



## R Show Commands

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# show radius-cfs

```
show radius-cfs [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_db> ] [ <merge_status> ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
radius-cfs	Show radius cfs state
<i>__readonly__</i>	(Optional)
<i>distr_status</i>	(Optional) radius distribution status
<i>session_status</i>	(Optional) current session status
<i>session_db</i>	(Optional) status of session db
<i>merge_status</i>	(Optional) radius merge status

## Command Mode

- /exec

## show radius-server

```
show radius-server [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> } [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] [ { <host0> <auth_port> <acct_port> <shared_key>
<idle_time><test_username> <test_password> } + ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>retransmissionCount</i>	(Optional) Retransmission count when there is no server response
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Radius global source interface
<i>global_idle_time</i>	(Optional) Radius global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of radius servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>auth_port</i>	(Optional) Authentication port used for this server
<i>acct_port</i>	(Optional) Accounting Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>retries</i>	(Optional) Retry count for individual servers
<i>host0</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) RADIUS server's port for authentication
<i>acct_port</i>	(Optional) RADIUS server's port for accounting

---

*shared\_key* (Optional) RADIUS shared secret

---

*test\_password* (Optional) User password in test packets

---

**Command Mode**

- /exec

# show radius-server

```
show radius-server { <host0> } [ __readonly__ { <host1> } <auth_port> <acct_port> <shared_key>
<idle_time><test_username> <test_password> ]
```

## Syntax Description

Syntax	Description
show	Show running system information
radius-server	Show RADIUS configuration information
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>host1</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) RADIUS server's port for authentication
<i>acct_port</i>	(Optional) RADIUS server's port for accounting
<i>shared_key</i>	(Optional) RADIUS shared secret
<i>test_password</i>	(Optional) User password in test packets

## Command Mode

- /exec



# show radius-server directed-request

```
show radius-server directed-request [ __readonly__ { <radius_directedRequest_status> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
radius-server		Show RADIUS configuration information
directed-request		Show directed server enable configuration
__readonly__		(Optional)
<i>radius_directedRequest_status</i>		(Optional) status of radius-server directed request

## Command Mode

- /exec

# show radius-server groups

```
show radius-server groups [ <s0> ] [ __readonly__ [ <num_of_groups> ] TABLE_group <group_name> [
TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ] ] [ <dead_time> ] [ <vrf_name> ] [
<source_interface> ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
groups	Show RADIUS server group configuration information
<i>s0</i>	(Optional) RADIUS server group name
<i>__readonly__</i>	(Optional)
<i>num_of_groups</i>	(Optional) number of groups
<i>TABLE_group</i>	(Optional)
<i>group_name</i>	(Optional) name of the group
<i>TABLE_server</i>	(Optional)
<i>server_ip</i>	(Optional) DNS name or IP address
<i>auth_port</i>	(Optional) radius server authentication port
<i>acct_port</i>	(Optional) radius server accounting port
<i>dead_time</i>	(Optional) Time interval for which the server is marked as dead before sending a test command
<i>vrf_name</i>	(Optional) name of the vrf
<i>source_interface</i>	(Optional) Interface Description

## Command Mode

- /exec

## show radius-server sorted

```
show radius-server sorted [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> } [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
sorted	Show RADIUS servers sorted by name
<i>__readonly__</i>	(Optional)
<i>global_secretKey</i>	(Optional) Global shared secret
<i>global_timeout</i>	(Optional) Global timeout for tacacs
<i>retransmissionCount</i>	(Optional) Retransmission count when there is no server response
<i>global_deadtime</i>	(Optional) Global deadtime
<i>global_source_intf</i>	(Optional) Radius global source interface
<i>global_idle_time</i>	(Optional) Radius global idle-time for server monitoring
<i>global_testUsername</i>	(Optional) Username of global test parameters
<i>global_testPassword</i>	(Optional) Password of global test parameters
<i>server_count</i>	(Optional) Total number of radius servers configured
TABLE_server	(Optional)
<i>server_ip</i>	(Optional) Ip address of the server
<i>auth_port</i>	(Optional) Authentication port used for this server
<i>acct_port</i>	(Optional) Accounting Port used for this server
<i>secretKey</i>	(Optional) Shared secret between the server and the tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs server
<i>retries</i>	(Optional) Retry count for individual servers

### Command Mode

- /exec

## show radius-server statistics

```
show radius-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } } ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
radius-server	Show RADIUS configuration information
statistics	Show RADIUS statistics
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>server_state</i>	(Optional) Show state of server
<i>clock_time</i>	(Optional) Show clock time in terms of hours, minutes and seconds
monitoring_statistics	(Optional) Monitoring Statistics
<i>time_in_pstate</i>	(Optional) Time in previous state
<i>ndead</i>	(Optional) Number of times dead
<i>tt_in_dstate</i>	(Optional) Total time in dead state
auth_statistics	(Optional) Authentication Statistics
acct_statistics	(Optional) Accounting Statistics
<i>auth_failed_transactions</i>	(Optional) Authentication: Failed transactions
<i>auth_succ_transactions</i>	(Optional) Authentication: Successful transactions
<i>auth_req_sent</i>	(Optional) Authentication: Requests sent
<i>auth_req_timedout</i>	(Optional) Authentication: Requests timedout
<i>auth_resp_no_match</i>	(Optional) Authentication: Responses with no matching requests
<i>auth_resp_not_processed</i>	(Optional) Authentication: Responses not processed
<i>auth_resp_error</i>	(Optional) Authentication: Responses containing errors
<i>acct_failed_transactions</i>	(Optional) Accounting: Failed transactions
<i>acct_succ_transactions</i>	(Optional) Accounting: Successful transactions

---

<i>acct_req_sent</i>	(Optional) Accounting: Requests sent
<i>acct_req_timedout</i>	(Optional) Accounting: Requests timedout
<i>acct_resp_no_match</i>	(Optional) Accounting: Responses with no matching requests
<i>acct_resp_not_processed</i>	(Optional) Accounting: Responses not processed
<i>acct_resp_error</i>	(Optional) Accounting: Responses containing errors

---

**Command Mode**

- /exec

# show radius status

```
show radius status [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_owner> ] [ <session_db> ] [ <last_operation> ] [ <last_operation_status> ] [ <fail_code> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
radius		Show RADIUS Information
status		Show RADIUS cfs distribution status
<i>__readonly__</i>		(Optional)
<i>distr_status</i>		(Optional) radius distribution status
<i>session_status</i>		(Optional) current session status
<i>session_owner</i>		(Optional) owner of the current distribution session
<i>session_db</i>		(Optional) status of session db
<i>last_operation</i>		(Optional) last_operation
<i>last_operation_status</i>		(Optional) status of the last operation
<i>fail_code</i>		(Optional) reason for the failure of last operation

## Command Mode

- /exec

## show redundancy status

```
show redundancy status [ __readonly__ <rmode_admin> <rmode_opr> <this_sup> <this_sup_rd_st>
<this_sup_sup_st> <this_sup_int_st> <oth_sup> <oth_sup_rd_st> <oth_sup_sup_st> <oth_sup_int_st>
<sys_strt_time> <sys_uptm_days> <sys_uptm_hrs> <sys_uptm_mins> <sys_uptm_secs> <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> <asup_uptm_days> <asup_uptm_hrs>
<asup_uptm_mins> <asup_uptm_secs> ]
```

### Syntax Description

Syntax Description	show
redundancy	Show system redundancy status
status	Current redundancy status
<i>__readonly__</i>	(Optional)
<i>rmode_admin</i>	(Optional)
<i>rmode_opr</i>	(Optional)
<i>this_sup</i>	(Optional)
<i>this_sup_rd_st</i>	(Optional)
<i>this_sup_sup_st</i>	(Optional)
<i>this_sup_int_st</i>	(Optional)
<i>oth_sup</i>	(Optional)
<i>oth_sup_rd_st</i>	(Optional)
<i>oth_sup_sup_st</i>	(Optional)
<i>oth_sup_int_st</i>	(Optional)
<i>sys_strt_time</i>	(Optional)
<i>sys_uptm_days</i>	(Optional)
<i>sys_uptm_hrs</i>	(Optional)
<i>sys_uptm_mins</i>	(Optional)
<i>sys_uptm_secs</i>	(Optional)
<i>kern_uptm_days</i>	(Optional)
<i>kern_uptm_hrs</i>	(Optional)
<i>kern_uptm_mins</i>	(Optional)

---

*kern\_uptime\_secs* (Optional)

---

*asup\_uptime\_days* (Optional)

---

*asup\_uptime\_hrs* (Optional)

---

*asup\_uptime\_mins* (Optional)

---

*asup\_uptime\_secs* (Optional)

---

### Command Mode

- /exec



# show regexp

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

## Syntax Description

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
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	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	Display BGP information for all address families
	regexp	Display routes matching the AS path regular expression
	<i>regexp-str</i>	Regular expression to match the AS paths

## Command Mode

- /exec

# show resource

```
show resource [ <res-mgr-res-known-name> ] [ hidden-too | with-flags ] [ __readonly__ {
TABLE_vdc_resource_local <res_name> <min> <max> <used> <unused> <free> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
resource		Show resource configuration for VDC
<i>res-mgr-res-known-name</i>	(Optional)	Resource name
hidden-too	(Optional)	Also show hidden resources
with-flags	(Optional)	Also show resource flags
<i>__readonly__</i>	(Optional)	Read Only
TABLE_vdc_resource_local	(Optional)	
<i>res_name</i>	(Optional)	Resource Name
<i>min</i>	(Optional)	Resource min configuration
<i>max</i>	(Optional)	Resource max configuration
<i>used</i>	(Optional)	Resource current usage for this VDC
<i>unused</i>	(Optional)	Resource reserved for this VDC but currently not used
<i>free</i>	(Optional)	Resource current free for this VDC

## Command Mode

- /exec

# show resource internal event-history errors

show resource internal event-history errors

## Syntax Description

Syntax Description		
show		Show running system information
resource		Show resource configuration for VDC
internal		Show internal res_mgr information
event-history		Show various event logs of Res_mgrs
errors		Show error logs of RES_MGR

## Command Mode

- /exec

# show resource internal event-history msgs

show resource internal event-history msgs

## Syntax Description

Syntax Description		
show		Show running system information
resource		Show resource configuration for VDC
internal		Show internal res_mgr information
event-history		Show various event logs of Res_mgrs
msgs		Show various message logs of RES_MGR

## Command Mode

- /exec

## show resource internal info

```
show [ vdc ] resource internal info [ { resource [ <res-mgr-res-known-name-all> [ vdc <vdc_id> ] ] } ]
```

### Syntax Description

Syntax Description		
show		Show running system information
vdc		(Optional) Show Virtual Device Contexts
resource		Show resource configuration for VDC
internal		Show internal res_mgr information
info		Show internal data structure information
resource		(Optional) Show resource configuration for VDC
<i>res-mgr-res-known-name-all</i>		(Optional) Resource name
<i>vdc_id</i>		(Optional) Enter Virtual Device Context <vdc-id>

### Command Mode

- /exec

# show resource internal mem-stats

show resource internal mem-stats [ detail ]

## Syntax Description

---

### Syntax Description

---

show	Show running system information
resource	Show resource configuration for VDC
internal	Show internal res_mgr information
mem-stats	Show memory allocation statistics of RES_MGR
detail	(Optional) Show detail memstats for F_Port Server

---

## Command Mode

- /exec

## show rmon

```
show rmon { alarms | events | hcalarms | info | logs } [ __readonly__ [ TABLE_rmon_alarm { <alarm-str>
<ascii-buf-str> <samp-type-str> <ris-trshod-str> <fall-trshod-str> <start-enable-str> } ] [ TABLE_rmon_event
{ <ev-alarum-str> <ev-desc-str> <ev-fir-cause> <last-fired> } ] [ TABLE_rmon_hcala { <hc-alarum-str>
<hc-ascii-buf-str> <hc-sam-ty-str> <hc-ris-thresh-str> <hc-fal-thresh-str> <start-alm-str> <fail-attem-str> }
] [ TABLE_rmon_info { <max-32-64-ala-str> <max-conf-32-ala-str> <max-conf-64-ala-str> } ] [
TABLE_rmon_log { <event-id-str> <rmon-pch> [ <log-buff-str> ] <log-oid> } ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
rmon	Display RMON statistics
alarms	Display the RMON alarm table
events	Display the RMON event table
hcalarms	Display the RMON HC(High Capacity) Alarm table
info	Display the RMON info
logs	Display the RMON event log table
<i>__readonly__</i>	(Optional)
<i>TABLE_rmon_alarm</i>	(Optional)
<i>alarm-str</i>	(Optional)
<i>ascii-buf-str</i>	(Optional)
<i>samp-type-str</i>	(Optional)
<i>ris-trshod-str</i>	(Optional)
<i>fall-trshod-str</i>	(Optional)
<i>start-enable-str</i>	(Optional)
<i>TABLE_rmon_event</i>	(Optional)
<i>ev-alarum-str</i>	(Optional)
<i>ev-desc-str</i>	(Optional)
<i>ev-fir-cause</i>	(Optional)
<i>last-fired</i>	(Optional)
<i>TABLE_rmon_hcala</i>	(Optional)
<i>hc-alarum-str</i>	(Optional)

---

<i>hc-ascii-buf-str</i>	(Optional)
<i>hc-sam-ty-str</i>	(Optional)
<i>hc-ris-thresh-str</i>	(Optional)
<i>hc-fal-thresh-str</i>	(Optional)
<i>start-alm-str</i>	(Optional)
<i>fail-attem-str</i>	(Optional)
TABLE_rmon_info	(Optional)
<i>max-32-64-ala-str</i>	(Optional)
<i>max-conf-32-ala-str</i>	(Optional)
<i>max-conf-64-ala-str</i>	(Optional)
TABLE_rmon_log	(Optional)
<i>event-id-str</i>	(Optional)
<i>rmon-pch</i>	(Optional)
<i>log-buff-str</i>	(Optional)
<i>log-oid</i>	(Optional)

---

**Command Mode**

- /exec



# show role

```
show role [ name <arg3> ] [ __readonly__ TABLE_role <role_name> <role_description> [ <attribute_scope> ] [ <permit_vsan> ] [ <permit_vlan> ] [ <permit_interface> ] [ <permit_vrf> ] TABLE_rule <rule_num> <rule_action> { <rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
role		Show role configuration
name		(Optional) Enter the role name
<i>arg3</i>		(Optional) Enter the role name
<i>__readonly__</i>		(Optional)
TABLE_role		(Optional)
<i>role_name</i>		(Optional)
<i>role_description</i>		(Optional)
<i>attribute_scope</i>		(Optional)
<i>permit_vsan</i>		(Optional)
<i>permit_vlan</i>		(Optional)
<i>permit_interface</i>		(Optional)
<i>permit_vrf</i>		(Optional)
TABLE_rule		(Optional)
<i>rule_num</i>		(Optional)
<i>rule_action</i>		(Optional)
<i>rule_permission</i>		(Optional)
<i>rule_permission_mds</i>		(Optional)
<i>rule_featuretype</i>		(Optional)
<i>rule_entity</i>		(Optional)

## Command Mode

- /exec

# show role feature-group

```
show role feature-group [ name <arg4> ] [ detail ] [ __readonly__ TABLE_role_feature_group
<feature_group_name> TABLE_role_feature <feature_name> [ TABLE_role_feature_rule <feature_rule> ]
]
```

## Syntax Description

### Syntax Description

show	Show running system information
role	Show role configuration
feature-group	Role feature group
name	(Optional) Enter the feature-group name
<i>arg4</i>	(Optional) Feature-group name
detail	(Optional) Detailed information including feature rules
<i>__readonly__</i>	(Optional)
TABLE_role_feature_group	(Optional)
<i>feature_group_name</i>	(Optional)
TABLE_role_feature	(Optional)
<i>feature_name</i>	(Optional)
TABLE_role_feature_rule	(Optional)
<i>feature_rule</i>	(Optional)

## Command Mode

- /exec

# show role feature

```
show role feature [ name <arg5> | detail ] [ __readonly__ TABLE_role_feature <feature_name> [
TABLE_role_feature_rule <feature_rule> ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
role		Show role configuration
feature		Role feature
name		(Optional) Enter the feature name
<i>arg5</i>		(Optional) Feature name
detail		(Optional) Detailed information including feature rules
<i>__readonly__</i>		(Optional)
TABLE_role_feature		(Optional)
<i>feature_name</i>		(Optional)
TABLE_role_feature_rule		(Optional)
<i>feature_rule</i>		(Optional)

## Command Mode

- /exec

# show rollback log exec

```
show rollback log { exec | verify } [ __readonly__ [ <log_entry> + ] ]
```

## Syntax Description

Syntax Description		
show		Show running system information
rollback		Show rollback
log		show rollback log
exec		show rollback execution log
verify		show rollback verify log
<i>__readonly__</i>	(Optional)	Read only
<i>log_entry</i>	(Optional)	log entry from rollback log

## Command Mode

- /exec

# show rollback status

```
show rollback status [ __readonly__ <last_operation> <rollback_type> <name> <start_time> <end_time>
<operation_status> ]
```

## Syntax Description

Syntax Description		
<i>show</i>		Show running system information
<i>rollback</i>		show rollback
<i>status</i>		show status of last rollback operation
<i>__readonly__</i>	(Optional)	Read only
<i>last_operation</i>	(Optional)	last operation
<i>rollback_type</i>	(Optional)	rollback type
<i>name</i>	(Optional)	name
<i>start_time</i>	(Optional)	start time
<i>end_time</i>	(Optional)	end time
<i>operation_status</i>	(Optional)	operation status

## Command Mode

- /exec

# show route-map

```
show route-map [ <route-map-name> | <route-map-cfg-name> ] [ __readonly__ TABLE_rmap <name> <seq>
<action> [ <descript> ] [ <continue> ] [ { TABLE_rmap_match <match_type> <match_stmt> } ] [ {
TABLE_rmap_set <set_type> <set_stmt> } ] ]
```

## Syntax Description

Syntax Description	show	Show running system information
	route-map	Route-map information
	<i>route-map-name</i>	(Optional) Route-map name
	<i>route-map-cfg-name</i>	(Optional) Known route-map name
	<i>__readonly__</i>	(Optional)
	TABLE_rmap	(Optional)
	TABLE_rmap_match	(Optional)
	TABLE_rmap_set	(Optional)
	<i>name</i>	(Optional)
	<i>seq</i>	(Optional)
	<i>action</i>	(Optional)
	<i>descript</i>	(Optional)
	<i>continue</i>	(Optional)
	<i>match_type</i>	(Optional)
	<i>match_stmt</i>	(Optional)
	<i>set_type</i>	(Optional)
	<i>set_stmt</i>	(Optional)

## Command Mode

- /exec

## show route-map pbr-statistics

```
show route-map { <pbr_rmap_name> | <pbr_rmap_cfg_name> } pbr-statistics [ __readonly__ <tag> <action>
<seq> <pbr_pkt_count> <dflt_rtg_pkt_count> ]
```

### Syntax Description

Syntax Description		
show		Show running system information
route-map		Route-map information
<i>pbr_rmap_name</i>		Route-map name
<i>pbr_rmap_cfg_name</i>		Known route-map name
pbr-statistics		PBR statistics
<i>__readonly__</i>		(Optional)
<i>tag</i>		(Optional)
<i>action</i>		(Optional)
<i>seq</i>		(Optional)
<i>pbr_pkt_count</i>		(Optional)
<i>dflt_rtg_pkt_count</i>		(Optional)

### Command Mode

- /exec

# show routing-context

show routing-context

## Syntax Description

Syntax	Description
show	Show running system information
routing-context	Display the current routing context

## Command Mode

- /exec



# show routing-privilege

show routing-privilege

## Syntax Description

Syntax	Description
show	Show running system information
routing-privilege	Display the current privilege level

## Command Mode

- /exec

## show routing clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] clients [ <client> | <protocol> ] [ __readonly__ { TABLE_client <client_name>
<pib_index> <epid> [ <mts_sap> ] [ <mts_sap_str> ] <mru_cache_hits> <mru_cache_misses> <pib_stale_time>
<pss_created> [ <bad_l3vm_table_refcount> ] [ <pib_stale_timer> ] [ { TABLE_nib_node
<uribtibtype_contextname> [ <all_igp> ] [ <self> ] [ <all> ] [ <unib_notify_mask> ] <routes> <rnhs> <labels>
[ <convg_req_mask> ] [ <convg_send_mask> ] [ <utib_state> ] [ <pending_timer> ] [ <urib_state_invalid>
} ] [ { TABLE_msgs_rcvd <urib_mtype_str> <upib_rcvd> } ] [ { TABLE_msgs_sent <urib_mtype_str>
<upib_sent> } ] ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
clients	Display urib client information
<i>client</i>	(Optional) Display single urib client information
<i>protocol</i>	(Optional) Display single urib client information
__readonly__	(Optional)
TABLE_client	(Optional)
<i>client_name</i>	(Optional)
<i>pib_index</i>	(Optional)
<i>epid</i>	(Optional)
<i>mts_sap</i>	(Optional)
<i>mts_sap_str</i>	(Optional)

<i>mru_cache_hits</i>	(Optional)
<i>mru_cache_misses</i>	(Optional)
<i>plib_stale_time</i>	(Optional)
<i>pss_created</i>	(Optional)
<i>bad_l3vm_table_refcount</i>	(Optional)
<i>plib_stale_timer</i>	(Optional)
TABLE_nib_node	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
<i>all_igp</i>	(Optional)
<i>self</i>	(Optional)
<i>all</i>	(Optional)
<i>unib_notify_mask</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
<i>labels</i>	(Optional)
<i>convg_req_mask</i>	(Optional)
<i>convg_send_mask</i>	(Optional)
<i>utib_state</i>	(Optional)
<i>pending_timer</i>	(Optional)
<i>urib_state_invalid</i>	(Optional)
TABLE_msgs_rcvd	(Optional)
<i>urib_mtype_str</i>	(Optional)
<i>upib_rcvd</i>	(Optional)
TABLE_msgs_sent	(Optional)
<i>urib_mtype_str</i>	(Optional)
<i>upib_sent</i>	(Optional)

**Command Mode**

- /exec

# show routing event-history

```
show routing [ ip | ipv4 ] [ unicast ] [ internal ] event-history { statistics | msgs | { { add-route | cli | delete-route
| detail | dme | errors | general | ha | loop-detection | modify-route | notifications | recursive-next-hop | summary
| ufdm | ufdm-detail | ufdm-summary } [ filter [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ client
{ <client> | <protocol> } ] [ prefix-list <pxlist-name> ] ] } }
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	ip	(Optional) Display IP information
	ipv4	(Optional) Display IP information
	unicast	(Optional) Display unicast information
	internal	(Optional) Commands for internal use
	event-history	Show routing event log
	statistics	Show routing event log Statistics
	msgs	Show routing message event log
	add-route	Add route
	cli	CLI
	delete-route	Delete route
	detail	Detail
	dme	DME
	errors	Errors
	general	General
	ha	HA
	loop-detection	Loop detection
	modify-route	Modify route
	notifications	Notification
	recursive-next-hop	Recursive next hop
	summary	Summary
	ufdm	UFDM

<i>ufdm-detail</i>	UFDM Detail
<i>ufdm-summary</i>	UFDM Summary
<i>filter</i>	(Optional) Filter event log
<i>vrf</i>	(Optional) Filter VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>vrf-all</i>	(Optional) Filter for all VRFs
<i>client</i>	(Optional) Filter by client
<i>client</i>	(Optional) Filter by single urib client
<i>protocol</i>	(Optional) Filter by single urib client
<i>prefix-list</i>	(Optional) Filter by IPv4 prefix-list
<i>pfclist-name</i>	(Optional) IPv4 prefix list name

**Command Mode**

- /exec

# show routing hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hash <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface
<in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_hashpath <mcast> <hashpath> <hash-val>
TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path <ubest> <mbest>
<ipnexthop> <ifname> <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ]
[ <hidden> ] [ <stale-label> ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hash	Display load-balancing hash information
<i>source</i>	Source IPv4 address of unicast flow or group address for multicast flow
<i>dest</i>	Destination IPv4 address of unicast flow or source address for multicast flow
<i>src-port</i>	(Optional) Source-port
<i>dest-port</i>	(Optional) Destination-port
in-interface	(Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only
<i>in-interface</i>	(Optional) Interface Name
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
module	(Optional) Module

<i>module-id</i>	(Optional) Module
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_hashpath	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
<i>hash-val</i>	(Optional)
TABLE_prefix	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
TABLE_path	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ipnexthop</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>tag</i>	(Optional)
<i>stale</i>	(Optional)
<i>unres</i>	(Optional)
<i>hidden</i>	(Optional)

---

*stale-label* (Optional)

---

**Command Mode**

- /exec



## show routing hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hidden-nh [ __readonly__ <uribtibtype_contextname> [ <utibtibtype_topologyname> ]
{ TABLE_hidden_nh <hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rnh> <rnh_mask_len>
} ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hidden-nh	Display hidden next-hop information
<i>__readonly__</i>	(Optional)
<i>uribtibtype_contextname</i>	(Optional)
<i>utibtibtype_topologyname</i>	(Optional)
TABLE_hidden_nh	(Optional)
<i>hidden_nh_uhn_prefix</i>	(Optional)
<i>hidden_nh_uhn_mask_len</i>	(Optional)
<i>pib</i>	(Optional)
<i>rnh</i>	(Optional)
<i>rnh_mask_len</i>	(Optional)

### Command Mode

- /exec

# show routing internal

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] internal [ force-update ]
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ip	(Optional) Display IP information
	ipv4	(Optional) Display IP information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	<i>topology-name</i>	(Optional) topology name
	internal	Commands for internal use
	force-update	(Optional) Force update of internal state

## Command Mode

- /exec

# show routing internal library-info

```
show routing [ ip | ipv4 ] [ unicast ] internal library-info
```

## Syntax Description

Syntax	Description
show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
internal	Commands for internal use
library-info	Show various event logs of library

## Command Mode

- /exec

# show routing internal mem-stats

show routing [ ip | ipv4 ] [ unicast ] internal mem-stats [ all | shared ] [ no-libs ] [ detail ]

## Syntax Description

Syntax Description	Description
show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
internal	Commands for internal use
mem-stats	Show memory allocation statistics
all	(Optional) Display all memory information
shared	(Optional) Display shared memory information
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## Command Mode

- /exec

# show routing internal pending-routes

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] internal pending-routes [ summary ]
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ip	(Optional) Display IP information
	ipv4	(Optional) Display IP information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	<i>topology-name</i>	(Optional) topology name
	internal	Commands for internal use
	pending-routes	Display details of pending ufdm updates
	summary	(Optional) Summary of ufdm updates

## Command Mode

- /exec

# show routing internal statistics

```
show routing [ ip | ipv4 ] internal statistics [ route-summary [ [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ] ]
```

## Syntax Description

Syntax Description	Description
show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
internal	Commands for internal use
statistics	Display IP RIB internal statistics
route-summary	(Optional) Display IP RIB internal Route Summary stats
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs

## Command Mode

- /exec

## show routing ipv6 clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ]
clients [ <client> | <ipv6-protocol> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
{ TABLE_client <client_name> <pib_index> <pib_state> <pib_id> <multicast_or_unicast_pib>
<mru_cache_hits> <mru_cache_misses> [ <mts_sap> ] [ <mts_sap_str> ] [ <bad_l3vm_table_refcount> ]
<pib_stale_time> [ { TABLE_nib_node <u6ribtibtype_contextname> <routes> <rnhs> [ {
TABLE_notiffee_mask [ <u6pib_name> ] [ <index> ] } ] [ <u6tib_state> ] [ <pending_timer> ] [
<u6rib_state_invalid> ] [ <u6nib_notifier_all> ] [ { TABLE_notify_rcd <notify_rcd_name>
<notify_rcd_handle> [ <notifier_pib_u6pib_index> } ] ] [ { TABLE_notiffee_nib <notiffee_pib_u6pib_name>
<u6nib_notify_handle> } ] ] [ { TABLE_ready_client_event_queue <queue_name><queue_count> [ {
TABLE_client_event <event> <use_buf> <sched> <resend> <buf> [ <state> } ] } ] [ {
TABLE_buffer_rqst_client_event_queue <queue_name><queue_count> [ { TABLE_client_event <event>
<use_buf> <sched> <resend> <buf> [ <state> } ] } ] <update_ack_queue_count> [ { TABLE_update_ack
<update_ack> <update_ack_data> <update_ack_type> <update_ack_xid> } ] [ {
TABLE_route_buffer_used_queue <queue_name> <queue_count> [ { TABLE_clt_buf
<clt_buf><clt_buf_count><clt_buf_xid> } ] } ] [ { TABLE_rnh_buffer_used_queue <queue_name>
<queue_count> [ { TABLE_clt_buf <clt_buf><clt_buf_count><clt_buf_xid> } ] } ] [ { TABLE_msgs_rcvd
<u6rib_mtype_str><u6pib_rcvd> } ] [ { TABLE_msgs_sent <u6rib_mtype_str><u6pib_sent> } ] } ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
clients	Display u6rib client information
<i>client</i>	(Optional) Display single u6rib client information
<i>ipv6-protocol</i>	(Optional) Display single u6rib client information
__readonly__	(Optional)
TABLE_client	(Optional)
<i>client_name</i>	(Optional)

<i>pib_index</i>	(Optional)
<i>pib_state</i>	(Optional)
<i>pib_id</i>	(Optional)
<i>multicast_or_unicast_pib</i>	(Optional)
<i>mru_cache_hits</i>	(Optional)
<i>mru_cache_misses</i>	(Optional)
<i>mts_sap</i>	(Optional)
<i>mts_sap_str</i>	(Optional)
<i>bad_l3vm_table_refcount</i>	(Optional)
<i>pib_stale_time</i>	(Optional)
TABLE_nib_node	(Optional)
<i>u6ribtibtype_contextname</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
TABLE_notifeee_mask	(Optional)
<i>u6pib_name</i>	(Optional)
<i>index</i>	(Optional)
<i>u6tib_state</i>	(Optional)
<i>pending_timer</i>	(Optional)
<i>u6rib_state_invalid</i>	(Optional)
<i>u6nib_notifier_all</i>	(Optional)
TABLE_notify_rcd	(Optional)
<i>notify_rcd_name</i>	(Optional)
<i>notify_rcd_handle</i>	(Optional)
<i>notifier_pib_u6pib_index</i>	(Optional)
TABLE_notiffee_nib	(Optional)
<i>notiffee_pib_u6pib_name</i>	(Optional)
<i>u6nib_notify_handle</i>	(Optional)
TABLE_ready_client_event_queue	(Optional)



<i>queue_name</i>	(Optional)
<i>queue_count</i>	(Optional)
TABLE_client_event	(Optional)
<i>event</i>	(Optional)
<i>use_buf</i>	(Optional)
<i>sched</i>	(Optional)
<i>resend</i>	(Optional)
<i>buf</i>	(Optional)
<i>state</i>	(Optional)
TABLE_buffer_rqst_client_event_queue	(Optional)
<i>queue_name</i>	(Optional)
<i>queue_count</i>	(Optional)
TABLE_client_event	(Optional)
<i>event</i>	(Optional)
<i>use_buf</i>	(Optional)
<i>sched</i>	(Optional)
<i>resend</i>	(Optional)
<i>buf</i>	(Optional)
<i>state</i>	(Optional)
<i>update_ack_queue_count</i>	(Optional)
TABLE_update_ack	(Optional)
<i>update_ack</i>	(Optional)
<i>update_ack_data</i>	(Optional)
<i>update_ack_type</i>	(Optional)
<i>update_ack_xid</i>	(Optional)
TABLE_route_buffer_used_queue	(Optional)
TABLE_clt_buf	(Optional)
TABLE_rnh_buffer_used_queue	(Optional)
TABLE_clt_buf	(Optional)

---

TABLE_msgs_rcvd	(Optional)
-----------------	------------

---

TABLE_msgs_sent	(Optional)
-----------------	------------

---

**Command Mode**

- /exec

# show routing ipv6 event-history

show routing ipv6 [ unicast ] [ internal ] event-history { statistics | msgs | am | cli | detail | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary }

## Syntax Description

Syntax Description		
show	Show running system information	
routing	Display routing information	
ipv6	Display IPv6 information	
unicast	(Optional) Display unicast information	
internal	(Optional) Commands for internal use	
event-history	Show routing event log	
statistics	Show routing event log Statistics	
msgs	Show routing message event log	
am	AM	
cli	CLI	
detail	Detail	
errors	Errors	
general	General	
ha	HA	
lfe	LFE	
recursive-next-hop	Recursive next hop	
summary	Summary	
ufdm	UFDM	
ufdm-detail	UFDM Detail	
ufdm-summary	UFDM Summary	

## Command Mode

- /exec

# show routing ipv6 hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hash [ mpls <ipv6-prefix> [ eos ] ] <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface <in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> [ <hash-type> ] [ <mcast> ] [ <hashpath> ] TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <ifname> ] <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden> ] ]
```

## Syntax Description

### Syntax Description

show	Show running system information
routing	Display routing information
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Display information for all VRFs
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
topology	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
hash	Display load-balancing hash information
mpls	(Optional) MPLS path load-balancing hash information
eos	(Optional) Set End-of-Stack to 1
ip-proto	(Optional) IP Protocol information for the packet
<i>ip-proto</i>	(Optional) IP Protocol information for the packet
<i>src-port</i>	(Optional) Source-port
<i>dest-port</i>	(Optional) Destination-port
in-interface	(Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only.
<i>in-interface</i>	(Optional) Interface Name
module	(Optional) Module
<i>module-id</i>	(Optional) Module
<i>__readonly__</i>	(Optional)

<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>hash-type</i>	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
<i>TABLE_prefix</i>	(Optional)
<i>ipprefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
<i>TABLE_path</i>	(Optional)
<i>ubest</i>	(Optional)
<i>mbest</i>	(Optional)
<i>ifname</i>	(Optional)
<i>pref</i>	(Optional)
<i>tag</i>	(Optional)
<i>metric</i>	(Optional)
<i>uptime</i>	(Optional)
<i>clientname</i>	(Optional)
<i>type</i>	(Optional)
<i>stale</i>	(Optional)
<i>hidden</i>	(Optional)

**Command Mode**

- /exec

# show routing ipv6 hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name>
] hidden-nh [ __readonly__ <uribtibtype_contextname> { TABLE_hidden_nh <nh> <nh-iod>
<hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rnh> <rnh_mask_len> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
routing		Display routing information
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
vrf-all		(Optional) Display information for all VRFs
ipv6		Display IPv6 information
unicast		(Optional) Display unicast information
topology		(Optional) Display per-topology information
<i>topology-name</i>		(Optional) topology name
hidden-nh		Display hidden next-hop information
<i>__readonly__</i>		(Optional)
<i>uribtibtype_contextname</i>		(Optional)
TABLE_hidden_nh		(Optional)
<i>nh</i>		(Optional)
<i>nh-iod</i>		(Optional)
<i>hidden_nh_uhn_prefix</i>		(Optional)
<i>hidden_nh_uhn_mask_len</i>		(Optional)
<i>pib</i>		(Optional)
<i>rnh</i>		(Optional)
<i>rnh_mask_len</i>		(Optional)

## Command Mode

- /exec

# show routing ipv6 internal

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] internal [ force-update ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
```

## Syntax Description

Syntax Description		
show		Show running system information
routing		Display routing information
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
vrf-all		(Optional) Display information for all VRFs
ipv6		Display IPv6 information
unicast		(Optional) Display unicast information
topology		(Optional) Display per-topology information
<i>topology-name</i>		(Optional) topology name
internal		Commands for internal use
force-update		(Optional) Force update of internal state

## Command Mode

- /exec

# show routing ipv6 internal buffers

show routing ipv6 [ unicast ] internal buffers

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	routing	Display routing information
	ipv6	Display IPv6 information
	unicast	(Optional) Display unicast information
	internal	Commands for internal use
	buffers	Allocated IPC Buffers

## Command Mode

- /exec



# show routing ipv6 internal distribution

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] internal distribution
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ipv6	Display IPv6 information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	<i>topology-name</i>	(Optional) topology name
	internal	Commands for internal use
	distribution	Display u6rib distribution information

## Command Mode

- /exec

# show routing ipv6 internal distribution rnh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] internal distribution rnh
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ipv6	Display IPv6 information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	<i>topology-name</i>	(Optional) topology name
	internal	Commands for internal use
	distribution	Display u6rib distribution information
	rnh	Display u6rib RNH notifications information

## Command Mode

- /exec

# show routing ipv6 internal library-info

show routing ipv6 [ unicast ] internal library-info

## Syntax Description

Syntax Description		
show	Show running system information	
routing	Display routing information	
ipv6	Display IPv6 information	
unicast	(Optional) Display unicast information	
internal	Commands for internal use	
library-info	Show various event logs of library	

## Command Mode

- /exec

# show routing ipv6 internal mem-stats

show routing ipv6 [ unicast ] internal mem-stats [ all | shared ] [ no-libs ] [ detail ]

## Syntax Description

Syntax	Description
show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
internal	Commands for internal use
mem-stats	Show memory allocation statistics
all	(Optional) Display all memory information
shared	(Optional) Display shared memory information
no-libs	(Optional) Exclude libraries
detail	(Optional) Display detailed information

## Command Mode

- /exec

## show routing ipv6 internal statistics

```
show routing ipv6 internal statistics [ route-summary [ [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }
]]]
```

### Syntax Description

Syntax Description		
show		Show running system information
routing		Display routing information
ipv6		Display IPv6 information
internal		Commands for internal use
statistics		Display IPv6 RIB internal statistics
route-summary	(Optional)	Display IPv6 RIB internal Route Summary stats
vrf	(Optional)	Display per-VRF information
<i>vrf-name</i>	(Optional)	VRF name
<i>vrf-known-name</i>	(Optional)	Known VRF name
vrf-all	(Optional)	Display information for all VRFs

### Command Mode

- /exec

# show routing ipv6 internal ufdm

show routing ipv6 [ unicast ] internal ufdm

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	routing	Display routing information
	ipv6	Display IPv6 information
	unicast	(Optional) Display unicast information
	internal	Commands for internal use
	ufdm	UFDM Statistics

## Command Mode

- /exec

## show routing ipv6 memory estimate

```
show routing ipv6 [ unicast ] memory estimate [ routes <route-count> next-hops <nh-count> ] [ labels ] [
__readonly__ <curr-max-MB> <curr-max-routes> <curr-max-nh> <inuse-MB> <inuse-routes> <inuse-nh>
<conf-max-MB> <conf-max-routes> <conf-max-nh> [ <est-MB> <est-routes> <est-nh> ] ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
memory	Display u6rib memory information
estimate	Display u6rib memory estimate
routes	(Optional) Display u6rib memory estimate for # routes
<i>route-count</i>	(Optional) Number of routes
next-hops	(Optional) Display u6rib memory estimate for # next-hops per route
<i>nh-count</i>	(Optional) Number of next-hops per route
labels	(Optional) When the routes are associated with next hop labels
<i>__readonly__</i>	(Optional)
<i>curr-max-MB</i>	(Optional)
<i>curr-max-routes</i>	(Optional)
<i>curr-max-nh</i>	(Optional)
<i>inuse-MB</i>	(Optional)
<i>inuse-routes</i>	(Optional)
<i>inuse-nh</i>	(Optional)
<i>conf-max-MB</i>	(Optional)
<i>conf-max-routes</i>	(Optional)
<i>conf-max-nh</i>	(Optional)
<i>est-MB</i>	(Optional)
<i>est-routes</i>	(Optional)
<i>est-nh</i>	(Optional)

**Command Mode**

- /exec



## show routing ipv6 memory statistics

```
show routing ipv6 [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <rbuf-alloc>
<rbuf-high-water> <rbuf-max> <rbuf-numalloc> <slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc>
} { TABLE_u6rib_slabs <slab-name> <alloc-count> <max-allocs> <slab-size> } { TABLE_u6rib_blks
<slab-blk-name> <block-count> <max-blocks> <slab-count> } { TABLE_u6rib_routes_rhfs <ctx-name>
<user-nodes> <total-nodes> <elem-size> } ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast routing information
memory	Display u6rib memory information
statistics	Display u6rib memory statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_shrd_mem</i>	(Optional)
<i>TABLE_u6rib_slabs</i>	(Optional)
<i>TABLE_u6rib_blks</i>	(Optional)
<i>TABLE_u6rib_routes_rhfs</i>	(Optional)
<i>ctx-name</i>	(Optional)
<i>slab-name</i>	(Optional)
<i>slab-blk-name</i>	(Optional)
<i>rbuf-alloc</i>	(Optional)
<i>rbuf-high-water</i>	(Optional)
<i>rbuf-max</i>	(Optional)
<i>rbuf-numalloc</i>	(Optional)
<i>slbs-alloc</i>	(Optional)
<i>slbs-high-water</i>	(Optional)
<i>slbs-max</i>	(Optional)
<i>slbs-numalloc</i>	(Optional)

<i>user-nodes</i>	(Optional)
<i>total-nodes</i>	(Optional)
<i>elem-size</i>	(Optional)
<i>alloc-count</i>	(Optional)
<i>max-allocs</i>	(Optional)
<i>slab-size</i>	(Optional)
<i>block-count</i>	(Optional)
<i>max-blocks</i>	(Optional)
<i>slab-count</i>	(Optional)

**Command Mode**

- /exec

## show routing ipv6 nexthop info

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nexthop info [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
```

### Syntax Description

Syntax Description		
show		Show running system information
routing		Display routing information
vrf		(Optional) Display per-VRF information
<i>vrf-name</i>		(Optional) VRF name
<i>vrf-known-name</i>		(Optional) Known VRF name
vrf-all		(Optional) Display information for all VRFs
ipv6		Display IPv6 information
unicast		(Optional) Display unicast information
topology		(Optional) Display per-topology information
<i>topology-name</i>		(Optional) topology name
nexthop		Show the nh_info tree
info		Show the nh_info tree

### Command Mode

- /exec

# show routing ipv6 nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ { TABLE_vrf <vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlabel <nhlfe-index> <nh-label> } <nhlfe-is-vpn> <nhlfe-owner-index> ] <total-entries> } ]
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ipv6	Display IPv6 information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	<i>topology-name</i>	(Optional) topology name
	nhlfe	Display NHLFE db
	stats	(Optional) Display statistics
	<i>__readonly__</i>	(Optional)
	TABLE_vrf	(Optional)
	<i>vrf-name-out</i>	(Optional)
	<i>nhlfe-owner</i>	(Optional)
	<i>nhlfe-refcount</i>	(Optional)
	TABLE_nhlabel	(Optional)
	<i>nhlfe-index</i>	(Optional)
	<i>nh-label</i>	(Optional)
	<i>nhlfe-is-vpn</i>	(Optional)
	<i>nhlfe-owner-index</i>	(Optional)
	<i>total-entries</i>	(Optional)

### Command Mode

- /exec

# show routing ipv6 recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] recursive-next-hop [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_prefix <ipprefix> <uptime> TABLE_clients <client-req> <client-pend> ]
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ipv6	Display IPv6 information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	<i>topology-name</i>	(Optional) topology name
	recursive-next-hop	Display recursive next-hop table
	<i>__readonly__</i>	(Optional)
	TABLE_vrf	(Optional)
	<i>vrf-name-out</i>	(Optional)
	TABLE_addrf	(Optional)
	<i>addrf</i>	(Optional)
	TABLE_prefix	(Optional)
	<i>uptime</i>	(Optional)
	TABLE_clients	(Optional)
	<i>client-req</i>	(Optional)
	<i>client-pend</i>	(Optional)

## Command Mode

- /exec

## show routing memory estimate

```
show routing [ ip | ipv4 ] [ unicast ] memory estimate [ routes <route-count> [ next-hops <nh-count> ] [
next-hops-v6 <nh6-count> ] ] [ labels ] [ __readonly__ <current_max_mb> <current_max_routes>
<urib_max_nh> <used_mb> <route_stats_alloc_count> <nhs> <configured_max_mb>
<configured_max_routes> <urib_routes_max_nh> [ <estimate_mb> <estimate_routes> <estimate_nhs>
<estimate_with_mvpn_mb> <estimate_with_ospf_mb> <estimate_with_eigrp_mb> ] ]
```

### Syntax Description

#### Syntax Description

show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
estimate	Display urib memory estimate
routes	(Optional) Display urib memory estimate for # routes
<i>route-count</i>	(Optional) Number of routes
next-hops	(Optional) Display urib memory estimate for # next-hops per route
<i>nh-count</i>	(Optional) Number of next-hops per route
next-hops-v6	(Optional) Display urib memory estimate for # V6 next-hops per route
<i>nh6-count</i>	(Optional) Number of V6 next-hops per route
labels	(Optional) When the routes are associated with next hop labels
<i>__readonly__</i>	(Optional)
<i>current_max_mb</i>	(Optional)
<i>current_max_routes</i>	(Optional)
<i>urib_max_nh</i>	(Optional)
<i>used_mb</i>	(Optional)
<i>route_stats_alloc_count</i>	(Optional)
<i>nhs</i>	(Optional)
<i>configured_max_mb</i>	(Optional)

---

*configured\_max\_routes* (Optional)

---

*urib\_routes\_max\_nh* (Optional)

---

*estimate\_mb* (Optional)

---

*estimate\_routes* (Optional)

---

*estimate\_nhs* (Optional)

---

*estimate\_with\_mvpn\_mb* (Optional)

---

*estimate\_with\_ospf\_mb* (Optional)

---

*estimate\_with\_eigrp\_mb* (Optional)

---

### Command Mode

- /exec



## show routing memory statistics

```
show routing [ ip | ipv4 ] [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <ubuf-alloc>
<ubuf-high-water> <ubuf-max> <ubuf-numalloc> <rbuf-alloc> <rbuf-high-water> <rbuf-max> <rbuf-numalloc>
<slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc> } { TABLE_urib_slabs <slab-name>
<slab-alloc-count> <slab-max-allocs> <slab-size> } { TABLE_urib_blks <block-name> <block-count>
<max-blocks> <blks-count> } { TABLE_urib_routes_rnhs <ctx-name> <user-node> <total-node> <elem-size>
} ]
```

### Syntax Description

Syntax Description	Description
show	Show running system information
routing	Display routing information
ip	(Optional) Display IP information
ipv4	(Optional) Display IP information
unicast	(Optional) Display unicast information
memory	Display urib memory information
statistics	Display urib memory statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_shrd_mem</i>	(Optional)
<i>ubuf-alloc</i>	(Optional)
<i>ubuf-high-water</i>	(Optional)
<i>ubuf-max</i>	(Optional)
<i>ubuf-numalloc</i>	(Optional)
<i>rbuf-alloc</i>	(Optional)
<i>rbuf-high-water</i>	(Optional)
<i>rbuf-max</i>	(Optional)
<i>rbuf-numalloc</i>	(Optional)
<i>slbs-alloc</i>	(Optional)
<i>slbs-high-water</i>	(Optional)
<i>slbs-max</i>	(Optional)
<i>slbs-numalloc</i>	(Optional)
<i>TABLE_urib_slabs</i>	(Optional)

<i>slab-name</i>	(Optional)
<i>slab-alloc-count</i>	(Optional)
<i>slab-max-allocs</i>	(Optional)
<i>slab-size</i>	(Optional)
TABLE_urib_blks	(Optional)
<i>block-name</i>	(Optional)
<i>block-count</i>	(Optional)
<i>max-blocks</i>	(Optional)
<i>blks-count</i>	(Optional)
TABLE_urib_routes_rnhs	(Optional)
<i>ctx-name</i>	(Optional)
<i>user-node</i>	(Optional)
<i>total-node</i>	(Optional)
<i>elem-size</i>	(Optional)

**Command Mode**

- /exec

# show routing nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
TABLE_vrf <vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlabel <nlabel-index> <nh-label>
} <nhlfe-is-vpn> <nhlfe-owner-index> ] <total-entries> ]
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ip	(Optional) Display IP information
	ipv4	(Optional) Display IP information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	<i>topology-name</i>	(Optional) topology name
	nhlfe	Display URIB NHLFE db
	stats	(Optional) Display statistics
	__readonly__	(Optional)
	TABLE_vrf	(Optional)
	<i>vrf-name-out</i>	(Optional)
	<i>nhlfe-owner</i>	(Optional)
	<i>nhlfe-refcount</i>	(Optional)
	TABLE_nhlabel	(Optional)
	<i>nlabel-index</i>	(Optional)
	<i>nh-label</i>	(Optional)
	<i>nhlfe-is-vpn</i>	(Optional)
	<i>nhlfe-owner-index</i>	(Optional)

---

*total-entries* (Optional)

---

**Command Mode**

- /exec

## show routing recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] recursive-next-hop [ <ip-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
[ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_prefix <ipprefix> <uptime>
TABLE_clients <clientname> ]
```

### Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ip	(Optional) Display IP information
	ipv4	(Optional) Display IP information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	recursive-next-hop	Display recursive next-hop table
	<i>topology-name</i>	(Optional) topology name
	<i>ip-addr</i>	(Optional) Display single recursive virtual next-hop
	<i>__readonly__</i>	(Optional)
	TABLE_vrf	(Optional)
	<i>vrf-name-out</i>	(Optional)
	TABLE_addrf	(Optional)
	<i>addrf</i>	(Optional)
	TABLE_prefix	(Optional)
	<i>ipprefix</i>	(Optional)
	<i>uptime</i>	(Optional)
	TABLE_clients	(Optional)
	<i>clientname</i>	(Optional)

**Command Mode**

- /exec

## show routing unresolved-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] unresolved-next-hop { [ <ip-addr> [ detail ] ] [ summary ] } [ vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ]
```

### Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	unresolved-next-hop	Display unresolved next-hop list
	vrf	(Optional) Display per-VRF information
	<i>vrf-name</i>	(Optional) VRF name
	<i>vrf-known-name</i>	(Optional) Known VRF name
	vrf-all	(Optional) Display information for all VRFs
	ip	(Optional) Display IP information
	ipv4	(Optional) Display IP information
	unicast	(Optional) Display unicast information
	topology	(Optional) Display per-topology information
	<i>topology-name</i>	(Optional) topology name
	<i>ip-addr</i>	(Optional) Display single unresolved next-hop
	detail	(Optional) Display prefixes for unresolved next-hop
	summary	(Optional) Show summary of resolve buffers

### Command Mode

- /exec

# show routing vxlan-hash peer-ip

```
show routing vxlan-hash peer-ip <peer-ip> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip> <inner-dst-ip>
] [ ip-proto <ip-proto> ] [ <inner-src-port> <inner-dst-port> ] [ module <module-id> ]
```

## Syntax Description

Syntax Description	show	Show running system information
	routing	Display routing information
	vxlan-hash	Display load-balancing information for vxlan
	peer-ip	Peer IP address
	<i>peer-ip</i>	Peer IP
	<i>inner-src-mac</i>	Inner Source MAC Address
	<i>inner-dst-mac</i>	Inner Destination MAC Address
	<i>inner-src-ip</i>	(Optional) Inner Source IP
	<i>inner-dst-ip</i>	(Optional) Inner Destination IP
	ip-proto	(Optional) IP Protocol information for the packet
	<i>ip-proto</i>	(Optional) IP Protocol information for the packet
	<i>inner-src-port</i>	(Optional) Inner Source-port
	<i>inner-dst-port</i>	(Optional) Inner Destination-port
	module	(Optional) Module
	<i>module-id</i>	(Optional) Module

## Command Mode

- /exec



# show running-config

show running-config

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration

## Command Mode

- /exec

# show running-config aaa

show running-config aaa [ all ]

## Syntax Description

---

### Syntax Description

---

show	show running-cfg
running-config	show running system information
aaa	Display aaa configuration
all	(Optional) show running config with defaults

---

## Command Mode

- /exec

# show running-config aclmgr

show running-config aclmgr [ all | inactive-if-config ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
aclmgr		show running config for aclmgr
all		(Optional) show running config with defaults
inactive-if-config		(Optional) show running config for inactive-policies

## Command Mode

- /exec

# show running-config aclmgr active

```
show running-config aclmgr { active-if-config | all-if-config }
```

## Syntax Description

Syntax Description		
show	Show running system information	
running-config	Current operating configuration	
aclmgr	show running config for aclmgr	
active-if-config	show running config for active-policies	
all-if-config	show running config for all-policies	

## Command Mode

- /exec

# show running-config adjmgr

show running-config adjmgr [ all ]

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration
adjmgr	Display adjmgr information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config all

show running-config all

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
all		Current operating configuration with defaults

## Command Mode

- /exec

# show running-config amt

show running-config amt [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operationg configuration
amt		Display amt information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config arp

show running-config arp [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
arp		Display arp information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec



# show running-config bfd

show running-config bfd [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
bfd		show running config for bfd
all		(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config bgp

show running-config bgp [ all ]

## Syntax Description

---

**Syntax Description**

show	Show running system information
running-config	Current operationg configuration
bgp	Display bgp information
all	(Optional) Display running config with defaults clis

---

**Command Mode**

- /exec

# show running-config bloggerd

```
show running-config bloggerd [ all ]
```

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
bloggerd	Display bloggerd configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config callhome

show running-config callhome [ all ]

## Syntax Description

---

**Syntax Description**

---

show	show running-cfg
------	------------------

---

running-config	show running system information
----------------	---------------------------------

---

callhome	Display callhome configuration
----------	--------------------------------

---

all	(Optional) show running config with defaults
-----	--

---

## Command Mode

- /exec

# show running-config cdp

show running-config cdp [ all ]

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
cdp	Display cdp configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config cert-enroll

show running-config cert-enroll [ all ]

## Syntax Description

---

**Syntax Description**

---

show	show running-cfg
------	------------------

---

running-config	show running system information
----------------	---------------------------------

---

cert-enroll	Display certificates configuration
-------------	------------------------------------

---

all	(Optional) show running config with defaults
-----	--

---

## Command Mode

- /exec

# show running-config cfs

show running-config cfs [ all ]

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operation configuration
cfs	Display cfs configurations
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config clock\_manager

show running-config clock\_manager [ all ]

## Syntax Description

---

### Syntax Description

---

running-config Current operating configuration

---

clock\_manager show running config for clock manager

---

all (Optional) show running config with defaults

---

## Command Mode

- /exec



# show running-config config-profile

show running-config config-profile [ <all\_conf\_profile\_name> ]

## Syntax Description

Syntax Description		
show		Show running-cfg
running-config		show running configuration
config-profile		Display port-profile configuration
<i>all_conf_profile_name</i>	(Optional)	Enter the name of the profile

## Command Mode

- /exec

# show running-config controller

show running-config controller

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration
controller	controller

## Command Mode

- /exec

# show running-config copp

show running-config copp [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
copp		Control-Plane Policing
all		(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config cts

show running-config cts

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
cts		Show CTS information

## Command Mode

- /exec

# show running-config dhcp

show running-config dhcp [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operation configuration
dhcp		Display dhcp snoop configurations
all		(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config diagnostic

show running-config diagnostic [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
diagnostic		Display diagnostic information
all		(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config diff

show running-config diff

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration
diff	Show the difference between running and startup configuration

## Command Mode

- /exec

# show running-config dot1x

show running-config dot1x [ all ]

## Syntax Description

---

**Syntax Description**

---

show	show running-cfg
------	------------------

---

running-config	show running system information
----------------	---------------------------------

---

dot1x	Display dot1x configuration
-------	-----------------------------

---

all	(Optional) show running config with defaults
-----	--

---

## Command Mode

- /exec



# show running-config eem

show running-config eem

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Show the system running configuration
eem		Show the event manager running configuration

## Command Mode

- /exec

# show running-config eigrp

show running-config eigrp [ all ]

## Syntax Description

---

### Syntax Description

show	Show running system information
running-config	Current operationg configuration
eigrp	Display eigrp information
all	(Optional) Display running config with defaults clis

---

## Command Mode

- /exec

# show running-config eltm

show running-config eltm

## Syntax Description

Syntax Description		
	show	Show running system information
	running-config	Current operation configuration
	eltm	Display eltm configurations

## Command Mode

- /exec

# show running-config evb

show running-config evb [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operationg configuration
evb		EVB (Edge Virtual Bridge)
all		(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config exclude

show running-config exclude <feature-list> +

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
exclude		Exclude running configuration of specified features
<i>feature-list</i>		Exclude features

## Command Mode

- /exec

# show running-config expand-port-profile

show running-config expand-port-profile

## Syntax Description

Syntax Description		
	show	Show running system information
	running-config	Current operating configuration
	expand-port-profile	Expand port profile

## Command Mode

- /exec

# show running-config explicit

show running-config explicit

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration
explicit	show explicitly configured running configuration for all interfaces

## Command Mode

- /exec

# show running-config fabric forwarding

show running-config fabric forwarding [ all ]

## Syntax Description

Syntax Description		
show	Show running system information	
running-config	Current operationg configuration	
fabric	Fabric	
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)	
all	(Optional) Display running config with defaults clis	

## Command Mode

- /exec



# show running-config glbp

show running-config glbp [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Show the system running information
glbp		Show GLBP running configuration
all		(Optional) Show GLBP running configuration defaults

## Command Mode

- /exec

# show running-config hsrp

show running-config hsrp [ all ]

## Syntax Description

Syntax Description		
show		Show system information
running-config		System running configuration
hsrp		HSRP running configuration
all		(Optional) Show HSRP running configuration defaults

## Command Mode

- /exec

# show running-config icmpv6

```
show running-config icmpv6 [ all ]
```

## Syntax Description

Syntax Description		
show	Show running system information	
running-config	Current operating configuration	
icmpv6	Display icmpv6 information	
all	(Optional) Display running config with defaults	clis

## Command Mode

- /exec

# show running-config igmp

show running-config igmp [ all ]

## Syntax Description

---

**Syntax Description**

show	Show running system information
running-config	Current operationg configuration
igmp	Display igmp information
all	(Optional) Display running config with defaults clis

---

**Command Mode**

- /exec

# show running-config imp

show running-config imp [ all ]

## Syntax Description

Syntax Description		
show		Show system information
running-config		System running configuration
imp		IMP running configuration
all		(Optional) Show IMP running configuration defaults

## Command Mode

- /exec

# show running-config interface

show running-config interface [ <if0> ] [ all ] [ expand-port-profile ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
interface		Interface configuration
<i>if0</i>	(Optional)	interface type and number in module/slot format
all	(Optional)	show running config with defaults
expand-port-profile	(Optional)	Expand port profile

## Command Mode

- /exec

# show running-config interface

show running-config interface <if0> [ membership ] [ expand-port-profile ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
interface		Interface configuration
<i>if0</i>		interface type and number in module/slot format
membership		(Optional) Show membership information
expand-port-profile		(Optional) Expand port profile

## Command Mode

- /exec

# show running-config interface defaults

show running-config interface <if0> defaults

## Syntax Description

Syntax Description		
show	Show running system information	
running-config	Current operating configuration	
interface	Interface configuration	
<i>if0</i>	interface type and number in module/slot format	
defaults	show default running config	

## Command Mode

- /exec



# show running-config interface explicit

show running-config interface <if0> explicit

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
interface		Interface configuration
<i>if0</i>		interface type and number in module/slot format
explicit		show default running config

## Command Mode

- /exec

# show running-config ip

show running-config ip [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
ip		Display ip information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config ipqos

show running-config ipqos [ all | inactive-if-config ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
all		(Optional) show running config with defaults
inactive-if-config		(Optional) show running config for inactive-policies

## Command Mode

- /exec

# show running-config ipqos active

```
show running-config ipqos { active-if-config | all-if-config }
```

## Syntax Description

<b>Syntax Description</b>	show	Show running system information
	running-config	Current operating configuration
	active-if-config	show running config for active-policies
	all-if-config	show running config for all-policies

## Command Mode

- /exec

# show running-config ipv6

show running-config ipv6 [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
ipv6		Display ipv6 information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config isis

show running-config isis [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operationg configuration
isis		Display isis information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config l3vm

show running-config l3vm [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operationg configuration
l3vm		Display l3vm information
all		(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config ldap

show running-config ldap [ all ]

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
ldap	Display ldap configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config license

show running-config license [ all ]

## Syntax Description

Syntax	Description
show	show
running-config	show running system information
license	Display licensing configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config lisp

show running-config lisp [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operationg configuration
lisp		Display lisp information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config lldp

show running-config lldp [ all ]

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
lldp	Display lldp configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config mmode

show running-config mmode [ all ]

## Syntax Description

Syntax Description		
show	Show running system information	
running-config	Show running configuration	
mmode	Display maintenance mode running configuration	
all	(Optional) Show running config with defaults	

## Command Mode

- /exec

# show running-config monitor

show running-config monitor [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
monitor		Configure Ethernet SPAN sessions
all		(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config mpls ldp

show running-config mpls ldp [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
mpls		Display MPLS status and configuration
ldp		Label Distribution Protocol
all		(Optional) Display running-config with defaults

## Command Mode

- /exec

# show running-config mpls static

```
show running-config mpls static [ all ]
```

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
mpls		Display MPLS status and configuration
static		Static Label Bindings
all		(Optional) Display running-config with defaults

## Command Mode

- /exec

# show running-config mpls strip

```
show running-config mpls strip [ all ]
```

## Syntax Description

Syntax Description		
show		Show running system information
mpls		Configure MPLS settings
strip		Stripping of MPLS headers
running-config		System running configuration
all		(Optional) Show running configuration for STRIPCL with defaults

## Command Mode

- /exec



# show running-config mpls traffic-eng

show running-config mpls traffic-eng [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
mpls		show running config for mpls features
traffic-eng		show running-config for Traffic Engineering
all		(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config msdp

show running-config msdp [ all ]

## Syntax Description

---

**Syntax Description**

show	Show running system information
running-config	Current operationg configuration
msdp	Display msdp information
all	(Optional) Display running config with defaults clis

---

**Command Mode**

- /exec

# show running-config nat

show running-config nat [ all ]

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
nat	Display NAT configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config nbm

show running-config nbm

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
nbm		show running config for Non Blocking Multicast

## Command Mode

- /exec

# show running-config netflow

show running-config { netflow | nfm } [ all ]

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Show running system information
netflow	Show NetFlow configuration
nfm	Show NFM configuration
all	(Optional) Show config with defaults

## Command Mode

- /exec

# show running-config ngoam

show running-config ngoam [ all ]

## Syntax Description

---

### Syntax Description

---

show	Show running system information
running-config	Show running system information
ngoam	ngoam configuration
all	(Optional) Show running config with defaults

---

## Command Mode

- /exec

# show running-config ntp

show running-config ntp [ all ]

## Syntax Description

Syntax Description		
show		Show information
running-config		Show running system configuration
ntp		Show NTP information
all		(Optional) Show all NTP running configuration

## Command Mode

- /exec

# show running-config nv overlay

show running-config nv overlay [ all ]

## Syntax Description

Syntax Description		
show		Show system information
running-config		System running configuration
nv		NVE running configuration
overlay		NVE running configuration
all		(Optional) Show NVE running configuration defaults

## Command Mode

- /exec



# show running-config openflow

show running-config openflow [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
openflow		Show running config for OpenFlow agent
all		(Optional) Show running config with defaults

## Command Mode

- /exec

# show running-config ospf

show running-config ospf [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operationg configuration
ospf		Display ospf information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config ospfv3

show running-config ospfv3 [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operationg configuration
ospfv3		Display ospfv3 information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config otv-isis

show running-config otv-isis [ all ]

## Syntax Description

---

**Syntax Description**

show	Show running system information
running-config	Current operationg configuration
otv-isis	Display otv-isis information
all	(Optional) Display running config with defaults clis

---

**Command Mode**

- /exec

# show running-config otv

show running-config otv [ all ]

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operationg configuration
otv	Display otv information
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config param-list

```
show running-config param-list [ <plistname> ]
```

## Syntax Description

Syntax Description		
show		Show running-cfg
running-config	show running	configuration
param-list		Display param-list configuration
<i>plistname</i>	(Optional)	Enter the name of the param list

## Command Mode

- /exec

# show running-config pim

show running-config pim [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operationg configuration
pim		Display pim information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config pim6

show running-config pim6 [ all ]

## Syntax Description

---

**Syntax Description**

show	Show running system information
running-config	Current operationg configuration
pim6	Display pim6 information
all	(Optional) Display running config with defaults clis

---

**Command Mode**

- /exec



# show running-config port-profile

show running-config port-profile [ <all\_profile\_name> ]

## Syntax Description

<b>Syntax Description</b>	show	Show running-cfg
	running-config	show running configuration
	port-profile	Display port-profile configuration
	<i>all_profile_name</i>	(Optional) Enter the name of the profile

## Command Mode

- /exec

# show running-config port-security

show running-config port-security [ all ]

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
port-security	Display port-security configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config ptp

show running-config ptp [ all ]

## Syntax Description

Syntax Description	Description
running-config	Current operating configuration
ptp	show running config for ptp
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config radius

show running-config radius [ all ]

## Syntax Description

Syntax	Description
show	show running-cfg
running-config	show running system information
radius	Display radius configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config res\_mgr

show running-config res\_mgr

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration
res_mgr	Show resource configuration for VDC

## Command Mode

- /exec

# show running-config rip

show running-config rip [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operationg configuration
rip		Display rip information
all		(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config rpm

show running-config rpm [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
rpm		Display Route Policy Manager (RPM) information
all		(Optional) Display running config with defaults

## Command Mode

- /exec

# show running-config rsvp

show running-config rsvp

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
rsvp		Display RSVP status

## Command Mode

- /exec



# show running-config section

show running-config section <section>

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
section		show only a particular section of running-config (in format needed for 'merge config' command)
<i>section</i>		the section to show, a regular expression, (use a dot for a space)

## Command Mode

- /exec

# show running-config security

show running-config security [ all ]

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
security	Display security configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config services

show running-config services

## Syntax Description

Syntax Description		
	show	show running-cfg
	running-config	show running system information
	services	services

## Command Mode

- /exec

# show running-config services

show running-config services

## Syntax Description

Syntax Description		
	show	show running-cfg
	running-config	show running system information
	services	services

## Command Mode

- /exec

# show running-config sflow

show running-config sflow [ all ]

## Syntax Description

Syntax Description	
running-config	Current operating configuration
sflow	show running config for sflow
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config sla responder

show running-config sla responder

## Syntax Description

Syntax Description		
show	show running-cfg	
running-config	show running system information	
sla	Service Level Agreement (SLA)	
responder	Show information about sla-responder	

## Command Mode

- /exec

# show running-config sla sender

show running-config sla sender

## Syntax Description

Syntax Description		
show		show running-cfg
running-config		show running system information
sla		Service Level Agreement (SLA)
sender		Show information about sla-sender

## Command Mode

- /exec

# show running-config snmp

show running-config snmp [ all ]

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
snmp	Display snmp configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config spanning-tree

```
show running-config spanning-tree [ <all> | interface <interface_range> ]
```

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
spanning-tree		Show spanning tree information
<i>all</i>		(Optional)
interface		(Optional) Specify an interface as a target for the command
<i>interface_range</i>		(Optional)

## Command Mode

- /exec

# show running-config switch

show running-config { switch-profile | include-switch-profile }

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
switch-profile		Show switch-profile information
include-switch-profile		Show running and switch-profile configuration

## Command Mode

- /exec

# show running-config tacacs

show running-config tacacs + [ all ]

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config telemetry

show running-config telemetry [ all ]

## Syntax Description

Syntax Description	
show	show running-cfg
running-config	show running system information
telemetry	Display telemetry configuration
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config track

show running-config track [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Show the system running information
track		Show track running configuration
all		(Optional) Show track running configuration defaults

## Command Mode

- /exec

# show running-config udd

show running-config udd [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
udd		Show udd configuration
all		(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config vdc-all

show running-config vdc-all [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
vdc-all		Display config from all VDC
all		(Optional) Display config from all VDC including defaults

## Command Mode

- /exec

# show running-config vdc

show running-config vdc [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
vdc		Show Virtual Device Contexts
all		(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config virtual-service

show running-config virtual-service

## Syntax Description

Syntax Description	
show	Show running system information
running-config	Current operating configuration
virtual-service	Show running config for virtualization services

## Command Mode

- /exec

# show running-config vlan

show running-config vlan <vlan-id> [ expand-port-profile ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
vlan		Vlan commands
<i>vlan-id</i>		VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
expand-port-profile	(Optional)	Expand port profile

## Command Mode

- /exec

# show running-config vlan

show running-config vlan

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands

## Command Mode

- /exec

# show running-config vmtracker

show running-config vmtracker [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
vmtracker		show running config for vmtracker
all		(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config vpc

show running-config vpc [ all ]

## Syntax Description

Syntax	Description
running-config	Current operating configuration
vpc	show running config for vPC
all	(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config vrf

show running-config vrf <vrf-cfg-name> [ all ]

## Syntax Description

Syntax Description		
show	Show running system information	
running-config	Current operationg configuration	
vrf	Display VRF information	
<i>vrf-cfg-name</i>	Configurable VRF name	
all	(Optional) Display running config with defaults clis	

## Command Mode

- /exec

# show running-config vrf default

```
show running-config vrf default [ all ]
```

## Syntax Description

Syntax	Description
show	Show running system information
running-config	Current operationg configuration
vrf	Display VRF information
default	Known VRF name
all	(Optional) Display running config with defaults clis

## Command Mode

- /exec

# show running-config vrrp

show running-config vrrp [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
vrrp		Display VRRP running configuration
all		(Optional) show running config with defaults

## Command Mode

- /exec



# show running-config vrrpv3

show running-config vrrpv3 [ all ]

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
vrrpv3		Show running config for VRRPv3
all		(Optional) show running config with defaults

## Command Mode

- /exec

# show running-config vshd

show running-config vshd

## Syntax Description

Syntax Description		
show		Show running system information
running-config		Current operating configuration
vshd		Show running config for vshd

## Command Mode

- /exec