dup_src_addr	(Optional)
invalid_src_addr	(Optional)
invalid_dst_addr	(Optional)

non_existing_nbr	(Optional)
pkt_passive_intf	(Optional)
wrong_area	(Optional)
invalid_pkt_len	(Optional)
nbr_changed_routerid_ipaddr	(Optional)
nbr_changed_interfaceid	(Optional)
bad_auth	(Optional)
bad_reserved	(Optional)
pkt_no_vrf	(Optional)
hellos_in	(Optional)
dbds_in	(Optional)
lsreqs_in	(Optional)
lsus_in	(Optional)
lsacks_in	(Optional)
hellos_out	(Optional)
dbds_out	(Optional)
lsreqs_out	(Optional)
lsus_out	(Optional)
lsacks_out	(Optional)
hellos_in_hq	(Optional)
dbds_in_hq	(Optional)
lsreqs_in_flq	(Optional)
lsus_in_flq	(Optional)
lsacks_in_flq	(Optional)
lsas_in_dbds_in	(Optional)
lsas_in_lsreqs_in	(Optional)
lsas_in_lsus_in	(Optional)
lsas_in_lsacks_in	(Optional)
lsas_in_dbds_out	(Optional)

lsas_in_lsreqs_out	(Optional)
lsas_in_lsus_out	(Optional)
lsas_in_lsacks_out	(Optional)
lsas_in_rxmt_lsus_out	(Optional)

Command Mode

- /exec

show ip ospf virtual-links

show ip ospf [<tag>] virtual-links [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> [TABLE_vlink <name> <nbr_rid> <if_state> <transit_area> <nh_intf> <nbr_addr> [<transit_area_stub>] [<transit_area_nssa>] <addr> [<masklen>] <area> [<if_cfg>] <state_str> <type_str> <cost> <index> [<passive>] [<mpls>] [<transmit_delay>] [<if_priority>] [<dr_rid>] [<dr_addr>] [<bdr_rid>] [<bdr_addr>] [<nbr_total>] [<nbr_flood>] [<nbr_adjs>] [<gr_nbr>] [<hello_interval>] [<dead_interval>] [<wait_interval>] [<rxmt_interval>] [<hello_timer>] [<wait_timer>] [<pacing_timer>] [<lsu_timer>] [<lsack_timer>] [<netlsa_throt_timer>] [<auth_type>] [<keychain_name>] [<keychain_ready>] [<auth_md5_keyid>] [<link_lsa_cnt>] [<link_lsa_crc>] [<dc_enabled>] [<state>] [<transition>] [<lastchange>] [<priority>] [<ifid>] [<dr>] [<bdr>] [<master>] [<seqno>] [<dbdallsentacked>] [<dbdallsent>] [<dbdallacked>] [<lsaonreqlist>] [<lsafromlastreq>] [<lsreqrxmts>] [<helloptions>] [<dbdoptions>] [<lastnonhello>] [<deadtimer>] [<pacingtimer>] [<dbdrxmtimer>] [<reqrxmtimer>] [<lsutimer>] [<rerxmtimer>] [<fastrerxmtimer>] [<lsacktimer>] [<grtimer>] [<helpermode>] [<helpercand>] [<helperterm>] [<senddbd>] [<sendlsreq>] [<sendlsu>] [<sendlsurxmt>] [<sendlsack>] [<sendlsreqreply>]]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_vlink	(Optional)
name	(Optional)
nbr_rid	(Optional)
if_state	(Optional)
transit_area	(Optional)

nh_intf	(Optional)
dc_enabled	(Optional)
nbr_addr	(Optional)
transit_area_stub	(Optional)
transit_area_nssa	(Optional)
addr	(Optional)
masklen	(Optional)
area	(Optional)
if_cfg	(Optional)
state_str	(Optional)
type_str	(Optional)
cost	(Optional)
index	(Optional)
passive	(Optional)
mpls	(Optional)
transmit_delay	(Optional)
if_priority	(Optional)
dr_rid	(Optional)
dr_addr	(Optional)
bdr_rid	(Optional)
bdr_addr	(Optional)
nbr_total	(Optional)
nbr_flood	(Optional)
nbr_adjs	(Optional)
gr_nbr	(Optional)
hello_interval	(Optional)
dead_interval	(Optional)
wait_interval	(Optional)
rxmt_interval	(Optional)

hello_timer	(Optional)
wait_timer	(Optional)
pacing_timer	(Optional)
lsu_timer	(Optional)
lsack_timer	(Optional)
netlsa_throt_timer	(Optional)
auth_type	(Optional)
keychain_name	(Optional)
keychain_ready	(Optional)
auth_md5_keyid	(Optional)
link_lsa_cnt	(Optional)
link_lsa_crc	(Optional)
state	(Optional)
transition	(Optional)
lastchange	(Optional)
priority	(Optional)
ifid	(Optional)
dr	(Optional)
bdr	(Optional)
master	(Optional)
seqno	(Optional)
dbdallsentacked	(Optional)
dbdallsent	(Optional)
dbdallacked	(Optional)
lsaonreqlist	(Optional)
lsafromlastreq	(Optional)
lsreqrxmts	(Optional)
helloptions	(Optional)
dbdoptions	(Optional)

lastnonhello	(Optional)
deadtimer	(Optional)
pacingtimer	(Optional)
dbdrxmtimer	(Optional)
reqrxmtimer	(Optional)
lsutimer	(Optional)
rerxmtimer	(Optional)
fastrerxmtimer	(Optional)
lsacktimer	(Optional)
grtimer	(Optional)
helpermode	(Optional)
helpercand	(Optional)
helperterm	(Optional)
senddbd	(Optional)
sendlsreq	(Optional)
sendlsu	(Optional)
sendlsurxmt	(Optional)
sendlsack	(Optional)
sendlsreqreply	(Optional)

Command Mode

- /exec

show ip ospf virtual-links brief

show ip ospf [<tag>] virtual-links brief [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_ctx <ptag> <cname> <vlink_count> [TABLE_vlink <nbr_rid> <vlink_num> <transit_area> <cost> <if_state>]]

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
virtual-links	Virtual link information
brief	Display summary of OSPF virtual links
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
vlink_count	(Optional)
TABLE_vlink	(Optional)
nbr_rid	(Optional)
vlink_num	(Optional)
transit_area	(Optional)
cost	(Optional)
if_state	(Optional)

Command Mode

- /exec

show ip pim config-sanity

show ip pim config-sanity [__readonly__ [TABLE_vrf [<out-context>] [TABLE_RP [<rp-addr>] [<rperr-count>] [<rp-interface>] [<rp-error>]] [TABLE_ANYCAST [<arperr-count>] [<anycastrp-addr>] [<arp-interface>] [<arp-error>] [<configure-as-RP>] [TABLE_MEMBER [<memerr-count>] [<mem-interface>] [<mem-error>]] [<found>]] [TABLE_BSR [<rp-cand-count>] [<rp-cand-interface>] [<rp-cand-error>] [<bsr-cand-count>] [<bsr-cand-interface>] [<bsr-cand-error>]] [TABLE_AUTORP [<rp-cand-count>] [<rp-cand-interface>] [<rp-cand-error>] [<auto-cand-count>] [<auto-cand-interface>] [<auto-cand-error>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
config-sanity	Configuration Sanity check
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-context	(Optional)
TABLE_RP	(Optional)
rp-addr	(Optional)
rperr-count	(Optional)
rp-interface	(Optional)
rp-error	(Optional)
TABLE_ANYCAST	(Optional)
configure-as-RP	(Optional)
arperr-count	(Optional)
anycastrp-addr	(Optional)
arp-interface	(Optional)
arp-error	(Optional)
TABLE_MEMBER	(Optional)
memerr-count	(Optional)
mem-interface	(Optional)
mem-error	(Optional)

found	(Optional)
TABLE_BSR	(Optional)
rp-cand-count	(Optional)
rp-cand-interface	(Optional)
rp-cand-error	(Optional)
bsr-cand-count	(Optional)
bsr-cand-interface	(Optional)
bsr-cand-error	(Optional)
TABLE_AUTORP	(Optional)
rp-cand-count	(Optional)
rp-cand-interface	(Optional)
rp-cand-error	(Optional)
auto-cand-count	(Optional)
auto-cand-interface	(Optional)
auto-cand-error	(Optional)

Command Mode

- /exec

show ip pim df

show ip pim df [<rp-or-group>] [vrf { <vrf-name> | <vrf-known-name> | all }] [internal] [__readonly__ [TABLE_ctx [<out-context>] [TABLE_rp [<rp-addr>] [<df-ordinal>] [<df-bits>] [<df-bits-count>] [<metric-pref>] [<metric>] [TABLE_grange [<grange-grp>] [<grange-masklen>]] [TABLE_iod [<if-name>] [<df-winner>] [<df-state>] [<winner-metric-pref>] [<winner-metric>] [<uptime>] [<is-rpf>]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
df	Display Bidir Designated Forwarders
rp-or-group	(Optional) Display for a single RP or group address
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
__readonly__	(Optional)
TABLE_ctx	(Optional)
out-context	(Optional)
TABLE_rp	(Optional)
rp-addr	(Optional)
df-ordinal	(Optional)
df-bits	(Optional)
df-bits-count	(Optional)
metric-pref	(Optional)
metric	(Optional)
TABLE_grange	(Optional)
grange-grp	(Optional)
grange-masklen	(Optional)

TABLE_iod	(Optional)
if-name	(Optional)
df-winner	(Optional)
df-state	(Optional)
winner-metric-pref	(Optional)
winner-metric	(Optional)
uptime	(Optional)
is-rpf	(Optional)

Command Mode

- /exec

show ip pim event-history

show ip pim [internal] event-history { errors | msgs | <pim-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
internal	(Optional) Commands for internal use
event-history	Show various event logs of PIM
errors	Show error logs of PIM
msgs	Show various message logs of PIM
pim-event-hist-buf-name	Show event hist buffer name
statistics	Show the state and size of the buffer

Command Mode

- /exec

show ip pim fabric info

show ip pim fabric info [__readonly__ <switch_role> <fabric_ctrl_addr> <peer_fabric_ctrl_infra> <vpc_domain_id> <peer_fabric_ctrl_addr>]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
info	show the fabric info
__readonly__	(Optional)
switch_role	(Optional)
fabric_ctrl_addr	(Optional)
peer_fabric_ctrl_infra	(Optional)
vpc_domain_id	(Optional)
peer_fabric_ctrl_addr	(Optional)

Command Mode

- /exec

show ip pim fabric legacy-vlans

show ip pim fabric legacy-vlans [__readonly__ TABLE_legacy_vlan <vlan_id>]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch
__readonly__	(Optional)
TABLE_legacy_vlan	(Optional)
vlan_id	(Optional)

Command Mode

- /exec

show ip pim group-range

show ip pim group-range [<group>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf <out-context> [{ TABLE_group <grp-addr> [<invalid-grp>] [<action>] [<mode>] [<rp-addr>] [<sh-tree-only-range>] [<origin>] }]]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
group-range	Display the various group-ranges
group	(Optional) IP address of group to display
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-context	(Optional)
TABLE_group	(Optional)
invalid-grp	(Optional)
grp-addr	(Optional)
mode	(Optional)
rp-addr	(Optional)
sh-tree-only-range	(Optional)
action	(Optional)
origin	(Optional)

Command Mode

- /exec

show ip pim host-proxy

show ip pim host-proxy [__readonly__ TABLE_intf <intf-name>]

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
host-proxy	host-proxy
__readonly__	(Optional)
TABLE_intf	(Optional)
intf-name	(Optional)

Command Mode

- /exec

show ip pim interface

show ip pim interface [<interface>] [brief] [vrf { <vrf-name> | <vrf-known-name> | all }] [internal] [__readonly__ [<is-pim-enabled>] [TABLE_vrf [<out-context>] [TABLE_brief [<if-name>] [<if-addr>] [<if-dr>] [<if-nbr-count>] [<if-is-border>]] [TABLE_iod [<if-name>] [<if-status>] [<cached_if_status>] [<if-addr-summary>] [<pim-dr-address>] [<dr-priority>] [<no-dr-priority>] [<nbr-cnt>] [<hello-interval-sec>] [<hello-interval-msec>] [<hello-timer>] [<holdtime-msec>] [<holdtime-sec>] [<if-conf-dr-priority>] [<if-conf-delay>] [<is-border>] [<genid>] [<isauth-config>] [<nbr-policy-name>] [<jp-in-policy-name>] [<jp-out-policy-name>] [<jp-interval>] [<jp-next-send>] [<pim-bfd-enabled>] [<is-passive>] [<is-pim-vpc-svi>] [<is-auto-enabled>] [<vpc-peer-nbr>] [<last-cleared>] [<hello-sent>] [<hello-rcvd>] [<hello-early-sent>] [<jp-sent>] [<jp-rcvd>] [<assert-sent>] [<assert-rcvd>] [<graft-sent>] [<graft-rcvd>] [<graft-ack-sent>] [<graft-ack-rcvd>] [<df-offer-sent>] [<df-offer-rcvd>] [<df-winner-sent>] [<df-winner-rcvd>] [<df-backoff-sent>] [<df-backoff-rcvd>] [<pass-sent>] [<pass-rcvd>] [<cksum-errors>] [<invalid-errors>] [<invalid-df-errors>] [<auth-failed>] [<pak-len-errors>] [<ver-errors>] [<pkts-self>] [<pkts-non-nbr>] [<pkts-on-passive>] [<jp-rcvd-on-rpf>] [<jp-rcvd-no-rp>] [<jp-rcvd-wrong-rp>] [<jp-rcvd-for-ssm>] [<jp-rcvd-for-bidir>] [<jp-in-policy-filter>] [<jp-out-policy-filter>] [<ecmp-redirect-sent>] [<ecmp-redirect-recv>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
interface	Display PIM interface related information
interface	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
internal	(Optional) Commands for internal use
__readonly__	(Optional)
is-pim-enabled	(Optional)
TABLE_vrf	(Optional)
out-context	(Optional)
TABLE_brief	(Optional)
if-name	(Optional)

if-addr	(Optional)
if-dr	(Optional)
if-nbr-count	(Optional)
if-is-border	(Optional)
TABLE_iod	(Optional)
if-name	(Optional)
if-status	(Optional)
cached_if_status	(Optional)
if-addr-summary	(Optional)
pim-dr-address	(Optional)
dr-priority	(Optional)
no-dr-priority	(Optional)
nbr-cnt	(Optional)
hello-interval-sec	(Optional)
hello-interval-msec	(Optional)
hello-timer	(Optional)
holdtime-msec	(Optional)
holdtime-sec	(Optional)
if-conf-dr-priority	(Optional)
if-conf-delay	(Optional)
is-border	(Optional)
genid	(Optional)
isauth-config	(Optional)
nbr-policy-name	(Optional)
jp-in-policy-name	(Optional)
jp-out-policy-name	(Optional)
jp-interval	(Optional)
jp-next-send	(Optional)
pim-bfd-enabled	(Optional)

is-passive	(Optional)
is-pim-vpc-svi	(Optional)
is-auto-enabled	(Optional)
vpc-peer-nbr	(Optional)
last-cleared	(Optional)
hello-sent	(Optional)
hello-rcvd	(Optional)
hello-early-sent	(Optional)
jp-sent	(Optional)
jp-rcvd	(Optional)
assert-sent	(Optional)
assert-rcvd	(Optional)
graft-sent	(Optional)
graft-rcvd	(Optional)
graft-ack-sent	(Optional)
graft-ack-rcvd	(Optional)
df-offer-sent	(Optional)
df-offer-rcvd	(Optional)
df-winner-sent	(Optional)
df-winner-rcvd	(Optional)
df-backoff-sent	(Optional)
df-backoff-rcvd	(Optional)
pass-sent	(Optional)
pass-rcvd	(Optional)
cksum-errors	(Optional)
invalid-errors	(Optional)
invalid-df-errors	(Optional)
auth-failed	(Optional)
pak-len-errors	(Optional)

ver-errors	(Optional)
pkts-self	(Optional)
pkts-non-nbr	(Optional)
pkts-on-passive	(Optional)
jp-rcvd-on-rpf	(Optional)
jp-rcvd-no-rp	(Optional)
jp-rcvd-wrong-rp	(Optional)
jp-rcvd-for-ssm	(Optional)
jp-rcvd-for-bidir	(Optional)
jp-in-policy-filter	(Optional)
jp-out-policy-filter	(Optional)
ecmp-redirect-sent	(Optional)
ecmp-redirect-recv	(Optional)

Command Mode

- /exec

show ip pim mdt

show ip pim mdt [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <out_context> <mti> <mti_status> <default_mdt_grp> <grp_mode> <asm_shared_tree> <mti_config_mtu> <mti_active_mtu> <cfg_tunnel_src_if> <bgp_update_src_if> <hello_interval> <jp_interval> <data_mdt_join_interval> <data_switchover_interval> <data_holddown_interval> <data_timeout_interval> <mdt_src> <mdt_src_if> <bgp_rd> <bgp_rd_set> <send_join_count> <rcvd_join_count> { TABLE_data_mdt <grange_prefix> <grange_mask_len> <threshold> [<policy_name>] }]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out_context	(Optional)
mti	(Optional)
mti_status	(Optional)
default_mdt_grp	(Optional)
grp_mode	(Optional)
asm_shared_tree	(Optional)
mti_config_mtu	(Optional)
mti_active_mtu	(Optional)
cfg_tunnel_src_if	(Optional)
bgp_update_src_if	(Optional)
hello_interval	(Optional)
jp_interval	(Optional)

data_mdt_join_interval	(Optional)
data_switchover_interval	(Optional)
data_holddown_interval	(Optional)
data_timeout_interval	(Optional)
mdt_src	(Optional)
mdt_src_if	(Optional)
bgp_rd	(Optional)
bgp_rd_set	(Optional)
send_join_count	(Optional)
rcvd_join_count	(Optional)
TABLE_data_mdt	(Optional)
grange_prefix	(Optional)
grange_mask_len	(Optional)
threshold	(Optional)
policy_name	(Optional)

Command Mode

- /exec

show ip pim mdt bgp

show ip pim mdt bgp [mdt-source <src-addr>] [__readonly__ { TABLE_entry <bgp_rd> <mdt_src> <mdt_grp> <local> }]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
bgp	Display BGP related information
mdt-source	(Optional) Source address of MVPN neighbor
src-addr	(Optional) Source Address
__readonly__	(Optional)
TABLE_entry	(Optional)
bgp_rd	(Optional)
mdt_src	(Optional)
mdt_grp	(Optional)
local	(Optional)

Command Mode

- /exec

show ip pim mdt history interval

show ip pim mdt history interval <min> [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <out_context> [{ TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> }]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
history	Display MDT Data Join Send Histoy
interval	Display in specified interval
min	Minutes
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out_context	(Optional)
TABLE_entry	(Optional)
csrc	(Optional)
cgrp	(Optional)
psrc	(Optional)
pgrp	(Optional)
uptime	(Optional)
send_count	(Optional)

Command Mode

- /exec

show ip pim mdt receive

show ip pim mdt receive [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf [<out_context>] [TABLE_entry [<csrc>] [<cgrp>] [<psrc>] [<pgrp>] [<uptime>] [<expires>] [<recv_count>]]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
receive	Display Received Data Joins Information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_vrf	(Optional)
out_context	(Optional)
TABLE_entry	(Optional)
csrc	(Optional)
cgrp	(Optional)
psrc	(Optional)
pgrp	(Optional)
uptime	(Optional)
expires	(Optional)
recv_count	(Optional)

Command Mode

- /exec

show ip pim mdt send

show ip pim mdt send [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <out_context> [{ TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> }]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
mdt	Display MDT information
send	Display MDT Data Join Send Information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_vrf	(Optional)
out_context	(Optional)
TABLE_entry	(Optional)
csrc	(Optional)
cgrp	(Optional)
psrc	(Optional)
pgrp	(Optional)
uptime	(Optional)
send_count	(Optional)

Command Mode

- /exec

show ip pim neighbor

show ip pim neighbor { [<interface>] | [<ipaddr>] } [vrf { <vrf-name> | <vrf-known-name> | all }] [detail | internal] [__readonly__ [TABLE_vrf <out-context> [TABLE_neighbor <nbr-addr><if-name><uptime><expires> [<dr-priority>] <bidir-capable><bfd-state> [<longest-hello-intvl><non-hello-pkts>] [<ecmp-redirect-capable>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
neighbor	Display PIM neighbor related information
interface	(Optional) Display neighbors on single interface name
ipaddr	(Optional) IP address of single neighbor to display
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display detailed information
internal	(Optional) Commands for internal use
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-context	(Optional)
TABLE_neighbor	(Optional)
dr-priority	(Optional)
ecmp-redirect-capable	(Optional)

Command Mode

- /exec

show ip pim oif-list

show ip pim oif-list <group> [<source>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name> [{ TABLE_grp [<mcast-addrs>] [<incoming-intf>] [<rpf-nbr>] [<timeout-interval>] [<oif-list-count>] [{ TABLE_oiflist <oif-name> }] [<timeout-list-count>] [{ TABLE_timeoutlist <timeoutoif-name> }] [<immediate-list-count>] [{ TABLE_immediatelist <immediateoif-name> }] [<immediate-timeout-list-count>] [{ TABLE_immediatetimeoutlist <immediatetimeoutoif-name> }] [<sgr-prune-list-count>] [{ TABLE_sgrprunelist <sgrprunelistoif-name> }] }]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
oif-list	Display interfaces for oif-list of PIM route
source	(Optional) Source address to display
group	Group address to display
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
TABLE_grp	(Optional)
mcast-addrs	(Optional)
incoming-intf	(Optional)
rpf-nbr	(Optional)
timeout-interval	(Optional)
oif-list-count	(Optional)
TABLE_oiflist	(Optional)
oif-name	(Optional)
timeout-list-count	(Optional)

TABLE_timeoutlist	(Optional)
timeoutoif-name	(Optional)
immediate-list-count	(Optional)
TABLE_immediatelist	(Optional)
immediateoif-name	(Optional)
immediate-timeout-list-count	(Optional)
TABLE_immediatetimeoutlist	(Optional)
immediatetimeoutoif-name	(Optional)
sgr-prune-list-count	(Optional)
TABLE_sgrprunelist	(Optional)
sgrprunelistoif-name	(Optional)

Command Mode

- /exec

show ip pim policy statistics

show ip pim policy statistics { register-policy | bsr { bsr-policy | rp-candidate-policy } | auto-rp { rp-candidate-policy | mapping-agent-policy } } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf_name_stats> { TABLE_routemap <name> <action> <seq_num> [{ TABLE_cmd <command> <compare_count> <match_count> }] } <total_accept_count> <total_reject_count>]

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
register-policy	Statistics for Register policy
bsr	Bootstrap protocol RP-distribution policy
bsr-policy	Statistics for filtered BSR messages
rp-candidate-policy	Statistics for filtered RP candidate messages
auto-rp	Statistics for auto-rp messages
rp-candidate-policy	Statistics for filtered RP candidate messages
mapping-agent-policy	Statistics for filtered mapping agent messages
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf_name_stats	(Optional)
TABLE_routemap	(Optional)
name	(Optional)
action	(Optional)
seq_num	(Optional)

TABLE_cmd	(Optional)
command	(Optional)
compare_count	(Optional)
match_count	(Optional)
total_accept_count	(Optional)
total_reject_count	(Optional)

Command Mode

- /exec

show ip pim policy statistics jp

show ip pim policy statistics { jp-policy | neighbor-policy } <interface> [__readonly__ { TABLE_routemap <name> <action> <seq_num> [{ TABLE_cmd <command> <compare_count> <match_count> }] } <total_accept_count> <total_reject_count>]

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
interface	Interface to display policy statistics for
__readonly__	(Optional)
TABLE_routemap	(Optional)
name	(Optional)
action	(Optional)
seq_num	(Optional)
TABLE_cmd	(Optional)
command	(Optional)
compare_count	(Optional)
match_count	(Optional)
total_accept_count	(Optional)
total_reject_count	(Optional)

Command Mode

- /exec

show ip pim route

show ip pim route [[<source> [<group>]] | [<group> [<source>]]] [bitfield] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf [<context-name>] [<route-count>] [TABLE_one_route [<mcast-addrs>] [<rp-addr>] [<rp-local>] [<bidir>] [<sgexpire>] [<sgrexpire>] [<timeleft>] [<rp-bit>] [<register>] [<intf-name>] [<rpf-nbr-1>] [<rpf-nbr-addr>] [<intf-name-2>] [<rpf-nbr-2>] [<uptime>] [<is-attached>] [<is-static>] [<zero-nonpim-oifs>] [<is-external>] [<otv-decap>] [<otv-router-mode>] [<non-dr-oifs-only>] [<data-created>] [<mdt-encap>] [<mdt-decap>] [<vxlan-decap>] [<vxlan-encap>] [<sw-pkts>] [<sw-bytes>] [<hw-pkts>] [<hw-bytes>] [<rpf-src>] [<mrib-rpf-notify>] [<add-pending>] [<aged-route>] [<sg-expiry-cfg>] [<jp-holdtime>] [<route-metric-internal>] [<metric-pref-internal>] [<delay-register-stop>] [<register-stop-rcvd>] [<lisp-src-rloc>] [TABLE_lisp_encap [<encap-src-rloc>] [<encap-dst-rloc>] [<timeout-count>] [<add-pending>] [<del-pending>]] [<oif-count>] [<oif-bf-str>] [<timeout-count>] [<timeout-bf-str>] [<immediate-count>] [<immediate-bf-str>] [<immediate-timeout-count>] [<immediate-timeout-bf-str>] [<sgr-prune-list-count>] [<sgr-prune-list-bf-str>] [<timeout-interval>] [<jp-holdtime-rndup>] [<mdt-encap-index>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
route	Display PIM specific route information
group	(Optional) Group address to display
source	(Optional) Source address to display
bitfield	(Optional) Display details of each bitfield for PIM route
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
context-name	(Optional)
route-count	(Optional)
TABLE_one_route	(Optional)
mcast-addrs	(Optional)
rp-addr	(Optional)

rp-local	(Optional)
bidir	(Optional)
sgexpire	(Optional)
sgrexpire	(Optional)
timeleft	(Optional)
rp-bit	(Optional)
register	(Optional)
intf-name	(Optional)
rpf-nbr-1	(Optional)
rpf-nbr-addr	(Optional)
intf-name-2	(Optional)
rpf-nbr-2	(Optional)
uptime	(Optional)
is-attached	(Optional)
is-static	(Optional)
zero-nonpim-oifs	(Optional)
is-external	(Optional)
otv-decap	(Optional)
otv-router-mode	(Optional)
non-dr-oifs-only	(Optional)
data-created	(Optional)
mdt-encap	(Optional)
mdt-decap	(Optional)
vxlan-decap	(Optional)
vxlan-encap	(Optional)
sw-pkts	(Optional)
sw-bytes	(Optional)
hw-pkts	(Optional)
hw-bytes	(Optional)

rpf-src	(Optional)
mrib-rpf-notify	(Optional)
add-pending	(Optional)
aged-route	(Optional)
sg-expiry-cfg	(Optional)
jp-holdtime	(Optional)
route-metric-internal	(Optional)
metric-pref-internal	(Optional)
delay-register-stop	(Optional)
register-stop-rcvd	(Optional)
lisp-src-rloc	(Optional)
TABLE_lisp_encap	(Optional)
encap-src-rloc	(Optional)
encap-dst-rloc	(Optional)
timeout-count	(Optional)
add-pending	(Optional)
del-pending	(Optional)
oif-count	(Optional)
oif-bf-str	(Optional)
timeout-count	(Optional)
timeout-bf-str	(Optional)
immediate-count	(Optional)
immediate-bf-str	(Optional)
immediate-timeout-count	(Optional)
immediate-timeout-bf-str	(Optional)
sgr-prune-list-count	(Optional)
sgr-prune-list-bf-str	(Optional)
timeout-interval	(Optional)
jp-holdtime-rndup	(Optional)

mdt-encap-index	(Optional)

Command Mode

- /exec

show ip pim rp-hash

show ip pim rp-hash <group> [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ <out-context> [<rp-found>] [<is-rp-bsr-learnt>] [<out-group1> <rp-addr1>] [<out-group> <hash-length> <out-bsr>] [{ TABLE_rp <rp-addr> <hash> <isbest_hash> }]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
rp-hash	Display RP hash value for group
group	Group address for RP lookup
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
out-context	(Optional)
rp-found	(Optional)
is-rp-bsr-learnt	(Optional)
out-group1	(Optional)
rp-addr1	(Optional)
out-group	(Optional)
hash-length	(Optional)
out-bsr	(Optional)
TABLE_rp	(Optional)
rp-addr	(Optional)
hash	(Optional)
isbest_hash	(Optional)

Command Mode

- /exec

show ip pim rp

show ip pim rp [<group>] [vrf { <vrf-name> | <vrf-known-name> | all }] [internal] [__readonly__ [TABLE_vrf <out-context> [<is-bsr-enabled>] [<is-bsr-listen-only>] [<is-bsr-forward-only>] [<bsr-address>] [<is-bsr-local>] [<bs-timer>] [<bsr-uptime>] [<bsr-expires>] [<bsr-priority>] [<bsr-hash-masklen>] [<is-autorp-enabled>] [<is-autorp-listen-only>] [<is-autorp-forward-only>] [<auto-rp-addr>] [<is-autorp-local>] [<autorp-dis-timer>] [<autorp-cand-address>] [<autorp-up-time>] [<autorp-expire-time>] [<rp-cand-policy-name>] [<bsr-policy-name>] [<rp-announce-policy-name>] [<rp-discovery-policy-name>] [TABLE_anycast_rp <anycast-rp-addr> [TABLE_arp_rp <arp-rp-addr> <is-rpaddr-local>]] [TABLE_rp [<rp-addr>] [<is-rp-local>] [<df-ordinal>] [<rp-uptime>] [<rp-priority>] [<is_autorp_source>] [<is_bsr_source>] [<is_static_source>] [<rp-source>] [<static-rp-group-map>] [TABLE_grange [<grange-grp>] [<grange-masklen>] [<grange-is-deny>] [<is-bidir-grp>] [<autorp-expires>] [<bsr-rp-expires>] [<rp-owner-flags>]] [[<bidir-ordinal>] [<df-bits-recovered>] [<rpf-nbr-address>] [<metric>] [<metric-preference>]]]]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
rp	Display PIM RP, Auto-RP, and BSR related information
group	(Optional) Display RP for group address
internal	(Optional) Commands for internal use
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-context	(Optional)
is-bsr-enabled	(Optional)
is-bsr-listen-only	(Optional)
is-bsr-forward-only	(Optional)
bsr-address	(Optional)
is-bsr-local	(Optional)
bsr-priority	(Optional)

bsr-hash-masklen	(Optional)
bs-timer	(Optional)
bsr-uptime	(Optional)
bsr-expires	(Optional)
is-autorp-enabled	(Optional)
is-autorp-listen-only	(Optional)
is-autorp-forward-only	(Optional)
auto-rp-addr	(Optional)
autorp-cand-address	(Optional)
is-autorp-local	(Optional)
autorp-dis-timer	(Optional)
autorp-up-time	(Optional)
autorp-expire-time	(Optional)
rp-cand-policy-name	(Optional)
bsr-policy-name	(Optional)
rp-announce-policy-name	(Optional)
rp-discovery-policy-name	(Optional)
TABLE_anycast_rp	(Optional)
anycast-rp-addr	(Optional)
TABLE_arp_rp	(Optional)
arp-rp-addr	(Optional)
is-rpaddr-local	(Optional)
TABLE_rp	(Optional)
rp-addr	(Optional)
is-rp-local	(Optional)
df-ordinal	(Optional)
rp-uptime	(Optional)
rp-priority	(Optional)
is_autorp_source	(Optional)

is_bsr_source	(Optional)
is_static_source	(Optional)
rp-source	(Optional)
static-rp-group-map	(Optional)
TABLE_grange	(Optional)
grange-grp	(Optional)
grange-masklen	(Optional)
grange-is-deny	(Optional)
is-bidir-grp	(Optional)
autorp-expires	(Optional)
bsr-rp-expires	(Optional)
rp-owner-flags	(Optional)
bidir-ordinal	(Optional)
df-bits-recovered	(Optional)
rpf-nbr-address	(Optional)
metric	(Optional)
metric-preference	(Optional)

Command Mode

- /exec

show ip pim statistics

show ip pim statistics [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name> [<uptime> <reg-sent> <reg-rcvd> <null-reg-sent> <null-reg-rcvd> <reg-stop-sent> <reg-stop-rcvd> <reg-rcvd-not-rp> <reg-rcvd-for-ssm> <reg-rcvd-for-bidir> <bootstrap-sent> <bootstrap-rcvd> <cand-rp-sent> <cand-rp-rcvd> <bs-no-nbr> <bs-border-deny> <bs-len-errors> <bs-rpf-failed> <bs-no-listen> <candrp-border-deny> <candrp-no-listen> <autorp-announce-sent> <autorp-announce-rcvd> <autorp-discovery-sent> <autorp-discovery-rcvd> <autorp-rpf-failed> <autorp-border-deny> <autorp-invalid-type> <autorp-ttl-expired> <autorp-no-listen> <ctrl-no-route> <data-no-route> <no-state> <create-state>]]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
statistics	Packet counter statistics
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
uptime	(Optional)
reg-sent	(Optional)
reg-rcvd	(Optional)
null-reg-sent	(Optional)
null-reg-rcvd	(Optional)
reg-stop-sent	(Optional)
reg-stop-rcvd	(Optional)
reg-rcvd-not-rp	(Optional)
reg-rcvd-for-ssm	(Optional)
reg-rcvd-for-bidir	(Optional)

bootstrap-sent	(Optional)
bootstrap-rcvd	(Optional)
cand-rp-sent	(Optional)
cand-rp-rcvd	(Optional)
bs-no-nbr	(Optional)
bs-border-deny	(Optional)
bs-len-errors	(Optional)
bs-rpf-failed	(Optional)
bs-no-listen	(Optional)
candrp-border-deny	(Optional)
candrp-no-listen	(Optional)
autorp-announce-sent	(Optional)
autorp-announce-rcvd	(Optional)
autorp-discovery-sent	(Optional)
autorp-discovery-rcvd	(Optional)
autorp-rpf-failed	(Optional)
autorp-border-deny	(Optional)
autorp-invalid-type	(Optional)
autorp-ttl-expired	(Optional)
autorp-no-listen	(Optional)
ctrl-no-route	(Optional)
data-no-route	(Optional)
no-state	(Optional)
create-state	(Optional)

Command Mode

- /exec

show ip pim vrf

show ip pim vrf [{ <vrf-name> | <vrf-known-name> | all }] [detail | internal] [__readonly__ { TABLE_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> }]

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
vrf	Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM is configured for
detail	(Optional) Display detailed information
internal	(Optional) VRF related internal information
__readonly__	(Optional)
TABLE_context	(Optional)
out-context	(Optional)
context-id	(Optional)
table-id	(Optional)
count	(Optional)
bfd	(Optional)
mvpn	(Optional)

Command Mode

- /exec

show ip ping source-interface

show ip ping source-interface [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [{ TABLE_ippingvrf <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_ippingvrf	(Optional) source interface of ping
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip ping source-interface vrf all

show ip ping source-interface vrf all [__readonly__ [{ TABLE_ipping <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
ping	Display ping client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipping	(Optional) source interface of ping
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip policy

show ip policy [vrf { <vrf-name> | <vrf-known-name> | all }] [detail] [__readonly__ { TABLE_pbr [<interface>] [<rmap>] [<status>] [<vrf_name>] }]

Syntax Description

show	Show running system information
ip	Display IP information
policy	Policy routing
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Detailed information
__readonly__	(Optional)
TABLE_pbr	(Optional)
interface	(Optional)
rmap	(Optional)
status	(Optional)
vrf_name	(Optional)

Command Mode

- /exec

show ip prefix-list

show ip prefix-list { { [detail | summary] [<ipv4-pfl-name> | <ipv4-pfl-cfg-name>] } | { { <ipv4-pfl-name> | <ipv4-pfl-cfg-name> } seq <seq-no> } | { { <ipv4-pfl-name> | <ipv4-pfl-cfg-name> } <prefix> [first-match | longer] } } [__readonly__ TABLE_ip_pfl <name> <seq> <action> <rule>]

Syntax Description

show	Show running system information
ip	Display IP information
detail	(Optional) Show detailed information
summary	(Optional) Show summarized information
prefix-list	List IP prefix lists
ipv4-pfl-name	(Optional) Name of prefix-list
ipv4-pfl-cfg-name	(Optional) Known prefix-list name
seq	Sequence number
seq-no	Sequence number
prefix	IP prefix network/length, e.g., 35.0.0.0/8
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
__readonly__	(Optional)
TABLE_ip_pfl	(Optional)
name	(Optional)
seq	(Optional)
action	(Optional)
rule	(Optional)

Command Mode

- /exec

show ip process

show ip process [api] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_ip_pro_vrf [{ <pro-cntxt-name> <pro-cntxt-id> <pro-base-tid> <pro-auto-disc> <pro-atuo-add> <pro-null-bcast> <auto-punt-bcast> <static-disc> <static-def-route> <ip-unreach> }] [TABLE_pro_api [<api-vrf> <api-cntxt-id> <api-base-tid> <api-ip-addr> <api-rtr-id-iod>]] [TABLE_iod [{ <entry-iod> }]] [TABLE_local_addr [{ <local-addr> }]]] [TABLE_ip_pro_all { <all-pro-cntxt-name> <all-pro-cntxt-id> }]]

Syntax Description

show	Show running system information
ip	Display IP information
process	Display IP global information
api	(Optional) Show api values
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_ip_pro_vrf	(Optional)
pro-cntxt-name	(Optional)
pro-cntxt-id	(Optional)
pro-base-tid	(Optional)
pro-auto-disc	(Optional)
pro-atuo-add	(Optional)
pro-null-bcast	(Optional)
auto-punt-bcast	(Optional)
static-disc	(Optional)
static-def-route	(Optional)
ip-unreach	(Optional)
TABLE_pro_api	(Optional)
api-vrf	(Optional)

api-cntxt-id	(Optional)
api-base-tid	(Optional)
api-ip-addr	(Optional)
api-rtr-id-iod	(Optional)
TABLE_iod	(Optional)
entry-iod	(Optional)
TABLE_local_addr	(Optional)
local-addr	(Optional)
TABLE_ip_pro_all	(Optional)
all-pro-cntxt-name	(Optional)
all-pro-cntxt-id	(Optional)

Command Mode

- /exec

show ip rip

show { ipv6 | ip } rip [instance <inst>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_mode <isolate-mode> <mmode> [TABLE_inst <inst-name> TABLE_vrf [<vrf>] <rip-shut-globally-in-this-vrf> <port> <mcast-grp> <admin-dist> <update-tmr> <expire-tmr> <garbage-tmr> <def-metric> <max-paths> <def-rt-distrib> <def-distrib-always> <process-disabled> <out-of-mem> TABLE_afi <af> [TABLE_interface <if-name>] TABLE_redistrib <redistributing> [TABLE_clients <pibname> <policy>]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
inst	(Optional) Process ID
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_mode	(Optional)
isolate-mode	(Optional)
mmode	(Optional)
TABLE_inst	(Optional)
inst-name	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
rip-shut-globally-in-this-vrf	(Optional)
port	(Optional)
mcast-grp	(Optional)
admin-dist	(Optional)

update-tmr	(Optional)
expire-tmr	(Optional)
garbage-tmr	(Optional)
def-metric	(Optional)
max-paths	(Optional)
def-rt-distrib	(Optional)
def-distrib-always	(Optional)
process-disabled	(Optional)
out-of-mem	(Optional)
TABLE_afi	(Optional)
af	(Optional)
TABLE_interface	(Optional)
if-name	(Optional)
TABLE_redistrib	(Optional)
redistributing	(Optional)
TABLE_clients	(Optional)
pibname	(Optional)
policy	(Optional)

Command Mode

- /exec

show ip rip interface

show { ipv6 | ip } rip [instance <inst>] interface [<interface>] [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_inst <inst-name> TABLE_vrf [<vrf>] [TABLE_inter <if-name> <if-status> <protocol-up> <local-only> <no-addr-conf> [<if-addr> <if-mask>] <if-metric> <poison-reverse> <if-passive> <route-dist-filter> [<in-policy>] [<out-policy>] { TABLE_auth <auth-ena> [<auth-type> <auth-keychain>] } [TABLE_detail <import-routes> [<periodic-updates> <trigger-updates> <out-mcast-request> <out-ucast-update> <out-ucast-request> <in-mcast-update> <in-mcast-request> <in-ucast-update> <in-ucast-request> <bad-pkt> <bad-route>]]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
inst	(Optional) Process ID
interface	RIP interface
interface	(Optional) RIP interface
detail	(Optional) Detailed information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
inst-name	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
TABLE_inter	(Optional)
if-name	(Optional)
if-status	(Optional)
protocol-up	(Optional)

local-only	(Optional)
no-addr-conf	(Optional)
if-addr	(Optional)
if-mask	(Optional)
if-metric	(Optional)
poison-reverse	(Optional)
if-passive	(Optional)
route-dist-filter	(Optional)
in-policy	(Optional)
out-policy	(Optional)
TABLE_auth	(Optional)
auth-ena	(Optional)
auth-type	(Optional)
auth-keychain	(Optional)
TABLE_detail	(Optional)
import-routes	(Optional)
periodic-updates	(Optional)
trigger-updates	(Optional)
out-mcast-request	(Optional)
out-ucast-update	(Optional)
out-ucast-request	(Optional)
in-mcast-update	(Optional)
in-mcast-request	(Optional)
in-ucast-update	(Optional)
in-ucast-request	(Optional)
bad-pkt	(Optional)
bad-route	(Optional)

Command Mode

- /exec

show ip rip neighbor

show { ipv6 | ip } rip [instance <inst>] neighbor [<interface>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_inst <inst-name> TABLE_vrf [<vrf>] <numberof-adj> <dead-timer-seconds> [TABLE_adj <adj-addr> <if-name> [<last-response-sent-state>] [<last-response-sent>] [<last-response-rcvd-state>] [<last-response-rcvd>] [<last-request-sent-state>] [<last-request-sent>] [<last-request-rcvd-state>] [<last-request-rcvd>] <in-bad-packets> <in-bad-routes>]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
inst	(Optional) Process ID
neighbor	RIP neighbor
interface	(Optional) RIP interface
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
inst-name	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
numberof-adj	(Optional)
dead-timer-seconds	(Optional)
TABLE_adj	(Optional)
adj-addr	(Optional)
if-name	(Optional)
last-response-sent-state	(Optional)

last-response-sent	(Optional)
last-response-rcvd-state	(Optional)
last-response-rcvd	(Optional)
last-request-sent-state	(Optional)
last-request-sent	(Optional)
last-request-rcvd-state	(Optional)
last-request-rcvd	(Optional)
in-bad-packets	(Optional)
in-bad-routes	(Optional)

Command Mode

- /exec

show ip rip policy statistics redistribute

show ip rip [instance <inst>] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospf } <tag> | direct | static } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_asn <asn> TABLE_vrf <vrf> [TABLE_rmap [<name> <action> <seq_num>] [TABLE_cmd <command> [<compare_count>] <match_count>]] <total_accept_count> <total_reject_count>]

Syntax Description

show	Show running system information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
inst	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
as	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
tag	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_asn	(Optional) AS number table

asn	(Optional) AS number
TABLE_vrf	(Optional) VRF table
vrf	(Optional) VRF name
TABLE_rmap	(Optional) Routemap table
name	(Optional) Route-map Name
action	(Optional) Route-map action
seq_num	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
command	(Optional) Route-map command
compare_count	(Optional) Number of comparisons
match_count	(Optional) Number of matches
total_accept_count	(Optional) Total number of packets accepted by the policy
total_reject_count	(Optional) Total number of packets rejected by the policy

Command Mode

- /exec

show ip rip route

show { ipv6 | ip } rip [instance <inst>] route [{ <ipv6-prefix> | <ip-prefix> } [{ longer-prefixes | shorter-prefixes }]] [summary] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_inst <inst-name> TABLE_vrf [<vrf>] TABLE_issummary <is-summary> [TABLE_route <rt-prefix> <rt-mask> <rt-numnh> <best-route> [TABLE_nexthop [<nh-addr>] [<nh-interface>] [<nh-metric>] [<nh-tag>] [<nh-direct>] [<nh-redistrib>] [<nh-state>] [<nh-state-timer>]]] [TABLE_summary <total-num-rts> <total-best-rts> <total-paths> [TABLE_rtspermask <mask-length> <rts-per-mask>]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
inst	(Optional) Process ID
route	RIP routes
summary	(Optional) route counts
ip-prefix	(Optional) Exact prefix
longer-prefixes	(Optional) exact match and more specific routes
shorter-prefixes	(Optional) exact match and less specific routes
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_inst	(Optional)
inst-name	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
TABLE_issummary	(Optional)
is-summary	(Optional)

TABLE_route	(Optional)
rt-prefix	(Optional)
rt-mask	(Optional)
rt-numnh	(Optional)
best-route	(Optional)
TABLE_nexthop	(Optional)
nh-addr	(Optional)
nh-interface	(Optional)
nh-metric	(Optional)
nh-tag	(Optional)
nh-direct	(Optional)
nh-redistrib	(Optional)
nh-state	(Optional)
nh-state-timer	(Optional)
TABLE_summary	(Optional)
total-num-rts	(Optional)
total-best-rts	(Optional)
total-paths	(Optional)
TABLE_rtspermask	(Optional)
mask-length	(Optional)
rts-per-mask	(Optional)

Command Mode

- /exec

show ip rip statistics

show { ipv6 | ip } rip [instance <inst>] statistics [* | <interface>] [__readonly__ [TABLE_inst <inst-name> TABLE_interface <if-name> [<periodic-updates> <trigger-updates> <out-mcast-request> <out-ucast-update> <out-ucast-request> <in-mcast-update> <in-mcast-request> <in-ucast-update> <in-ucast-request> <bad-pkt> <bad-route>]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
ip	Display IP information
rip	Display RIP status and configuration
instance	(Optional) Process ID
inst	(Optional) Process ID
statistics	RIP statistics
interface	(Optional) RIP interface
*	(Optional) RIP statistics for all interfaces
__readonly__	(Optional)
TABLE_inst	(Optional)
inst-name	(Optional)
TABLE_interface	(Optional)
if-name	(Optional)
periodic-updates	(Optional)
trigger-updates	(Optional)
out-mcast-request	(Optional)
out-ucast-update	(Optional)
out-ucast-request	(Optional)
in-mcast-update	(Optional)
in-mcast-request	(Optional)
in-ucast-update	(Optional)
in-ucast-request	(Optional)

bad-pkt	(Optional)
bad-route	(Optional)

Command Mode

- /exec

show ip route

show ip route [ip | ipv4] [unicast] [topology <topology-name>] [l3vm-info] [rpf] [<ip-addr> | { <ip-prefix> [{ longer-prefixes | shorter-prefixes }] }] [{ <protocol> [all] } | { bind-label <bind-lbl> | next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [since <stime>] [until <utime>] } }] + [summary | detail] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [<ipnexthop>] [<nexthop-vrf-name>] [<ifname>] [<bindlbl>] <uptime> <pref> <metric> <clientname> [<type>] [<tag>] [<stale>] [<unres>] [<hidden>] [<stale-label>] [<bgpbackuppath>] [<ubest>] [<mbest>]] [TABLE_summary <routes> <paths> [<multicast_paths>] [TABLE_unicast [<clientnameuni>] [<best-paths>] [<backup-paths>]] [TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>]] [TABLE_route_count [<mask_len>] [<count>]]]]

Syntax Description

show	Show running system information
ip	Display IP information
route	Display routing information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
topology-name	(Optional) topology name
l3vm-info	(Optional) Display corresponding L3VM information
rpf	(Optional) Display RPF information for multicast source
ip-addr	(Optional) Display single route longest match lookup
ip-prefix	(Optional) Display single exact match route
longer-prefixes	(Optional) Display matching routes with mask-lengths >= prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths <= prefix
protocol	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too

bind-label	(Optional) Display routes with this bind-label only
bind-lbl	(Optional) Binding label
next-hop	(Optional) Display routes with this next-hop only
next-hop	(Optional) Next hop address
next-hop-v6	(Optional) Display routes with this V6 next-hop only
interface	(Optional) Display routes with this output interface only
interface	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
stime	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
utime	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
detail	(Optional) Display routes in full detail
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_addrf	(Optional)
addrf	(Optional)
TABLE_prefix	(Optional)
ipprefix	(Optional)
ucast-nhops	(Optional)
mcast-nhops	(Optional)
attached	(Optional)
TABLE_path	(Optional)
ipnexthop	(Optional)
nexthop-vrf-name	(Optional)
ifname	(Optional)
bindlbl	(Optional)

uptime	(Optional)
pref	(Optional)
metric	(Optional)
clientname	(Optional)
type	(Optional)
tag	(Optional)
stale	(Optional)
unres	(Optional)
hidden	(Optional)
stale-label	(Optional)
bgpbackuppath	(Optional)
ubest	(Optional)
mbest	(Optional)
TABLE_summary	(Optional)
routes	(Optional)
paths	(Optional)
multicast_paths	(Optional)
TABLE_unicast	(Optional)
clientnameuni	(Optional)
best-paths	(Optional)
backup-paths	(Optional)
TABLE_multicast	(Optional)
clientnamemulti	(Optional)
best-paths	(Optional)
backup-paths	(Optional)
TABLE_route_count	(Optional)
mask_len	(Optional)
count	(Optional)

Command Mode

- /exec

show ip rsvp

show ip rsvp [__readonly__ [<sup-state> <start-type> <restart-type> <ha-ena> <gr-ena> <hst-ena> <glb-router-id> <psr-ena> <local-epoch>] [TABLE_clients <clnt-name> <clnt-sap> <clnt-type> <clnt-batch-time> [<clnt-lxsb>]] [<bundle-ena> <bundle-time> <bundle-maxsz>] [<refresh-intvl> <refresh-miss>] [<refred-ena> <rr-init-rexmit-delay> <rr-rapid-rexmit-ena> <rr-ack-delay>] [<rate-limit-ena> <rate-limit-cap> <rate-limit-pace-intvl>] [<gr-tmr> [<gr-tmr-expiry>]] [<auth-ena> [<key-src>] [<digest>] [<seq-winsize>] [<challenge>] [<lifetime>]]]

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
__readonly__	(Optional)
sup-state	(Optional)
start-type	(Optional)
restart-type	(Optional)
ha-ena	(Optional)
gr-ena	(Optional)
hst-ena	(Optional)
glb-router-id	(Optional)
psr-ena	(Optional)
local-epoch	(Optional)
bundle-ena	(Optional)
bundle-time	(Optional)
bundle-maxsz	(Optional)
refresh-intvl	(Optional)
refresh-miss	(Optional)
refred-ena	(Optional)
rr-rapid-rexmit-ena	(Optional)
rr-init-rexmit-delay	(Optional)
rr-ack-delay	(Optional)

rate-limit-ena	(Optional)
rate-limit-cap	(Optional)
rate-limit-pace-intvl	(Optional)
gr-tmr	(Optional)
gr-tmr-expiry	(Optional)
auth-ena	(Optional)
key-src	(Optional)
digest	(Optional)
seq-winsize	(Optional)
challenge	(Optional)
lifetime	(Optional)
TABLE_clients	(Optional)
clnt-name	(Optional)
clnt-sap	(Optional)
clnt-type	(Optional)
clnt-batch-time	(Optional)
clnt-lxsb	(Optional)

Command Mode

- /exec

show ip sla application

show ip sla application [__readonly__ <version> [<line-length>] <type-name> <feature-name> <lowmemorymark> <max-entries> <probe-cap> <entries-config> <entries-active> <entries-pending> <entries-inactive> <last-change-time> <rttMonApplReset> [<rttMonApplTimeOfLastSet>]]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
application	IP SLAs Application
__readonly__	(Optional)
version	(Optional)
line-length	(Optional)
type-name	(Optional)
feature-name	(Optional)
lowmemorymark	(Optional)
max-entries	(Optional)
probe-cap	(Optional)
entries-config	(Optional)
entries-active	(Optional)
entries-pending	(Optional)
entries-inactive	(Optional)
last-change-time	(Optional)
rttMonApplReset	(Optional) Appl Reset
rttMonApplTimeOfLastSet	(Optional)

Command Mode

- /exec

show ip sla configuration

show ip sla configuration [<entry-num>] [__readonly__ { TABLE_configuration [<index>] [<owner>] [<tag>] [<timeout>] [<oper-type>] [<dest-ip>] [<source-int>] [<source-ip>] [<dest-port>] [<source-port>] [<dns-source-port>] [<traffic-class>] [<tos>] [<dns-name-server>] [<flow-label>] [<switch-id>] [<profile-id>] [<interface>] [<packet-size>] [<packet-interval>] [<num-packets>] [<codec-type>] [<codec-num-packets>] [<codec-packet-size>] [<codec-packet-interval>] [<codec-adv-factor>] [<verify-data>] [<data-pattern>] [<precision>] [<packet-priority>] [<ntp-sync-tolerance>] [<ntp-sync-toltype>] [<vrf-name>] [<control-enabled>] [<http-oper>] [<http-version>] [<url>] [<proxy>] [<raw-strings>] [<cache-control>] [<http-vrf-name>] [<http-owner>] [<http-tag>] [<http-timeout>] [<frequency>] [<secondary-freq-timeout>] [<secondary-freq-loss>] [<next-start-time>] [<group-scheduled>] [<randomly-scheduled>] [<low-frequency>] [<high-frequency>] [<life>] [<ageout>] [<recurring>] [<status-of-entry>] [<threshold>] [<hours>] [<buckets>] [<interval>] [<einterval>] [<ebuckets>] [<lives>] [<hsbuckets>] [<filter>] }]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
configuration	IP SLA configurtaion
entry-num	(Optional) Entry Number
__readonly__	(Optional)
TABLE_configuration	(Optional) show ip sla configuration information
index	(Optional)
owner	(Optional)
tag	(Optional)
timeout	(Optional)
oper-type	(Optional)
dest-ip	(Optional)
source-int	(Optional)
source-ip	(Optional)
dest-port	(Optional)
source-port	(Optional)
dns-source-port	(Optional)
traffic-class	(Optional)

tos	(Optional)
dns-name-server	(Optional)
flow-label	(Optional)
profile-id	(Optional)
switch-id	(Optional)
interface	(Optional)
packet-size	(Optional)
packet-interval	(Optional)
num-packets	(Optional)
codec-type	(Optional)
codec-num-packets	(Optional)
codec-packet-size	(Optional)
codec-packet-interval	(Optional)
codec-adv-factor	(Optional)
verify-data	(Optional)
data-pattern	(Optional)
precision	(Optional)
packet-priority	(Optional)
ntp-sync-tolerance	(Optional)
ntp-sync-toltype	(Optional)
vrf-name	(Optional)
control-enabled	(Optional)
http-oper	(Optional)
http-version	(Optional)
url	(Optional)
proxy	(Optional)
raw-strings	(Optional)
cache-control	(Optional)
http-vrf-name	(Optional)

http-owner	(Optional)
http-tag	(Optional)
http-timeout	(Optional)
frequency	(Optional)
secondary-freq-timeout	(Optional)
secondary-freq-loss	(Optional)
next-start-time	(Optional)
group-scheduled	(Optional)
randomly-scheduled	(Optional)
low-frequency	(Optional)
high-frequency	(Optional)
life	(Optional)
ageout	(Optional)
recurring	(Optional)
status-of-entry	(Optional)
threshold	(Optional)
hours	(Optional)
buckets	(Optional)
interval	(Optional)
einterval	(Optional)
ebuckets	(Optional)
lives	(Optional)
hsbuckets	(Optional)
filter	(Optional)

Command Mode

- /exec

show ip sla enhanced-history collection-statistics

show ip sla enhanced-history collection-statistics [<operation-number> [interval <interval-in-secs>]] [__readonly__ [{ TABLE_generic [<entry-num>] [<aggregate-interval>] [{ TABLE_bkt [<bkt-index>] [<agg-sti>] [<tgt-addr>] [<oper-type>] [<nofod>] [<nofot>] [<nofob>] [<nofonc>] [<nofoie>] [<nofose>] [<nofove>] [<ntp-state>] [<icpif>] [<mos-score>] [<rtt-values>] [<num-rtt>] [<rtt-avg>] [<rtt-min>] [<rtt-max>] [<rtt-sum>] [<rtt-sum2>] [<num-out-sync-rtt>] [<plsd>] [<plds>] [<pos>] [<pl-mia>] [<pla>] [<int-err>] [<busies>] [<pkt-skipped>] [<jitter-value-precision>] [<min-pos-sd>] [<max-pos-sd>] [<num-pos-sd>] [<sum-pos-sd>] [<sum2-pos-sd>] [<min-neg-sd>] [<max-neg-sd>] [<num-neg-sd>] [<sum-neg-sd>] [<sum2-neg-sd>] [<min-pos-ds>] [<max-pos-ds>] [<num-pos-ds>] [<sum-pos-ds>] [<sum2-pos-ds>] [<min-neg-ds>] [<max-neg-ds>] [<num-neg-ds>] [<sum-neg-ds>] [<sum2-neg-ds>] [<jitter-avg>] [<jitter-sd-avg>] [<jitter-ds-avg>] [<inter-jit-out>] [<inter-jit-in>] [<ow-precision>] [<num-ow>] [<ow-min-sd>] [<ow-max-sd>] [<ow-sum-sd>] [<ow-sum2-sd>] [<ow-min-ds>] [<ow-max-ds>] [<ow-sum-ds>] [<ow-sum2-ds>] [<avg-ow-sd>] [<avg-ow-ds>] }] [<outstring>] }]]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
collection-statistics	IP SLAs Collection Statistics
operation-number	(Optional) Entry Number
interval	(Optional) Aggregation Interval
interval-in-secs	(Optional) Interval in seconds
__readonly__	(Optional)
TABLE_generic	(Optional) Show History Information
entry-num	(Optional)
aggregate-interval	(Optional)
TABLE_bkt	(Optional) Show bucket History Information
bkt-index	(Optional)
agg-sti	(Optional)
tgt-addr	(Optional)
oper-type	(Optional)
nofod	(Optional)

nofot	(Optional)
nofob	(Optional)
nofonc	(Optional)
nofoie	(Optional)
nofose	(Optional)
nofove	(Optional)
ntp-state	(Optional)
icpif	(Optional)
mos-score	(Optional)
rtt-values	(Optional)
num-rtt	(Optional)
rtt-avg	(Optional)
rtt-min	(Optional)
rtt-max	(Optional)
rtt-sum	(Optional)
rtt-sum2	(Optional)
num-out-sync-rtt	(Optional)
plsd	(Optional)
plds	(Optional)
pos	(Optional)
pl-mia	(Optional)
pla	(Optional)
int-err	(Optional)
busies	(Optional)
pkt-skipped	(Optional)
jitter-value-precision	(Optional)
min-pos-sd	(Optional)
max-pos-sd	(Optional)
num-pos-sd	(Optional)

sum-pos-sd	(Optional)
sum2-pos-sd	(Optional)
min-neg-sd	(Optional)
max-neg-sd	(Optional)
num-neg-sd	(Optional)
sum-neg-sd	(Optional)
sum2-neg-sd	(Optional)
min-pos-ds	(Optional)
max-pos-ds	(Optional)
num-pos-ds	(Optional)
sum-pos-ds	(Optional)
sum2-pos-ds	(Optional)
min-neg-ds	(Optional)
max-neg-ds	(Optional)
num-neg-ds	(Optional)
sum-neg-ds	(Optional)
sum2-neg-ds	(Optional)
jitter-avg	(Optional)
jitter-sd-avg	(Optional)
jitter-ds-avg	(Optional)
inter-jit-out	(Optional)
inter-jit-in	(Optional)
ow-precision	(Optional)
num-ow	(Optional)
ow-min-sd	(Optional)
ow-max-sd	(Optional)
ow-sum-sd	(Optional)
ow-sum2-sd	(Optional)
ow-min-ds	(Optional)

ow-max-ds	(Optional)
ow-sum-ds	(Optional)
ow-sum2-ds	(Optional)
avg-ow-sd	(Optional)
avg-ow-ds	(Optional)
outstring	(Optional)

Command Mode

- /exec

show ip sla enhanced-history distribution-statistics

show ip sla enhanced-history distribution-statistics [<operation-number> [interval <interval-in-secs>]] [__readonly__ [<hdr>] [{ TABLE_generic [<col1>] [<col2>] [<col3>] }]]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
enhanced-history	IP SLAs Enhanced History
distribution-statistics	IP SLAs Distribution Statistics
operation-number	(Optional) Entry Number
interval	(Optional) Aggregation Interval
interval-in-secs	(Optional) Interval in seconds
__readonly__	(Optional)
hdr	(Optional)
TABLE_generic	(Optional) Show History Information
col1	(Optional)
col2	(Optional)
col3	(Optional)

Command Mode

- /exec

show ip sla group schedule

show ip sla group schedule [<group-operation-number>] [__readonly__ [<entry-number>] [<probe-list>] [<num-probes>] [<sched-period>] [<mode>] [<low-freq>] [<high-freq>] [<freq>] [<snmp-status>] [<next-start-time>] [<life>] [<ageout>]]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
group	IP SLAs Group Scheduling/Configuration
schedule	Group Scheduling
group-operation-number	(Optional) Group Schedule Entry Number
__readonly__	(Optional)
entry-number	(Optional)
probe-list	(Optional)
num-probes	(Optional)
sched-period	(Optional)
mode	(Optional)
low-freq	(Optional)
high-freq	(Optional)
freq	(Optional)
snmp-status	(Optional)
next-start-time	(Optional)
life	(Optional)
ageout	(Optional)

Command Mode

- /exec

show ip sla history

show ip sla history [<operation-number>] [tabular | full | interval-statistics] [__readonly__ [<outstring>] [{ TABLE_generic [<index>] [<life-index>] [<bucket-index>] [<col1>] [<addr>] [<dest-id>] [<nsr>] [<st>] [<latest-rtt>] [<latest-ret-code>] [<col2>] }] [<error>]]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
history	IP SLAs History
operation-number	(Optional) Entry Number
tabular	(Optional) Compact Output
full	(Optional) Listed Output
interval-statistics	(Optional) Interval statistics output
__readonly__	(Optional)
outstring	(Optional)
TABLE_generic	(Optional) Show History Information
index	(Optional)
life-index	(Optional)
bucket-index	(Optional)
col1	(Optional)
addr	(Optional)
dest-id	(Optional)
nsr	(Optional)
st	(Optional)
latest-rtt	(Optional)
latest-ret-code	(Optional)
col2	(Optional)
error	(Optional)

Command Mode

- /exec

show ip sla reaction-configuration

show ip sla reaction-configuration [<entry-num>] [__readonly__ { TABLE_reaction [<entry-number>] [<index>] [<reaction>] [<threshold-type>] [<rising-value>] [<falling-value>] [<threshold-countX>] [<threshold-countY>] [<action-type>] [<unconfigured>] }]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction Configuration
entry-num	(Optional) Entry Number
__readonly__	(Optional)
TABLE_reaction	(Optional)
entry-number	(Optional)
index	(Optional)
reaction	(Optional)
threshold-type	(Optional)
rising-value	(Optional)
falling-value	(Optional)
threshold-countX	(Optional)
threshold-countY	(Optional)
action-type	(Optional)
unconfigured	(Optional)

Command Mode

- /exec

show ip sla reaction-trigger

show ip sla reaction-trigger [<entry-num>] [__readonly__ { TABLE_trigger [<entry-number>] [<index>] [<target-entry>] [<snmp-status>] [<operational-state>] [<unconfigured>] }]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Reaction Trigger
entry-num	(Optional) Entry Number
__readonly__	(Optional)
TABLE_trigger	(Optional)
entry-number	(Optional)
index	(Optional)
target-entry	(Optional)
snmp-status	(Optional)
operational-state	(Optional)
unconfigured	(Optional)

Command Mode

- /exec

show ip sla responder

show ip sla responder [__readonly__ <rttMonApplResponder> <gen-enabled> [<ctrl-msg-count>] [<errors>] [<print-recent-hdr>] [{ TABLE_recent [<recent-addr>] [<recent-time>] }] [<print-recent-err-hdr>] [{ TABLE_recent_error [<recent-error>] }] <perm-enabled> [{ TABLE_permanent_udp [<print-udp-hdr>] [<address>] [<port>] }] [{ TABLE_permanent_tcp [<print-tcp-hdr>] [<address>] [<port>] }]]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
responder	IP SLAs Responder Information
__readonly__	(Optional)
rttMonApplResponder	(Optional) rttMonApplResponder
gen-enabled	(Optional)
ctrl-msg-count	(Optional)
errors	(Optional)
print-recent-hdr	(Optional)
TABLE_recent	(Optional) Show recent control message information
recent-addr	(Optional)
recent-time	(Optional)
print-recent-err-hdr	(Optional)
TABLE_recent_error	(Optional) Show recent control error information
recent-error	(Optional)
perm-enabled	(Optional)
TABLE_permanent_udp	(Optional) Show UDP permanent port/address information
print-udp-hdr	(Optional)
address	(Optional)
port	(Optional)
TABLE_permanent_tcp	(Optional) Show TCP permanent port/address information
print-tcp-hdr	(Optional)

address	(Optional)
port	(Optional)

Command Mode

- /exec

show ip sla statistics

show ip sla statistics [aggregated] [<entry-num>] [details] [__readonly__ <print_type> [{ TABLE_stats [<index>] [<top>] [{ TABLE_detail [<sti>] [<operation-type>] [<MINICPIF>] [<MAXICPIF>] [<MINMOS>] [<MAXMOS>] [<update-count>] [<micro-accuracy>] [<nano-accuracy>] [<latest-RTT>] [<latest-return-code>] [<latest-start-time>] [<http-dns-rtt>] [<http-tcp-rtt>] [<http-ttfb>] [<http-rtt>] [<http-status>] [<http-recvlen>] [<http-bodysize>] [<http-dns-timeout>] [<http-tcp-timeout>] [<http-t-timeout>] [<http-dns-error>] [<http-tcp-error>] [<http-t-error>] [<ntp-sync-state>] [<rtt-count>] [<rtt-min>] [<rtt-avg>] [<rtt-max>] [<lat-ow-samples>] [<sd-lat-ow-min>] [<sd-lat-ow-avg>] [<sd-lat-ow-max>] [<ds-lat-ow-min>] [<ds-lat-ow-avg>] [<ds-lat-ow-max>] [<sd-lat-sum>] [<sd-lat-sum2>] [<ds-lat-sum>] [<ds-lat-sum2>] [<sd-jitter-count>] [<ds-jitter-count>] [<sd-jitter-min>] [<sd-jitter-avg>] [<sd-jitter-max>] [<ds-jitter-min>] [<ds-jitter-avg>] [<ds-jitter-max>] [<sd-pos-jitter-min>] [<sd-pos-jitter-avg>] [<sd-pos-jitter-max>] [<sd-pos-jitter-num>] [<sd-pos-jitter-sum>] [<sd-pos-jitter-sum2>] [<sd-neg-jitter-min>] [<sd-neg-jitter-avg>] [<sd-neg-jitter-max>] [<sd-neg-jitter-num>] [<sd-neg-jitter-sum>] [<sd-neg-jitter-sum2>] [<ds-pos-jitter-min>] [<ds-pos-jitter-avg>] [<ds-pos-jitter-max>] [<ds-pos-jitter-num>] [<ds-pos-jitter-sum>] [<ds-pos-jitter-sum2>] [<ds-neg-jitter-min>] [<ds-neg-jitter-avg>] [<ds-neg-jitter-max>] [<ds-neg-jitter-num>] [<ds-neg-jitter-sum>] [<ds-neg-jitter-sum2>] [<pkt-unprocessed>] [<pkt-loss>] [<pkt-loss-per>] [<pkt-loss-min>] [<pkt-loss-max>] [<pkt-loss-inter-min>] [<pkt-loss-inter-max>] [<inter-jitter-out>] [<inter-jitter-in>] [<jitter-avg>] [<pkt-loss-sd>] [<pkt-loss-sd-per>] [<pkt-loss-sd-min>] [<pkt-loss-sd-max>] [<pkt-loss-sd-inter-min>] [<pkt-loss-sd-inter-max>] [<pkt-loss-ds>] [<pkt-loss-ds-per>] [<pkt-loss-ds-min>] [<pkt-loss-ds-max>] [<pkt-loss-ds-inter-min>] [<pkt-loss-ds-inter-max>] [<pkt-oos>] [<pkt-oos-sd>] [<pkt-oos-ds>] [<pkt-oos-both>] [<pkt-mia>] [<pkt-late>] [<pkt-skipped>] [<voice-icpif>] [<voice-mos>] [<dnobs>] [<dmam>] [<dtoo>] [<dmin>] [<dmax>] [<pnobs>] [<pmam>] [<ptoo>] [<pmin>] [<pmax>] [<nnobs>] [<nmam>] [<ntoo>] [<nmin>] [<nmax>] [<outstring1>] [<outstring2>] [<nos>] [<nof>] [<noot>] [<nofo1>] [<nofo2>] [{ TABLE_br [
 ] [<avg-lat>] [<potc>] [<noc-by-lat>] [<sortthigh-by-low>] [<operot>] }] }] [<life-left>] [<oper-state>] [<reset-time>] [<nob>] [<bbh>] [<bbv>] }]]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
statistics	IP SLAs Statistics
entry-num	(Optional) Entry Number
details	(Optional) Detailed Output
aggregated	(Optional) IP SLAs Statistics Aggregated
__readonly__	(Optional)
print_type	(Optional)
TABLE_stats	(Optional) Show ip sla statistics information
index	(Optional)

top	(Optional)
TABLE_detail	(Optional) Show ip sla statistics detail information
sti	(Optional)
operation-type	(Optional)
MINICPIF	(Optional)
MAXICPIF	(Optional)
MINMOS	(Optional)
MAXMOS	(Optional)
update-count	(Optional)
micro-accuracy	(Optional)
nano-accuracy	(Optional)
latest-RTT	(Optional)
latest-return-code	(Optional)
latest-start-time	(Optional)
http-dns-rtt	(Optional)
http-tcp-rtt	(Optional)
http-ttfb	(Optional)
http-rtt	(Optional)
http-status	(Optional)
http-recvlen	(Optional)
http-bodysize	(Optional)
http-dns-timeout	(Optional)
http-tcp-timeout	(Optional)
http-t-timeout	(Optional)
http-dns-error	(Optional)
http-tcp-error	(Optional)
http-t-error	(Optional)
ntp-sync-state	(Optional)
rtt-count	(Optional)

rtt-min	(Optional)
rtt-avg	(Optional)
rtt-max	(Optional)
lat-ow-samples	(Optional)
sd-lat-ow-min	(Optional)
sd-lat-ow-avg	(Optional)
sd-lat-ow-max	(Optional)
ds-lat-ow-min	(Optional)
ds-lat-ow-avg	(Optional)
ds-lat-ow-max	(Optional)
sd-lat-sum	(Optional)
sd-lat-sum2	(Optional)
ds-lat-sum	(Optional)
ds-lat-sum2	(Optional)
sd-jitter-count	(Optional)
ds-jitter-count	(Optional)
sd-jitter-min	(Optional)
sd-jitter-avg	(Optional)
sd-jitter-max	(Optional)
ds-jitter-min	(Optional)
ds-jitter-avg	(Optional)
ds-jitter-max	(Optional)
sd-pos-jitter-min	(Optional)
sd-pos-jitter-avg	(Optional)
sd-pos-jitter-max	(Optional)
sd-pos-jitter-num	(Optional)
sd-pos-jitter-sum	(Optional)
sd-pos-jitter-sum2	(Optional)
sd-neg-jitter-min	(Optional)

sd-neg-jitter-avg	(Optional)
sd-neg-jitter-max	(Optional)
sd-neg-jitter-num	(Optional)
sd-neg-jitter-sum	(Optional)
sd-neg-jitter-sum2	(Optional)
ds-pos-jitter-min	(Optional)
ds-pos-jitter-avg	(Optional)
ds-pos-jitter-max	(Optional)
ds-pos-jitter-num	(Optional)
ds-pos-jitter-sum	(Optional)
ds-pos-jitter-sum2	(Optional)
ds-neg-jitter-min	(Optional)
ds-neg-jitter-avg	(Optional)
ds-neg-jitter-max	(Optional)
ds-neg-jitter-num	(Optional)
ds-neg-jitter-sum	(Optional)
ds-neg-jitter-sum2	(Optional)
pkt-unprocessed	(Optional)
pkt-loss	(Optional)
pkt-loss-per	(Optional)
pkt-loss-min	(Optional)
pkt-loss-max	(Optional)
pkt-loss-inter-min	(Optional)
pkt-loss-inter-max	(Optional)
inter-jitter-out	(Optional)
inter-jitter-in	(Optional)
jitter-avg	(Optional)
pkt-loss-sd	(Optional)
pkt-loss-sd-per	(Optional)

pkt-loss-sd-min	(Optional)
pkt-loss-sd-max	(Optional)
pkt-loss-sd-inter-min	(Optional)
pkt-loss-sd-inter-max	(Optional)
pkt-loss-ds	(Optional)
pkt-loss-ds-per	(Optional)
pkt-loss-ds-min	(Optional)
pkt-loss-ds-max	(Optional)
pkt-loss-ds-inter-min	(Optional)
pkt-loss-ds-inter-max	(Optional)
pkt-oos	(Optional)
pkt-oos-sd	(Optional)
pkt-oos-ds	(Optional)
pkt-oos-both	(Optional)
pkt-mia	(Optional)
pkt-late	(Optional)
pkt-skipped	(Optional)
voice-icpif	(Optional)
voice-mos	(Optional)
dnobs	(Optional)
dmam	(Optional)
dtoo	(Optional)
dmin	(Optional)
dmax	(Optional)
pnobs	(Optional)
pmam	(Optional)
ptoo	(Optional)
pmin	(Optional)
pmax	(Optional)

nnobs	(Optional)
nmam	(Optional)
ntoo	(Optional)
nmin	(Optional)
nmax	(Optional)
outstring1	(Optional)
outstring2	(Optional)
nos	(Optional)
nof	(Optional)
noot	(Optional)
nofo1	(Optional)
nofo2	(Optional)
TABLE_br	(Optional) Bin range related info
br	(Optional)
avg-lat	(Optional)
potc	(Optional)
noc-by-lat	(Optional)
sortthigh-by-low	(Optional)
operot	(Optional)
life-left	(Optional)
oper-state	(Optional)
reset-time	(Optional)
nob	(Optional)
bbh	(Optional)
bbv	(Optional)

Command Mode

- /exec

show ip sla twamp connection detail

show ip sla twamp connection detail [__readonly__ [{ TABLE_twamp-connection-detail <Connection-Id> <Client-Addr> <Client-Port> <Client-VRF> <Mode> <Connection-state> <Control-state> <Number-Of-Test-requests> }]]

Syntax Description

show	
ip	
sla	
twamp	
connection	
detail	
__readonly__	(Optional)
TABLE_twamp-connection-detail	(Optional) connection related info
Connection-Id	(Optional)
Client-Addr	(Optional)
Client-Port	(Optional)
Client-VRF	(Optional)
Mode	(Optional)
Connection-state	(Optional)
Control-state	(Optional)
Number-Of-Test-requests	(Optional)

Command Mode

- /exec

show ip sla twamp connection requests

show ip sla twamp connection requests [__readonly__ [{ TABLE_twamp-connection-request <Connection-Id> <Client-Addr> <Client-Port> <Client-VRF> }] [<Total-Connections>]]

Syntax Description

show	
ip	
sla	
twamp	
connection	
requests	
__readonly__	(Optional)
TABLE_twamp-connection-request	(Optional) connection requests related info
Connection-Id	(Optional)
Client-Addr	(Optional)
Client-Port	(Optional)
Client-VRF	(Optional)
Total-Connections	(Optional)

Command Mode

- /exec

show ip sla twamp session

show ip sla twamp session [__readonly__ <twamp-resp-status> [{ TABLE_twamp-session [<recv-addr>] [<recv-port>] [<send-addr>] [<send-port>] [<send-vrf>] [<sess-id>] [<conn-id>] }]]

Syntax Description

show	
ip	
sla	Service Level Agreement (SLA)
twamp	IP SLAs Twamp Information
session	Display TWAMP Sessions
__readonly__	(Optional)
twamp-resp-status	(Optional)
TABLE_twamp-session	(Optional) session related information
recv-addr	(Optional)
recv-port	(Optional)
send-addr	(Optional)
send-port	(Optional)
send-vrf	(Optional)
sess-id	(Optional)
conn-id	(Optional)

Command Mode

- /exec

show ip sla twamp standards

show ip sla twamp standards [__readonly__ [{ TABLE_twamp-standards <twamp-standard-feature> <twamp-standard-org> <twamp-standard> }]]

Syntax Description

show	
ip	
sla	
twamp	
standards	
__readonly__	(Optional)
TABLE_twamp-standards	(Optional) twamp standards for each supported feature
twamp-standard-feature	(Optional)
twamp-standard-org	(Optional)
twamp-standard	(Optional)

Command Mode

- /exec

show ip ssh source-interface

show ip ssh source-interface [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [{ TABLE_ipsshvrf <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_ipsshvrf	(Optional) source interface of ssh given vrf
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip ssh source-interface vrf all

show ip ssh source-interface vrf all [__readonly__ [{ TABLE_ipssh <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
ssh	Display SSH client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_ipssh	(Optional) source interface of ssh
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip static-route

show ip static-route [multicast] [internal] [track-table] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [<count> <unres-count>] [TABLE_vrf_all { <cntxt_name> <cntxt_id> [TABLE_each_vrf { <prefix_addr_msk> <nhop_addr_msk> <nhop_vrf_info> <nhop_intr_info> <urib_stat> [<seg_id>] [<tunnel_id> <urib_encap_type>] [<nhop_urib_stat>] [<track_obj_num> <track_obj_state>] }] }] [TABLE_multicast <multicast>] [TABLE_track-table] [TABLE_route <prefix> <masklen> <nhop> <nhop-masklen> <intf> <real-nhop> <iod> <pref> <tag> <unres>]]

Syntax Description

show	Show running system information
ip	Display IP information
static-route	Display configured static routes
multicast	(Optional) Display only multicast routes
internal	(Optional) Display internal data structure info
track-table	(Optional) Display track object details associated with static routes
vrf	(Optional) Display per-VRF information
all	(Optional) Display all VRFs
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_vrf_all	(Optional)
cntxt_name	(Optional)
cntxt_id	(Optional)
TABLE_each_vrf	(Optional)
prefix_addr_msk	(Optional)
nhop_addr_msk	(Optional)
nhop_vrf_info	(Optional)
nhop_intr_info	(Optional)
urib_stat	(Optional)
seg_id	(Optional)
tunnel_id	(Optional)

urib_encap_type	(Optional)
nhop_urib_stat	(Optional)
track_obj_num	(Optional)
track_obj_state	(Optional)
TABLE_multicast	(Optional)
multicast	(Optional)
TABLE_track-table	(Optional)
TABLE_route	(Optional)
prefix	(Optional)
masklen	(Optional)
nhop	(Optional)
nhop-masklen	(Optional)
intf	(Optional)
real-nhop	(Optional)
iod	(Optional)
pref	(Optional)
tag	(Optional)
unres	(Optional)
count	(Optional)
unres-count	(Optional)

Command Mode

- /exec

show ip tcp mss

show ip tcp mss [__readonly__ { <tcp-mss-value> }]

Syntax Description

show	Show running system information
ip	Configure IP features
tcp	Global TCP parameters
mss	Maximum segment size for TCP connections in bytes
__readonly__	(Optional)
tcp-mss-value	(Optional) TCP Maximum Segment Size Value

Command Mode

- /exec

show ip telnet source-interface

show ip telnet source-interface [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [{ TABLE_iptelnetvrf <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
telnet	Display telnet information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_iptelnetvrf	(Optional) source interface of telnet given vrf
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip telnet source-interface vrf all

show ip telnet source-interface vrf all [__readonly__ [{ TABLE_iptelnet <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
telnet	Display telnet information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptelnet	(Optional) source interface of telnet
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip tftp source-interface

show ip tftp source-interface [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [{ TABLE_iptftpvrf <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_iptftpvrf	(Optional) source interface of tftp given vrf
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip tftp source-interface vrf all

show ip tftp source-interface vrf all [__readonly__ [{ TABLE_iptftp <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
tftp	Display TFTP client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptftp	(Optional) source interface of tftp
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip traceroute source-interface

show ip traceroute source-interface [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [{ TABLE_iptraceroutevrf <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_iptraceroutevrf	(Optional) source interface of traceroute
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip traceroute source-interface vrf all

show ip traceroute source-interface vrf all [__readonly__ [{ TABLE_iptraceroute <vrfname> <ifname> }]]

Syntax Description

show	Show running system information
ip	Display IP information
traceroute	Display traceroute client information
source-interface	Display source interface information
vrf	Display per-VRF information
all	Display entries for all vrfs
__readonly__	(Optional)
TABLE_iptraceroute	(Optional) source interface of traceroute
vrfname	(Optional) vrfname
ifname	(Optional) ifname

Command Mode

- /exec

show ip traffic

show ip traffic [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [{ TABLE_vrf [<vrf-name-out>] }] [{ TABLE_ip_soft_processed_traffic [{ TABLE_trans_and_reception [<rcvd>] [<sent>] [<consumed>] [<fwd-ucast>] [<fwd-mcast>] [<fwd-label>] [<ingress-mcecfrwd>] }] [{ TABLE_opts [<opts-end>] [<opts-nop>] [<opts-bsec>] [<opts-loosesrc-route>] [<opts-timestamp>] [<opts-esec>] [<opts-record-route>] [<opts-stid>] [<opts-strsrc-route>] [<opts-alert>] [<opts-cipso>] [<opts-ump>] [<opts-other>] }] [{ TABLE_errors [<bad-csum>] [<too-small>] [<bad-ver>] [<bad-hlen>] [<bad-len>] [<bad-dest>] [<bad-ttl>] [<cant-fwd>] [<out-drop>] [<bad-encap>] [<no-route>] [<no-proto>] [<bad-options>] [<vinci>] [<snoop>] [<svi>] [<restart-recovery>] [<mbuf-fail>] [<bad-context>] [<rpf-drops>] [<bad-gw-mac>] [<ing-ips-option-fail>] [<nat-in-drop>] [<nat-out-drop>] [<ing-option-proc-fail>] [<ing-mfrwd-fail>] [<ing-lisp-drop>] [<ing-lisp-decap-drop>] [<ing-lisp-encap-drop>] [<ing-lisp-encap>] [<ing-mfwd-copy-drop>] [<ing-ra-reass-drop>] [<ing-icmp-redirect>] [<ing-drop-ifmgr-init>] [<ing-drop-invld-filter>] [<ing-drop-invld-l2-msg>] [<ingress>] [<egrees>] [<directed_bdcast>] }] [{ TABLE_fragment [<frag>] [<fragmented>] [<out-frag>] [<frag-drop>] [<cant-frag>] [<reasm>] [<frag-to>] }] }] [{ TABLE_icmp_software_proc_traffic [{ TABLE_transmission [<tx-redir>] [<tx-unreach>] [<tx-echo-req>] [<tx-echo-reply>] [<tx-mask-req>] [<tx-mask-rep>] [<tx-info-req>] [<tx-info-reply>] [<tx-param-prob>] [<tx-source-quench>] [<tx-tstamp-req>] [<tx-tstamp-reply>] [<tx-time-exceeded>] [<tx-router-solicit>] [<tx-router-advert>] [<out-drop-badlen>] [<encap-fail>] [<xmit-fail>] [<icmp-orginate>] [<redirect-orginate-req>] [<orginate-deny>] [<short-ip>] [<old-icmp>] [<error-drop>] }] [{ TABLE_reception [<rx-redir>] [<rx-unreach>] [<rx-echo-req>] [<rx-echo-reply>] [<rx-mask-req>] [<rx-mask-rep>] [<rx-info-req>] [<rx-info-reply>] [<rx-param-prob>] [<rx-source-quench>] [<rx-tstamp-req>] [<rx-tstamp-reply>] [<rx-time-exceeded>] [<rx-router-solicit>] [<rx-router-advert>] [<rx-format-errors>] [<rx-csum-errors>] [<lisp-processed>] [<lisp-noclient>] [<lisp-consumed>] [<icmp-replies>] [<icmp-reply-drop>] [<icmp-inactive-addr>] }] [{ TABLE_stat_last_never [<stat-last-never>] }] }] [{ TABLE_rfc4293_ip_soft_proc_traffic [{ TABLE_rfc_reception [<inrcv>] [<inoctet>] [<inhdrerr>] [<innoroutes>] [<inaddrerr>] [<innoproto>] [<intruncated>] [<inforw>] [<reasmreqds>] [<reasmoks>] [<reasmfails>] [<indiscards>] [<indelivers>] [<inmcastpkts>] [<inmcastbytes>] [<inbastpkts>] }] [{ TABLE_rfc_transmission [<out-req>] [<out-no-route>] [<out-forwdgrams>] [<out-discards>] [<out-frag-req>] [<out-frag-oks>] [<out-frag-fails>] [<out-frag-create>] [<out-transmits>] [<byte-sent>] [<out-mcast-pkts>] [<out-mcast-bytes>] [<out-bcast-pkts>] [<out-bcast-bytes>] }] }]]

Syntax Description

show	Show running system information
ip	Display IP information
traffic	Display IP software processed traffic statistics
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)

TABLE_ip_soft_processed_traffic	(Optional)
TABLE_trans_and_reception	(Optional)
rcvd	(Optional)
sent	(Optional)
consumed	(Optional)
fwd-ucast	(Optional)
fwd-mcast	(Optional)
fwd-label	(Optional)
ingress-mcecfrwd	(Optional)
TABLE_opts	(Optional)
opts-end	(Optional)
opts-nop	(Optional)
opts-bsec	(Optional)
opts-loosesrc-route	(Optional)
opts-timestamp	(Optional)
opts-esec	(Optional)
opts-record-route	(Optional)
opts-ump	(Optional)
opts-stid	(Optional)
opts-strsrc-route	(Optional)
opts-alert	(Optional)
opts-cipso	(Optional)
opts-other	(Optional)
TABLE_errors	(Optional)
bad-csum	(Optional)
too-small	(Optional)
bad-ver	(Optional)
bad-hlen	(Optional)
bad-len	(Optional)

bad-dest	(Optional)
bad-ttl	(Optional)
cant-fwd	(Optional)
out-drop	(Optional)
bad-encap	(Optional)
no-route	(Optional)
no-proto	(Optional)
bad-options	(Optional)
vinci	(Optional)
snoop	(Optional)
svi	(Optional)
restart-recovery	(Optional)
mbuf-fail	(Optional)
bad-context	(Optional)
rpf-drops	(Optional)
bad-gw-mac	(Optional)
ing-ips-option-fail	(Optional)
nat-in-drop	(Optional)
nat-out-drop	(Optional)
ing-option-proc-fail	(Optional)
ing-mfrwd-fail	(Optional)
ing-lisp-drop	(Optional)
ing-lisp-decap-drop	(Optional)
ing-lisp-encap-drop	(Optional)
ing-lisp-encap	(Optional)
ing-mfwd-copy-drop	(Optional)
ing-ra-reass-drop	(Optional)
ing-icmp-redirect	(Optional)
ing-drop-ifmgr-init	(Optional)

ing-drop-invld-filter	(Optional)
ing-drop-invld-l2-msg	(Optional)
ingress	(Optional)
egrees	(Optional)
directed_bdcast	(Optional)
TABLE_fragment	(Optional)
frag	(Optional)
fragmented	(Optional)
out-frag	(Optional)
frag-drop	(Optional)
cant-frag	(Optional)
reasm	(Optional)
frag-to	(Optional)
TABLE_icmp_software_proc_traffic	(Optional)
TABLE_transmission	(Optional)
tx-redir	(Optional)
tx-unreach	(Optional)
tx-echo-req	(Optional)
tx-echo-reply	(Optional)
tx-mask-req	(Optional)
tx-mask-rep	(Optional)
tx-info-req	(Optional)
tx-info-reply	(Optional)
tx-param-prob	(Optional)
tx-source-quench	(Optional)
tx-tstamp-req	(Optional)
tx-tstamp-reply	(Optional)
tx-time-exceeded	(Optional)
tx-router-solicit	(Optional)

tx-router-advert	(Optional)
out-drop-badlen	(Optional)
encap-fail	(Optional)
xmit-fail	(Optional)
icmp-orginate	(Optional)
redirect-orginate-req	(Optional)
orginate-deny	(Optional)
short-ip	(Optional)
old-icmp	(Optional)
error-drop	(Optional)
TABLE_reception	(Optional)
rx-redir	(Optional)
rx-unreach	(Optional)
rx-echo-req	(Optional)
rx-echo-reply	(Optional)
rx-mask-req	(Optional)
rx-mask-rep	(Optional)
rx-info-req	(Optional)
rx-info-reply	(Optional)
rx-param-prob	(Optional)
rx-source-quench	(Optional)
rx-tstamp-req	(Optional)
rx-tstamp-reply	(Optional)
rx-time-exceeded	(Optional)
rx-router-solicit	(Optional)
rx-router-advert	(Optional)
rx-format-errors	(Optional)
rx-csum-errors	(Optional)
lisp-processed	(Optional)

lisp-noclient	(Optional)
lisp-consumed	(Optional)
icmp-replies	(Optional)
icmp-reply-drop	(Optional)
icmp-inactive-addr	(Optional)
TABLE_stat_last_never	(Optional)
stat-last-never	(Optional)
TABLE_rfc4293_ip_soft_proc_traffic	(Optional)
TABLE_rfc_reception	(Optional)
inrcv	(Optional)
inoctet	(Optional)
inhdrerr	(Optional)
innoroutes	(Optional)
inaddrerr	(Optional)
innoproto	(Optional)
intruncated	(Optional)
inforw	(Optional)
reasmreqds	(Optional)
reasmoks	(Optional)
reasmfails	(Optional)
indiscards	(Optional)
indelivers	(Optional)
inmcastpkts	(Optional)
inmcastbytes	(Optional)
inbastpkts	(Optional)
TABLE_rfc_transmission	(Optional)
out-req	(Optional)
out-no-route	(Optional)
out-forwdgrams	(Optional)

out-discards	(Optional)
out-frag-req	(Optional)
out-frag-oks	(Optional)
out-frag-fails	(Optional)
out-frag-create	(Optional)
out-transmits	(Optional)
byte-sent	(Optional)
out-mcast-pkts	(Optional)
out-mcast-bytes	(Optional)
out-bcast-pkts	(Optional)
out-bcast-bytes	(Optional)

Command Mode

- /exec

show ip udp relay

show ip udp relay [__readonly__ <udp_relay_service_enable> <udp_relay_hdr> [{ TABLE_default_ports <port_name> <udp_relay_port_enable> }] <udp_ports_hdr> [TABLE_ports <udp_port_num>] <udp_intf_hdr> [TABLE_intf <udp_intf_idx> <udp_sub_bcast> <udp_objgrp>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
__readonly__	(Optional) Read only
udp_relay_service_enable	(Optional)
udp_relay_hdr	(Optional)
TABLE_default_ports	(Optional)
port_name	(Optional) UDP Port Name
udp_relay_port_enable	(Optional)
udp_ports_hdr	(Optional)
TABLE_ports	(Optional)
udp_port_num	(Optional)
udp_intf_hdr	(Optional)
TABLE_intf	(Optional)
udp_intf_idx	(Optional) UDP relay interfaces
udp_sub_bcast	(Optional)
udp_objgrp	(Optional) Object-group

Command Mode

- /exec

show ip udp relay interface

show ip udp relay interface [<intf_range>] [__readonly__ <udp_intf_hdr> [TABLE_intf <udp_intf_idx> <udp_sub_bcast> <udp_objgrp>]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
interface	Interface ID
intf_range	(Optional) interface
__readonly__	(Optional) Read only
udp_intf_hdr	(Optional)
TABLE_intf	(Optional)
udp_intf_idx	(Optional) UDP relay interfaces
udp_sub_bcast	(Optional)
udp_objgrp	(Optional) Object-group

Command Mode

- /exec

show ip udp relay object-group

show ip udp relay object-group [<obj-grp-name>] [__readonly__ [TABLE_objgrp_list [<udp_objgrp>] [TABLE_objgrp [<host_addr>] [<net_addr> <net_mask>] [<prefix_addr> <prefix_len>]] <udp_intf_hdr> [TABLE_intf <udp_intf_idx>]]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
udp	Show items in UDP relay
relay	UDP relay
object-group	Object-group
obj-grp-name	(Optional) object-group name
__readonly__	(Optional) Read only
TABLE_objgrp_list	(Optional)
udp_objgrp	(Optional) Object-group
TABLE_objgrp	(Optional)
host_addr	(Optional) Host Address
net_addr	(Optional) Network Address
net_mask	(Optional) Network Mask
prefix_addr	(Optional) Network Address
prefix_len	(Optional) IP Prefix Length
udp_intf_hdr	(Optional)
TABLE_intf	(Optional)
udp_intf_idx	(Optional) UDP relay interfaces

Command Mode

- /exec

show ip verify source

show ip verify source [interface <intf6>] [__readonly__ <verify_ipsg_exclude_vlans> [<verify_hdr>] [<verify_intf_ipsg_val> | <verify_ipsg_enable_intfs>] [{ TABLE_verify_entry <verify_intf> <verify_intf_ipsg_val> [{ TABLE_verify_entry_intfs <verify_ipsg_enable_intfs> }] <verify_filter_mode> <verify_ip_addr> <verify_mac_addr> <verify_vlan> }]]

Syntax Description

show	Show running system information
ip	Show the IP features of the system
verify	Verify IPSG information
source	IPSG source
interface	(Optional) Interface
intf6	(Optional) interface
__readonly__	(Optional) Read only
verify_ipsg_exclude_vlans	(Optional)
verify_hdr	(Optional) IP source guard operational entries
verify_intf_ipsg_val	(Optional) IP source guard value (enabled or disable)
verify_ipsg_enable_intfs	(Optional) IP source guard enabled interfaces names
TABLE_verify_entry	(Optional)
verify_filter_mode	(Optional)
verify_intf	(Optional)
TABLE_verify_entry_intfs	(Optional)
verify_ip_addr	(Optional) verify ip address
verify_mac_addr	(Optional) verify mac address
verify_vlan	(Optional) vlan for interface

Command Mode

- /exec

show ipv6 adjacency

show ipv6 { adjacency | neighbor } [<interface> [summary] | <ipv6-addr> [detail] | detail | summary | non-best | [throttle] statistics] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [<invalid_pkt_cnt>] [<invalid_byte_cnt>] [<global_drop_pkt_cnt>] [<global_drop_byte_cnt>] [<global_punt_pkt_cnt>] [<global_punt_byte_cnt>] [<global_glean_pkt_cnt>] [<global_glean_byte_cnt>] [<glean_pkt_cnt>] [<glean_byte_cnt>] [<normal_pkt_cnt>] [<normal_byte_cnt>] [<last_updated>] [<count-static>] [<count-dynamic>] [<count-others>] [<count-throttle>] [<count-total>] [TABLE_vrf <vrf-name-out> [TABLE_afi <afi> <count> [TABLE_adj <intf-out> <ipv6-addr> [<phy-intf>] <time-stamp> <mac> <pref> <owner> [<pkt-count>] [<byte-count>] [<is-best>] [<is-thrtld>]]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
neighbor	Show IPv6 neighbor entry
interface	(Optional) Display specific interface adjacencies only
detail	(Optional) Show detail information of adjacency entries
summary	(Optional) Show adjacency summary
non-best	(Optional) Show both best/non-best entries
throttle	(Optional) Throttle
statistics	(Optional) Show adjacency statistics
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Show adjacency entries for all vrfs
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
vrf-name-out	(Optional) VRF name
invalid_pkt_cnt	(Optional) Invalid packet count
invalid_byte_cnt	(Optional) Invalid byte count
global_drop_pkt_cnt	(Optional) Global drop packet count
global_drop_byte_cnt	(Optional) Global drop byte count

global_punt_pkt_cnt	(Optional) Global punt packet count
global_punt_byte_cnt	(Optional) Global punt byte count
global_glean_pkt_cnt	(Optional) Global glean packet count
global_glean_byte_cnt	(Optional) Global glean byte count
glean_pkt_cnt	(Optional) Glean packet count
glean_byte_cnt	(Optional) Glean byte count
normal_pkt_cnt	(Optional) Packet count
normal_byte_cnt	(Optional) Byte count
last_updated	(Optional) Lat updated
count-static	(Optional) Static count
count-dynamic	(Optional) Dynamic count
count-others	(Optional) Others count
count-throttle	(Optional) Throttled count
count-total	(Optional) Total count
TABLE_afi	(Optional) AFI table
afi	(Optional) AFI
count	(Optional) Count
TABLE_adj	(Optional) Adjacency table for IPV6
intf-out	(Optional) Interface
phy-intf	(Optional) Physical interface
time-stamp	(Optional) Age
mac	(Optional) MAC address
pref	(Optional) Preference
owner	(Optional) Owner
pkt-count	(Optional) Packet count
byte-count	(Optional) Byte count
is-best	(Optional) Best
is-thrtld	(Optional) Throttled

Command Mode

- /exec

show ipv6 adjacency aggregate-prefix

show ipv6 adjacency aggregate-prefix [[vlan <vlan-id>] [summary] [vrf { <vrf-name> | <vrf-known-name> | all }]] [__readonly__ [TABLE_vlan <vlan-id> { <ipv6-agg-prefix-vlan-count> | <ipv6-agg-prefix> <ref-count> }] <ipv6-agg-prefix-total-count>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
aggregate-prefix	aggregate-prefix PT info
vlan	(Optional) Vlan id
vlan-id	(Optional) Vlan
summary	(Optional) Show aggregate-prefix summary
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
__readonly__	(Optional)
ipv6-agg-prefix-total-count	(Optional) ipv6 aggregate-prefix total count
TABLE_vlan	(Optional) TABLR vlan
vlan-id	(Optional) vlan id
ipv6-agg-prefix-vlan-count	(Optional) show ipv6 aggregate-prefix summary
ipv6-agg-prefix	(Optional) Ipv6 aggregate prefix
ref-count	(Optional) reference-hop count

Command Mode

- /exec

show ipv6 adjacency subnet-prefix

show ipv6 adjacency subnet-prefix [[vlan <vlan-id>] [summary] [vrf { <vrf-name> | <vrf-known-name> | all }]] [__readonly__ [TABLE_vlan <vlan-id> { <ipv6-subnet-prefix-vlan-count> | <ipv6-subnet-prefix> <agg-len> <nh-count> }] <ipv6-subnet-prefix-total-count>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
adjacency	Display adjacency table
subnet-prefix	subnet-prefix PT info
vlan	(Optional) Vlan id
vlan-id	(Optional) Vlan
summary	(Optional) Show subnet-prefix summary
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display ARP entries for all vrfs
__readonly__	(Optional)
ipv6-subnet-prefix-total-count	(Optional) ipv6 subnet-prefix total count
TABLE_vlan	(Optional) TABLR vlan
vlan-id	(Optional) vlan id
ipv6-subnet-prefix-vlan-count	(Optional) show ipv6 subnet-prefix summary
ipv6-subnet-prefix	(Optional) Ipv6 subnet prefix
agg-len	(Optional) aggregate-length
nh-count	(Optional) next-hop count

Command Mode

- /exec

show ipv6 amt tunnel

show ipv6 amt tunnel [<address6> <port>] [detail] [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ TABLE_vrf <vrf> <tc6> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route <source> <group> <rexp> } }]

Syntax Description

show	Show running system information
amt	AMT show commands
ipv6	Display IPv6 information
tunnel	Display tunnel information
vrf	(Optional) Display information for VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
port	(Optional) UDP port number of gateway
detail	(Optional) Display routes joined by tunnel endpoint
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf	(Optional)
tc6	(Optional)
TABLE_tunnel	(Optional)
gwa	(Optional)
gwp	(Optional)
ut	(Optional)
ld	(Optional)
lr	(Optional)
rc	(Optional)
exp	(Optional)
TABLE_route	(Optional)
source	(Optional)
group	(Optional)

rexp	(Optional)

Command Mode

- /exec

show ipv6 bgp

show ipv6 { bgp | mbgp } { route-map { <rmap-name> | <rmap-name> } | prefix-list { <prfxlist-name> | <test_pol_name> } | filter-list { <fltrlist-name> | <test_pol_name> } | community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommlist-name> | <test_pol_name> } [exact-match] }

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
route-map	Display routes matching the route-map
rmap-name	Route-map name
rmap-name	Known route-map name
prefix-list	Display routes matching the prefix-list
prfxlist-name	Name of prefix-list
filter-list	Display routes matching the filter-list
fltrlist-name	Name of filter-list
community-list	Display routes matching the community-list
commlist-name	Name of community-list
extcommunity-list	Display routes matching the extcommunity-list
extcommlist-name	Name of extcommunity-list
test_pol_name	An existing test-list policy
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ipv6 bgp

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [<ipv6-prefix> [longer-prefixes]] [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
longer-prefixes	(Optional) Display route and more specific routes

Command Mode

- /exec

show ipv6 bgp

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] { rib-install | rib-uninstall | rib-pending } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
ipv6	Display BGP information for IPv6 address family
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

Command Mode

- /exec

show ipv6 bgp community

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] community { <regexp-str> | { { <comm-id> | <wellknown-id> } + [exact-match] } } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
ipv6	Display BGP information for IPv6 address family
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
community	Display routes matching the BGP communities
regexp-str	Regular expression to match the communities
comm-id	BGP community value
wellknown-id	BGP wellknown community
exact-match	(Optional) Exact match of the communities

Command Mode

- /exec

show ipv6 bgp dampening

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] dampening { dampened-paths [regexp <regexp-str>] | history-paths [regexp <regexp-str>] | parameters | flap-statistics } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
dampening	Display dampening info
parameters	Display dampening parameters
dampened-paths	Display all dampened paths
history-paths	Display all history paths
flap-statistics	Display flap statistics for routes
ipv6	Display BGP information for IPv6 address family
regexp	(Optional) Display routes matching the AS path regular expression
regexp-str	(Optional) Regular expression to match the AS paths

Command Mode

- /exec

show ipv6 bgp extcommunity

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] extcommunity { <regexp-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } } + [exact-match] } } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
extcommunity	Display routes matching the BGP extcommunities
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
regexp-str	Regular expression to match the extcommunities
ext-comm-gen-trans	Extcommunity number aa4:nn format
ext-comm-gen-nontrans	Extcommunity number aa4:nn format
exact-match	(Optional) Exact match of the extcommunities

Command Mode

- /exec

show ipv6 bgp flap-statistics

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] flap-statistics [<ipv6-prefix>] [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
flap-statistics	Display route flap statistics
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 bgp neighbors

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] neighbors { [{ <neighbor-id> | <ipv6-neighbor-id> } [routes [advertised | received | dampened] | advertised-routes | paths | received-routes | flap-statistics]] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id> } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
neighbors	Display all configured BGP neighbors
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
neighbor-id	(Optional) Display one particular BGP neighbor
neighbor-prefix-id	Display details for a prefix peering
ipv6	Display BGP information for IPv6 address family
routes	(Optional) Display all routes advertised/received to/from peer
advertised	(Optional) Display all routes advertised to this peer
received	(Optional) Display all routes received from this peer
dampened	(Optional) Display all dampened routes received from this peer
advertised-routes	(Optional) Display all the routes advertised to this peer
received-routes	(Optional) Display all the routes received from this peer
flap-statistics	(Optional) Display flap statistics for routes received from this peer
paths	(Optional) Display AS paths learned from this peer

Command Mode

- /exec

show ipv6 bgp nexthop-database

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] nexthop-database [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
nexthop-database	Display nexthop database
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 bgp nexthop

show ipv6 { bgp | mbgp } nexthop <ipv6nexthop>

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
nexthop	Display routes matching the nexthop

Command Mode

- /exec

show ipv6 bgp received-paths

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] received-paths [private] [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
ipv6	Display BGP information for IPv6 address family
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
received-paths	Display paths stored for soft-reconfig
private	(Optional) private

Command Mode

- /exec

show ipv6 bgp regexp

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] regexp <regexp-str> [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
ipv6	Display BGP information for IPv6 address family
regexp	Display routes matching the AS path regular expression
regexp-str	Regular expression to match the AS paths

Command Mode

- /exec

show ipv6 bgp summary

show ipv6 { bgp | mbgp } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] summary [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }]

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
mbgp	Display MBGP status and configuration
vrf	(Optional) Virtual Router Context
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
summary	Display summarized information of BGP state
ipv6	Display BGP information for IPv6 address family

Command Mode

- /exec

show ipv6 client

show ipv6 client [<client-name>] [__readonly__ { TABLE_ipv6_client { <cli-name> <cli-stat> <cli-pid> <cli-ext-pid> [<protocol>] <pib-index> <cli-uuid> <rou-vrf> <rou-flg> <ctrl-sap> <data-sap> <ipc-ctrl-mq> <ipc-ctrl-fail> <ipc-data-mq> <ipc-data-fail> [<if-ext-ind>] [<recv-fn> <recv-hex>] } }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
client	Display clients registered with the IPv6 process
client-name	(Optional) Display information for a single IPv6 client
__readonly__	(Optional)
TABLE_ipv6_client	(Optional) IPV6 client table
cli-name	(Optional) client name
cli-stat	(Optional) client state
cli-pid	(Optional) client pid
cli-ext-pid	(Optional) client ext-pid
protocol	(Optional) ipv6 client protocol
pib-index	(Optional) client pib-index
cli-uuid	(Optional) client uuid
rou-vrf	(Optional) client route vrf
rou-flg	(Optional) client route flag
ctrl-sap	(Optional) client control sap
data-sap	(Optional) client data sap
ipc-ctrl-mq	(Optional) client ipc control meassage queue
ipc-ctrl-fail	(Optional) client ipc control fail
ipc-data-mq	(Optional) client ipc data message queue
ipc-data-fail	(Optional) client ipc data fail
if-ext-ind	(Optional) client if ext indes
recv-fn	(Optional) client receive fn name
recv-hex	(Optional) receive-hexadecimal address

Command Mode

- /exec

show ipv6 dhcp guard policy

show ipv6 dhcp guard policy [<pname>] [__readonly__ { TABLE_dhcp_guard_policy <name> <role> [<target>] [<max_pref>] [<min_pref>] [<match_src_list>] [<match_prefix_list>] }]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
pname	(Optional) Policy name for dhcp guard feature
__readonly__	(Optional)
TABLE_dhcp_guard_policy	(Optional) IPv6 DHCP guard policy
name	(Optional) Policy Name
role	(Optional) Role
target	(Optional) Target
max_pref	(Optional) Max preference
min_pref	(Optional) Min preference
match_src_list	(Optional) Source Address Match Access List
match_prefix_list	(Optional) Prefix List Match Prefix List

Command Mode

- /exec

show ipv6 dhcp relay

show ipv6 dhcp relay [interface <intf-range>] [__readonly__ [<relay_service_enable> [<gbl_src_intf>] <relay_vpn_enable> <relay_cisco_option_enable>] [TABLE_intf <interface-name> [<intf_src_intf>] <intf_header> [TABLE_addr <relay_address> <dst_intf> <vrf_name>]]]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show DHCPv6
relay	DHCPv6 relay address of the interface
interface	(Optional) DHCPv6 relay address of the interface
intf-range	(Optional) interface
__readonly__	(Optional) Read only
relay_service_enable	(Optional) is dhcpv6 relay service enabled
gbl_src_intf	(Optional) interface name
relay_vpn_enable	(Optional) is dhcpv6 relay insertion of vpn sub options enabled
relay_cisco_option_enable	(Optional) is dhcpv6 relay cisco option enabled
TABLE_intf	(Optional)
interface-name	(Optional) interface name
intf_src_intf	(Optional) interface name
intf_header	(Optional) interface header
TABLE_addr	(Optional)
dst_intf	(Optional) interface name
vrf_name	(Optional) VRF name

Command Mode

- /exec

show ipv6 dhcp relay statistics

show ipv6 dhcp relay statistics [interface <intf> [[server-ip <ip-addr-val> [use-vrf <vrf-name>] [interface <dest-interface>]] | [server-ip <ip-addr-val> [interface <dest-interface>] [use-vrf <vrf-name>]]]] [__readonly__ [<msg_stats_hdr> <msg_type_str> <rx_pkts> <tx_pkts> <drops> <msg_type_str_advertise> <rx_pkts_advertise> <tx_pkts_advertise> <drops_advertise> <msg_type_str_request> <rx_pkts_request> <tx_pkts_request> <drops_request> <msg_type_str_confirm> <rx_pkts_confirm> <tx_pkts_confirm> <drops_confirm> <msg_type_str_renew> <rx_pkts_renew> <tx_pkts_renew> <drops_renew> <msg_type_str_rebind> <rx_pkts_rebind> <tx_pkts_rebind> <drops_rebind> <msg_type_str_reply> <rx_pkts_reply> <tx_pkts_reply> <drops_reply> <msg_type_str_release> <rx_pkts_release> <tx_pkts_release> <drops_release> <msg_type_str_decline> <rx_pkts_decline> <tx_pkts_decline> <drops_decline> <msg_type_str_reconfigure> <rx_pkts_reconfigure> <tx_pkts_reconfigure> <drops_reconfigure> <msg_type_str_inforeq> <rx_pkts_inforeq> <tx_pkts_inforeq> <drops_inforeq> <msg_type_str_relay_fwd> <rx_pkts_relay_fwd> <tx_pkts_relay_fwd> <drops_relay_fwd> <msg_type_str_relay_reply> <rx_pkts_relay_reply> <tx_pkts_relay_reply> <drops_relay_reply> <msg_type_str_unknown> <rx_pkts_unknown> <tx_pkts_unknown> <drops_unknown> <msg_type_str_total> <rx_pkts_total> <tx_pkts_total> <drops_total>] [<server_stats_hdr> [TABLE_server <server_helper_addr> <server_vrf> <server_intf> <server_requests> <server_responses>]] [<drop_hdr> <drop_relay_disable> <drop_max_hops> <drop_validation_fails> <drop_unknown_op_intf> <drop_bad_context> <drop_opt_insert_fail> <drop_server_direct_reply> <drop_no_ipv6_addr> <drop_intf_error> <drop_vpn_disabled> <drop_ipv6_extn_hdrs_presence> <drop_mct_drop>]]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show information about DHCPv6
relay	DHCPv6 Relay
statistics	Statistics related to DHCPv6
interface	(Optional) input interface
intf	(Optional) interface
server-ip	(Optional) Server address
use-vrf	(Optional) server address VRF membership
vrf-name	(Optional) VRF name
interface	(Optional) Destination interface for the server address
dest-interface	(Optional) Destination interface
__readonly__	(Optional) Read only
msg_stats_hdr	(Optional) dhcpv6 message statistics header
msg_type_str	(Optional) dhcpv6 message type

rx_pkts	(Optional) dhcpv6 received packets
tx_pkts	(Optional) dhcpv6 forwarded packets
drops	(Optional) dhcpv6 packet drops
msg_type_str_advertise	(Optional)
rx_pkts_advertise	(Optional)
tx_pkts_advertise	(Optional)
drops_advertise	(Optional)
msg_type_str_request	(Optional)
rx_pkts_request	(Optional)
tx_pkts_request	(Optional)
drops_request	(Optional)
msg_type_str_confirm	(Optional)
rx_pkts_confirm	(Optional)
tx_pkts_confirm	(Optional)
drops_confirm	(Optional)
msg_type_str_renew	(Optional)
rx_pkts_renew	(Optional)
tx_pkts_renew	(Optional)
drops_renew	(Optional)
msg_type_str_rebind	(Optional)
rx_pkts_rebind	(Optional)
tx_pkts_rebind	(Optional)
drops_rebind	(Optional)
msg_type_str_reply	(Optional)
rx_pkts_reply	(Optional)
tx_pkts_reply	(Optional)
drops_reply	(Optional)
msg_type_str_release	(Optional)
rx_pkts_release	(Optional)

tx_pkts_release	(Optional)
drops_release	(Optional)
msg_type_str_decline	(Optional)
rx_pkts_decline	(Optional)
tx_pkts_decline	(Optional)
drops_decline	(Optional)
msg_type_str_reconfigure	(Optional)
rx_pkts_reconfigure	(Optional)
tx_pkts_reconfigure	(Optional)
drops_reconfigure	(Optional)
msg_type_str_inforeq	(Optional)
rx_pkts_inforeq	(Optional)
tx_pkts_inforeq	(Optional)
drops_inforeq	(Optional)
msg_type_str_relay_fwd	(Optional)
rx_pkts_relay_fwd	(Optional)
tx_pkts_relay_fwd	(Optional)
drops_relay_fwd	(Optional)
msg_type_str_relay_reply	(Optional)
rx_pkts_relay_reply	(Optional)
tx_pkts_relay_reply	(Optional)
drops_relay_reply	(Optional)
msg_type_str_unknown	(Optional)
rx_pkts_unknown	(Optional)
tx_pkts_unknown	(Optional)
drops_unknown	(Optional)
msg_type_str_total	(Optional) total of all dhcpv6 message types
rx_pkts_total	(Optional)
tx_pkts_total	(Optional)

drops_total	(Optional)
server_stats_hdr	(Optional) per-server statistics header
TABLE_server	(Optional)
server_vrf	(Optional) dhcpv6 server vrf
server_intf	(Optional) interface name
server_requests	(Optional)
server_responses	(Optional)
drop_hdr	(Optional)
drop_relay_disable	(Optional)
drop_max_hops	(Optional)
drop_validation_fails	(Optional)
drop_unknown_op_intf	(Optional)
drop_bad_context	(Optional)
drop_opt_insert_fail	(Optional)
drop_server_direct_reply	(Optional)
drop_no_ipv6_addr	(Optional)
drop_intf_error	(Optional)
drop_vpn_disabled	(Optional)
drop_ipv6_extn_hdrs_presence	(Optional)
drop_mct_drop	(Optional) drops through mct

Command Mode

- /exec

show ipv6 eigrp route-map statistics

show ipv6 eigrp [<eigrp-ptag>] route-map statistics { { redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt } } | table-map } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_asn <asn> TABLE_vrf <vrf> { TABLE_rmap <name> <action> <seq_num> [{ TABLE_cmd <command> [<compare_count>] <match_count> }] } <total_accept_count> <total_reject_count>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
eigrp	Display EIGRP status and configuration
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
eigrp-ptag	(Optional) Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
table-map	Tablemap information
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv4
ospfv3	Open Shortest Path First (OSPF) V3
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
tag	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
__readonly__	(Optional)

TABLE_asn	(Optional) AS number table
asn	(Optional) AS number
TABLE_vrf	(Optional) VRF table
vrf	(Optional) VRF name
TABLE_rmap	(Optional) Route-map table
name	(Optional) Route-map name
action	(Optional) Route-map action
seq_num	(Optional) Sequence number of the clause
TABLE_cmd	(Optional) Route-map command table
command	(Optional) Route-map command
compare_count	(Optional) Number of comparisons
match_count	(Optional) Number of matches
total_accept_count	(Optional) Total number of packets accepted by this policy
total_reject_count	(Optional) Total number of packets rejected by this policy

Command Mode

- /exec

show ipv6 fragments

show ipv6 fragments [<source-addr>] [__readonly__ [TABLE_ipv6_frag [TABLE_ipv6_each_q { <ipv6-src> <ipv6-dest> <frag-id> <frag-off> <m-flag> <nxt-header> <pay-load> <expires> }]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
fragments	Display queued fragments
__readonly__	(Optional)
TABLE_ipv6_frag	(Optional) IPV6 fragment table
TABLE_ipv6_each_q	(Optional) IPV6 each fragment queue table
frag-id	(Optional) fragment id
frag-off	(Optional) fragment offset
m-flag	(Optional) m flag
nxt-header	(Optional) next header
pay-load	(Optional) fargment payload
expires	(Optional) expiry time

Command Mode

- /exec

show ipv6 icmp

show ipv6 icmp { adjacency | neighbor | sync-entries } [<interface>] [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { <icmpv6-vrftype> <icmpv6-cxt-name> } [TABLE_icmpv6_all_int { TABLE_icmpv6_one_int { <icmpv6-ipv6-addr> <time-stamp-icmpv6> <icmpv6-mac> <icmpv6-state> <icmpv6-short-name> [<phy-int-short-name>] } }]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
adjacency	Show IPv6 dynamic learnt adjacency entry
neighbor	Show IPv6 dynamic learnt neighbor entry
sync-entries	Show IPv6 table learnt only due to table sync
interface	(Optional) Interface name to display
detail	(Optional) Display detailed information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
icmpv6-vrftype	(Optional)
icmpv6-cxt-name	(Optional)
TABLE_icmpv6_all_int	(Optional)
TABLE_icmpv6_one_int	(Optional)
time-stamp-icmpv6	(Optional)
icmpv6-mac	(Optional)
icmpv6-state	(Optional)
icmpv6-short-name	(Optional)
phy-int-short-name	(Optional)

Command Mode

- /exec

show ipv6 icmp global traffic

show ipv6 { icmp | nd } global traffic [__readonly__ [{ TABLE_icmpv6_global_stat [<st-total>] [<rv-total>] [<st-err>] [<rv-err>] [<st-int-drp-cnt>] [<rv-int-drp-cnt>] [<st-adj-nt-recov-am-ha>] [<rv-adj-nt-recov-am-ha>] [<st-pkt-allow-inv-ttl-vpc>] [<rv-pkt-allow-inv-ttl-vpc>] [<st-drp-src-mac-own>] [<rv-drp-src-mac-own>] [<st-drp-tgt-ip-not-own>] [<rv-drp-tgt-ip-not-own>] [<st-drp-src-ip-not-own>] [<rv-drp-src-ip-not-own>] [<st-dest-unreach>] [<rv-dest-unreach>] [<st-admin-prohibit>] [<rv-admin-prohibit>] [<st-time-exceed>] [<rv-time-exceed>] [<st-para-pbms>] [<rv-para-pbms>] [<st-echo-req>] [<rv-echo-req>] [<st-echo-reply>] [<rv-echo-reply>] [<st-redirect>] [<rv-redirect>] [<st-pkt-too-big>] [<rv-pkt-too-big>] [<st-rtr-adver>] [<rv-rtr-adver>] [<st-rtr-solicit>] [<rv-rtr-solicit>] [<st-nei-adver>] [<rv-nei-adver>] [<st-nei-solicit>] [<rv-nei-solicit>] [<fast-path-pkts>] [<fastpath-disable>] [<ign-fastpath-pkts>] [<dup-rtr-ra-recvd>] [<rv-dup-rtr-ra-recvd>] }] [{ TABLE_icmpv6_mld_stat <st-v1-queries> <rv-v1-queries> <st-v2-queries> <rv-v2-queries> <st-v1-reports> <rv-v1-reports> <st-v2-reports> <rv-v2-reports> <st-v1-leaves> <rv-v1-leaves> }]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
global	Show ICMPv6/ND global variables
traffic	Display ICMPv6 software processed traffic statistics
__readonly__	(Optional)
TABLE_icmpv6_global_stat	(Optional) ICMPV6 global statistics
st-total	(Optional) total sent messages
rv-total	(Optional) total receive messages
st-err	(Optional) total sent error message
rv-err	(Optional) total receive error message
st-int-drp-cnt	(Optional) sent interface down drop count
rv-int-drp-cnt	(Optional) receive interface down drop count
st-adj-nt-recov-am-ha	(Optional) sent Adjacency not recovered from AM aft HA
rv-adj-nt-recov-am-ha	(Optional) receive Adjacency not recovered from AM aft HA
st-pkt-allow-inv-ttl-vpc	(Optional) sent Pkts allowed due to inv ttl on vPC-MCT
rv-pkt-allow-inv-ttl-vpc	(Optional) receive Pkts allowed due to inv ttl on vPC-MCT
st-drp-src-mac-own	(Optional) sent packet drop source mac address own

rv-drp-src-mac-own	(Optional) receive packet drop source mac address own
st-drp-tgt-ip-not-own	(Optional) sent drop tgt ip address not own
rv-drp-tgt-ip-not-own	(Optional) receive drop tgt ip address not own
st-drp-src-ip-not-own	(Optional) sent dropped source ip address
rv-drp-src-ip-not-own	(Optional) receive dropped source ip address
st-dest-unreach	(Optional) sent destination unreached
rv-dest-unreach	(Optional) receive destination unreach
st-admin-prohibit	(Optional) sent Administratively Prohibited
rv-admin-prohibit	(Optional) receive Administratively Prohibited
st-time-exceed	(Optional) sent time exceeded
rv-time-exceed	(Optional) receive time exceeded
st-para-pbms	(Optional) sent parameter problems
rv-para-pbms	(Optional) receive parameter problems
st-echo-req	(Optional) sent echo request
rv-echo-req	(Optional) receive echo request
st-echo-reply	(Optional) sent echo replies
rv-echo-reply	(Optional) receive echo replies
st-redirect	(Optional) sent redirects
rv-redirect	(Optional) receive redirects
st-pkt-too-big	(Optional) sent packet too big
rv-pkt-too-big	(Optional) receive packet too big
st-rtr-adver	(Optional) sent router advertisements
rv-rtr-adver	(Optional) receive router advertisements
st-rtr-solicit	(Optional) sent router solicitations
rv-rtr-solicit	(Optional) receive router solicitations
st-nei-adver	(Optional) sent neighbor advertisements
rv-nei-adver	(Optional) receive neighbor advertisements
st-nei-solicit	(Optional) sent neighbor solicitations
rv-nei-solicit	(Optional) receive neighbor solicitations

fast-path-pkts	(Optional) fastpath packets
fastpath-disable	(Optional) [fastpath diasbled / others]
ign-fastpath-pkts	(Optional) Packets drop request ignore count
dup-rtr-ra-recvd	(Optional) Duplicate router RA sent
rv-dup-rtr-ra-recvd	(Optional) Duplicate router RA received
TABLE_icmpv6_mld_stat	(Optional) ICMPv6 MLD Statistics
st-v1-queries	(Optional) V1 Queries sent
rv-v1-queries	(Optional) V1 Queries recieved
st-v2-queries	(Optional) V2 Queries sent
rv-v2-queries	(Optional) V2 Queries received
st-v1-reports	(Optional) V1 Reports sent
rv-v1-reports	(Optional) V1 Reports received
st-v2-reports	(Optional) V2 Reports sent
rv-v2-reports	(Optional) V2 Reports received
st-v1-leaves	(Optional) V1 Leaves sent
rv-v1-leaves	(Optional) V1 Leaves received

Command Mode

- /exec

show ipv6 icmp interface

{ show ipv6 { icmp | nd } interface [<interface>] { [prefix [full]] | [route] | [detail] } [vrf { <vrf-name> | <vrf-known-name> | all }] } | { show ipv6 [icmp] mld interface [brief] [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] } | { show ipv6 [icmp] mld interface <interface> } [__readonly__ TABLE_vrf <vrf-name-out> TABLE_intf <intf-name> <proto-state> <link-state> <admin-state> [TABLE_addr <addr>] <subnet> <link-local-addr> <icmpv6-disabled> <last-ns-sent> <last-na-sent> <last-ra-sent> <next-na-sent> <ra-min-interval> <ra-interval> <set-m-flag> <set-o-flag> <current-hop-limit> <mtu> <router-lifetime> <reachable-time> <retrans-timer> <ns-interval> <send-redirect> <send-unreachables> <mld-disabled> <mld-querier> <mld-entry-count> <mld-config-version> <mld-querier-version> <mld-host-version> <mld-query-timer> <mld-querier-expiry> <mld-qi> <mld-config-qi> <mld-query-mrt> <mld-config-query-mrt> <mld-startup-qi> <mld-config-startup-qi> <mld-startup-qc> <mld-config-last-member-mrt> <mld-last-member-qc> <mld-group-timeout> <mld-config-group-timeout> <mld-querier-timeout> <mld-config-querier-timeout> <mld-config-unsol-rpt-interval> <mld-qrv> <mld-config-robustness-variable> <mld-config-rpt-link-local> <mld-refcount> <static-group-map> <join-group-map> <ra-sent> <ra-rec> <rs-sent> <rs-rec> <na-sent> <na-rec> <ns-sent> <ns-rec> <redirect-sent> <redirect-rec> <msg-sent> <msg-rec> <errors-sent> <erros-rec> <ifdown-sent> <ifdown-rec> <am-ha-not-ready> <allow-mct-ttl> <our-own-mac> <tgt-not-us> <dest-unreachs-sent> <dest-unreachs-rec> <admin-prohibs-sent> <admin-prohibs-rec> <time-excds-sent> <time-excds-rec> <parm-problems-sent> <parm-problems-rec> <echos-sent> <echos-rec> <echo-replies-sent> <echo-replies-rec> <pkt-toobigs-sent> <pkt-toobigs-rec> <fastpath-pkt-recv> <fastpath-disable-pkt-recv> <fastpath-ignore-pkt-recv> <v1-queries-sent> <v1-queries-rec> <v2-queries-sent> <v2-queries-rec> <v1-reports-sent> <v1-reports-rec> <v2-reports-sent> <v2-reports-rec> <v1-leaves-sent> <v1-leaves-rec> <v2-leaves-sent> <v2-leaves-rec> <uptime> <mld-config-il> [TABLE_one_int <grp-id> <protocol-one-int> <client-uuid> <client-state-act> <client-in-use> TABLE_vip_list <virt-ipv6> <virt-mac> <context_name> <context_id> <last-solocit-st> <last-nei-ad-st> <last-rtr-adv-st> <nxt-rtr-ad-st>] <max-dad-attempts> <current-dad-attempts> [TABLE_route <route> <preference> <lifetime> <info-option> <reachability-verify-enabled> <adv-route-info> <route-zero-lifetime>] [TABLE_prefix <prefix> <enabled> <vlaidlife-time> <preferredlife-time> <on-link> <off-link> <autonomous>]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
nd	ICMPv6 Neighbor Discovery commands
mld	Display Multicast Listener Discovery information
interface	Display ICMPv6 related interface information
prefix	(Optional) Display List of ICMPv6 RA prefix

route	(Optional) Display List of ICMPv6 RA routes
full	(Optional) Display Complete prefix information
detail	(Optional) Display ICMPv6 related interface information in detail
brief	(Optional) Display ICMPv6 related interface information in brief
interface	(Optional) Interface name to show
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_intf	(Optional)
intf-name	(Optional)
proto-state	(Optional)
link-state	(Optional)
admin-state	(Optional)
TABLE_addr	(Optional)
icmpv6-disabled	(Optional)
last-ns-sent	(Optional)
last-na-sent	(Optional)
last-ra-sent	(Optional)
next-na-sent	(Optional)
ra-min-interval	(Optional)
ra-interval	(Optional)
set-m-flag	(Optional)
set-o-flag	(Optional)
current-hop-limit	(Optional)
mtu	(Optional)
router-lifetime	(Optional)
reachable-time	(Optional)
retrans-timer	(Optional)
ns-interval	(Optional)

send-redirect	(Optional)
send-unreachables	(Optional)
mld-disabled	(Optional)
mld-entry-count	(Optional)
mld-config-version	(Optional)
mld-querier-version	(Optional)
mld-host-version	(Optional)
mld-query-timer	(Optional)
mld-querier-expiry	(Optional)
mld-qi	(Optional)
mld-config-qi	(Optional)
mld-query-mrt	(Optional)
mld-config-query-mrt	(Optional)
mld-startup-qi	(Optional)
mld-config-startup-qi	(Optional)
mld-startup-qc	(Optional)
mld-config-last-member-mrt	(Optional)
mld-last-member-qc	(Optional)
mld-group-timeout	(Optional)
mld-config-group-timeout	(Optional)
mld-querier-timeout	(Optional)
mld-config-querier-timeout	(Optional)
mld-config-unsol-rpt-interval	(Optional)
mld-qrv	(Optional)
mld-config-robustness-variable	(Optional)
mld-config-rpt-link-local	(Optional)
mld-refcount	(Optional)
static-group-map	(Optional)
join-group-map	(Optional)

ra-sent	(Optional)
ra-rec	(Optional)
rs-sent	(Optional)
rs-rec	(Optional)
na-sent	(Optional)
na-rec	(Optional)
ns-sent	(Optional)
ns-rec	(Optional)
redirect-sent	(Optional)
redirect-rec	(Optional)
msg-sent	(Optional)
msg-rec	(Optional)
errors-sent	(Optional)
erros-rec	(Optional)
ifdown-sent	(Optional)
ifdown-rec	(Optional)
am-ha-not-ready	(Optional)
allow-mct-ttl	(Optional)
our-own-mac	(Optional)
tgt-not-us	(Optional)
dest-unreachs-sent	(Optional)
dest-unreachs-rec	(Optional)
admin-prohibs-sent	(Optional)
admin-prohibs-rec	(Optional)
time-excds-sent	(Optional)
time-excds-rec	(Optional)
parm-problems-sent	(Optional)
parm-problems-rec	(Optional)
echos-sent	(Optional)

echos-rec	(Optional)
echo-replies-sent	(Optional)
echo-replies-rec	(Optional)
pkt-toobigs-sent	(Optional)
pkt-toobigs-rec	(Optional)
fastpath-pkt-recv	(Optional)
fastpath-disable-pkt-recv	(Optional)
fastpath-ignore-pkt-recv	(Optional)
v1-queries-sent	(Optional)
v1-queries-rec	(Optional)
v2-queries-sent	(Optional)
v2-queries-rec	(Optional)
v1-reports-sent	(Optional)
v1-reports-rec	(Optional)
v2-reports-sent	(Optional)
v2-reports-rec	(Optional)
v1-leaves-sent	(Optional)
v1-leaves-rec	(Optional)
v2-leaves-sent	(Optional)
v2-leaves-rec	(Optional)
uptime	(Optional)
mld-config-il	(Optional)
TABLE_one_int	(Optional)
grp-id	(Optional)
protocol-one-int	(Optional)
client-uuid	(Optional)
client-state-act	(Optional)
client-in-use	(Optional)
TABLE_vip_list	(Optional)

virt-mac	(Optional)
context_name	(Optional)
context_id	(Optional)
last-solocit-st	(Optional)
last-nei-ad-st	(Optional)
last-rtr-adv-st	(Optional)
nxt-rtr-ad-st	(Optional)
max-dad-attempts	(Optional)
current-dad-attempts	(Optional)
TABLE_route	(Optional)
preference	(Optional)
lifetime	(Optional)
info-option	(Optional)
reachability-verify-enabled	(Optional)
adv-route-info	(Optional)
route-zero-lifetime	(Optional)
TABLE_prefix	(Optional)
enabled	(Optional)
vlaidlife-time	(Optional)
preferredlife-time	(Optional)
on-link	(Optional)
off-link	(Optional)
autonomous	(Optional)

Command Mode

- /exec

show ipv6 icmp l2 statistics

show ipv6 { icmp | nd } l2 statistics [interface <interface>] [__readonly__ [TABLE_intf { <intf_name> <l2_stats> }]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
interface	(Optional) Interface for which l2 stats to be shown
l2	Display ND info for layer-2 interface
statistics	Display ND statistics for layer 2 interface
interface	(Optional) interface
__readonly__	(Optional)
TABLE_intf	(Optional) Layer 2 Interface name
intf_name	(Optional) Interface name
l2_stats	(Optional) layer 2 ND stats on given interface

Command Mode

- /exec

show ipv6 icmp nd local-proxy stats

show ipv6 icmp nd local-proxy stats { <vlan-interface> [<interface>] } [__readonly__ [TABLE_vlan { <vlan-name> [TABLE_intf { <intf-name> <current-count> [TABLE_hourly_stats { <hrs> <hrs-str> <stats> }] }] }]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
nd	ICMPv6 Neighbor Discovery commands
local-proxy	show nd local proxy stats
stats	statistics
vlan-interface	vlan interface
interface	(Optional) interface
__readonly__	(Optional)
TABLE_vlan	(Optional)
vlan-name	(Optional)
TABLE_intf	(Optional)
intf-name	(Optional)
current-count	(Optional)
TABLE_hourly_stats	(Optional)
hrs	(Optional)
hrs-str	(Optional)
stats	(Optional)

Command Mode

- /exec

show ipv6 icmp off-list

show ipv6 icmp off-list [vlan <vlan-id>] [__readonly__ [<vlan-adj-cnt>] [<icmpv6-sync-adj-cnt>] { TABLE_icmpv6_vlan_list <adj-vlan-id> <off-adj-ip-addr> <icmpv6-time-stamp> <icmpv6-mac-addr> <off-adj-flags> }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
off-list	Show adjacencies in off-list icmpv6 database
vlan	(Optional) Vlan id
vlan-id	(Optional) Show information for specified vlan
__readonly__	(Optional)
vlan-adj-cnt	(Optional) vlan adjacency count
icmpv6-sync-adj-cnt	(Optional) icmpv6 sync adjacency count
TABLE_icmpv6_vlan_list	(Optional) icmpv6 vlan list table
adj-vlan-id	(Optional) adjacency vlan id
icmpv6-time-stamp	(Optional) icmpv6 time stamp
icmpv6-mac-addr	(Optional) icmpv6 mac address
off-adj-flags	(Optional) offlist adjacency flags

Command Mode

- /exec

show ipv6 icmp vaddr

show ipv6 icmp vaddr { link-local [detail] | global | pt-tree } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_pt_tree { <v-ipv6-addr> <v-mac-addr> <v-interface> <v-client-state> }] [TABLE_vrf_all [TABLE_glo_vrf { <group-id> <protocol-vrf> <cli-uuid> <vaddr-action> <vrf-interface> <v-ipv6-addr-one> <vaddr-mac> <cxt-name> <cxt-id> }] [TABLE_one_int [<lcache-inter> <cxt-name-int> <cxt_id-int>] TABLE_one_group { <grp-id> <protocol-one-int> <client-uuid> <client-state-act> <client-in-use> <client-state> TABLE_vip_list { <virt-ipv6> <virt-mac> <cxt_name> <cxt_id> [<last-solocit-st> <last-nei-ad-st> <last-rtr-adv-st> <nxt-rtr-ad-st> <icmpv6-addr> <vmac-addr> <st-total> <rv-total> <st-err> <rv-err> <st-int-dwn-drp> <rv-int-dwn-drp> <st-adj-nt-recov-am> <rv-adj-nt-recov-am> <st-pkt-allow-inv-ttl> <rv-pkt-allow-inv-ttl> <st-pkt-drp-src-mac-own> <rv-pkt-drp-src-mac-own> <st-pkt-drp-tgt-not-own> <rv-pkt-drp-tgt-not-own> <st-pkt-drp-src-not-own> <rv-pkt-drp-src-not-own> <st-dest-unreach> <rv-dest-unreach> <st-admin-prohi> <rv-admin-prohi> <st-time-exceed> <rv-time-exceed> <st-patr-pbm> <rv-patr-pbm> <st-echo-req> <rv-echo-req> <st-echo-reply> <rv-echo-reply> <st-dup-ra> <rv-dup-ra> <st-redirect> <rv-redirect> <st-pkt-too-big> <rv-pkt-too-big> <st-rtr-adver> <rv-rtr-adver> <st-rtr-solicit> <rv-rtr-solicit> <st-nei-adver> <rv-nei-adver> <st-nei-solicit> <rv-nei-solicit>] } }]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vaddr	Show all virtual addresses configured
link-local	Display link-local virtual ipv6 addresses
detail	(Optional) Display detailed information
global	Display global virtual ipv6 addresses
pt-tree	Display link-local virtual ipv6 addresses pt-tree information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pt_tree	(Optional)
v-mac-addr	(Optional)
v-interface	(Optional)
v-client-state	(Optional)
TABLE_vrf_all	(Optional)

TABLE_glo_vrf	(Optional)
group-id	(Optional)
protocol-vrf	(Optional)
cli-uuid	(Optional)
vaddr-action	(Optional)
vrf-interface	(Optional)
vaddr-mac	(Optional)
cxt-name	(Optional)
cxt-id	(Optional)
TABLE_one_int	(Optional)
lcache-inter	(Optional)
cxt-name-int	(Optional)
cxt_id-int	(Optional)
grp-id	(Optional)
protocol-one-int	(Optional)
client-uuid	(Optional)
client-state-act	(Optional)
client-in-use	(Optional)
client-state	(Optional)
TABLE_one_group	(Optional)
TABLE_vip_list	(Optional)
virt-mac	(Optional)
cxt_name	(Optional)
cxt_id	(Optional)
last-solocit-st	(Optional)
last-nei-ad-st	(Optional)
last-rtr-adv-st	(Optional)
nxt-rtr-ad-st	(Optional)
vmac-addr	(Optional)

st-total	(Optional)
rv-total	(Optional)
st-err	(Optional)
rv-err	(Optional)
st-int-dwn-drp	(Optional)
rv-int-dwn-drp	(Optional)
st-adj-nt-recov-am	(Optional)
rv-adj-nt-recov-am	(Optional)
st-pkt-allow-inv-ttl	(Optional)
rv-pkt-allow-inv-ttl	(Optional)
st-pkt-drp-src-mac-own	(Optional)
rv-pkt-drp-src-mac-own	(Optional)
st-pkt-drp-tgt-not-own	(Optional)
rv-pkt-drp-tgt-not-own	(Optional)
st-pkt-drp-src-not-own	(Optional)
rv-pkt-drp-src-not-own	(Optional)
st-dest-unreach	(Optional)
rv-dest-unreach	(Optional)
st-admin-prohi	(Optional)
rv-admin-prohi	(Optional)
st-time-exceed	(Optional)
rv-time-exceed	(Optional)
st-patr-pbm	(Optional)
rv-patr-pbm	(Optional)
st-echo-req	(Optional)
rv-echo-req	(Optional)
st-echo-reply	(Optional)
rv-echo-reply	(Optional)
st-dup-ra	(Optional)

rv-dup-ra	(Optional)
st-redirect	(Optional)
rv-redirect	(Optional)
st-pkt-too-big	(Optional)
rv-pkt-too-big	(Optional)
st-rtr-adver	(Optional)
rv-rtr-adver	(Optional)
st-rtr-solicit	(Optional)
rv-rtr-solicit	(Optional)
st-nei-adver	(Optional)
rv-nei-adver	(Optional)
st-nei-solicit	(Optional)
rv-nei-solicit	(Optional)

Command Mode

- /exec

show ipv6 icmp vpc-statistics

show ipv6 icmp vpc-statistics [__readonly__ [{ TABLE_icmpv6_vpc_stats [<icmpv6-pro-drp-pull-disable>] [<icmpv6-pro-drp-push-msg-disable>] [<icmpv6-pro-ign-snd-pull-disabe>] [<icmpv6-ign-snd-push-disable>] [<icmpv6-drp-im-fail>] [<icmpv6-drp-mcecm-fail>] [<icmpv6-drp-invalid-pc-iod>] [<icmpv6-drp-pt-lookup-fail>] [<icmpv6-drp-resp-fail-no-mct>] [<icmpv6-drp-resp-fail>] [<icmpv6-vpc-id-ifindx-sending-pushmsg>] [<icmpv6-vpc-id-proc-cfs-payload>] [<icmpv6-resp-sent>] [<icmpv6-resp-recvd>] [<icmpv6-resp-recv-err>] [<icmpv6-rcvd-msg>] [<icmpv6-send-fail>] [<icmpv6-cfs-rel-dlvry-fail>] [<icmpv6-cfs-rel-dnvry-suc>] [<icmpv6-drp-pt-add-fail>] [<icmpv6-drp-no-mem>] [<icmpv6-drp-tmr-cre-fail>] [<icmpv6-drp-add-adj-fail>] [<icmpv6-off-drp-pt-lookup-fail>] [<icmpv6-dont-drp-vlan-mismat>] [<icmpv6-drp-svi-invalid>] [<icmpv6-dont-drop-sv-down>] [<icmpv6-drp-mct-down>] [<icmpv6-drp-ctxt-invalid>] [<icmpv6-drp-vrf-invalid>] [<icmpv6-drp-l3addr-invalid>] [<icmpv6-drp-l3addr-sanity-fail>] [<icmpv6-drp-mac-sanity-fail>] [<icmpv6-own-rtr-mac>] [<icmpv6-drp-own-ipv6addr>] [<icmpv6-drp-own-vipv6add>] [<icmpv6-drp-adj-fail>] [<icmpv6-drp-subnet-mismatch>] [<icmpv6-drp-adj-exist>] [<icmpv6-dont-drp-ip-not-enable>] [<icmpv6-drp-total-cnt>] [<icmpv6-dont-drop-total-cnt>] [<icmpv6-add-adj>] [<icmpv6-del-adj>] [<icmpv6-adj-already-exist>] [<icmpv6-vpc-id-periodic-sync>] [<icmpv6-vpc-id-cfs-payload-periodic-sync>] }]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	Display ICMPv6 information
vpc-statistics	Show vPC global statistics
__readonly__	(Optional)
TABLE_icmpv6_vpc_stats	(Optional) icmpv6 Vpc statistics
icmpv6-pro-drp-pull-disable	(Optional) icmpv6 protocol drop pull disable
icmpv6-pro-drp-push-msg-disable	(Optional) icmpv6 protocol drop push message disable
icmpv6-pro-ign-snd-pull-disabe	(Optional) icmpv6 protocol ignore send pull disable
icmpv6-ign-snd-push-disable	(Optional) icmpv6 ignore send push disable
icmpv6-drp-im-fail	(Optional) icmpv6 drop im fail
icmpv6-drp-mcecm-fail	(Optional) MCECM api failed while processing CFS payload
icmpv6-drp-invalid-pc-iod	(Optional) Invalid MCT port-channel iod while processing CFS payload
icmpv6-drp-pt-lookup-fail	(Optional) PT lookup failed while processing CFS payload
icmpv6-drp-resp-fail-no-mct	(Optional) invalid MCT iod while processing CFS payload
icmpv6-drp-resp-fail	(Optional) response failed while processing CFS payload
icmpv6-vpc-id-ifindx-sending-pushmsg	(Optional) Unable to retrive VPC id ifindex while sending push message

icmpv6-vpc-id-proc-cfs-payload	(Optional) Unable to retrive ifindex from vpc id
icmpv6-vpc-id-periodic-sync	(Optional) unable to retrive vpc id ifindex for periodic sync
icmpv6-vpc-id-cfs-payload-periodic-sync	(Optional) unable to retrive ifindex from vpc id while processing cfs payload for periodic sync
icmpv6-resp-sent	(Optional) Response sent via CFSoE
icmpv6-resp-recvd	(Optional) Response received via CFSoE
icmpv6-resp-recv-err	(Optional) Response received via CFSoE with errors
icmpv6-rcvd-msg	(Optional) Received message via CFSoE
icmpv6-send-fail	(Optional) Send message failed via CFSoE
icmpv6-cfs-rel-dlvry-fail	(Optional) MCECM send api failed via CFSoE
icmpv6-cfs-rel-dnvry-suc	(Optional) Send message succeeded via CFSoE
icmpv6-drp-pt-add-fail	(Optional) PT add failed while processing offlist database
icmpv6-drp-no-mem	(Optional) Memory alloc failed while processing offlist database
icmpv6-drp-tmr-cre-fail	(Optional) Timer create failed while processing offlist database
icmpv6-drp-add-adj-fail	(Optional) Adjacency addition failed while processing offlist database
icmpv6-off-drp-pt-lookup-fail	(Optional) PT lookup failed while processing offlist database
icmpv6-dont-drp-vlan-mismat	(Optional) VLAN mismatch while processing offlist database
icmpv6-drp-svi-invalid	(Optional) SVI is invalid while processing offlist database
icmpv6-dont-drop-sv-down	(Optional) SVI is down while processing offlist database
icmpv6-drp-mct-down	(Optional) MCT is down while processing offlist database
icmpv6-drp-ctxt-invalid	(Optional) Ctxt_type is invalid while processing offlist database
icmpv6-drp-vrf-invalid	(Optional) VRF is invalid while processing offlist database
icmpv6-drp-l3addr-invalid	(Optional) IP address is invalid while processing offlist database
icmpv6-drp-l3addr-sanity-fail	(Optional) IP address sanity failed while processing offlist database
icmpv6-drp-mac-sanity-fail	(Optional) MAC address sanity failed while processing offlist database
icmpv6-own-rtr-mac	(Optional) Our own router mac while processing offlist database
icmpv6-drp-own-ipv6addr	(Optional) Our own ip address while processing offlist database
icmpv6-drp-own-vipv6add	(Optional) Our own virtual ip address while processing offlist database
icmpv6-drp-adj-fail	(Optional) Create adjacency failed while processing offlist database

icmpv6-drp-subnet-mismatch	(Optional) Subnet mismatch while processing offlist database
icmpv6-drp-adj-exist	(Optional) Entry exists while processing offlist database
icmpv6-dont-drp-ip-not-enable	(Optional) IPv6 not enabled on interface while processing offlist database
icmpv6-drp-total-cnt	(Optional) Total drop count while processing offlist database
icmpv6-dont-drop-total-cnt	(Optional) Total don't drop count while processing offlist database
icmpv6-add-adj	(Optional) Total adjacency additions in offlist database
icmpv6-del-adj	(Optional) Total adjacency deletions in offlist database
icmpv6-adj-already-exist	(Optional) Total adjacencies ignored as they already exists in offlist database

Command Mode

- /exec

show ipv6 interface

show ipv6 interface { [brief [include-secondary] | [<interface> | <ipv6-addr>] [detail]] } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_intf <vrf-name-out> <intf-name> [<proto-state>] [<link-state>] [<admin-state>] [<iod>] [TABLE_addr <addr>] [<prefix>] [{ TABLE_sec_addr [<sec-prefix>] }] [<linklocal-addr>] [<linklocal-configured>] [{ TABLE_vaddr [<v-addr>] }] [<ipv6-disabled>] [<mrouting-enabled>] [<mgroup-locally-joined>] [{ TABLE_maddr <m-addr> [<m-addr-refcnt>] }] [{ TABLE_sg [<sg-saddr>] [<sg-maddr>] [<sg-refcnt>] }] [<mtu>] [<global-in-pcl-configured>] [<global-in-pcl-name>] [<global-in-pcl-pending>] [<global-out-pcl-configured>] [<global-out-pcl-name>] [<global-out-pcl-pending>] [<in-pcl-configured>] [<in-pcl-name>] [<in-pcl-pending>] [<out-pcl-configured>] [<out-pcl-name>] [<out-pcl-pending>] [<urpf-mode>] [<ipv6-lstype>] [<stats-last-reset>] [<acl-in>] [<acl-out>] [<upkt-fwd>] [<upkt-orig>] [<upkt-consumed>] [<ubyte-fwd>] [<ubyte-orig>] [<ubyte-consumed>] [<mpkt-fwd>] [<mpkt-orig>] [<mpkt-consumed>] [<mbyte-fwd>] [<mbyte-orig>] [<mbyte-consumed>] [<upkt-in-acc>] [<upkt-in-rej>] [<ubyte-in-acc>] [<ubyte-in-rej>] [<mpkt-in-acc>] [<mpkt-in-rej>] [<mbyte-in-acc>] [<mbyte-in-rej>] [<upkt-out-acc>] [<upkt-out-rej>] [<ubyte-out-acc>] [<ubyte-out-rej>] [<mpkt-out-acc>] [<mpkt-out-rej>] [<mbyte-out-acc>] [<mbyte-out-rej>] [<hw-upkt-sent>] [<hw-upkt-recv>] [<hw-ubyte-sent>] [<hw-ubyte-recv>] [<hw-mpkt-sent>] [<hw-mpkt-recv>] [<hw-mbyte-sent>] [<hw-mbyte-recv>] [<hw-upkt-drop>] [<hw-ubyte-drop>] [<hw-mpkt-drop>] [<hw-mbyte-drop>] [<hw-mpkt-rpdrop>] [<hw-mbyte-rpdrop>] [<hw-mpkt-dfdrop>] [<hw-mbyte-dfdrop>] [<unspecified-src>] [<total-pkt-recv-tent-addr>] [<total-pkts-recv-invalid-addr-state>] [<total-pkt-recv-dup-state>] [<anycast-pkt-arrived-tcp>] [<deliver-intf-down>]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
interface	Display IPv6 related interface information
brief	(Optional) Display summary of IPv6 status and configuration
include-secondary	(Optional) Display summary of all IPv6 addresses
interface	(Optional) Interface name to display
detail	(Optional) Display detailed IPv6 interface information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display all VRFs
__readonly__	(Optional)
TABLE_addr	(Optional)
vrf-name-out	(Optional)

TABLE_intf	(Optional)
intf-name	(Optional)
proto-state	(Optional)
link-state	(Optional)
admin-state	(Optional)
iod	(Optional)
addr	(Optional)
prefix	(Optional)
TABLE_sec_addr	(Optional)
sec-prefix	(Optional)
linklocal-configured	(Optional)
TABLE_vaddr	(Optional)
ipv6-disabled	(Optional)
mrouting-enabled	(Optional)
mgroup-locally-joined	(Optional)
TABLE_maddr	(Optional)
m-addr-refcnt	(Optional)
TABLE_sg	(Optional)
sg-refcnt	(Optional)
mtu	(Optional)
global-in-pcl-configured	(Optional)
global-in-pcl-name	(Optional)
global-in-pcl-pending	(Optional)
global-out-pcl-configured	(Optional)
global-out-pcl-name	(Optional)
global-out-pcl-pending	(Optional)
in-pcl-configured	(Optional)
in-pcl-name	(Optional)
in-pcl-pending	(Optional)

out-pcl-configured	(Optional)
out-pcl-name	(Optional)
out-pcl-pending	(Optional)
urpf-mode	(Optional)
ipv6-lstype	(Optional)
stats-last-reset	(Optional)
acl-in	(Optional)
acl-out	(Optional)
upkt-fwd	(Optional)
upkt-orig	(Optional)
upkt-consumed	(Optional)
ubyte-fwd	(Optional)
ubyte-orig	(Optional)
ubyte-consumed	(Optional)
mpkt-fwd	(Optional)
mpkt-orig	(Optional)
mpkt-consumed	(Optional)
mbyte-fwd	(Optional)
mbyte-orig	(Optional)
mbyte-consumed	(Optional)
upkt-in-acc	(Optional)
upkt-in-rej	(Optional)
ubyte-in-acc	(Optional)
ubyte-in-rej	(Optional)
mpkt-in-acc	(Optional)
mpkt-in-rej	(Optional)
mbyte-in-acc	(Optional)
mbyte-in-rej	(Optional)
upkt-out-acc	(Optional)

upkt-out-rej	(Optional)
ubyte-out-acc	(Optional)
ubyte-out-rej	(Optional)
mpkt-out-acc	(Optional)
mpkt-out-rej	(Optional)
mbyte-out-acc	(Optional)
mbyte-out-rej	(Optional)
hw-upkt-sent	(Optional)
hw-upkt-recv	(Optional)
hw-ubyte-sent	(Optional)
hw-ubyte-recv	(Optional)
hw-mpkt-sent	(Optional)
hw-mpkt-recv	(Optional)
hw-mbyte-sent	(Optional)
hw-mbyte-recv	(Optional)
hw-upkt-drop	(Optional)
hw-ubyte-drop	(Optional)
hw-mpkt-drop	(Optional)
hw-mbyte-drop	(Optional)
hw-mpkt-rpdrop	(Optional)
hw-mbyte-rpdrop	(Optional)
hw-mpkt-dfdrop	(Optional)
hw-mbyte-dfdrop	(Optional)
unspecified-src	(Optional)
total-pkt-recv-tent-addr	(Optional)
total-pkts-recv-invalid-addr-state	(Optional)
total-pkt-recv-dup-state	(Optional)
anycast-pkt-arrived-tcp	(Optional)
deliver-intf-down	(Optional)

Command Mode

- /exec

show ipv6 lisp data-cache

show ipv6 lisp data-cache [<eid>] [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
lisp	LISP show commands
data-cache	Display EID-to-RLOC data cache mapping in this ITR
eid	(Optional) Display mapping for IPv6 destination EID
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name

Command Mode

- /exec

show ipv6 local policy

show ipv6 local policy [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_pbr [<interface>] [<rmap>] [<status>] [<vrf_name>] }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
local	IPv6 local options
policy	Policy routing
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
interface	(Optional)
rmap	(Optional)
status	(Optional)
vrf_name	(Optional)

Command Mode

- /exec

show ipv6 mld groups

show ipv6 [icmp] mld groups [{ <source> [<group>] } | { <group> [<source>] }] [<interface>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name-out> <entry-count> TABLE_group <group-out> TABLE_intf <intf-name> <icmpv6-disabled> <mld-source> <mld-group> <mld-source-unspec> <mld-static> <mld-local-group> <mld-translated> <mld-uptime> <mld-expire>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
groups	Display MLD attached group membership information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
interface	(Optional) Display group membership on interface name
__readonly__	(Optional)
TABLE_vrf	(Optional) vrf table
vrf-name-out	(Optional) vrf name
entry-count	(Optional) entry count
TABLE_group	(Optional) group table
TABLE_intf	(Optional) interface table
intf-name	(Optional) interface name
icmpv6-disabled	(Optional) icmpv6 disabled
mld-source-unspec	(Optional) mld source unspecified
mld-static	(Optional) mld static
mld-local-group	(Optional) mld local group
mld-translated	(Optional) mld translated
mld-uptime	(Optional) mld uptime

mld-expire	(Optional) mld expire

Command Mode

- /exec

show ipv6 mld local-groups

show ipv6 [icmp] mld local-groups [<interface>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf> { TABLE_entry <group-addr> <source-addr> <static-oif> <local-group> <if-name> <last-reported> }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
icmp	(Optional) Display ICMPv6 information
mld	Display Multicast Listener Discovery information
local-groups	Display MLD local group membership information
interface	(Optional) Display group membership on interface name
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional) vrf table
vrf	(Optional) vrf
TABLE_entry	(Optional) entry table
static-oif	(Optional) static oif
local-group	(Optional) local group
if-name	(Optional) interface name
last-reported	(Optional) last reported

Command Mode

- /exec

show ipv6 mroute

show ipv6 mroute [[bitfield] | rp | { [<group>] summary [software-forwarded] } | { summary [count | software-forwarded] } | { { <source> <group> } | { <group> [<source>] } } [summary [software-forwarded] | bitfield]] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_vrf <vrf-name> [TABLE_addr <mcast-addrs> <pending> <bidir> <uptime> [TABLE_mpib <mpib-name> <stale-route>] <if-name><rpf-nbr> <internal> <oif-count><fabric-oif><fabric-loser> [TABLE_oif <oif-name> <oif-uptime> [TABLE_oif_mpib <oif-mpib-name> <stale-oif>] <rpf>] [<oif-list-bitfield>]] [<total-route-count> <star-g-count> <source-count> <star-g-prefix-count> <group-count> <avg-sources-per-group><rem> [<reason-for-route-stats-pending>]] [TABLE_group <group-addr> <group-mask-len> <source-count-per-grp> [TABLE_source <route-or-source> [<name>] <packets> <bytes> <aps> <pps> <bit-rate-in-bps> <oifs> [<software-pkts>]]] }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) Multicast VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mroute	Display IPv6 multicast routing table
summary	(Optional) Display route counts and packet rates
software-forwarded	(Optional) Display software switched route counts only
rp	(Optional) Display RP routes (RP, 0.0.0.0/32)
count	(Optional) Display route counts only
bitfield	(Optional) Display bitfield details
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
TABLE_addr	(Optional)
mcast-addrs	(Optional)
bidir	(Optional)
pending	(Optional)
uptime	(Optional)

internal	(Optional)
TABLE_mpib	(Optional)
mpib-name	(Optional)
stale-route	(Optional)
TABLE_oif	(Optional)
oif-name	(Optional)
oif-uptime	(Optional)
rpf	(Optional)
oif-list-bitfield	(Optional)
TABLE_oif_mpib	(Optional)
oif-mpib-name	(Optional)
stale-oif	(Optional)
total-route-count	(Optional)
star-g-count	(Optional)
source-count	(Optional)
star-g-prefix-count	(Optional)
group-count	(Optional)
reason-for-route-stats-pending	(Optional)
TABLE_group	(Optional)
group-addr	(Optional)
group-mask-len	(Optional)
source-count-per-grp	(Optional)
TABLE_source	(Optional)
route-or-source	(Optional)
name	(Optional)
packets	(Optional)
bytes	(Optional)
aps	(Optional)
pps	(Optional)

bit-rate-in-bps	(Optional)
oifs	(Optional)
software-pkts	(Optional)

Command Mode

- /exec

show ipv6 mtu

show ipv6 mtu [statistics | vrf { <vrf-name> | <vrf-known-name> | all [detail] }] [__readonly__ [TABLE_mtu_stat <out-ent> <exp-ent> <purge-ent> <int-err> <pkt-too-big> <cache-miss> <cache-upd> <mtu-small> <cache-no-upd>] [TABLE_mtu_vrf [<tot-ipv6-mtu>] [TABLE_one_mtu [<pmtu-cntxt>] [{ <mtu-ipv6> <mtu-cache> <up-time> <iod-lcache> }]]]]

Syntax Description

show	Show running system information
ipv6	Display IPV6 information
mtu	Display IPV6 Path MTU Cache
statistics	(Optional) Display non-TCP Path MTU Statistics
vrf	(Optional) Clear information for particular VRF
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
detail	(Optional) Display IPV6 Path MTU Cache with detail
__readonly__	(Optional)
TABLE_mtu_stat	(Optional) mtu statistic table
out-ent	(Optional) outstanding entries
exp-ent	(Optional) expired entries
purge-ent	(Optional) purge entries
int-err	(Optional) internal entries
pkt-too-big	(Optional) packets too big meassages received
cache-miss	(Optional) cache misses
cache-upd	(Optional) cache updates
mtu-small	(Optional) too small mtu advertised
cache-no-upd	(Optional) cache no update
TABLE_mtu_vrf	(Optional) MTU vrf table
tot-ipv6-mtu	(Optional) total ipv6 mtu messages
TABLE_one_mtu	(Optional) MTU table

pmtu-cntxt	(Optional) pmtu context
mtu-cache	(Optional) mtu cache
up-time	(Optional) up time
iod-lcache	(Optional) iod lcache

Command Mode

- /exec

show ipv6 nd ra dns search-list

show ipv6 nd ra dns search-list [interface <interface>] [__readonly__ { TABLE_intf <intf_name> <dns_supress_server_list> [{ TABLE_list <list_no> <list_name> [{ <finite> | <infinite> }] <seq_no> }] }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
search-list	DNS Search List
interface	(Optional) Display DNS Search List information on interface
interface	(Optional) Interface name to display
__readonly__	(Optional)
TABLE_intf	(Optional) IPV6 Interface name
intf_name	(Optional) Interface name
dns_supress_server_list	(Optional) DNS Supress server list
TABLE_list	(Optional) Search list
list_no	(Optional) Search list number
list_name	(Optional) Search list name
finite	(Optional) Search list life time
infinite	(Optional) Search list infinte time
seq_no	(Optional) Search list sequence number

Command Mode

- /exec

show ipv6 nd ra dns server

show ipv6 nd ra dns server [interface <interface>] [__readonly__ [{ TABLE_intf_name [<inf-name>] }] [{ TABLE_intf [<dns-recursion-server-list>] [<dns-suppresion-server-list>] [{ TABLE_dns_server [<dns-server-index>] [<dns-server-list>] [<lifetime>] [<second-seqno>] }] [{ TABLE_dns_seq [<dns-server>] [<dns-addr>] [<infinite-seq-no>] }] }]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
interface	(Optional) Display Recursive DNS Server List information on interface
interface	(Optional) Interface name to display
__readonly__	(Optional)
TABLE_intf_name	(Optional) interface table
inf-name	(Optional) interface name
TABLE_intf	(Optional)
dns-recursion-server-list	(Optional) DNS recursion server list
dns-suppresion-server-list	(Optional) DNS suppresion server list
TABLE_dns_server	(Optional) DNS server table
dns-server-index	(Optional) dns server index
dns-server-list	(Optional) dns server list
lifetime	(Optional) server lifetime
second-seqno	(Optional) second sequence number
TABLE_dns_seq	(Optional) DNS sequence table
dns-server	(Optional) dns server
dns-addr	(Optional) dns address
infinite-seq-no	(Optional) infinite sequence number

Command Mode

- /exec

show ipv6 nd raguard policy

show ipv6 nd raguard policy [<name>] [__readonly__ { TABLE_raguard_policy <policy> [<port_type>] <device_role> [<min_hop_limit>] [<max_hop_limit>] [<mgd_conf_flag>] [<other_conf_flag>] [<rtr_pref_max>] [<ra_prefix_list>] [<ipv6_acl>] [{ TABLE_raguard_targets <target> <target_type> <target_policy> <feature> <target_range> }] }]

Syntax Description

name	(Optional) Policy name for feature RA guard
__readonly__	(Optional)
TABLE_raguard_policy	(Optional) IPv6 RA guard policy
policy	(Optional) Policy Name
port_type	(Optional) Port type
device_role	(Optional) Device role
min_hop_limit	(Optional) Minimum hop limit
max_hop_limit	(Optional) Minimum hop limit
mgd_conf_flag	(Optional) Check managed config flag
other_conf_flag	(Optional) Check other config flag
rtr_pref_max	(Optional) Router-preference maxmium
ra_prefix_list	(Optional) Match RA prefix list
ipv6_acl	(Optional) Match IPv6 access list
TABLE_raguard_targets	(Optional) RA Guard Targets table
target	(Optional) Target Name
target_type	(Optional) Target Type
target_policy	(Optional) Policy Name
feature	(Optional) Feature
target_range	(Optional) Target Range

Command Mode

- /exec

show ipv6 neighbor binding

show ipv6 neighbor binding [{ { vlan <vlanid> [details] } | { { address { <ipv6-addr> | all } } { interface <intfid> vlan <vlanid> [details] |

Syntax Description

intfid	(Optional) [details]
show	Show running system information
ipv6	Show the IPv6 features of the system
vlanid	(Optional) Vlan number

Command Mode

- /exec

show ipv6 neighbor binding mac

show ipv6 neighbor binding mac <macaddr> { interface <intfid> vlan <vlanid> [details] |

Syntax Description

intfid	[details]
show	Show running system information
ipv6	Show the IPv6 features of the system
macaddr	48-bit hardware address
vlanid	Vlan number

Command Mode

- /exec

show ipv6 neighbor static

show ipv6 neighbor static [interface <interface>] [__readonly__ [TABLE_i6_nei { <nei-ipv6> <nei-mac> <nei-iod> <nei-if-iod> }] [<tot-nei-ent>] [TABLE_nei_cnt { <nei-ipv6-tot> <nei-mac-tot> <nei-iod-tot> <nei-if-iod-tot> }]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
neighbor	Show IPv6 neighbor entry
static	Displays only static neighbors
interface	(Optional) Display IPv6 related interface information
interface	(Optional) Interface name to display
__readonly__	(Optional)
TABLE_i6_nei	(Optional) ipv6 neighbor table
nei-mac	(Optional) neighbor mac address
nei-iod	(Optional) neighbor iod
nei-if-iod	(Optional) neighbor interface iod
tot-nei-ent	(Optional) total neighbor entries
TABLE_nei_cnt	(Optional) neighbor count table
nei-mac-tot	(Optional) neighbor mac address
nei-iod-tot	(Optional) neighbor iod
nei-if-iod-tot	(Optional) neighbor physical interface iod

Command Mode

- /exec

show ipv6 pim df

show ipv6 pim df [<rp-or-group>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [<out-context>] [{ TABLE_rp [<rp-addr>] [<df-ordinal>] [<df-bits>] [<df-bits-count>] [<metric-pref>] [<metric>] [{ TABLE_grange [<grange-grp>] [<grange-masklen>] }] [{ TABLE_iod [<if-name>] [<df-winner>] [<df-state>] [<winner-metric-pref>] [<winner-metric>] [<uptime>] [<is-rpf>] }] }]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
df	Display Bidir Designated Forwarders
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
out-context	(Optional)
TABLE_rp	(Optional)
df-ordinal	(Optional)
df-bits	(Optional)
df-bits-count	(Optional)
metric-pref	(Optional)
metric	(Optional)
TABLE_grange	(Optional)
grange-masklen	(Optional)
TABLE_iod	(Optional)
if-name	(Optional)
df-state	(Optional)
winner-metric-pref	(Optional)
winner-metric	(Optional)

uptime	(Optional)
is-rpf	(Optional)

Command Mode

- /exec

show ipv6 pim event-history

show ipv6 pim [internal] event-history { errors | msgs | <pim6-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
internal	(Optional) Commands for internal use
event-history	Show various event logs of PIM6
errors	Show error logs of PIM6
msgs	Show various message logs of PIM6
pim6-event-hist-buf-name	Show logs of event-hist buffer
statistics	Show state and size of buffers

Command Mode

- /exec

show ipv6 pim fabric info

show ipv6 pim fabric info [__readonly__ <switch_role>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
fabric	Fabric functionality
info	show the fabric info
__readonly__	(Optional)
switch_role	(Optional)

Command Mode

- /exec

show ipv6 pim fabric legacy-vlans

show ipv6 pim fabric legacy-vlans [__readonly__ TABLE_legacy_vlan <vlan_id>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
fabric	Fabric functionality
legacy-vlans	Show legacy VLANs on this switch
__readonly__	(Optional)
TABLE_legacy_vlan	(Optional)
vlan_id	(Optional)

Command Mode

- /exec

show ipv6 pim group-range

show ipv6 pim group-range [<group>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf [<out-context>] [{ TABLE_group [<invalid-grp>] [<grp-addr>] [<mode>] [<rp-addr>] [<sh-tree-only-range>] }]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
group-range	Display the various group ranges
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-context	(Optional)
TABLE_group	(Optional)
invalid-grp	(Optional)
grp-addr	(Optional)
mode	(Optional)
rp-addr	(Optional)
sh-tree-only-range	(Optional)

Command Mode

- /exec

show ipv6 pim interface

show ipv6 pim interface [<interface>] [brief] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [<is-pim-enabled>] [TABLE_vrf [<out-context>] [TABLE_brief [<if-name>] [<if-addr>] [<if-nbr-count>] [<if-is-border>] [<if-dr>]] [TABLE_iod [<if-name>] [<if-status>] [<if-addr>] [<dr>] [<is-iface-in-cib>] [<if-addr-summary>] [<dr-priority>] [<no-dr-priority>] [<nbr-cnt>] [<hello-interval-sec>] [<hello-interval-msec>] [<hello-timer>] [<holdtime-sec>] [<holdtime-msec>] [<is-border>] [<genid>] [<isauth-config>] [<nbr-policy-name>] [<jp-in-policy-name>] [<jp-out-policy-name>] [<is-passive>] [<last-cleared>] [<hello-sent>] [<hello-rcvd>] [<jp-sent>] [<jp-rcvd>] [<assert-sent>] [<assert-rcvd>] [<graft-sent>] [<graft-rcvd>] [<graft-ack-sent>] [<graft-ack-rcvd>] [<df-offer-sent>] [<df-offer-rcvd>] [<df-winner-sent>] [<df-winner-rcvd>] [<df-backoff-sent>] [<df-backoff-rcvd>] [<pass-sent>] [<pass-rcvd>] [<cksum-errors>] [<invalid-errors>] [<invalid-df-errors>] [<auth-failed>] [<pak-len-errors>] [<ver-errors>] [<pkts-self>] [<pkts-non-nbr>] [<pkts-on-passive>] [<jp-rcvd-on-rpf>] [<jp-rcvd-no-rp>] [<jp-rcvd-wrong-rp>] [<jp-rcvd-for-ssm>] [<jp-rcvd-for-bidir>] [<jp-in-policy-filter>] [<jp-out-policy-filter>]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
interface	Display PIM6 interface related information
interface	(Optional) Interface name of single interface to display
brief	(Optional) Display one line status per interface
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
is-pim-enabled	(Optional)
TABLE_vrf	(Optional)
out-context	(Optional)
TABLE_brief	(Optional)
if-name	(Optional)
if-addr	(Optional)
if-dr	(Optional)

if-nbr-count	(Optional)
if-is-border	(Optional)
TABLE_iod	(Optional)
if-name	(Optional)
if-status	(Optional)
if-addr	(Optional)
dr	(Optional)
dr-priority	(Optional)
no-dr-priority	(Optional)
nbr-cnt	(Optional)
is-iface-in-cib	(Optional)
is-border	(Optional)
if-addr-summary	(Optional)
hello-interval-sec	(Optional)
hello-interval-msec	(Optional)
hello-timer	(Optional)
holdtime-sec	(Optional)
holdtime-msec	(Optional)
genid	(Optional)
isauth-config	(Optional)
is-passive	(Optional)
nbr-policy-name	(Optional)
jp-in-policy-name	(Optional)
jp-out-policy-name	(Optional)
last-cleared	(Optional)
hello-sent	(Optional)
hello-rcvd	(Optional)
jp-sent	(Optional)
jp-rcvd	(Optional)

assert-sent	(Optional)
assert-rcvd	(Optional)
graft-sent	(Optional)
graft-rcvd	(Optional)
graft-ack-sent	(Optional)
graft-ack-rcvd	(Optional)
df-offer-sent	(Optional)
df-offer-rcvd	(Optional)
df-winner-sent	(Optional)
df-winner-rcvd	(Optional)
df-backoff-sent	(Optional)
df-backoff-rcvd	(Optional)
pass-sent	(Optional)
pass-rcvd	(Optional)
cksum-errors	(Optional)
invalid-errors	(Optional)
invalid-df-errors	(Optional)
auth-failed	(Optional)
pak-len-errors	(Optional)
ver-errors	(Optional)
pkts-self	(Optional)
pkts-non-nbr	(Optional)
pkts-on-passive	(Optional)
jp-rcvd-on-rpf	(Optional)
jp-rcvd-no-rp	(Optional)
jp-rcvd-wrong-rp	(Optional)
jp-rcvd-for-ssm	(Optional)
jp-rcvd-for-bidir	(Optional)
jp-in-policy-filter	(Optional)

jp-out-policy-filter	(Optional)

Command Mode

- /exec

show ipv6 pim neighbor

show ipv6 pim neighbor { [<interface>] | [<ipv6addr>] } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf <out-context> [TABLE_neighbor <nbr-addr><if-name><uptime><expires> [<dr-priority>] <bidir-capable> <bfd-state><name> [TABLE_secondary <sec-addr>]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
neighbor	Display PIM6 neighbor related information
interface	(Optional) Display neighbors on single interface name
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-context	(Optional)
TABLE_neighbor	(Optional)
dr-priority	(Optional)
bidir-capable	(Optional)
TABLE_secondary	(Optional)

Command Mode

- /exec

show ipv6 pim oif-list

show ipv6 pim oif-list <group> [<source>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name> { TABLE_grp <mcast-addrs> <incoming-intf> <rpf-nbr> <timeout-interval> <oif-list-count> [{ TABLE_oiflist <oif-name> }] <timeout-list-count> [{ TABLE_timeoutlist <timeoutoif-name> }] <immediate-list-count> [{ TABLE_immediatelist <immediateoif-name> }] <immediate-timeout-list-count> [{ TABLE_immediatetimeoutlist <immediatetimeoutoif-name> }] <sgr-prune-list-count> [{ TABLE_sgrprunelist <sgrprunelistoif-name> }] }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
oif-list	Display interfaces for oif-list of PIM6 route
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name	(Optional)
TABLE_grp	(Optional)
mcast-addrs	(Optional)
incoming-intf	(Optional)
timeout-interval	(Optional)
oif-list-count	(Optional)
TABLE_oiflist	(Optional)
oif-name	(Optional)
timeout-list-count	(Optional)
TABLE_timeoutlist	(Optional)
timeoutoif-name	(Optional)
immediate-list-count	(Optional)

TABLE_immediatelist	(Optional)
immediateoif-name	(Optional)
immediate-timeout-list-count	(Optional)
TABLE_immediatetimeoutlist	(Optional)
immediatetimeoutoif-name	(Optional)
sgr-prune-list-count	(Optional)
TABLE_sgrprunelist	(Optional)
sgrprunelistoif-name	(Optional)

Command Mode

- /exec

show ipv6 pim policy statistics jp

show ipv6 pim policy statistics { jp-policy | neighbor-policy } <interface> [__readonly__ { TABLE_routemap <name> <action> <seq_num> [{ TABLE_cmd <command> <match_count> <compare_count> }] } <total_accept_count> <total_reject_count>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
interface	Interface to display policy statistics for
__readonly__	(Optional)
TABLE_routemap	(Optional)
name	(Optional)
action	(Optional)
seq_num	(Optional)
TABLE_cmd	(Optional)
command	(Optional)
compare_count	(Optional)
match_count	(Optional)
total_accept_count	(Optional)
total_reject_count	(Optional)

Command Mode

- /exec

show ipv6 pim route

show ipv6 pim route { [bitfield] | <source> <group> | <group> [<source>] [bitfield] } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <context-name> <route-count> [TABLE_one_route <mcast-addrs> [<rp-addr> <rp-local>] [<bidir>] [<sgexpire>] [<is-fabricowned>] [<sgrexpire>] [<timeleft>] [<rp-bit>] [<register>] [<assert-timeout>] [<intf-name>] [<rpf-nbr-1>] [<rpf-nbr-addr>] [<rpf-nbr-2>] [<metric-pref> <route-metric>] [<oif-count>] [<oif-bf-str>] [<timeout-count>] [<timeout-bf-str>] [<immediate-count>] [<immediate-bf-str>] [<immediate-timeout-count>] [<immediate-timeout-bf-str>] [<sgr-prune-list-count>] [<sgr-prune-list-bf-str>] [<timeout-interval> <jp-holdtime-rndup>]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
route	Display PIM6 specific route information
bitfield	(Optional) Display details of each bitfield for PIM6 route
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
context-name	(Optional)
route-count	(Optional)
TABLE_one_route	(Optional)
mcast-addrs	(Optional)
rp-addr	(Optional)
rp-local	(Optional)
bidir	(Optional)
sgexpire	(Optional)
is-fabricowned	(Optional)
sgrexpire	(Optional)

timeleft	(Optional)
rp-bit	(Optional)
register	(Optional)
assert-timeout	(Optional)
intf-name	(Optional)
rpf-nbr-1	(Optional)
rpf-nbr-addr	(Optional)
rpf-nbr-2	(Optional)
metric-pref	(Optional)
route-metric	(Optional)
oif-count	(Optional)
oif-bf-str	(Optional)
timeout-count	(Optional)
timeout-bf-str	(Optional)
immediate-count	(Optional)
immediate-bf-str	(Optional)
immediate-timeout-count	(Optional)
immediate-timeout-bf-str	(Optional)
sgr-prune-list-count	(Optional)
sgr-prune-list-bf-str	(Optional)
timeout-interval	(Optional)
jp-holdtime-rndup	(Optional)

Command Mode

- /exec

show ipv6 pim rp-hash

show ipv6 pim rp-hash <group> [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [<out-context>] [<rp-found>] [<is-rp-bsr-learnt>] [<out-group>] [<hash-length>] [<out-bsr>] [{ TABLE_rp [<rp-addr>] [<hash>] [<isbest_hash>] }]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp-hash	Display RP hash value for group
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
out-context	(Optional)
rp-found	(Optional)
is-rp-bsr-learnt	(Optional)
hash-length	(Optional)
TABLE_rp	(Optional)
hash	(Optional)
isbest_hash	(Optional)

Command Mode

- /exec

show ipv6 pim rp

show ipv6 pim rp [<group>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf [<out-context>] [<is-bsr-enabled>] [<is-bsr-listen-only>] [<is-bsr-forward-only>] [<are-we-bsr>] [<bsr-address>] [<is-bsr-address>] [<bsr-priority>] [<bsr-hash-masklen>] [<bs-timer>] [<bsr-uptime>] [<bsr-expires>] [<rp-cand-policy-name>] [<bsr-policy-name>] [<rp-announce-policy-name>] [<rp-discovery-policy-name>] [{ TABLE_anycast_rp [<anycast-rp-addr>] [{ TABLE_arp_rp [<arp-rp-addr>] [<is-rpaddr-local>] }] }] [{ TABLE_rp [<rp-addr>] [<df-ordinal>] [<is-rp-in-cib>] [<rp-uptime>] [<rp-priority>] [<bsr-rp-expires>] [<bsr-info-src>] [<is-rp-static>] [<static-rp-group-map>] [{ TABLE_grange [<grange-grp>] [<grange-masklen>] [<is-bidir-grp>] [<is-bsr-rp-owner>] [<is-static-rp-owner>] }] }]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp	Display PIM6 RP and BSR related information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_vrf	(Optional)
out-context	(Optional)
is-bsr-enabled	(Optional)
is-bsr-listen-only	(Optional)
is-bsr-forward-only	(Optional)
are-we-bsr	(Optional)
is-bsr-address	(Optional)
bsr-priority	(Optional)
bsr-hash-masklen	(Optional)
bs-timer	(Optional)
bsr-uptime	(Optional)

bsr-expires	(Optional)
rp-cand-policy-name	(Optional)
bsr-policy-name	(Optional)
rp-announce-policy-name	(Optional)
rp-discovery-policy-name	(Optional)
TABLE_anycast_rp	(Optional)
TABLE_arp_rp	(Optional)
is-rpaddr-local	(Optional)
TABLE_rp	(Optional)
is-rp-in-cib	(Optional)
df-ordinal	(Optional)
rp-uptime	(Optional)
rp-priority	(Optional)
bsr-rp-expires	(Optional)
is-rp-static	(Optional)
static-rp-group-map	(Optional)
TABLE_grange	(Optional)
grange-masklen	(Optional)
is-bidir-grp	(Optional)
is-bsr-rp-owner	(Optional)
is-static-rp-owner	(Optional)

Command Mode

- /exec

show ipv6 pim statistics

show ipv6 pim statistics [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_context [<out-context>] [<uptime>] [<reg-sent>] [<reg-rcvd>] [<null-reg-sent>] [<null-reg-rcvd>] [<reg-stop-sent>] [<reg-stop-rcvd>] [<reg-rcvd-not-rp>] [<reg-rcvd-for-ssm>] [<reg-rcvd-for-bidir>] [<bootstrap-sent>] [<bootstrap-rcvd>] [<cand-rp-sent>] [<cand-rp-rcvd>] [<bs-no-nbr>] [<bs-border-deny>] [<bs-len-errors>] [<bs-rpf-failed>] [<bs-no-listen>] [<candrp-border-deny>] [<candrp-no-listen>] [<ctrl-no-route>] [<data-no-route>] [<no-state>] [<create-state>]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
statistics	Packet counter statistics
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_context	(Optional)
out-context	(Optional)
uptime	(Optional)
reg-sent	(Optional)
reg-rcvd	(Optional)
null-reg-sent	(Optional)
null-reg-rcvd	(Optional)
reg-stop-sent	(Optional)
reg-stop-rcvd	(Optional)
reg-rcvd-not-rp	(Optional)
reg-rcvd-for-ssm	(Optional)
reg-rcvd-for-bidir	(Optional)
bootstrap-sent	(Optional)

bootstrap-rcvd	(Optional)
cand-rp-sent	(Optional)
cand-rp-rcvd	(Optional)
bs-no-nbr	(Optional)
bs-border-deny	(Optional)
bs-len-errors	(Optional)
bs-rpf-failed	(Optional)
bs-no-listen	(Optional)
candrp-border-deny	(Optional)
candrp-no-listen	(Optional)
ctrl-no-route	(Optional)
data-no-route	(Optional)
no-state	(Optional)
create-state	(Optional)

Command Mode

- /exec

show ipv6 pim vrf

show ipv6 pim vrf [{ <vrf-name> | <vrf-known-name> | all }] [detail] [__readonly__ [TABLE_context [<out-context>] [<context-id>] [<count>] [<bfd-enabled>] [<table-id>] [<state-limit>] [<available-states>] [<reserved-limit>] [<available-reserved>] [<reserve-policy>] [<register-rate-limit-pps>] [<shared-tree-route-map>] [TABLE_RANGE [<shared-tree-ranges>]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
vrf	Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display all VRFs PIM6 is configured for
detail	(Optional) Display detailed information
__readonly__	(Optional)
TABLE_context	(Optional)
out-context	(Optional)
context-id	(Optional)
table-id	(Optional)
count	(Optional)
bfd-enabled	(Optional)
state-limit	(Optional)
available-states	(Optional)
reserved-limit	(Optional)
available-reserved	(Optional)
reserve-policy	(Optional)
register-rate-limit-pps	(Optional)
shared-tree-route-map	(Optional)
TABLE_RANGE	(Optional)

shared-tree-ranges	(Optional)

Command Mode

- /exec

show ipv6 policy

show ipv6 policy [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_pbr [<interface>] [<rmap>] [<status>] [<vrf_name>] }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
policy	Policy routing
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_pbr	(Optional)
interface	(Optional)
rmap	(Optional)
status	(Optional)
vrf_name	(Optional)

Command Mode

- /exec

show ipv6 prefix-list

show ipv6 prefix-list { { [detail | summary] [<ipv6-pfl-name> | <ipv6-pfl-cfg-name>] } | { { <ipv6-pfl-name> | <ipv6-pfl-cfg-name> } seq <seq-no> } | { { <ipv6-pfl-name> | <ipv6-pfl-cfg-name> } <prefix> [first-match | longer] } } [__readonly__ TABLE_ipv6_pfl <name> <seq> <action> <rule>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
detail	(Optional) Show detailed information
summary	(Optional) Show summarized information
prefix-list	List IPv6 prefix lists
ipv6-pfl-name	(Optional) Name of prefix-list
ipv6-pfl-cfg-name	(Optional) Known prefix-list name
seq	Sequence number
seq-no	Sequence number
first-match	(Optional) Find the first match
longer	(Optional) Find the more specific entries
__readonly__	(Optional)
TABLE_ipv6_pfl	(Optional)
name	(Optional)
seq	(Optional)
action	(Optional)
rule	(Optional)

Command Mode

- /exec

show ipv6 process

show ipv6 process [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_ipv6_all { <cnxt-name> <cnxt-id> }] [TABLE_ipv6 { <ipv6-vrf> <ipv6-vrf-id> <auto-disc> <auto-add> <sta-disc> <sta-def> [<ipv6-unreach>] } [TABLE_iod { <iod-val> <iod-ifind> }] [TABLE_ipv6_nxt { <ipv6-nxt> }]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
process	Display IPv6 global information
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display all VRFs
__readonly__	(Optional)
TABLE_ipv6_all	(Optional) IPV6 process table
cnxt-name	(Optional) context name
cnxt-id	(Optional) context name
TABLE_ipv6	(Optional) ipv6 table
ipv6-vrf	(Optional) vrf name
ipv6-vrf-id	(Optional) vrf id
auto-disc	(Optional) auto discard
auto-add	(Optional) auto add
sta-disc	(Optional) static discard
sta-def	(Optional) static def
ipv6-unreach	(Optional) ipv6 unreachable
TABLE_iod	(Optional) IOD table
iod-val	(Optional) iod value
iod-ifind	(Optional) iod if index
TABLE_ipv6_nxt	(Optional) ipv6 next hop table

Command Mode

- /exec

show ipv6 raguard statistics

show ipv6 raguard statistics [interface <intf-range>] [__readonly__ <msg_stats_hdr> <intf2> <rx_pkts> <drop_count>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
raguard	IPV6 raguard
statistics	RA packet drop count
interface	(Optional) Raguard enabled interfaces
intf-range	(Optional) interface
__readonly__	(Optional) Read only
msg_stats_hdr	(Optional)
intf2	(Optional) interface name
rx_pkts	(Optional)
drop_count	(Optional)

Command Mode

- /exec

show ipv6 rip policy statistics redistribute

show ipv6 rip [instance <inst>] policy statistics redistribute { bgp <as> | { eigrp | isis | <src-rip> | ospfv3 | lisp } <tag> | direct | static } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_asn <asn> TABLE_vrf <vrf> [TABLE_rmap [<name> <action> <seq_num>] [TABLE_cmd <command> [<compare_count>] <match_count>]] <total_accept_count> <total_reject_count>]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
rip	Display RIP routing protocol status
instance	(Optional) Process ID
inst	(Optional) Process ID
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
src-rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
lisp	LISP EID-prefixes
tag	Process tag
direct	Directly connected routes
static	Static routes
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)

TABLE_asn	(Optional) AS number table
asn	(Optional) AS number
TABLE_vrf	(Optional) VRF table
vrf	(Optional) VRF name
TABLE_rmap	(Optional) Routemap table
name	(Optional) Route-map Name
action	(Optional) Route-map action
seq_num	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
command	(Optional) Route-map command
compare_count	(Optional) Number of comparisons
match_count	(Optional) Number of matches
total_accept_count	(Optional) Total number of packets accepted by the policy
total_reject_count	(Optional) Total number of packets rejected by the policy

Command Mode

- /exec

show ipv6 route

show ipv6 route [unicast] [topology <topology-name>] [l3vm-info] [rpf] [<ipv6-addr> | { <ipv6-prefix> [{ longer-prefixes | shorter-prefixes }] }] [{ <ipv6-protocol> [all] } | { bind-label <bind-lbl> | next-hop <next-hop> } | { interface <interface> } | { updated { [since <stime>] [until <utime>] } }] + [summary | { [detail] [deleted] }] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [<attached>] TABLE_path [<ubest>] [<mbest>] [<ipnexthop>] [<nexthop-vrf-name>] [<ifname>] [<bindlbl>] <uptime> <pref> <metric> <clientname> [<type>] [<tag>] [<stale>] [<stalelbl>] [<hidden>]] [TABLE_summary <routes> <paths> [<multicast_paths>] [TABLE_unicast [<clientnameuni>] [<best-paths>] [<backup-paths>]] [TABLE_multicast [<clientnamemulti>] [<best-paths>] [<backup-paths>]] [TABLE_route_count [<mask_len>] [<count>]]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
route	Display IPv6 routing table
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
topology-name	(Optional) topology name
l3vm-info	(Optional) Display corresponding L3VM information
rpf	(Optional) Display RPF information for multicast source
longer-prefixes	(Optional) Display matching routes with mask-lengths >= prefix
shorter-prefixes	(Optional) Display matching routes with mask-lengths <= prefix
ipv6-protocol	(Optional) Display routes for protocol (or route type)
all	(Optional) Display routes for protocol for backup next-hops too
bind-label	(Optional) Display routes with this bind-label only
bind-lbl	(Optional) Binding label
next-hop	(Optional) Display routes with this next-hop only
interface	(Optional) Display routes with this output interface only

interface	(Optional) Interface Name
updated	(Optional) Display routes filtered by last updated time
since	(Optional) Display those routes updated since this time
stime	(Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
until	(Optional) Display those routes updated until this time
utime	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
summary	(Optional) Display route counts
deleted	(Optional) Display delete-pending routes also
detail	(Optional) Display routes in full detail
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_addrf	(Optional)
addrf	(Optional)
TABLE_prefix	(Optional)
ucast-nhops	(Optional)
mcast-nhops	(Optional)
attached	(Optional)
TABLE_path	(Optional)
ubest	(Optional)
mbest	(Optional)
nexthop-vrf-name	(Optional)
ifname	(Optional)
bindlbl	(Optional)
pref	(Optional)
tag	(Optional)
metric	(Optional)
uptime	(Optional)
clientname	(Optional)

type	(Optional)
stale	(Optional)
stalelbl	(Optional)
hidden	(Optional)
TABLE_summary	(Optional)
routes	(Optional)
paths	(Optional)
multicast_paths	(Optional)
TABLE_unicast	(Optional)
clientnameuni	(Optional)
best-paths	(Optional)
backup-paths	(Optional)
TABLE_multicast	(Optional)
clientnamemulti	(Optional)
best-paths	(Optional)
backup-paths	(Optional)
TABLE_route_count	(Optional)
mask_len	(Optional)
count	(Optional)

Command Mode

- /exec

show ipv6 routers

show ipv6 routers [all-routers] [[interface <interface>] | [vrf { <vrf-name> | <vrf-known-name> | all }]] [__readonly__ { TABLE_ipv6_routers [TABLE_interface_ipv6 { <rtr-ipv6> <ipv6-int-addr> <rtr-flo-time> <curr-hop-lmt> <life-time> <addr-flag> <other-flg> <mtu-rtr> <hm-agent-flg> <preference> <reach-time> <retrans-time> [TABLE_prefix_ipv6 { <ipv6-prefix> <buf-ipv6> <buf-autono> <valid-life-time> <prefer-life> }] }] }]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
routers	Display neighbor router information
all-routers	(Optional) All routers even on down interface
interface	(Optional) Display neighbor router information on interface
interface	(Optional) Interface name to display
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_ipv6_routers	(Optional) ipv6 router table
TABLE_interface_ipv6	(Optional) ipv6 interface table
ipv6-int-addr	(Optional) ipv6 interface address
rtr-flo-time	(Optional) last updated time
curr-hop-lmt	(Optional) current hop limit
life-time	(Optional) life time
addr-flag	(Optional) address flag
other-flg	(Optional) other flag
mtu-rtr	(Optional) router MTU
hm-agent-flg	(Optional) home agent flag
preference	(Optional) preference
reach-time	(Optional) reachable time

retrans-time	(Optional) retransmission time
TABLE_prefix_ipv6	(Optional) ipv6 prefix table
ipv6-prefix	(Optional) ipv6 prefix
buf-ipv6	(Optional) ipv6 buffer
buf-autono	(Optional) ipv6 buffer autonomous flag
valid-life-time	(Optional) ipv6 valid life time
prefer-life	(Optional) ipv6 preferred life time

Command Mode

- /exec

show ipv6 snooping capture-policy

show ipv6 snooping capture-policy [vlan <vlanid>] [interface <intf>] [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
vlanid	(Optional) VLAN ID
intf	(Optional) interface
__readonly__	(Optional)
cmdout	(Optional)

Command Mode

- /exec

show ipv6 snooping counters vlan

show ipv6 snooping counters { { vlan <vlanid> } | { interface <intf> } } [__readonly__ [{ TABLE_target_counters <target> [{ TABLE_protocol_msgs <protocol_name> [{ TABLE_sub_protocol_msgs [<subfield_name>] [<msg_count>] }] }] [{ TABLE_bridged_msgs <protocol_name> [{ TABLE_sub_protocol_msgs [<subfield_name>] [<msg_count>] }] }] [{ TABLE_dropped_msgs <feature_name> <protocol_name> [{ TABLE_sub_protocol_msgs [<subfield_name>] [<msg_count>] [<drop_reason>] }] }] }]]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
vlanid	VLAN ID
intf	interface
__readonly__	(Optional)
TABLE_target_counters	(Optional) Policy counters per target
target	(Optional) Target Name
TABLE_protocol_msgs	(Optional) Protocol messages table
protocol_name	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
subfield_name	(Optional) Sub-field name
msg_count	(Optional) Message count
TABLE_bridged_msgs	(Optional) Bridged messages table
protocol_name	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
subfield_name	(Optional) Sub-field name
msg_count	(Optional) Message count
TABLE_dropped_msgs	(Optional) Bridged messages table
feature_name	(Optional) Feature name
protocol_name	(Optional) Protocol name
TABLE_sub_protocol_msgs	(Optional) Protocol sub-messages table
subfield_name	(Optional) Sub-field name

msg_count	(Optional) Message count
drop_reason	(Optional) Drop reason

Command Mode

- /exec

show ipv6 snooping events

show ipv6 snooping events [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
cmdout	(Optional)

Command Mode

- /exec

show ipv6 snooping features

show ipv6 snooping features [__readonly__ { TABLE_features <name> <priority> <state> }]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
TABLE_features	(Optional) IPv6 Snooping Features
name	(Optional) Name
priority	(Optional) Priority
state	(Optional) State

Command Mode

- /exec

show ipv6 snooping messages

show ipv6 snooping messages [detailed <count>] [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
count	(Optional) Number of messages to display
__readonly__	(Optional)
cmdout	(Optional)

Command Mode

- /exec

show ipv6 snooping policies

show ipv6 snooping policies { [vlan <vlanid>] | [interface <intf>] } [__readonly__ { TABLE_policies <target> <target_type> <policy> <feature> <target_range> }]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
vlanid	(Optional) VLAN ID
intf	(Optional) interface
__readonly__	(Optional)
TABLE_policies	(Optional) IPv6 Snooping Policies
target	(Optional) Target Name
target_type	(Optional) Target Type
policy	(Optional) Policy Name
feature	(Optional) Feature
target_range	(Optional) Target Range

Command Mode

- /exec

show ipv6 snooping policy

show ipv6 snooping policy [<policy_name>] [__readonly__ { [TABLE_glean_policy <policy> [<port_type>] <sec_lvl> <device_role> [<data_glean>] [<dest_glean>] [<glean_type>] [<reachable_lifetime>] [<stale_lifetime>] { [TABLE_non_glean_protocols | TABLE_glean_protocols # 395 ../feature/sisf/core/nxos/src/sisf_glean_dme.cmd <protocol> [<prefix_list>]] } [<limit_address_cnt>] [<limit_address_cnt_v4_per_mac>] [<limit_address_cnt_v6_per_mac>] [<limit_address_cnt_v4_per_target>] [<tracking>] { [TABLE_targets <target> <target_type> <target_policy> <feature> <target_range>] }] }]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
policy_name	(Optional) Policy name for feature snooping
__readonly__	(Optional)
TABLE_glean_policy	(Optional) IPv6 DHCP guard policy
policy	(Optional) Policy Name
port_type	(Optional) Port type
sec_lvl	(Optional) Security level
device_role	(Optional) Device role
data_glean	(Optional) Data glean
dest_glean	(Optional) Destination glean
glean_type	(Optional) Glean type
reachable_lifetime	(Optional) Reachable lifetime
stale_lifetime	(Optional) Stale lifetime
TABLE_non_glean_protocols	(Optional) Non Glean protocols
protocol	(Optional) Protocol
TABLE_glean_protocols	(Optional) Glean protocols
prefix_list	(Optional) Prefix list
limit_address_cnt	(Optional) Limit address count
limit_address_cnt_v4_per_mac	(Optional) Limit address count v4 per mac
limit_address_cnt_v6_per_mac	(Optional) Limit address count v6 per mac
limit_address_cnt_v4_per_target	(Optional) Limit address count v4 per target

tracking	(Optional) Tracking
TABLE_targets	(Optional) Targets table
target	(Optional) Target Name
target_type	(Optional) Target Type
target_policy	(Optional) Policy Name
feature	(Optional) Feature
target_range	(Optional) Target Range

Command Mode

- /exec

show ipv6 snooping pss database

show ipv6 snooping pss database [__readonly__ <cmdout>]

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
__readonly__	(Optional)
cmdout	(Optional)

Command Mode

- /exec

show ipv6 static-route

show ipv6 static-route [<prefix>] [multicast] [track-table] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [TABLE_vrf <vrf-name-out>] [TABLE_route [<prefix-out>] [<next-hop>] [<intf-name>] [<pref>] [<next-hop-vrf>] [<reslv-tid>] [<real-nh>] [<has-real-intf>] [<real-intf-name>] [<track-id>] [<track-status>] [<rnh-status>] [<bfd-status>]]]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
static-route	Display configured static routes
multicast	(Optional) Display configured static mroutes
track-table	(Optional) Display track object details associated with static routes
all	(Optional) Display all VRFs
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
vrf-name-out	(Optional) vrf name
TABLE_route	(Optional) Route table
intf-name	(Optional) interface name
pref	(Optional) interface prefix
next-hop-vrf	(Optional) next hop vrf
reslv-tid	(Optional) reslv tid
has-real-intf	(Optional) has real interface
real-intf-name	(Optional) real interface name
track-id	(Optional) interface track id
track-status	(Optional) interface track status
rnh-status	(Optional) interface rnh status
bfd-status	(Optional) interface bfd status

Command Mode

- /exec

show ipv6 traffic

show ipv6 traffic [detail] [vrf { <vrf-name> | <vrf-known-name> }] [__readonly__ [TABLE_vrf <vrf-name-out>] TABLE_ipv6_traffic <uptime> <upkt-fwd> <mpkt-fwd> <ubyte-fwd> <mbyte-fwd> <upkt-orig> <mpkt-orig> <ubyte-orig> <mbyte-orig> <upkt-consumed> <mpkt-consumed> <ubyte-consumed> <mbyte-consumed> <ufrag-orig> <mfra-orig> <ufrag-consumed> <mfrag-consumed> <bad-version> <rt-lookup-fail> <hoplimit-excd> <opt-header-error> <pld-length-too-small> <pm-failed> <mbuf-error> <could-not-enc> <dest-if-down> <rx-pkts-recv> <rx-bytes-recv> <rx-inhdrerrors> <rx-innoroutes> <rx-inaddrerrors> <rx-inunknownprotos> <rx-intruncatedpkts> <rx-inforwdgrams> <rx-reasmreqds> <rx-reasmoks> <rx-reasmfails> <rx-indiscards> <rx-indelivers> <rx-inmcastpkts> <rx-inmcastbytes> <tx-pkts-sent> <tx-bytes-sent> <tx-outrequests> <tx-outnoroutes> <tx-outforwdgrams> <tx-outdiscards> <tx-outfragreqds> <tx-outfragoks> <tx-outfragfails> <tx-outfragcreates> <tx-outtransmits> <tx-outmcastpkts> <tx-outmcastbytes>]

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
traffic	Display IPv6 traffic statistics
detail	(Optional) Display per protocol IPv6 statistics
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
__readonly__	(Optional)
TABLE_vrf	(Optional) VRF table
vrf-name-out	(Optional) vrf name
TABLE_ipv6_traffic	(Optional) ipv6 traffic table
uptime	(Optional) up time
upkt-fwd	(Optional) unicast packets forward
mpkt-fwd	(Optional) multicast packets forward
ubyte-fwd	(Optional) unicast byte forward
mbyte-fwd	(Optional) multicast byte forward
upkt-orig	(Optional) unicast packet origin
mpkt-orig	(Optional) multicast packet origin
ubyte-orig	(Optional) unicast byte origin

mbyte-orig	(Optional) multicast byte origin
upkt-consumed	(Optional) unicast packet consumed
mpkt-consumed	(Optional) multicast packet consumed
ubyte-consumed	(Optional) unicast byte consumed
mbyte-consumed	(Optional) multicast byte consumed
ufrag-orig	(Optional) unicast fragment origin
mfra-orig	(Optional) multicast fragment origin
ufrag-consumed	(Optional) unicast fragment consumed
mfrag-consumed	(Optional) multicast fragment consumed
bad-version	(Optional) bad version
rt-lookup-fail	(Optional) route lookup fail
hoplimit-excd	(Optional) hoplimit exceeded
opt-header-error	(Optional) opt header error
pld-length-too-small	(Optional) pld lenght too small
pm-failed	(Optional) packet manager failed
mbuf-error	(Optional) m-buffer error
could-not-enc	(Optional) could not encode
dest-if-down	(Optional) destination if down
rx-pkts-recv	(Optional) packets received
rx-bytes-recv	(Optional) bytes received
rx-inhdrerrors	(Optional) inhdr error
rx-innoroutes	(Optional) in-no routes
rx-inaddrerrors	(Optional) in-address error
rx-inunknownprotos	(Optional) in-unknown protocol
rx-intruncatedpkts	(Optional) in-truncated packets
rx-inforwdgrams	(Optional) in-forward
rx-reasmreqds	(Optional) reasm request
rx-reasmoks	(Optional) reasm ok
rx-reasmfails	(Optional) reasm fail

rx-indiscards	(Optional) in-discards
rx-indelivers	(Optional) in-delivers
rx-inmcastpkts	(Optional) in multicast packets
rx-inmcastbytes	(Optional) in multicast bytes
tx-pkts-sent	(Optional) packets sent
tx-bytes-sent	(Optional) bytes sent
tx-outrequests	(Optional) out request
tx-outnoroutes	(Optional) out no routes
tx-outforwdgrams	(Optional) out forwardgrams
tx-outdiscards	(Optional) out discards
tx-outfragreqds	(Optional) out fragment request
tx-outfragoks	(Optional) out fragment oks
tx-outfragfails	(Optional) out fragment fails
tx-outfragcreates	(Optional) out fragment creates
tx-outtransmits	(Optional) out transmits
tx-outmcastpkts	(Optional) out multicast packets
tx-outmcastbytes	(Optional) out multicast bytes

Command Mode

- /exec

show isis

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] [process | protocol] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_process_tag <process-tag-out> <instance_num> <uuid> <process-id> <vrf-name-out> <system-id-out> <is-type-out> <sap-out> <qh-out> <mtu-out> [<gr-status-out>] [<gr-state-active-out>] [<gr-state-inactive-out>] [<last-gr-status-fail-out>] [<last-gr-status-success-out>] [<last-gr-status-none-out>] [<gr-status-disable-out>] [TABLE_afi_safi <af-ix> <af-bfd-config> <af-pib-tag>] <metric-style> <accept-metric> [<net-set-none>] [TABLE_area_addr <area-addr-nsap>] [<proc-state-not-config>] [<proc-state-admin-down>] [<proc-state-l3vm-down>] [<proc-state-unknown-down>] [<proc-state-not-specified>] [<proc-state-no-net>] [<proc-state-no-vrf-id>] [<proc-state-out-memory>] [<proc-state-restart>] [<proc-state-running>] <vrf-id-out> [TABLE_te <te-lvl-out> <te-lvl-active>] [<te-ted-out>] [<mpls-te-out>] [TABLE_mpls_te [<mpls-te-lvl-out>] [<mpls-te-rtrid-intf-out>] [<mpls-te-fa-lvl-out>] [TABLE_te_fa <te-fa-sysid-out> <te-fa-intf-out>]] [<te-stat-sys-id-out>] [<te-stat-rtr-id-out>] [TABLE_te_stat_lvl <te-stat-lvl-out> <te-stat-up-out> <te-stat-down-out>] [<srte-registered-out>] [TABLE_segment_routing <af-out> <ptag-out> <cfg-out> <enable-out> [<exp-null-cfg>]] [TABLE_iib_list_yeild <intf-name-out>] [TABLE_auth <auth-lvl-out> [<auth-type-no-type>] [<auth-type-cleartext>] [<auth-type-md5>] [<auth-type-key-chain>] [<auth-type-none>] [<auth-check>] [<auth-no-check>]] [TABLE_spf <spf-lvl-out> [<spf-timer>]] [TABLE_distribute_ls <distribute-linkst-lvl>]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
process	(Optional) Display IS-IS process information
protocol	(Optional) Display IS-IS process information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
instance_num	(Optional)
uuid	(Optional)
process-id	(Optional)
vrf-name-out	(Optional)

system-id-out	(Optional)
is-type-out	(Optional)
sap-out	(Optional)
qh-out	(Optional)
mtu-out	(Optional)
gr-status-out	(Optional)
gr-state-active-out	(Optional)
gr-state-inactive-out	(Optional)
last-gr-status-fail-out	(Optional)
last-gr-status-success-out	(Optional)
last-gr-status-none-out	(Optional)
gr-status-disable-out	(Optional)
TABLE_afi_safi	(Optional)
af-ix	(Optional)
af-bfd-config	(Optional)
af-pib-tag	(Optional)
metric-style	(Optional)
accept-metric	(Optional)
net-set-none	(Optional)
TABLE_area_addr	(Optional)
area-addr-nsap	(Optional)
proc-state-not-config	(Optional)
proc-state-admin-down	(Optional)
proc-state-l3vm-down	(Optional)
proc-state-unknown-down	(Optional)
proc-state-not-specified	(Optional)
proc-state-no-net	(Optional)
proc-state-no-vrf-id	(Optional)
proc-state-out-memory	(Optional)

proc-state-restart	(Optional)
proc-state-running	(Optional)
vrf-id-out	(Optional)
TABLE_te	(Optional)
te-lvl-out	(Optional)
te-lvl-active	(Optional)
te-ted-out	(Optional)
mpls-te-out	(Optional)
TABLE_mpls_te	(Optional)
mpls-te-lvl-out	(Optional)
mpls-te-rtrid-intf-out	(Optional)
mpls-te-fa-lvl-out	(Optional)
TABLE_te_fa	(Optional)
te-fa-sysid-out	(Optional)
te-fa-intf-out	(Optional)
te-stat-sys-id-out	(Optional)
te-stat-rtr-id-out	(Optional)
TABLE_te_stat_lvl	(Optional)
te-stat-lvl-out	(Optional)
te-stat-up-out	(Optional)
te-stat-down-out	(Optional)
srte-registered-out	(Optional)
TABLE_segment_routing	(Optional)
af-out	(Optional)
ptag-out	(Optional)
cfg-out	(Optional)
enable-out	(Optional)
exp-null-cfg	(Optional)
TABLE_iib_list_yeild	(Optional)

intf-name-out	(Optional)
TABLE_auth	(Optional)
auth-lvl-out	(Optional)
auth-type-no-type	(Optional)
auth-type-cleartext	(Optional)
auth-type-md5	(Optional)
auth-type-key-chain	(Optional)
auth-type-none	(Optional)
auth-check	(Optional)
auth-no-check	(Optional)
TABLE_spf	(Optional)
spf-lvl-out	(Optional)
spf-timer	(Optional)
TABLE_distribute_ls	(Optional)
distribute-linkst-lvl	(Optional)

Command Mode

- /exec

show isis adjacency

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] adjacency [<interface> [p2p-level-1-2]] { [system-id <sid>] | [detail] | [summary] } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <adj-summary-out> <adj-interface-out> [<adj-interface-name-out>] [{ TABLE_process_adj <adj-sys-name-out> <adj-sys-id-out> [<adj-usage-out>] [<adj-level-out>] <adj-state-out> <adj-hold-time-out> <adj-intf-name-out> <adj-detail-set-out> [{ <adj-transitions-out> <adj-flap-out> [<adj-flap-time-out>] <adj-ckt-type-out> <adj-ipv4-addr-out> <adj-ipv6-addr-out> <adj-bcast-out> [{ <adj-ckt-id-out> <adj-lan-prio-out> }] <adj-bfd-ipv4-establish-out> <adj-bfd-ipv6-establish-out> <adj-resurrect-out> [{ <adj-resurrect-count-out> <adj-resurrect-hwm-out> }] <adj-restart-capable-out> <adj-restart-ack-out> [{ <adj-restart-mode-out> <adj-restart-adj-seen-ra-out> <adj-restart-adj-seen-csnp-out> <adj-restart-adj-seen-l1-csnp-out> <adj-restart-adj-seen-l2-csnp-out> <adj-restart-suppress-adj-out> }] [{ TABLE_adj_sid <adj-sid-value> <adj-sid-f-flag> <adj-sid-b-flag> <adj-sid-v-flag> <adj-sid-l-flag> <adj-sid-s-flag> <adj-sid-p-flag> <adj-sid-weight> }] }] }] [{ TABLE_p2p_adj_sum <adj-summ-p2p-level-out> <adj-summ-p2p-state-out> <adj-summ-p2p-count-out> }] [{ TABLE_lan_adj_sum <adj-summ-lan-level-out> <adj-summ-lan-state-out> <adj-summ-lan-count-out> }] } }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
adjacency	Display IS-IS adjacency information
interface	(Optional) IS-IS interface
system-id	(Optional) Hostname or System ID
sid	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
detail	(Optional) Display IS-IS adjacency detail information
p2p-level-1-2	(Optional) Display IS-IS point-to-point information at level-1-2
summary	(Optional) Display IS-IS adjacency summary information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)

TABLE_vrf	(Optional)
vrf-name-out	(Optional)
adj-summary-out	(Optional)
adj-interface-out	(Optional)
adj-interface-name-out	(Optional)
TABLE_process_adj	(Optional)
adj-sys-name-out	(Optional)
adj-sys-id-out	(Optional)
adj-usage-out	(Optional)
adj-level-out	(Optional)
adj-state-out	(Optional)
adj-hold-time-out	(Optional)
adj-intf-name-out	(Optional)
adj-detail-set-out	(Optional)
adj-transitions-out	(Optional)
adj-flap-out	(Optional)
adj-flap-time-out	(Optional)
adj-ckt-type-out	(Optional)
adj-ipv4-addr-out	(Optional)
adj-ipv6-addr-out	(Optional)
adj-bcast-out	(Optional)
adj-ckt-id-out	(Optional)
adj-lan-prio-out	(Optional)
adj-bfd-ipv4-establish-out	(Optional)
adj-bfd-ipv6-establish-out	(Optional)
adj-resurrect-out	(Optional)
adj-resurrect-count-out	(Optional)
adj-resurrect-hwm-out	(Optional)
adj-restart-capable-out	(Optional)

adj-restart-ack-out	(Optional)
adj-restart-mode-out	(Optional)
adj-restart-adj-seen-ra-out	(Optional)
adj-restart-adj-seen-csnp-out	(Optional)
adj-restart-adj-seen-l1-csnp-out	(Optional)
adj-restart-adj-seen-l2-csnp-out	(Optional)
adj-restart-suppress-adj-out	(Optional)
TABLE_adj_sid	(Optional)
adj-sid-value	(Optional)
adj-sid-f-flag	(Optional)
adj-sid-b-flag	(Optional)
adj-sid-v-flag	(Optional)
adj-sid-l-flag	(Optional)
adj-sid-s-flag	(Optional)
adj-sid-p-flag	(Optional)
adj-sid-weight	(Optional)
TABLE_p2p_adj_sum	(Optional)
adj-summ-p2p-level-out	(Optional)
adj-summ-p2p-state-out	(Optional)
adj-summ-p2p-count-out	(Optional)
TABLE_lan_adj_sum	(Optional)
adj-summ-lan-level-out	(Optional)
adj-summ-lan-state-out	(Optional)
adj-summ-lan-count-out	(Optional)

Command Mode

- /exec

show isis csnp

show isis [<isis-tag>] csnp [detail] [__readonly__ TABLE_process_tag <process-tag-out> [{ TABLE_CSNPLEVEL <csnp-level> <csnp-cache-valid> <csnp-cache-hit> <cscnp-cache-miss> <csnp-hit-rate> [{ TABLE_CSNPLSPS <csnp-start-lsp-id> <csnp-end-lsp-id> <csnp-entry-valid> <csnp-pdu-lengh> [{ TABLE_CSNPONELSP <csnp-lsp-id> <csnp-lsp-seq-num> <csnp-lsp-chk-sum> <csnp-lsp-life-time> }] }] }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
csnp	Display IS-IS CSNP cache contents
detail	(Optional) Display detailed IS-IS information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
TABLE_CSNPLEVEL	(Optional)
csnp-level	(Optional)
csnp-cache-valid	(Optional)
csnp-cache-hit	(Optional)
cscnp-cache-miss	(Optional)
csnp-hit-rate	(Optional)
TABLE_CSNPLSPS	(Optional)
csnp-start-lsp-id	(Optional)
csnp-end-lsp-id	(Optional)
csnp-entry-valid	(Optional)
csnp-pdu-lengh	(Optional)
TABLE_CSNPONELSP	(Optional)
csnp-lsp-id	(Optional)
csnp-lsp-seq-num	(Optional)
csnp-lsp-chk-sum	(Optional)

csnp-lsp-life-time	(Optional)

Command Mode

- /exec

show isis database

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] database [<level>] [detail | advertise | summary] [<lid>] { [zero-sequence] | [ip prefix <ip-prefix>] | [ipv6 prefix <ipv6-prefix>] | [router-id <rid>] | [adjacency <adj-id>] } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [<dbase-hname-absent-out>] [{ TABLE_process_lvl <dbase-level-out> [{ TABLE_process_lsp <dbase-lsp-name-out> <dbase-lsp-status-out> <dbase-lsp-absent-out> [{ <dbase-lsp-seqnum-out> <dbase-lsp-cksum-out> [<dbase-lsp-lifetime-str-out>] [<dbase-lsp-lifetime-out>] <dbase-att-out> <dbase-partition-out> <dbase-overload-out> <dbase-istype-out> }] [{ <dbase-lsp-instance-out> [{ TABLE_process_tlv <dbase-lsp-tlv-name-out> [<dbase-lsp-area-addr-out>] [<dbase-lsp-is-nbr-name-out>] [<dbase-lsp-is-nbr-metric-out>] [<dbase-lsp-is-nbr-ext-metric-out>] [<dbase-lsp-es-nbr-name-out>] [<dbase-lsp-es-nbr-metric-out>] [<dbase-lsp-es-nbr-ext-metric-out>] [<dbase-lsp-auth-type-out>] [<dbase-lsp-auth-len-out>] [{ TABLE_process_extis [<dbase-lsp-ext-is-name-out>] [<dbase-lsp-ext-is-metric-out>] }] [<dbase-lsp-ip-ri-addr-out>] [<dbase-lsp-ip-ri-mask-out>] [<dbase-lsp-ip-ri-metric-out>] [<dbase-lsp-ip-ri-ext-metric-out>] [<dbase-lsp-ip-ri-up-down-out>] [<dbase-lsp-cap-rtrid>] [<dbase-lsp-cap-flags>] [{ TABLE_process_nlpid <dbase-lsp-prot-support-out> }] [<dbase-lsp-ip-addr-out>] [<dbase-lsp-ipv6-addr-out>] [{ TABLE_process_extip <dbase-lsp-extip-addr-out> <dbase-lsp-extip-prefix-len-out> <dbase-lsp-extip-metric-out> <dbase-lsp-extip-up-down-out> [<dbase-lsp-extip-pfxsid>] [<dbase-lsp-extip-pfxsid-algo>] [<dbase-lsp-extip-pfxsid-flags>] [<dbase-lsp-extip-unknown-out>] }] [<dbase-lsp-hname-out>] [<dbase-lsp-hname-len-out>] [{ TABLE_process_extipv6 <dbase-lsp-extipv6-addr-out> <dbase-lsp-extipv6-prefix-len-out> <dbase-lsp-extipv6-metric-out> <dbase-lsp-extipv6-up-down-out> <dbase-lsp-extipv6-ext-origin-out> [<dbase-lsp-extipv6-pfxsid>] [<dbase-lsp-extipv6-pfxsid-algo>] [<dbase-lsp-extipv6-pfxsid-flags>] [<dbase-lsp-extipv6-unknown-out>] }] [{ TABLE_process_subtlv <dbase-lsp-subtlv-name-out> [<dbase-lsp-extis-admin-group-out>] [<dbase-lsp-subtlv-ip-addr-out>] [<dbase-lsp-extis-bw-out>] [<dbase-lsp-extis-pri1-out>] [<dbase-lsp-extis-pri1-val-out>] [<dbase-lsp-extis-pri2-out>] [<dbase-lsp-extis-pri2-val-out>] [<dbase-lsp-extis-te-metric-out>] [<dbase-lsp-extis-p2p-adjsid-out>] [<dbase-lsp-extis-p2p-adjsid-flags>] [<dbase-lsp-extis-p2p-adjsid-weight>] [<dbase-lsp-extis-lan-adjsid-out>] [<dbase-lsp-extis-lan-adjsid-sysid>] [<dbase-lsp-extis-lan-adjsid-flags>] [<dbase-lsp-extis-lan-adjsid-weight>] [<dbase-lsp-cap-subtlv-sr-start-sid>] [<dbase-lsp-cap-subtlv-sr-end-sid>] [<dbase-lsp-cap-subtlv-sr-range>] [<dbase-lsp-cap-subtlv-sr-flags>] [<dbase-lsp-subtlv-len-out>] [<dbase-lsp-subtlv-unknown-out>] }] [<dbase-lsp-tlv-len-out>] [<dbase-lsp-tlv-unknown-out>] }] <dbase-lsp-digest-out> }] }] [{ <dbase-lsp-total-out> [{ <dbase-lsp-empty-out> <dbase-lsp-zeroseq-out> }] }] } } }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
database	Display IS-IS database information

level	(Optional) IS-IS level
lid	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
detail	(Optional) Display detailed IS-IS information
advertise	(Optional) Display advertise tlv lsp-memory information
summary	(Optional) Display summary IS-IS information
zero-sequence	(Optional) LSP with zero sequence number
ip	(Optional) IP attribute filter
ipv6	(Optional) IPv6 attribute filter
prefix	(Optional) Prefix filter
ip-prefix	(Optional) Single exact match IP prefix filter
adjacency	(Optional) Adjacency filter
adj-id	(Optional) Single exact match adjacency filter
router-id	(Optional) Router-id filter
rid	(Optional) single exact match router-id filter
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
dbase-hname-absent-out	(Optional)
TABLE_process_lvl	(Optional)
dbase-level-out	(Optional)
TABLE_process_lsp	(Optional)
dbase-lsp-name-out	(Optional)
dbase-lsp-status-out	(Optional)
dbase-lsp-absent-out	(Optional)
dbase-lsp-seqnum-out	(Optional)
dbase-lsp-cksum-out	(Optional)
dbase-lsp-lifetime-str-out	(Optional)

dbase-lsp-lifetime-out	(Optional)
dbase-att-out	(Optional)
dbase-partition-out	(Optional)
dbase-overload-out	(Optional)
dbase-istype-out	(Optional)
dbase-lsp-instance-out	(Optional)
TABLE_process_tlv	(Optional)
dbase-lsp-tlv-name-out	(Optional)
dbase-lsp-area-addr-out	(Optional)
dbase-lsp-is-nbr-name-out	(Optional)
dbase-lsp-is-nbr-metric-out	(Optional)
dbase-lsp-is-nbr-ext-metric-out	(Optional)
dbase-lsp-es-nbr-name-out	(Optional)
dbase-lsp-es-nbr-metric-out	(Optional)
dbase-lsp-es-nbr-ext-metric-out	(Optional)
dbase-lsp-auth-type-out	(Optional)
dbase-lsp-auth-len-out	(Optional)
TABLE_process_extis	(Optional)
dbase-lsp-ext-is-name-out	(Optional)
dbase-lsp-ext-is-metric-out	(Optional)
dbase-lsp-ip-ri-addr-out	(Optional)
dbase-lsp-ip-ri-mask-out	(Optional)
dbase-lsp-ip-ri-metric-out	(Optional)
dbase-lsp-ip-ri-ext-metric-out	(Optional)
dbase-lsp-ip-ri-up-down-out	(Optional)
TABLE_process_nlpid	(Optional)
dbase-lsp-prot-support-out	(Optional)
dbase-lsp-ip-addr-out	(Optional)
dbase-lsp-ipv6-addr-out	(Optional)

TABLE_process_extip	(Optional)
dbase-lsp-extip-addr-out	(Optional)
dbase-lsp-extip-prefix-len-out	(Optional)
dbase-lsp-extip-metric-out	(Optional)
dbase-lsp-extip-up-down-out	(Optional)
dbase-lsp-extip-pfxsid	(Optional)
dbase-lsp-extip-pfxsid-algo	(Optional)
dbase-lsp-extip-pfxsid-flags	(Optional)
dbase-lsp-extip-unknown-out	(Optional)
dbase-lsp-hname-out	(Optional)
dbase-lsp-hname-len-out	(Optional)
TABLE_process_extipv6	(Optional)
dbase-lsp-extipv6-addr-out	(Optional)
dbase-lsp-extipv6-prefix-len-out	(Optional)
dbase-lsp-extipv6-metric-out	(Optional)
dbase-lsp-extipv6-up-down-out	(Optional)
dbase-lsp-extipv6-ext-origin-out	(Optional)
dbase-lsp-extipv6-pfxsid	(Optional)
dbase-lsp-extipv6-pfxsid-algo	(Optional)
dbase-lsp-extipv6-pfxsid-flags	(Optional)
dbase-lsp-extipv6-unknown-out	(Optional)
dbase-lsp-tlv-len-out	(Optional)
dbase-lsp-tlv-unknown-out	(Optional)
TABLE_process_subtlv	(Optional)
dbase-lsp-subtlv-name-out	(Optional)
dbase-lsp-extis-admin-group-out	(Optional)
dbase-lsp-subtlv-ip-addr-out	(Optional)
dbase-lsp-extis-bw-out	(Optional)
dbase-lsp-extis-pri1-out	(Optional)

dbase-lsp-extis-pri1-val-out	(Optional)
dbase-lsp-extis-pri2-out	(Optional)
dbase-lsp-extis-pri2-val-out	(Optional)
dbase-lsp-extis-te-metric-out	(Optional)
dbase-lsp-extis-p2p-adjsid-out	(Optional)
dbase-lsp-extis-p2p-adjsid-flags	(Optional)
dbase-lsp-extis-p2p-adjsid-weight	(Optional)
dbase-lsp-extis-lan-adjsid-out	(Optional)
dbase-lsp-extis-lan-adjsid-sysid	(Optional)
dbase-lsp-extis-lan-adjsid-flags	(Optional)
dbase-lsp-extis-lan-adjsid-weight	(Optional)
dbase-lsp-subtlv-len-out	(Optional)
dbase-lsp-subtlv-unknown-out	(Optional)
dbase-lsp-digest-out	(Optional)
dbase-lsp-total-out	(Optional)
dbase-lsp-empty-out	(Optional)
dbase-lsp-zeroseq-out	(Optional)
dbase-lsp-cap-rtrid	(Optional)
dbase-lsp-cap-flags	(Optional)
dbase-lsp-cap-subtlv-sr-start-sid	(Optional)
dbase-lsp-cap-subtlv-sr-end-sid	(Optional)
dbase-lsp-cap-subtlv-sr-range	(Optional)
dbase-lsp-cap-subtlv-sr-flags	(Optional)

Command Mode

- /exec

show isis distribute-ls

show isis [<isis-tag>] distribute-ls { [system-id <sid>] | [lsp-id <lid>] } [brief] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> <vrf-name-out> <vrf-id-out> <lslib-connection-out> <client-type-out> <protocol-instance-out> <nxos-instance-out> <ha-recovery-out> [<queue-all-out>] <update-timer-sec-out> <update-timer-msec-out> <update-timer-running-out> [<update-timer-due-in>] [{ TABLE_process_lvl <level-out> <level-distributing-out> [{ TABLE_ls_node [<node-id-out>] [<node-name-out>] [{ TABLE_ls_lsp <lsp-id-out> <lsp-name-out> <lsp-purged-out> [<node-grpid-out>] [<prefix-grpid-out>] [<link-grpid-out>] [<node-attr-bitfield-out>] [<node-flags-out>] [<attached-bit-out>] [<overloaded-bit-out>] [<area-id-out>] [<area-length-out>] [<name-out>] [<ipv4-id-out>] [{ TABLE_srgb <number-out> <start-out> <size-out> }] [<sr-algo-count-out>] [{ TABLE_sr_algo <algo-out> }] [{ TABLE_ls_link <nbr-node-out> <local-ip-out> <remote-ip-out> [<link-attr-bitfield-out>] [<metric-out>] [<local-ip-attr-out>] [<remote-ip-attr-out>] [<admin-group-out>] [<max-link-bw-out>] [<max-resv-bw-out>] [{ TABLE_unresv_bw <number-out> <bw-out> }] [<metric-te-out>] [{ TABLE_adj_sid <asid-out> <flag-out> <weight-out> }] }] [{ TABLE_ls_prefix <prefix-out> <prefix-len-out> [<prefix-attr-bitfield-out>] [<metric-out>] [{ TABLE_sid <sid-out> <algo-out> <flags-out> }] }] }] }] }] }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
distribute-ls	Link-state distribution database
system-id	(Optional) Hostname or System ID
sid	(Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX)
lsp-id	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
lid	(Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX
brief	(Optional) Short output
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
vrf-name-out	(Optional)

vrf-id-out	(Optional)
lslib-connection-out	(Optional)
client-type-out	(Optional)
protocol-instance-out	(Optional)
nxos-instance-out	(Optional)
ha-recovery-out	(Optional)
queue-all-out	(Optional)
update-timer-sec-out	(Optional)
update-timer-msec-out	(Optional)
update-timer-running-out	(Optional)
update-timer-due-in	(Optional)
TABLE_process_lvl	(Optional)
level-out	(Optional)
level-distributing-out	(Optional)
TABLE_ls_node	(Optional)
node-id-out	(Optional)
node-name-out	(Optional)
TABLE_ls_lsp	(Optional)
lsp-id-out	(Optional)
lsp-name-out	(Optional)
lsp-purged-out	(Optional)
node-grpid-out	(Optional)
prefix-grpid-out	(Optional)
link-grpid-out	(Optional)
node-attr-bitfield-out	(Optional)
node-flags-out	(Optional)
attached-bit-out	(Optional)
overloaded-bit-out	(Optional)
area-id-out	(Optional)

area-length-out	(Optional)
name-out	(Optional)
ipv4-id-out	(Optional)
TABLE_srgb	(Optional)
number-out	(Optional)
start-out	(Optional)
size-out	(Optional)
sr-algo-count-out	(Optional)
TABLE_sr_algo	(Optional)
algo-out	(Optional)
TABLE_ls_link	(Optional)
nbr-node-out	(Optional)
local-ip-out	(Optional)
remote-ip-out	(Optional)
link-attr-bitfield-out	(Optional)
metric-out	(Optional)
local-ip-attr-out	(Optional)
remote-ip-attr-out	(Optional)
admin-group-out	(Optional)
max-link-bw-out	(Optional)
max-resv-bw-out	(Optional)
TABLE_unresv_bw	(Optional)
number-out	(Optional)
bw-out	(Optional)
metric-te-out	(Optional)
TABLE_adj_sid	(Optional)
asid-out	(Optional)
flag-out	(Optional)
weight-out	(Optional)

TABLE_ls_prefix	(Optional)
prefix-out	(Optional)
prefix-len-out	(Optional)
prefix-attr-bitfield-out	(Optional)
metric-out	(Optional)
TABLE_sid	(Optional)
sid-out	(Optional)
algo-out	(Optional)
flags-out	(Optional)

Command Mode

- /exec

show isis dynamic-flooding

show isis [<isis-tag>] dynamic-flooding [tree-1 | tree-2] [detail] [__readonly__ [<df-process-tag-out>] [<df-vrf-name-out>] [{ TABLE_df_level [<df-level-out>] [<df-level-confg-out>] [<df-area-leader-cap-out>] [<df-area-leader-level-out>] [<df-algo-name-out>] [<df-algorithm-out>] [<df-priority-out>] [<df-primary-leader-level-out>] [<df-primary-leader-algo-name>] [<df-primary-leader-algo-out>] [<df-primary-leader-priority-out>] [<df-primary-leader-sysid-out>] [<df-secondary-leader-level-out>] [<df-secondary-leader-algo-name-out>] [<df-secondary-leader-algo-out>] [<df-secondary-leader-priority-out>] [<df-secondary-leader-sysid-out>] [<df-reach-matrix-level-out>] [{ TABLE_source_info [<df-reach-source-id-info>] [{ TABLE_neighbor_info [<df-reach-neighbor-id-out>] [<df-neighbor-overall-out>] [<df-neighbor-tree1-out>] [<df-neighbor-tree2-out>] [<df-neighbor-interface-id-out>] [<df-neighbor-name-out>] }] }] [{ TABLE_FT_interface_info [<df-ft-interface-name-out>] }] [{ TABLE_Temp_interface_info [<df-temp-ft-interface-name-out>] }] [{ TABLE_broadcast_interfaceinfo [<df-interface-name-out>] }] }]]

Syntax Description

show	Show running system information
isis	IS-IS events
isis-tag	(Optional) Routing process tag
dynamic-flooding	Display IS-IS information for Dynamic Flooding
tree-1	(Optional) Display dynamic-flooding information for tree-1
tree-2	(Optional) Display dynamic-flooding information for tree-2
detail	(Optional) Detail to show the Dynamic Flooding area leader
__readonly__	(Optional)
df-process-tag-out	(Optional)
df-vrf-name-out	(Optional)
TABLE_df_level	(Optional)
df-level-out	(Optional)
df-level-confg-out	(Optional)
df-area-leader-cap-out	(Optional)
df-area-leader-level-out	(Optional)
df-algo-name-out	(Optional)
df-algorithm-out	(Optional)
df-priority-out	(Optional)
df-primary-leader-level-out	(Optional)

df-primary-leader-algo-name	(Optional)
df-primary-leader-algo-out	(Optional)
df-primary-leader-priority-out	(Optional)
df-primary-leader-sysid-out	(Optional)
df-secondary-leader-level-out	(Optional)
df-secondary-leader-algo-name-out	(Optional)
df-secondary-leader-algo-out	(Optional)
df-secondary-leader-priority-out	(Optional)
df-secondary-leader-sysid-out	(Optional)
df-reach-matrix-level-out	(Optional)
TABLE_source_info	(Optional)
df-reach-source-id-info	(Optional)
TABLE_neighbor_info	(Optional)
df-reach-neighbor-id-out	(Optional)
df-neighbor-overall-out	(Optional)
df-neighbor-tree1-out	(Optional)
df-neighbor-tree2-out	(Optional)
df-neighbor-interface-id-out	(Optional)
df-neighbor-name-out	(Optional)
TABLE_FT_interface_info	(Optional)
df-ft-interface-name-out	(Optional)
TABLE_Temp_interface_info	(Optional)
df-temp-ft-interface-name-out	(Optional)
TABLE_broadcast_interfaceinfo	(Optional)
df-interface-name-out	(Optional)

Command Mode

- /exec

show isis event-history

show isis [<isis-tag>] [internal] event-history { errors | msgs | <isis-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
internal	(Optional) Commands for internal use
event-history	Display IS-IS event history
errors	Error history
msgs	Message history
isis-event-hist-buf-name	Event history buffer
statistics	Show the state and size of the buffer

Command Mode

- /exec

show isis hostname

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] { hostname | hostname-table } [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name-out> <tag-out> <hname-enabled-out> <hname-detail-out> [TABLE_hostname <hname-id-out> <hname-level-out> <hname-id-mine-out> <hname-name-out>]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
hostname	Display IS-IS hostname table information
hostname-table	Display IS-IS hostname table information
detail	(Optional) Display detailed IS-IS information
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
tag-out	(Optional)
hname-enabled-out	(Optional)
hname-detail-out	(Optional)
TABLE_hostname	(Optional)
hname-id-out	(Optional)
hname-level-out	(Optional)
hname-id-mine-out	(Optional)
hname-name-out	(Optional)

Command Mode

- /exec

show isis interface

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] interface [brief | <interface>] [level-1 | level-2] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [{ TABLE_interface [{ <intfb-name-out> <intfb-type-out> <intfb-ix-out> <intfb-state-out> <intfb-ready-state-out> <intfb-cid-out> <intfb-ckt-type-out> <intfb-mtu-out> [{ <intf-p2p-metric-lvl-1-out> <intf-p2p-metric-lvl-2-out> <intf-p2p-prio-lvl-1-out> <intf-p2p-prio-lvl-2-out> <intf-p2p-adj-count-lvl-1-out> <intf-p2p-adj-up-count-lvl-1-out> <intf-p2p-adj-count-lvl-2-out> <intf-p2p-adj-up-count-lvl-2-out> }] [{ <intf-loopback-metric-lvl-1-out> <intf-loopback-metric-lvl-2-out> <intf-loopback-prio-lvl-1-out> <intf-loopback-prio-lvl-2-out> <intf-loopback-adj-count-lvl-1-out> <intf-loopback-adj-up-count-lvl-1-out> <intf-loopback-adj-count-lvl-2-out> <intf-loopback-adj-up-count-lvl-2-out> }] [{ <intf-bcast-metric-lvl-1-out> <intf-bcast-metric-lvl-2-out> <intf-bcast-prio-lvl-1-out> <intf-bcast-prio-lvl-2-out> <intf-bcast-adj-count-lvl-1-out> <intf-bcast-adj-up-count-lvl-1-out> <intf-bcast-adj-count-lvl-2-out> <intf-bcast-adj-up-count-lvl-2-out> }] }] [{ <intf-name-out> <intf-status-out> }] [{ <intf-state-out> <intf-internal-state-out> [<intf-cib-disabled-out>] [<intf-cid-invalid-out>] }] [<intf-admin-group-out> <intf-admin-group-stale-out>] [{ TABLE_auth [{ <intf-auth-info-out> [<intf-auth-kchain-out>] <intf-auth-chk-info-out> }] }] [{ <intf-ix-out> <intf-cid-out> <intf-ckt-type-out> }] [{ TABLE_bfd [<intf-bfd-ipv4-state-out>] [<intf-bfd-ipv6-state-out>] }] [<intf-passive-mask-out>] [<intf-passive-mask-lvl-out>] [<intf-mgrp-set-out>] [<intf-mgrp-state-out>] [<intf-mgrp-id-out>] [<intf-p2p-type-out>] [{ <intf-p2p-ext-local-cid-out> <intf-p2p-cid-out> <intf-retx-intv-out> <intf-retx-throttle-out> }] [<intf-loopback-type-out>] [{ <intf-lsp-intv-out> <intf-mtu-out> [<intf-hpad-state-out>] }] [{ [<intf-p2p-pad-ts-out>] <intf-p2p-adj-count-out> <intf-p2p-adj-up-count-out> <intf-p2p-prio-out> <intf-p2p-hello-intv-out> <intf-p2p-hello-multi-out> <intf-p2p-hello-next-out> [{ TABLE_p2p <intf-p2p-lvl-out> <intf-p2p-adj-lvl-out> <intf-p2p-adj-up-lvl-out> <intf-p2p-metric-lvl-out> <intf-p2p-csnp-lvl-out> <intf-p2p-csnp-nxt-lvl-out> <intf-p2p-lspid-last-lvl-out> }] }] [{ <intf-bcast-type-out> [{ TABLE_bcast_pad [{ <intf-bcast-lvl-out> <intf-bcast-pad-ts-out> }] }] [{ TABLE_bcast_dis [{ <intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> }] }] [{ TABLE_bcast_pkt <intf-bcast-lvl-info-out> <intf-bcast-lvl-metric-0-out> <intf-bcast-lvl-metric-2-out> <intf-bcast-lvl-csnp-intv-out> <intf-bcast-lvl-csnp-next-out> <intf-bcast-lvl-iih-intv-out> <intf-bcast-lvl-iih-multi-out> <intf-bcast-lvl-iih-next-out> }] [{ TABLE_bcast_adj <intf-bcast-lvl-value-out> <intf-bcast-lvl-adj-out> <intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out> <intf-bcast-lvl-cktid-out> <intf-bcast-lvl-cktid-ts-out> }] }] [{ TABLE_loopback <intf-loopback-lvl-out> <intf-loopback-lvl-metric-out> }] [<intf-unknown-out>] }] } }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
brief	(Optional) Brief display of IS-IS interfaces

interface	Display IS-IS interface information
level-1	(Optional) Display Level-1 interfaces
level-2	(Optional) Display level-2 interfaces
interface	(Optional) IS-IS interface
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
TABLE_interface	(Optional)
intf-status-out	(Optional)
intf-name-out	(Optional)
intf-ix-out	(Optional)
intf-state-out	(Optional)
intf-cid-out	(Optional)
intf-ckt-type-out	(Optional)
intfb-name-out	(Optional)
intfb-type-out	(Optional)
intfb-ix-out	(Optional)
intfb-state-out	(Optional)
intfb-ready-state-out	(Optional)
intfb-cid-out	(Optional)
intfb-ckt-type-out	(Optional)
intf-p2p-metric-lvl-1-out	(Optional)
intf-p2p-metric-lvl-2-out	(Optional)
intf-p2p-prio-lvl-1-out	(Optional)
intf-p2p-prio-lvl-2-out	(Optional)
intf-p2p-adj-count-lvl-1-out	(Optional)
intf-p2p-adj-count-lvl-2-out	(Optional)

intf-p2p-adj-up-count-lvl-1-out	(Optional)
intf-p2p-adj-up-count-lvl-2-out	(Optional)
intf-loopback-metric-lvl-1-out	(Optional)
intf-loopback-metric-lvl-2-out	(Optional)
intf-loopback-prio-lvl-1-out	(Optional)
intf-loopback-prio-lvl-2-out	(Optional)
intf-loopback-adj-count-lvl-1-out	(Optional)
intf-loopback-adj-count-lvl-2-out	(Optional)
intf-loopback-adj-up-count-lvl-1-out	(Optional)
intf-loopback-adj-up-count-lvl-2-out	(Optional)
intf-bcast-metric-lvl-1-out	(Optional)
intf-bcast-metric-lvl-2-out	(Optional)
intf-bcast-prio-lvl-1-out	(Optional)
intf-bcast-prio-lvl-2-out	(Optional)
intf-bcast-adj-count-lvl-1-out	(Optional)
intf-bcast-adj-count-lvl-2-out	(Optional)
intf-bcast-adj-up-count-lvl-1-out	(Optional)
intf-bcast-adj-up-count-lvl-2-out	(Optional)
intf-internal-state-out	(Optional)
intf-cib-disabled-out	(Optional)
intf-cid-invalid-out	(Optional)
intf-admin-group-out	(Optional)
intf-admin-group-stale-out	(Optional)
TABLE_auth	(Optional)
intf-auth-info-out	(Optional)
intf-auth-kchain-out	(Optional)
intf-auth-chk-info-out	(Optional)
TABLE_bfd	(Optional)
intf-bfd-ipv4-state-out	(Optional)

intf-bfd-ipv6-state-out	(Optional)
intf-passive-mask-out	(Optional)
intf-passive-mask-lvl-out	(Optional)
intf-mgrp-set-out	(Optional)
intf-mgrp-state-out	(Optional)
intf-mgrp-id-out	(Optional)
intf-p2p-type-out	(Optional)
intf-p2p-ext-local-cid-out	(Optional)
intf-p2p-cid-out	(Optional)
intf-retx-intv-out	(Optional)
intf-retx-throttle-out	(Optional)
intf-loopback-type-out	(Optional)
intf-lsp-intv-out	(Optional)
intf-mtu-out	(Optional)
intfb-mtu-out	(Optional)
intf-hpad-state-out	(Optional)
intf-p2p-pad-ts-out	(Optional)
intf-p2p-adj-count-out	(Optional)
intf-p2p-adj-up-count-out	(Optional)
intf-p2p-prio-out	(Optional)
intf-p2p-hello-intv-out	(Optional)
intf-p2p-hello-multi-out	(Optional)
intf-p2p-hello-next-out	(Optional)
TABLE_p2p	(Optional)
intf-p2p-lvl-out	(Optional)
intf-p2p-adj-lvl-out	(Optional)
intf-p2p-adj-up-lvl-out	(Optional)
intf-p2p-metric-lvl-out	(Optional)
intf-p2p-csnp-lvl-out	(Optional)

intf-p2p-csnp-nxt-lvl-out	(Optional)
intf-p2p-lspid-last-lvl-out	(Optional)
intf-bcast-type-out	(Optional)
TABLE_bcast_pad	(Optional)
intf-bcast-lvl-out	(Optional)
intf-bcast-pad-ts-out	(Optional)
TABLE_bcast_dis	(Optional)
intf-bcast-lvl-dis-out	(Optional)
intf-bcast-dis-ts-out	(Optional)
TABLE_bcast_pkt	(Optional)
intf-bcast-lvl-info-out	(Optional)
intf-bcast-lvl-metric-0-out	(Optional)
intf-bcast-lvl-metric-2-out	(Optional)
intf-bcast-lvl-csnp-intv-out	(Optional)
intf-bcast-lvl-csnp-next-out	(Optional)
intf-bcast-lvl-iih-intv-out	(Optional)
intf-bcast-lvl-iih-multi-out	(Optional)
intf-bcast-lvl-iih-next-out	(Optional)
TABLE_bcast_adj	(Optional)
intf-bcast-lvl-value-out	(Optional)
intf-bcast-lvl-adj-out	(Optional)
intf-bcast-lvl-adj-up-out	(Optional)
intf-bcast-lvl-prio-out	(Optional)
intf-bcast-lvl-cktid-out	(Optional)
intf-bcast-lvl-cktid-ts-out	(Optional)
TABLE_loopback	(Optional)
intf-loopback-lvl-out	(Optional)
intf-loopback-lvl-metric-out	(Optional)
intf-unknown-out	(Optional)

Command Mode

- /exec

show isis ipv6 redistribute route

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] ipv6 redistribute route [topology { [base] | mt-ipv6 }] [summary | <ipv6-addr> | <ipv6-prefix> [longer-prefixes [summary]]] [direct-mask] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_process_tag <process-tag-out> <redist-route-ipv6-vrf> [<redist-route-ipv6-topo-id>] [<redist-route-ipv6-af-ix>] [{ TABLE_one_route <redist-route-ipv6-prefix> [<redist-route-ipv6-mask-len>] [<redist-route-ipv6-pib-name>] [<redist-route-ipv6-direct-mask>] [<redist-route-ipv6-route-type>] [{ TABLE_redist <redist-route-ipv6-status> <redist-route-ipv6-level> [<redist-route-ipv6-metric>] [<redist-route-ipv6-sum-addr-prefix>] [<redist-route-ipv6-sum-addr-mask-len>] }] }] [<redist-route-ipv6-summary-addr-prefix>] [<redist-route-ipv6-summary-addr-mask-len>] [<redist-route-ipv6-summary-route-total>] [{ TABLE_protocol <redist-route-ipv6-summary-pib-name> [<redist-route-ipv6-summary-prot-route-total>] }] [<redist-route-ipv6-summary-pending-total>] [{ TABLE_mask_len <redist-route-ipv6-summary-mask-len-ix> [<redist-route-ipv6-summary-mask-len>] }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ipv6	Display IS-IS IPv6 information
topology	(Optional) Display routes for a topology
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set
__readonly__	(Optional)
TABLE_process_tag	(Optional)

process-tag-out	(Optional)
redist-route-ipv6-vrf	(Optional)
redist-route-ipv6-topo-id	(Optional)
redist-route-ipv6-af-ix	(Optional)
TABLE_one_route	(Optional)
redist-route-ipv6-prefix	(Optional)
redist-route-ipv6-mask-len	(Optional)
redist-route-ipv6-pib-name	(Optional)
redist-route-ipv6-direct-mask	(Optional)
redist-route-ipv6-route-type	(Optional)
TABLE_redist	(Optional)
redist-route-ipv6-status	(Optional)
redist-route-ipv6-level	(Optional)
redist-route-ipv6-metric	(Optional)
redist-route-ipv6-sum-addr-prefix	(Optional)
redist-route-ipv6-sum-addr-mask-len	(Optional)
redist-route-ipv6-summary-addr-prefix	(Optional)
redist-route-ipv6-summary-addr-mask-len	(Optional)
redist-route-ipv6-summary-route-total	(Optional)
TABLE_protocol	(Optional)
redist-route-ipv6-summary-pib-name	(Optional)
redist-route-ipv6-summary-prot-route-total	(Optional)
redist-route-ipv6-summary-pending-total	(Optional)
TABLE_mask_len	(Optional)
redist-route-ipv6-summary-mask-len-ix	(Optional)
redist-route-ipv6-summary-mask-len	(Optional)

Command Mode

- /exec

show isis ipv6 route-map statistics

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] ipv6 route-map statistics { { redistribute { static | direct | amt | bgp <as> | { <src-isis> | eigrp | ospfv3 | rip } <tag> } } | { distribute <src-level> into <dst-level> } } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_process_tag [<process-tag-out>] [<route-map-stat-vrf>] [{ TABLE_process_route_map [<name>] [<action>] [<seq>] [{ TABLE_cmd [<str>] [<compare-count>] [<match-count>] }] <accept-count> <reject-count> }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Display IS-IS IPv6 information
route-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Protocol
src-isis	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
rip	RIP for IPv6 (RIPNG)
tag	Process tag
distribute	Distribute routes between ISIS levels
into	from level-n into level-m

src-level	Route-distribution between levels
dst-level	Route-distribution between levels
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
route-map-stat-vrf	(Optional)
TABLE_process_route_map	(Optional) Routemap table
name	(Optional) Route-map Name
action	(Optional) Route-map action
seq	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
str	(Optional) Route-map command
compare-count	(Optional) Number of comparisons
match-count	(Optional) Number of matches
accept-count	(Optional) Total number of packets accepted by the policy
reject-count	(Optional) Total number of pakcets rejected by the policy

Command Mode

- /exec

show isis ipv6 route

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] ipv6 route [topology { [base] | mt-ipv6 }] [summary | detail | private | <ipv6-addr> [detail | private] | <ipv6-prefix> [detail | private | longer-prefixes [summary | detail | private]]] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [<topo-id-out>] <afi-safi-out> [TABLE_prefix [<route-prefix-out> <route-mask-len-out> <route-level-out>] [<route-summ-discard-addr-out> <route-summ-discard-mask-len-out>] [<route-discard-addr-out> <route-discard-mask-len-out>] [<route-addr-print-out> <route-mask-len-print-out> <route-direct-print-out>] [TABLE_direct_path [<route-direct-out> <route-direct-via-out> <route-direct-if-name-out> <route-direct-metric-out> <route-direct-level-out>] [<route-direct-instance-out>]] [TABLE_best_path [<route-no-def-prefix-out>] [<route-def-prefix-out>] <route-addr-valid-out> <route-marker-out> <route-ifname-out> <route-metric-out> <route-pref-out> [<route-instance-out>]] [<route-discard-mask-out>] [[<route-sum-prefix-out> <route-sum-prefix-len-out>] <route-total-out> <route-paths-total-out> <route-paths-best-out> <route-paths-backup-out> [TABLE_sum_best_route <route-sum-lvl-out> <route-sum-total-out> [<route-sum-direct-out>] [<route-sum-normal-out>] [<route-sum-missing-out>]] [<route-best-pend-num-out>] <route-bestpaths-out> [TABLE_sum_best_path <route-path-sum-lvl-out> <route-path-sum-total-out> [<route-path-sum-direct-out>] [<route-path-sum-normal-out>]] <route-backuppaths-out> [TABLE_sum_backup_path <backup-path-sum-lvl-out> <backup-path-sum-total-out> [<backup-path-sum-direct-out>] [<backup-path-sum-normal-out>]] <route-bestroutes-per-mask-out> [TABLE_best_mask <route-best-mask-val-out> <route-best-mask-count-out>] [<route-pend-q-count-out>]]] } }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Display IS-IS IPv6 information
route	Display IS-IS route information
topology	(Optional) Display routes for a topology
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts

detail	(Optional) Display detail route information
private	(Optional) Show detail and internal information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
topo-id-out	(Optional)
afi-safi-out	(Optional)
TABLE_prefix	(Optional)
route-prefix-out	(Optional)
route-mask-len-out	(Optional)
route-level-out	(Optional)
route-summ-discard-addr-out	(Optional)
route-summ-discard-mask-len-out	(Optional)
route-discard-addr-out	(Optional)
route-discard-mask-len-out	(Optional)
route-addr-print-out	(Optional)
route-mask-len-print-out	(Optional)
route-direct-print-out	(Optional)
TABLE_direct_path	(Optional)
route-direct-out	(Optional)
route-direct-via-out	(Optional)
route-direct-if-name-out	(Optional)
route-direct-metric-out	(Optional)
route-direct-level-out	(Optional)
route-direct-instance-out	(Optional)
TABLE_best_path	(Optional)
route-no-def-prefix-out	(Optional)

route-def-prefix-out	(Optional)
route-addr-valid-out	(Optional)
route-marker-out	(Optional)
route-ifname-out	(Optional)
route-metric-out	(Optional)
route-pref-out	(Optional)
route-instance-out	(Optional)
route-discard-mask-out	(Optional)
route-sum-prefix-out	(Optional)
route-sum-prefix-len-out	(Optional)
route-total-out	(Optional)
route-paths-total-out	(Optional)
route-paths-best-out	(Optional)
route-paths-backup-out	(Optional)
TABLE_sum_best_route	(Optional)
route-sum-lvl-out	(Optional)
route-sum-total-out	(Optional)
route-sum-direct-out	(Optional)
route-sum-normal-out	(Optional)
route-sum-missing-out	(Optional)
route-best-pend-num-out	(Optional)
route-bestpaths-out	(Optional)
TABLE_sum_best_path	(Optional)
route-path-sum-lvl-out	(Optional)
route-path-sum-total-out	(Optional)
route-path-sum-direct-out	(Optional)
route-path-sum-normal-out	(Optional)
route-backuppaths-out	(Optional)
TABLE_sum_backup_path	(Optional)

backup-path-sum-lvl-out	(Optional)
backup-path-sum-total-out	(Optional)
backup-path-sum-direct-out	(Optional)
backup-path-sum-normal-out	(Optional)
route-bestroutes-per-mask-out	(Optional)
TABLE_best_mask	(Optional)
route-best-mask-val-out	(Optional)
route-best-mask-count-out	(Optional)
route-pend-q-count-out	(Optional)

Command Mode

- /exec

show isis ipv6 summary-address

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] ipv6 summary-address [<ipv6-addr> | <ipv6-prefix> [longer-prefixes]] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name-out> <tag-out> <afi-safi-out> [<addr-absent-out>] [{ TABLE_addr <sum-prefix-out> <mask-len-out> <level-out> [{ TABLE_lvl <addr-lvl-out> <addr-num-out> [<addr-metric-absent-out>] [<addr-metric-out>] [<addr-route-count-out>] }] }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Display IS-IS IPv6 information
summary-address	Display IS-IS summary address
longer-prefixes	(Optional) Display exact match and more specific summary address
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
tag-out	(Optional)
afi-safi-out	(Optional)
addr-absent-out	(Optional)
TABLE_addr	(Optional)
sum-prefix-out	(Optional)
mask-len-out	(Optional)
level-out	(Optional)
TABLE_lvl	(Optional)
addr-lvl-out	(Optional)
addr-num-out	(Optional)

addr-metric-absent-out	(Optional)
addr-metric-out	(Optional)
addr-route-count-out	(Optional)

Command Mode

- /exec

show isis lslib

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] lslib [cache [nodes | links | prefixes | node <s0> | link <s1> | prefix <s2> | links-of-node <s3> | prefixes-of-node <s4>] [detail]] [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
lslib	LSLIB client information
cache	(Optional) Link-state cache in LSLIB
nodes	(Optional) All Node objects
links	(Optional) All Link objects
prefixes	(Optional) All Prefix objects
node	(Optional) One node object information
s0	(Optional) Node information
link	(Optional) One link object information
s1	(Optional) Link information
prefix	(Optional) One prefix object information
s2	(Optional) Prefix information
links-of-node	(Optional) All links information of a node
s3	(Optional) Node information
prefixes-of-node	(Optional) All prefixes information of a node
s4	(Optional) Node information
detail	(Optional) Detailed info
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs

Command Mode

- /exec

show isis lsp free-list

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] { non-pseudonode | pseudonode { <interface> | orphan } } lsp free-list [summary] [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
interface	IS-IS interface
orphan	Display orphan LSP information
lsp	Display IS-IS LSP information
free-list	Display free-list information
summary	(Optional) Display LSP count per free-list

Command Mode

- /exec

show isis mesh-group

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] mesh-group [<mesh-id>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name-out> <tag-out> [<mesh-id-set-out>] [<mesh-id-invalid-out>] [<mesh-id-none-out>] [{ TABLE_meshid <mesh-set-id-out> [{ TABLE_if <mesh-id-intf-name-out> }] }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
mesh-group	Display IS-IS mesh-groups
mesh-id	(Optional) Display a single mesh-group
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
tag-out	(Optional)
mesh-id-set-out	(Optional)
mesh-id-invalid-out	(Optional)
mesh-id-none-out	(Optional)
TABLE_meshid	(Optional)
mesh-set-id-out	(Optional)
TABLE_if	(Optional)
mesh-id-intf-name-out	(Optional)

Command Mode

- /exec

show isis non tlv overflow-list

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] { non-pseudonode | pseudonode <interface> } tlv overflow-list [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
interface	IS-IS interface
tlv	Display IS-IS TLV information
overflow-list	Display ISIS TLV overflow-list information

Command Mode

- /exec

show isis redistribute route

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] [ip] redistribute route [summary | <ip-addr> | <ip-prefix> [longer-prefixes [summary]]] [direct-mask] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_process_tag <process-tag-out> <redist-route-vrf> [<redist-route-af-ix>] [{ TABLE_one_route <redist-route-prefix> [<redist-route-mask-len>] [<redist-route-pib-name>] [<redist-route-direct-mask>] [<redist-route-route-type>] [{ TABLE_redist <redist-route-status> <redist-route-level> [<redist-route-metric>] [<redist-route-sum-addr-prefix>] [<redist-route-sum-addr-mask-len>] }] }] [<redist-route-summary-addr-prefix>] [<redist-route-summary-addr-mask-len>] [<redist-route-summary-route-total>] [{ TABLE_protocol <redist-route-summary-pib-name> [<redist-route-summary-prot-route-total>] }] [<redist-route-summary-pending-total>] [{ TABLE_mask_len <redist-route-summary-mask-len-ix> [<redist-route-summary-mask-len>] }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
redistribute	Display IS-IS redistribute information
route	Display ISIS redistribute route
ip	(Optional) Display IS-IS IPv4 information
ip-addr	(Optional) Display single IP redistribute route
ip-prefix	(Optional) Display single exact match IP redistribute route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
direct-mask	(Optional) Display routes with direct-mask set
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
redist-route-vrf	(Optional)

redist-route-af-ix	(Optional)
TABLE_one_route	(Optional)
redist-route-prefix	(Optional)
redist-route-mask-len	(Optional)
redist-route-pib-name	(Optional)
redist-route-direct-mask	(Optional)
redist-route-route-type	(Optional)
TABLE_redist	(Optional)
redist-route-status	(Optional)
redist-route-level	(Optional)
redist-route-metric	(Optional)
redist-route-sum-addr-prefix	(Optional)
redist-route-sum-addr-mask-len	(Optional)
redist-route-summary-addr-prefix	(Optional)
redist-route-summary-addr-mask-len	(Optional)
redist-route-summary-route-total	(Optional)
TABLE_protocol	(Optional)
redist-route-summary-pib-name	(Optional)
redist-route-summary-prot-route-total	(Optional)
redist-route-summary-pending-total	(Optional)
TABLE_mask_len	(Optional)
redist-route-summary-mask-len-ix	(Optional)
redist-route-summary-mask-len	(Optional)

Command Mode

- /exec

show isis route-map statistics

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] [ip] route-map statistics { { redistribute { static | direct | amt | bgp <as> | { <src-isis> | eigrp | ospf | rip } <tag> } } | { distribute <src-level> into <dst-level> } } [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <route-map-stat-vrf> [{ TABLE_process_route_map [<name>] [<action>] [<seq>] [{ TABLE_cmd [<str>] [<compare-count>] [<match-count>] }] <accept-count> <reject-count> }] } }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
route-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Protocol
src-isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	RIP for IPv4
tag	Process tag
distribute	Distribute routes between ISIS levels

into	from level-n into level-m
src-level	Route-distribution between levels
dst-level	Route-distribution between levels
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
TABLE_vrf	(Optional)
route-map-stat-vrf	(Optional)
TABLE_process_route_map	(Optional) Routemap table
name	(Optional) Route-map Name
action	(Optional) Route-map action
seq	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
str	(Optional) Route-map command
compare-count	(Optional) Number of comparisons
match-count	(Optional) Number of matches
accept-count	(Optional) Total number of packets accepted by the policy
reject-count	(Optional) Total number of pakcets rejected by the policy

Command Mode

- /exec

show isis route

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] [ip] route [summary | detail | private | <ip-addr> [detail | private] | <ip-prefix> [detail | private | longer-prefixes [summary | detail | private]]] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <afi-safi-out> [TABLE_prefix [<route-prefix-out> <route-mask-len-out> <route-level-out>] [<route-summ-discard-addr-out> <route-summ-discard-mask-len-out>] [<route-discard-addr-out> <route-discard-mask-len-out>] [<route-addr-print-out> <route-mask-len-print-out> <route-direct-print-out>] [TABLE_direct_path [<route-direct-out> <route-direct-via-out> <route-direct-if-name-out> <route-direct-metric-out> <route-direct-level-out>] [<route-direct-instance-out>]] [TABLE_best_path [<route-no-def-prefix-out>] [<route-def-prefix-out>] <route-addr-valid-out> <route-marker-out> <route-ifname-out> <route-metric-out> <route-pref-out> [<route-instance-out>]] [<route-discard-mask-out>] [[<route-sum-prefix-out> <route-sum-prefix-len-out>] <route-total-out> <route-paths-total-out> <route-paths-best-out> <route-paths-backup-out> [TABLE_sum_best_route <route-sum-lvl-out> <route-sum-total-out> [<route-sum-direct-out>] [<route-sum-normal-out>] [<route-sum-missing-out>]] [<route-best-pend-num-out>] <route-bestpaths-out> [TABLE_sum_best_path <route-path-sum-lvl-out> <route-path-sum-total-out> [<route-path-sum-direct-out>] [<route-path-sum-normal-out>]] <route-backuppaths-out> [TABLE_sum_backup_path <backup-path-sum-lvl-out> <backup-path-sum-total-out> [<backup-path-sum-direct-out>] [<backup-path-sum-normal-out>]] <route-bestroutes-per-mask-out> [TABLE_best_mask <route-best-mask-val-out> <route-best-mask-count-out>] [<route-pend-q-count-out>]]] } }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
route	Display IS-IS route information
ip-addr	(Optional) Display single IP route
ip-prefix	(Optional) Display single exact match IP route
longer-prefixes	(Optional) Display exact match and more specific routes
summary	(Optional) Display route counts
detail	(Optional) Display detail route information
private	(Optional) Show detail and internal information

__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
afi-safi-out	(Optional)
TABLE_prefix	(Optional)
route-prefix-out	(Optional)
route-mask-len-out	(Optional)
route-level-out	(Optional)
route-summ-discard-addr-out	(Optional)
route-summ-discard-mask-len-out	(Optional)
route-discard-addr-out	(Optional)
route-discard-mask-len-out	(Optional)
route-addr-print-out	(Optional)
route-mask-len-print-out	(Optional)
route-direct-print-out	(Optional)
TABLE_direct_path	(Optional)
route-direct-out	(Optional)
route-direct-via-out	(Optional)
route-direct-if-name-out	(Optional)
route-direct-metric-out	(Optional)
route-direct-level-out	(Optional)
route-direct-instance-out	(Optional)
TABLE_best_path	(Optional)
route-no-def-prefix-out	(Optional)
route-def-prefix-out	(Optional)
route-addr-valid-out	(Optional)
route-marker-out	(Optional)

route-ifname-out	(Optional)
route-metric-out	(Optional)
route-pref-out	(Optional)
route-instance-out	(Optional)
route-discard-mask-out	(Optional)
route-sum-prefix-out	(Optional)
route-sum-prefix-len-out	(Optional)
route-total-out	(Optional)
route-paths-total-out	(Optional)
route-paths-best-out	(Optional)
route-paths-backup-out	(Optional)
TABLE_sum_best_route	(Optional)
route-sum-lvl-out	(Optional)
route-sum-total-out	(Optional)
route-sum-direct-out	(Optional)
route-sum-normal-out	(Optional)
route-sum-missing-out	(Optional)
route-best-pend-num-out	(Optional)
route-bestpaths-out	(Optional)
TABLE_sum_best_path	(Optional)
route-path-sum-lvl-out	(Optional)
route-path-sum-total-out	(Optional)
route-path-sum-direct-out	(Optional)
route-path-sum-normal-out	(Optional)
route-backuppaths-out	(Optional)
TABLE_sum_backup_path	(Optional)
backup-path-sum-lvl-out	(Optional)
backup-path-sum-total-out	(Optional)
backup-path-sum-direct-out	(Optional)

backup-path-sum-normal-out	(Optional)
route-bestroutes-per-mask-out	(Optional)
TABLE_best_mask	(Optional)
route-best-mask-val-out	(Optional)
route-best-mask-count-out	(Optional)
route-pend-q-count-out	(Optional)

Command Mode

- /exec

show isis rrm

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] rrm <interface> [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> <rrm-if-name> [{ TABLE_rrm <rrm-level> <rrm-retx-interval> <rrm-retx-throttle-interval> <rrm-retx-queue-length> <rrm-next-retx> <rrm-retx-queue-hwm> <rrm-retx-queue-limit> <rrm-retx-queue-exceed> <rrm-dbase-hdr> [<rrm-timestamp>] [<rrm-lsp-retx-instance>] [<rrm-lsp-db-instance>] [<rrm-rrm-set>] [<rrm-srm-set>] }] }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
rrm	Display IS-IS Retransmit-Routing-Message information
interface	IS-IS interface
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
rrm-if-name	(Optional)
TABLE_rrm	(Optional)
rrm-level	(Optional)
rrm-retx-interval	(Optional)
rrm-retx-throttle-interval	(Optional)
rrm-retx-queue-length	(Optional)
rrm-next-retx	(Optional)
rrm-retx-queue-hwm	(Optional)
rrm-retx-queue-limit	(Optional)
rrm-retx-queue-exceed	(Optional)

rrm-dbase-hdr	(Optional)
rrm-timestamp	(Optional)
rrm-lsp-retx-instance	(Optional)
rrm-lsp-db-instance	(Optional)
rrm-rrm-set	(Optional)
rrm-srm-set	(Optional)

Command Mode

- /exec

show isis segment-routing mapcache

show isis [<isis-tag>] segment-routing mapcache [level-1 | level-2] [<ipv4-prefix>] [sid <sr-sid>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <srmap-v4-state> <srmap-v6-state> [{ TABLE_srmap_level <srmap-level> [{ TABLE_srmap_pfxsid <srmap-pfxsid> <srmap-lsp-id> <srmap-pfxsid-valid> <srmap-pfxsid-flags> <srmap-prefix> }] }] } }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
segment-routing	show segment-routing information
mapcache	prefix-sid mappings
level-1	(Optional) show information for level 1 only
level-2	(Optional) show information for level 2 only
ipv4-prefix	(Optional) Display single exact match IP route
sid	(Optional) show information for this SR SID value
sr-sid	(Optional) SR SID value
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
srmap-v4-state	(Optional)
srmap-v6-state	(Optional)
TABLE_srmap_level	(Optional)
srmap-level	(Optional)

TABLE_srmap_pfxsid	(Optional)
srmap-pfxsid	(Optional)
srmap-lsp-id	(Optional)
srmap-pfxsid-valid	(Optional)
srmap-pfxsid-flags	(Optional)
srmap-prefix	(Optional)

Command Mode

- /exec

show isis segment-routing remote-srgb

show isis [<isis-tag>] segment-routing remote-srgb [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <sr-v4-state> <sr-v6-state> [{ TABLE_srgb_lsp <srgb-level> <srgb-lspid> <srgb-num-entries> <srgb-flags> [{ TABLE_srgb_label <srgb-start-label> <srgb-range> }] }] } }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
segment-routing	show segment-routing information
remote-srgb	remote SR ranges
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
sr-v4-state	(Optional)
sr-v6-state	(Optional)
TABLE_srgb_lsp	(Optional)
srgb-level	(Optional)
srgb-lspid	(Optional)
srgb-num-entries	(Optional)
srgb-flags	(Optional)
TABLE_srgb_label	(Optional)
srgb-start-label	(Optional)

srgb-range	(Optional)

Command Mode

- /exec

show isis segment-routing sids

show isis [<isis-tag>] segment-routing sids [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> <vrf-name-out> [{ TABLE_sr_sids <sr-sid> [<sr-prefix>] [<sr-local-flag>] [<sr-conflict-flag>] }] }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
segment-routing	show segment-routing information
sids	sid database
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
vrf-name-out	(Optional)
TABLE_sr_sids	(Optional)
sr-sid	(Optional)
sr-prefix	(Optional)
sr-local-flag	(Optional)
sr-conflict-flag	(Optional)

Command Mode

- /exec

show isis spf-log

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] spf-log [detail] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [{ TABLE_process_tag [<process-tag-out>] [<vrf-name-out>] [{ TABLE_topo [<topo-id-out>] [<spflog-calc-out>] [<spflog-size-out>] [<spflog-maxsize-out>] [{ TABLE_log_detail [<num-out>] [<ts-out>] [<date-out>] [{ TABLE_lvl_detail [<lvld-out>] [<instance-out>] [<init-ts-out>] [<ts-lvl-out>] }] [<ts-is-out>] [<ts-urib-out>] [<ts-elapsed-out>] [{ TABLE_lvl_second [<lvls-out>] [<spf-node-out>] [<spf-cnt-out>] [<changed-cnt-out>] [<spf-reason-out>] }] }] [{ TABLE_log_brief [<ago-time-out>] [{ TABLE_lvl [<lvl-out>] [<reason-out>] [<count-out>] }] [<elapsed-ts-out>] }] }] }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
spf-log	Display IS-IS SPF information
detail	(Optional) Display detail ISIS SPF information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
vrf-name-out	(Optional)
TABLE_topo	(Optional)
topo-id-out	(Optional)
spflog-calc-out	(Optional)
spflog-size-out	(Optional)
spflog-maxsize-out	(Optional)
TABLE_log_detail	(Optional)
num-out	(Optional)
ts-out	(Optional)

date-out	(Optional)
TABLE_lvl_detail	(Optional)
lvld-out	(Optional)
instance-out	(Optional)
init-ts-out	(Optional)
ts-lvl-out	(Optional)
ts-is-out	(Optional)
ts-urib-out	(Optional)
ts-elapsed-out	(Optional)
TABLE_lvl_second	(Optional)
lvls-out	(Optional)
spf-node-out	(Optional)
spf-cnt-out	(Optional)
changed-cnt-out	(Optional)
spf-reason-out	(Optional)
TABLE_log_brief	(Optional)
ago-time-out	(Optional)
TABLE_lvl	(Optional)
lvl-out	(Optional)
reason-out	(Optional)
count-out	(Optional)
elapsed-ts-out	(Optional)

Command Mode

- /exec

show isis srm

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] srm <interface> [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> <srm-if-name> [{ TABLE_srm <srm-level> <srm-if-eligible> <srm-if-not-on-srm-list> <srm-lsp-interval> <srm-next-lsp> <srm-dbase-hdr> }] }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
srm	Display IS-IS Send-Routing-Message information
interface	IS-IS interface
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
srm-if-name	(Optional)
TABLE_srm	(Optional)
srm-level	(Optional)
srm-if-eligible	(Optional)
srm-if-not-on-srm-list	(Optional)
srm-lsp-interval	(Optional)
srm-next-lsp	(Optional)
srm-dbase-hdr	(Optional)

Command Mode

- /exec

show isis ssn

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] ssn <interface> [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> <snn-if-name> [{ TABLE_ssn <snn-level> <snn-psnp-eligible> <snn-next-psnp> <snn-dbase_hdr> }] }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ssn	Display IS-IS Send-Sequence-Number information
interface	IS-IS interface
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
snn-if-name	(Optional)
TABLE_ssn	(Optional)
snn-level	(Optional)
snn-psnp-eligible	(Optional)
snn-next-psnp	(Optional)
snn-dbase_hdr	(Optional)

Command Mode

- /exec

show isis statistics

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] statistics [<interface>] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ [{ TABLE_interface_set [<stat-if-out>] [<process-tag-out>] [<vrf-name-out>] [<stat-if-name-out>] [<stat-spf-calc-out>] [<stat-lsp-sourced-out>] [<stat-lsp-refresh-out>] [<stat-lsp-purge-out>] [<stat-dis-elections-out>] }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
statistics	Display IS-IS protocol statistics
interface	(Optional) IS-IS interface
__readonly__	(Optional)
TABLE_interface_set	(Optional)
stat-if-out	(Optional)
process-tag-out	(Optional)
vrf-name-out	(Optional)
stat-if-name-out	(Optional)
stat-spf-calc-out	(Optional)
stat-lsp-sourced-out	(Optional)
stat-lsp-refresh-out	(Optional)
stat-lsp-purge-out	(Optional)
stat-dis-elections-out	(Optional)

Command Mode

- /exec

show isis summary-address

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] [ip] summary-address [<ip-addr> | <ip-prefix> [longer-prefixes]] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_vrf <vrf-name-out> <tag-out> <afi-safi-out> [<addr-absent-out>] [{ TABLE_addr <sum-prefix-out> <mask-len-out> <level-out> [{ TABLE_lvl <addr-lvl-out> <addr-num-out> [<addr-metric-absent-out>] [<addr-metric-out>] [<addr-route-count-out>] }] }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ip	(Optional) Display IS-IS IPv4 information
summary-address	Display IS-IS summary address
ip-addr	(Optional) Display single IP summary address
ip-prefix	(Optional) Display single exact match IP summary address
longer-prefixes	(Optional) Display exact match and more specific summary address
__readonly__	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
tag-out	(Optional)
afi-safi-out	(Optional)
addr-absent-out	(Optional)
TABLE_addr	(Optional)
sum-prefix-out	(Optional)
mask-len-out	(Optional)
level-out	(Optional)
TABLE_lvl	(Optional)

addr-lvl-out	(Optional)
addr-num-out	(Optional)
addr-metric-absent-out	(Optional)
addr-metric-out	(Optional)
addr-route-count-out	(Optional)

Command Mode

- /exec

show isis topology

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] topology [base | mt-ipv6] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ TABLE_process_tag <process-tag-out> <topology-vrf> <topo-id-out> [{ TABLE_LEVEL <topology-level> [{ TABLE_ONE_ROUTE <topology-one-route-node-name> [<topology-one-route-spf-instance>] [<topology-one-route-on-path>] [<topology-one-route-mt-id>] [{ TABLE_ONE_ROUTE_NH <topology-one-route-nh-system-name> [<topology-one-route-nh-if-name>] [<topology-one-route-nh-metric>] }] [{ TABLE_ONE_ROUTE_MBEST <topology-one-route-mbest-system-name> [<topology-one-route-mbest-if-name>] [<topology-one-route-mbest-metric>] }] }] [<topology-default-spf-instance>] [{ TABLE_NH <topology-nh-system-name> [<topology-nh-if-name>] [<topology-nh-metric>] }] [{ TABLE_MBEST <topology-mbest-system-name> [<topology-mbest-if-name>] [<topology-mbest-metric>] }] }]]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
topology	Display IS-IS Topology information
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
topology-vrf	(Optional)
topo-id-out	(Optional)
TABLE_LEVEL	(Optional)
topology-level	(Optional)
TABLE_ONE_ROUTE	(Optional)
topology-one-route-node-name	(Optional)
topology-one-route-spf-instance	(Optional)

topology-one-route-on-path	(Optional)
topology-one-route-mt-id	(Optional)
TABLE_ONE_ROUTE_NH	(Optional)
topology-one-route-nh-system-name	(Optional)
topology-one-route-nh-if-name	(Optional)
topology-one-route-nh-metric	(Optional)
TABLE_ONE_ROUTE_MBEST	(Optional)
topology-one-route-mbest-system-name	(Optional)
topology-one-route-mbest-if-name	(Optional)
topology-one-route-mbest-metric	(Optional)
topology-default-spf-instance	(Optional)
TABLE_NH	(Optional)
topology-nh-system-name	(Optional)
topology-nh-if-name	(Optional)
topology-nh-metric	(Optional)
TABLE_MBEST	(Optional)
topology-mbest-system-name	(Optional)
topology-mbest-if-name	(Optional)
topology-mbest-metric	(Optional)

Command Mode

- /exec

show isis traffic

show isis [<isis-tag>] [vrf { <vrf-name> | <vrf-known-name> | all }] traffic [<interface>] [mbuf-priority] [vrf { <vrf-name> | <vrf-known-name> | all }] [__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <traffic-if-out> [<traffic-if-name-out>] <traffic-lan-iih-out> <traffic-lan-iih-rcv-out> <traffic-lan-iih-xmit-out> <traffic-lan-iih-rcv-auth-err-out> <traffic-lan-iih-rcv-err-out> <traffic-p2p-iih-out> <traffic-p2p-iih-rcv-out> <traffic-p2p-iih-xmit-out> <traffic-p2p-iih-rcv-auth-err-out> <traffic-p2p-iih-rcv-err-out> <traffic-csnp-out> <traffic-csnp-rcv-out> <traffic-csnp-xmit-out> <traffic-csnp-rcv-auth-err-out> <traffic-csnp-rcv-err-out> <traffic-psnp-out> <traffic-psnp-rcv-out> <traffic-psnp-xmit-out> <traffic-psnp-rcv-auth-err-out> <traffic-psnp-rcv-err-out> <traffic-lsp-out> <traffic-lsp-rcv-out> <traffic-lsp-flood-out> <traffic-lsp-rcv-auth-err-out> <traffic-lsp-rcv-err-out> <traffic-lsp-rexmit-out> [<traffic-xmit-err-out>] [<traffic-unknown-pdu-rcv-out>] } }]

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
isis-tag	(Optional) Routing process tag
vrf	(Optional) Display per-VRF information
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
traffic	Display IS-IS traffic information
interface	(Optional) IS-IS interface
mbuf-priority	(Optional) Display mbuf priorities for received PDUs
__readonly__	(Optional)
TABLE_process_tag	(Optional)
process-tag-out	(Optional)
TABLE_vrf	(Optional)
vrf-name-out	(Optional)
traffic-if-out	(Optional)
traffic-if-name-out	(Optional)
traffic-lan-iih-out	(Optional)
traffic-lan-iih-rcv-out	(Optional)
traffic-lan-iih-xmit-out	(Optional)

traffic-lan-iih-rcv-auth-err-out	(Optional)
traffic-lan-iih-rcv-err-out	(Optional)
traffic-p2p-iih-out	(Optional)
traffic-p2p-iih-rcv-out	(Optional)
traffic-p2p-iih-xmit-out	(Optional)
traffic-p2p-iih-rcv-auth-err-out	(Optional)
traffic-p2p-iih-rcv-err-out	(Optional)
traffic-csnp-out	(Optional)
traffic-csnp-rcv-out	(Optional)
traffic-csnp-xmit-out	(Optional)
traffic-csnp-rcv-auth-err-out	(Optional)
traffic-csnp-rcv-err-out	(Optional)
traffic-psnp-out	(Optional)
traffic-psnp-rcv-out	(Optional)
traffic-psnp-xmit-out	(Optional)
traffic-psnp-rcv-auth-err-out	(Optional)
traffic-psnp-rcv-err-out	(Optional)
traffic-lsp-out	(Optional)
traffic-lsp-rcv-out	(Optional)
traffic-lsp-flood-out	(Optional)
traffic-lsp-rcv-auth-err-out	(Optional)
traffic-lsp-rcv-err-out	(Optional)
traffic-lsp-rexmit-out	(Optional)
traffic-xmit-err-out	(Optional)
traffic-unknown-pdu-rcv-out	(Optional)

Command Mode

- /exec

show itd

show itd [<svc-name>] [brief] [__readonly__ <is_detail> [TABLE_summary <is_active> <service_name> <is_include_acl> <probe> <lb_scheme> <state> <buckets> [<interface_num>] [<interface>] [TABLE_interface <interface_grp>] [<reason>] [<src_interface>] [<vrf_name>] [<excludeACL>] [<peer_status>] [TABLE_device <device_grp> <dg_probe> <dg_probe_port>] [<is_firstentry_routemap>] [TABLE_route_map [<route_map>] [TABLE_rmap_interface [<r_interface>] [<r_status>] [<int_track_id>]]] [TABLE_vip [<vip_acl_key>] [<vip_probe>] [<vip_port>] [<ace_buckets>] [<vip_dgname>] [<is_firstentry_vip_node>] [TABLE_vip_node <is_vip_node_ipv6> <vip_node> <vip_config> <vip_weight> <vip_node_probe> <vip_node_probe_port> <vip_node_probe_ip> <vip_status> <vip_track_id> <vip_ip_sla_id> [<is_firstentry_standby>] [TABLE_vip_standby <is_standby_vip_node_ipv6> <vip_standby_ip> <vip_standby_config> <vip_standby_weight> <vip_standby_probe> <vip_standby_probe_port> <vip_standby_probe_ip> <vip_standby_status> <vip_standby_track_id> <vip_standby_sla_id>] [<is_firstentry_acl>] [TABLE_vip_acl [<vip_access_list>]]]] [<is_firstentry>] [TABLE_node <is_node_ipv6> <node> <config> <weight> <node_probe> <node_probe_port> <node_probe_ip> <status> <track_id> <ip_sla_id> [<is_first_def_stdby>] [TABLE_standby <is_standby_node_ipv6> <standby_ip> <standby_config> <standby_weight> <standby_probe> <standby_probe_port> <standby_probe_ip> <standby_status> <standby_track_id> <standby_sla_id>] [<is_first_defdg_acl>] [TABLE_acl [<access_list>]]]] [<is_lastentry>]]

Syntax Description

show	Show running system information
itd	ITD service
svc-name	(Optional) ITD service name
brief	(Optional) brief
__readonly__	(Optional) Read Only
is_firstentry	(Optional) First entry
is_firstentry_vip_node	(Optional) First VIP node entry
is_detail	(Optional) In detail
is_active	(Optional) Is active
is_firstentry_routemap	(Optional) Is first route-map entry
is_firstentry_acl	(Optional) Is first acl entry
is_firstentry_standby	(Optional) Is first standby entry
is_include_acl	(Optional) Is include acl
is_first_defdg_acl	(Optional) Is first default dg acl
TABLE_summary	(Optional)
service_name	(Optional) service_name

probe	(Optional) probe
lb_scheme	(Optional) lb scheme
interface_num	(Optional) Number of ingress interfaces
interface	(Optional) interface
TABLE_interface	(Optional)
interface_grp	(Optional) interface_grp
src_interface	(Optional) source interface for probe
state	(Optional) state
buckets	(Optional) buckets
reason	(Optional) inactive reason
vrf_name	(Optional) VRF-Name
excludeACL	(Optional) exclude access-list
peer_status	(Optional) peer status
TABLE_device	(Optional)
device_grp	(Optional) service device group
dg_probe	(Optional) probe type
dg_probe_port	(Optional) probe port
TABLE_route_map	(Optional)
route_map	(Optional) service route map
TABLE_rmap_interface	(Optional)
r_interface	(Optional) interface
r_status	(Optional) route map status
int_track_id	(Optional) interface track id
TABLE_vip	(Optional)
vip_acl_key	(Optional) vip ip or acl name
vip_probe	(Optional) vip protocol
vip_port	(Optional) vip port
vip_dgname	(Optional) vip device group
ace_buckets	(Optional) ace active buckets

TABLE_vip_node	(Optional)
is_vip_node_ipv6	(Optional) is node ipv6
vip_node	(Optional) service node ip
vip_config	(Optional) node config
vip_weight	(Optional) node weight
vip_status	(Optional) node status
vip_node_probe	(Optional) node probe type
vip_node_probe_port	(Optional) node probe port
vip_node_probe_ip	(Optional) node probe ip
vip_track_id	(Optional) node track id
vip_ip_sla_id	(Optional) node ip sla id
TABLE_vip_standby	(Optional)
is_standby_vip_node_ipv6	(Optional) is standby node ipv6
vip_standby_ip	(Optional) standby node ip
vip_standby_config	(Optional) standby node config
vip_standby_weight	(Optional) standby node weight
vip_standby_status	(Optional) standby node status
vip_standby_probe	(Optional) standby node probe type
vip_standby_probe_port	(Optional) standby node probe port
vip_standby_probe_ip	(Optional) standby node probe ip
vip_standby_track_id	(Optional) standby node track id
vip_standby_sla_id	(Optional) standby node sla id
TABLE_vip_acl	(Optional)
vip_access_list	(Optional) access list
TABLE_node	(Optional)
is_node_ipv6	(Optional) is node ipv6
node	(Optional) service node ip
config	(Optional) node config
weight	(Optional) node weight

status	(Optional) node status
node_probe	(Optional) node probe type
node_probe_port	(Optional) node probe port
node_probe_ip	(Optional) node probe ip
track_id	(Optional) node track id
ip_sla_id	(Optional) node ip sla id
is_first_def_stdby	(Optional) first default dg standby
TABLE_standby	(Optional)
is_standby_node_ipv6	(Optional) is standby node ipv6
standby_ip	(Optional) standby node ip
standby_config	(Optional) standby node config
standby_weight	(Optional) standby node weight
standby_status	(Optional) standby node status
standby_probe	(Optional) standby node probe type
standby_probe_port	(Optional) standby node probe port
standby_probe_ip	(Optional) standby node probe ip
standby_track_id	(Optional) standby node track id
standby_sla_id	(Optional) standby node sla id
TABLE_acl	(Optional)
access_list	(Optional) access list
is_lastentry	(Optional) last entry

Command Mode

- /exec

show itd session device-group

show itd session device-group [<name>] [__readonly__ <first_entry> [TABLE_svc <node>]]

Syntax Description

show	Show running system information
itd	ITD service
session	ITD service session
device-group	ITD service session device-group
name	(Optional) ITD Service session name
__readonly__	(Optional) Read Only
first_entry	(Optional)
TABLE_svc	(Optional)
node	(Optional) node

Command Mode

- /exec

show itd statistics

show itd { <svc-name> | all } [{ src { <src-ip> | <src-IPv6> } } | { dst { <dst-ip> | <dst-IPv6> } }] statistics [brief] [__readonly__ [TABLE_nice [<is_for_ace>] <service_name> <dev_grp> [<vip>] [<ace_seq>] [<ace_ip>] <vip_pkt> <percentage> [TABLE_node <node_num> [TABLE_bucket <bucket_acl> <node> <mode> <orig_node> <acl_pkt> <bucket_per>]]]]

Syntax Description

show	Show running system information
__readonly__	(Optional) Read Only
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
svc-name	ITD service name
all	All ITD services
src	(Optional) Statistics for src ip
src-ip	(Optional) Provide statistics for src ip
dst	(Optional) Statistics for dst ip
dst-ip	(Optional) Provide statistics for dst ip
TABLE_nice	(Optional)
is_for_ace	(Optional)
service_name	(Optional) ITD service name
dev_grp	(Optional) device group
vip	(Optional) service virtual ip
ace_seq	(Optional) service ACE name and sequence number
ace_ip	(Optional) service ACE ip/mask/prefix
vip_pkt	(Optional) virtual ip pkt_count
percentage	(Optional) Packet percentage
TABLE_node	(Optional)
node_num	(Optional) Node number
TABLE_bucket	(Optional)

bucket_acl	(Optional) access list
node	(Optional) service node ip
mode	(Optional) Redirect mode
orig_node	(Optional) original node ip
acl_pkt	(Optional) acl pkt count
bucket_per	(Optional) Packet percentage

Command Mode

- /exec

show itd vrf

show itd vrf [<name>] [__readonly__ <first_entry> [TABLE_svc <service_name> <vrf_name> <vrf_id>]]

Syntax Description

show	Show running system information
itd	ITD service
vrf	ITD service vrf
name	(Optional) ITD Service VRF name
__readonly__	(Optional) Read Only
first_entry	(Optional)
TABLE_svc	(Optional)
service_name	(Optional) itd service name
vrf_name	(Optional) vrf name
vrf_id	(Optional) vrf id

Command Mode

- /exec