



XML Support for BNG Features

Most BNG features, such as AAA, DHCP, Policy Plane, PPPoE, DAPS, and Subscriber Database support XML based router configuration. The Cisco XML API can be used to configure routers or request information about configuration, management, and operation of the routers. For details about using the Cisco XML API, see the latest release of *Cisco IOS XR XML API Guide* listed at http://www.cisco.com/en/US/products/ps9853/products_programming_reference_guides_list.html.

The Cisco XML API uses XML commands to configure the router. The following sections list the supported XML commands for the BNG features.

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AAA XML Support

The support for XML is available for RADIUS that retrieves the accounting and authorization request statistics. The mapping between CLI and XML entries for the AAA commands are as follows:

| CLI | XML |
|---|--------------------------------|
| radius-server dead-criteria time | AAA.RADIUS. DeadCriteria.Time |
| radius-server dead-criteria tries | AAA.RADIUS. DeadCriteria.Tries |
| radius-server ipv4 dscp <value> | AAA.RADIUS. IPv4.DSCP |
| radius-server key {0 7 LINE} | AAA.RADIUS.Key |
| radius-server retransmit <limit> | AAA.RADIUS.Retransmit |

| CLI | XML |
|--|--|
| radius-server timeout <number> | AAA.RADIUS.Timeout |
| radius-server source-port extended | AAA.RADIUS.SourcePort.Extended |
| radius-server deadtime | AAA.RADIUS.DeadTime |
| radius-server load-balance method least-outstanding | AAA.RADIUS.LoadBalance.Method.LeastOutstanding |
| radius-server attribute list <attribute-name> | AAA.RADIUS.AttributeListTable.AttributeList.Enable |
| radius-server attribute list <attribute-name> attribute <radius-attributes> | AAA.RADIUS.AttributeListTable.AttributeList.Attribute |
| radius-server vsa attribute ignore unknown | AAA.RADIUS.VSA.Attribute.Ignore.Unknown |
| Radius-server host <> retransmit | AAA.RADIUS.HostTable.Host.Retransmit |
| Radius-server host <> timeout | AAA.RADIUS.HostTable.Host.Timeout |
| radius-server host <> key {0 7 LINE} | AAA.RADIUS.HostTable.Host.Key |
| aaa server radius dynamic-author client <ip-address> vrf <vrf-name> server-key {0 7 LINE} | AAA.RADIUS.DynamicAuthorization.ClientTable.Client.ServerKey |
| aaa server radius dynamic-author ignore {server key session key } | AAA.RADIUS.DynamicAuthorization.Ignore |
| aaa server radius dynamic-author port <port num> | AAA.RADIUS.DynamicAuthorization.Port |

| CLI | XML |
|---|--|
| aaa accounting system default start-stop [broadcast] {group {radius NAME1}} [group NAME2..] aaa accounting system rp-failover default start-stop [broadcast] {group {radius NAME1}} [group NAME2.. | AAA.AccountingTable.Accounting |
| aaa radius attribute nas-port-id format FORMAT_NAME | AAA.RADIUSAttribute.NASPortID.Format |
| aaa group server radius <group-name> { authorization } { reply reject} <name> | AAA.ServerGroups.RADIUSServerGroupTable.RADIUSServerGroup.Authorization.Reply |
| aaa group server radius <group-name> { authorization } { accept request } <name> | AAA.ServerGroups.RADIUSServerGroupTable.RADIUSServerGroup.Authorization.Request |
| aaa group server radius <group-name> { accounting } { accept request} <name> | AAA.ServerGroups.RADIUSServerGroupTable.RADIUSServerGroup.Accounting.Request |
| aaa group server radius <group-name> { accounting } { reply reject} <name> | AAA.ServerGroups.RADIUSServerGroupTable.RADIUSServerGroup.Accounting.Reply |
| aaa group server radius <group-name> load-balance | AAA.ServerGroups.RADIUSServerGroupTable.RADIUSServerGroup.LoadBalance.Method.LeastBounding |

| CLI | XML |
|---|--|
| method least-bounding | |
| aaa group server radius group1 source-interface | AAA.ServerGroups.RADIUSServerGroupTable.RADIUSServerGroup.SourceInterface |
| aaa group server radius <radius-group> vrf <> | AAA.ServerGroups.RADIUSServerGroupTable.RADIUSServerGroup.VRF |
| aaa group server radius <radius-group> deadtime <> | AAA.ServerGroups.RADIUSServerGroupTable.RADIUSServerGroup.DeadTime |
| aaa group server radius <> server-private <host> | AAA.ServerGroups.RADIUSGroupTable.RADIUSGroup.PrivateServerTable.PrivateServer |
| show radius accounting | RADIUS.Accounting |
| show radius authentication | RADIUS.Authentication |
| show radius client | RADIUS.Client |
| show radius dynamic-author | RADIUS.DynamicAuthorization |
| show radius dead-criteria host <ip> | RADIUS.DeadCriteria.HostTable.Host |
| show radius server-groups | RADIUS.ServerGroups |

DHCP XML Support

The support for XML is available for DHCP that retrieves the client bindings, profile information, and DHCPv4 proxy statistics. It allows the management clients to perform client bindings based on Circuit-ID, Remote-ID, Mac-Address, user profile information, and DHCPv4 proxy statistics. The mapping between CLI and XML entries for the DHCP commands are as follows:

| CLI | XML |
|---|--|
| dhcp ipv4 profile <name> proxy relay information check | DHCPv4.ProfileTable.Profile.Proxy.RelayInformation.Check |

| CLI | XML |
|--|---|
| dhcp ipv4 profile <name>proxy relay information option[vpn allow-untrusted remote-id <name>] | DHCPv4.ProfileTable.Profile.Proxy.RelayInformation.AllowUntrusted DHCPv4.ProfileTable.Profile.Proxy.RelayInformation.VPN DHCPv4.ProfileTable.Profile.Proxy.RelayInformation.RemoteID |
| dhcp ipv4 interface GigabitEthernet <interface-name> proxy profile <name> | DHCPv4.InterfaceTable.Interface.Proxy.Profile |
| dhcp ipv4 profile <name>proxy relay information policy [drop keep replace] | DHCPv4.ProfileTable.Profile.Proxy.RelayInformation.Policy |
| dhcp ipv4 profile <name>proxy helper-address [vrf <name>] <server-ip-addr> [giaddr <ip-addr>] | DHCPv4.ProfileTable.Profile.Proxy.VRFTable.VRF.HelperAddressTable.HelperAddress |
| dhcp ipv4 profile <name> proxy broadcast-flag policy check | DHCPv4.ProfileTable.Profile.Proxy.BroadcastFlag.Policy |
| dhcp ipv4 profile <name>proxy class <class-name> helper-address [vrf <name>] <server-ip-addr> [giaddr <ip-addr>] match vrf <name> match option [124 125 60 77] hex <value> [mask <value>] | DHCPv4.ProfileTable.Profile.Proxy.ClassTable.Class DHCPv4.ProfileTable.Profile.Proxy.ClassTable.Class.VRFTable.VRF.HelperAddressTable.HelperAddress DHCPv4.ProfileTable.Profile.Proxy.ClassTable.Class.Match.VRF DHCPv4.ProfileTable.Profile.Proxy.ClassTable.Class.Match.Option |
| dhcp ipv4 interface <interface> none | DHCPv4.InterfaceTable.Interface.None |

| CLI | XML |
|---|--|
| dhcp ipv4 interface <interface> proxy [information option format-type circuit-id <cir-id>] | DHCPv4.InterfaceTable.Interface.Proxy.CircuitID |
| dhcp ipv4 vrf vrfname proxy profile <name> | DHCPv4.VRFTable.VRF |
| show dhcp ipv4 proxy binding circuit-id <cid> location <locationSpecifier> | DHCPv4.NodeTable.Node.Proxy.Binding.ClientTable[DHCPv4ProxyCircuitIDFilter (Naming C |
| show dhcp ipv4 proxy binding remote-id <rid> location <locationSpecifier> | DHCPv4.NodeTable.Node.Proxy.Binding.ClientTable[DHCPv4ProxyRemoteIDFilter (Naming Re |
| show dhcp ipv4 proxy binding interface <ifSpecifier> | DHCPv4.NodeTable.Node.Proxy.Binding.ClientTable[DHCPv4ProxyInterfaceFilter (Naming Int |
| show dhcp ipv4 proxy binding mac-address <addr> location <locationSpecifier> | DHCPv4.NodeTable.Node.Proxy.Binding.ClientTable[DHCPv4ProxyMACAddressFilter (Naming |
| show dhcp ipv4 proxy binding location <locationSpecifier> | DHCPv4.NodeTable.Node.Proxy.Binding.ClientTable[DHCPv4ProxyBriefFilter] |
| show dhcp ipv4 proxy binding detail location <locationSpecifier> | DHCPv4.NodeTable.Node.Proxy.Binding.ClientTable.Client |
| show dhcp ipv4 proxy binding summary location <locationSpecifier> | DHCPv4.NodeTable.Node.Proxy.Binding.Summary |
| show dhcp ipv4 proxy binding vrf <vrfname> | DHCPv4.NodeTable.Node.Proxy.Binding.ClientTable[DHCPv4PProxyVRFFilter (Naming VRFName |

| CLI | XML |
|--|---|
| show dhcp ipv4 proxy profile name <profile-name> location <locationSpecifier> | DHCPv4.NodeTable.Node.Proxy.ProfileTable.Profile |
| show dhcp vrf <name> ipv4 proxy statistics location <locationSpecifier> | DHCPv4.NodeTable.Node.Proxy.VRFTable.VRF.Statistics |
| show dhcp ipv4 proxy statistics [location < loc >] | DHCPv4.NodeTable.Node.Proxy.Statistics |

Control Policy XML Support

The support for XML is available for policy plane that retrieves subscriber management and subscriber session related information. The mapping between CLI and XML entries for the control policy commands are as follows:

| CLI | XML |
|--|---|
| interface <intf> service-policy type control subscriber <policy-name> | InterfaceConfigurationTable.InterfaceConfiguration.ControlSubscriber.ServicePolicy |
| sh sub sess all loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable |
| sh sub sess all detail loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberDetailAllSessionFilter) |
| sh sub sess all summary loc <loc> | Subscriber.Session.NodeTable.Node.Summary |
| sh sub sess all username loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberAllUsernameFilter) |
| sh sub sess filter interface | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberInterfaceBriefFilter) {Naming InterfaceName} |

| CLI | XML |
|---|---|
| <intf-name> loc <loc> | |
| sh sub sess filter interface <intf-name> detail loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberInterfaceDetailFilter) {Naming InterfaceName} |
| sh sub sess filter ipv4-address <IPv4-addr> loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberIPv4AddressVRFDetailFilter) {Naming VRF Name, Address} |
| sh sub sess filter ipv4-address <IPv4-addr> detail loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberIPv4AddressVRFBriefFilter) {Naming VRF Name, Address} |
| sh sub sess filter mac-address <mac-addr> loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberMACAddressBriefFilter) {Naming MACAddress} |
| sh sub sess filter mac-address <mac-addr> detail loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberMACAddressDetailFilter) {Naming MACAddress} |
| sh sub sess filter state <state> loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberStateBriefFilter) {Naming State} |
| sh sub sess filter state <state> detail loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberStateDetailFilter) {Naming State} |
| sh sub sess filter username <uname> loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberUsernameBriefFilter) {Naming Username} |
| sh sub sess filter | Subscriber.Session.NodeTable.Node.SessionTable (SubscriberUsernameDetailFilter) {Naming Username} |

| CLI | XML |
|---|---|
| username <uname> detail loc <loc> | |
| sh sub sess filter ipv4-address <IPv4 addr> vrf <vrf> loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable(SubscriberIPv4AddressVRFBriefFilter) {Naming VRF Name, Address} |
| sh sub sess filter ipv4-address <IPv4-addr> vrf <vrf> detail loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable(SubscriberIPv4AddressVRFDetailFilter) {Naming VRF Name, Address} |
| sh sub sess filter vrf <vrf-name> loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable(SubscriberIPv4AddressVRFBriefFilter) {Naming VRF Name, Address } |
| sh sub sess filter vrf <vrf-name> detail loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable(SubscriberIPv4AddressVRFDetailFilter) {Naming VRF Name, Address } |
| sh sub sess sub-label <0-ffffff> loc <loc> | Subscriber.Session.NodeTable.Node.SessionTable.Session{Naming SessionID} |
| sh sub man stat AAA accounting loc <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AAA.Accounting |
| sh sub man stat AAA accounting total loc <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AAA.AggregateAccounting |
| sh sub man stat AAA authentication loc <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AAA.Authentication |
| sh sub man stat AAA | Subscriber.Manager.NodeTable.Node.Statistics.AAA.AggregateAuthentication |

| CLI | XML |
|--|---|
| authentication total loc <loc> | |
| sh sub man stat AAA authorization loc <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AAA.Authorization |
| sh sub man stat AAA authorization total loc <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AAA.AggregateAuthorization |
| sh sub man stat AAA COA loc <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AAA.ChangeOfAuthorization |
| sh sub man stat AAA COA total loc <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AAA.AggregateChangeOfAuthorization |
| sh sub man stat AAA all loc <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AAA |
| sh sub man stat AAA all total loc <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AAA |
| sh sub man stats summary total <loc> | Subscriber.Manager.NodeTable.Node.Statistics.AggregateSummary |

DAPS XML Support

The support for XML is available for distributed address pool service (DAPS) that retrieves the pool parameters for distributed address pool services, and allows the management clients to get number of free, allocated and excluded addresses based on VRF and pool name. The mapping between CLI and XML entries for the DAPS commands are as follows:

| CLI | XML |
|---|--|
| pool vrf <vrf-name> ipv4 <poolname>pool ipv4 <poolname> | PoolService.VRFTTable.VRF.IPv4.Pool.Enable |
| pool vrf <VRFName> ipv4 <PoolName> * address-range <RangeStart> <RangeEnd>pool ipv4 <PoolName> * address-range <RangeStart> <RangeEnd> | PoolService.VRFTTable.VRF.IPv4.Pool.AddressRangeTable.AddressRange |

| CLI | XML |
|--|---|
| pool vrf <VRFName> ipv4 <PoolName> * exclude <RangeStart> <RangeEnd> pool vrf <VRFName> ipv4 <PoolName> * exclude <RangeStart> <RangeEnd> pool ipv4 <PoolName> * exclude <RangeStart> <RangeEnd> | PoolService.VRFTable.VRF.IPv4.Pool.ExcludeTable.Exclude |
| Pool vrf <VRFName> ipv4 <PoolName> utilization-mark high <> pool ipv4 <PoolName> utilization-mark high <> | PoolService.VRFTable.VRF.IPv4.Pool.UtilizationMark.High |
| Pool vrf <VRFName> ipv4 <PoolName> utilization-mark low <> pool ipv4 <PoolName> utilization-mark low <> | PoolService.VRFTable.VRF.IPv4.Pool.UtilizationMark.Low |
| show pool vrf <vrf-name> ipv4 | PoolService.NodeTable.Node.VRFTable.VRF.IPv4 |
| show pool ipv4 name <poolname> | PoolService.NodeTable.Node.PoolTable.Pool.IPv4.Detail |
| show pool ipv4 name <poolname> verbose | PoolService.NodeTable.Node.PoolTable.Pool.IPv4.Verbose |
| show pool ipv4 show pool vrf all ipv4 | PoolService.NodeTable.Node.VRFTable |

PPPoE XML Support

XML support is available for PPP over Ethernet (PPPoE) sessions. The mapping between CLI and XML entries for the PPPoE feature commands are:

| CLI | XML |
|--|--|
| pado delay {<delay>} | set PadoDelay.Default {<delay>} |
| pado delay circuit-id {<delay>} | set PadoDelay.CircuitId {<delay>} |
| pado delay remote-id {<delay>} | set PadoDelay.RemoteId {<delay>} |
| pado delay circuit-id string {<string>} {<delay>} | set PadoDelay.CircuitIdString{<string>} {<delay>} |
| pado delay circuit-id contains {<string>} {<delay>} | set PadoDelay.CircuitIdSubString{<string>} {<delay>} |
| pado delay remote-id string {<string>} {<delay>} | set PadoDelay.RemoteIdString{<string>} {<delay>} |
| pado delay remote-id contains {<string>} {<delay>} | set PadoDelay.RemoteIdSubString{<string>} {<delay>} |
| pado delay service-name string {<string>} {<delay>} | set PadoDelay.ServiceNameString{<string>} {<delay>} |
| pado delay service-name contains {<string>} {<delay>} | set PadoDelay.ServiceNameSubString{<string>} {<delay>} |
| pppoe session-id space flat | set SessionIDSpaceFlat {TRUE} |
| pppoe bba-group {<group-name>} | PPPoECfg.BBAGroup {<group-name>} |

| CLI | XML |
|--|--|
| pppoe enable bba-group {<group-name>} | set PPPoE.EnableBBAGroup {<group-name>} |
| ac name {<name>} | set Tags.ACName {<name>} |
| service name {<name>} | set Tags.ServiceName(<name>).ServiceNameConfigured |
| service selection disable | set Tags.ServiceSelectionDisable |
| tag ppp-max-payload deny | set Tags.PPPMaxPayloadDeny |
| tag ppp-max-payload minimum {<min>} maximum {<max>} | set Tags.PPPMaxPayload {<min>,<max>} |
| mtu {<mtu>} | set MTU {<mtu>} |
| sessions max limit {limit} threshold {<threshold>} | set Sessions.MaxLimit {<limit>,<threshold>} |
| sessions access-interface limit {<count>} [threshold {<threshold>}] | set Sessions.AccessInterfaceLimit {<count>,<threshold>} |
| sessions mac limit {<count>} [threshold {<threshold>}] | set Sessions.MacLimit {<count>,<threshold>} |
| sessions mac-iwf limit {<count>} [threshold {<threshold>}] | set Sessions.MacIWFLimit {<count>,<threshold>} |
| sessions mac access-interface limit {<count>} [threshold {<threshold>}] | set Sessions.MacAccessInterfaceLimit {<count>,<threshold>} |
| sessions mac-iwf access-interface limit {<count>} [threshold {<threshold>}] | set Sessions.MacIWFAccessInterfaceLimit {<count>,<threshold>} |
| sessions circuit-id limit {<count>} [threshold {<threshold>}] | set Sessions.CircuitIDLimit {<count>,<threshold>} |
| sessions remote-id limit {<count>} [threshold {<threshold>}] | set Sessions.RemoteIDLimit {<count>,<threshold>} |
| sessions circuit-id-and-remote-id limit {<count>} [threshold {<threshold>}] | set Sessions.CircuitIDAndRemoteIDLimit {<count>,<threshold>,<radius-override>} |
| sessions inner-vlan limit {<count>} [threshold {<threshold>}] | set Sessions.InnerVLANLimit {<count>,<threshold>} |
| sessions mac throttle {<request-count> <request-period> <blocking-period>} | set Sessions.MacThrottle {<request-count>,<request-period>,<blocking-period>} |
| sessions mac access-interface throttle {<request-count> <request-period> <blocking-period>} | set Sessions.MacAccessInterfaceThrottle {<request-count>,<request-period>,<blocking-period>} |
| sessions mac-iwf access-interface throttle {<request-count> <request-period> <blocking-period>} | set Sessions.MacIWFAccessInterfaceThrottle {<request-count>,<request-period>,<blocking-period>} |
| sessions circuit-id throttle {<request-count> <request-period> <blocking-period>} | set Sessions.CircuitIDThrottle {<request-count>,<request-period>,<blocking-period>} |

| CLI | XML |
|--|---|
| sessions remote-id throttle {<request-count> <request-period> <blocking-period>} | set Sessions.RemoteIDThrottle {<request-count>,<request-period>,<blocking-period>} |
| sessions circuit-id-and-remote-id throttle {<request-count> <request-period> <blocking-period>} | set Sessions.CircuitIDAndRemoteIDThrottle {<request-count>,<request-period>,<blocking-period>} |
| sessions inner-vlan throttle {<request-count> <request-period> <blocking-period>} | set Sessions.InnerVLANThrottle {<request-count>,<request-period>,<blocking-period>} |
| control-packets priority {<cos>} | set ControlPackets.Priority {<cos>} |
| invalid-session-id drop | set InvalidSessionID {DROP} |
| invalid-session-id log | set InvalidSessionID {LOG} |

Subscriber Database XML Support

The support for XML is available for subscriber database that retrieves the subscriber association and session information and allows the management clients to get subscriber session state, subscriber session information based on unique subscriber label, subscriber association information based on unique subscriber label or interface name or dynamic template name or type. The mapping between CLI and XML entries for the subscriber database commands are as follows:

| CLI | XML |
|---|--|
| show subscriber database association br location <> | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label {Naming SubscriberLabel} |
| show subscriber database association subscriber-label <> br location<> | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label {Naming SubscriberLabel} |
| show subscriber database association location <> | Subscriber.Database.NodeTable.Node.Association (SubscriberDatabaseLabelDetailFilter) |
| show subscriber database association interface-name <> br location<> | Subscriber.Database.NodeTable.Node.Association (SubscriberDatabaseInterfaceBriefFilter) {Naming InterfaceName} |
| show subscriber database association interface-name <> location<> | Subscriber.Database.NodeTable.Node.Association (SubscriberDatabaseInterfaceFilter) {Naming InterfaceName} |
| show subscriber database association type < ipsubscriber ppp service-profile subscriber-service> br location <> | Subscriber.Database.NodeTable.Node.Association (SubscriberDatabaseTemplateTypeBriefFilter) {Naming TemplateType} |

| CLI | XML |
|---|--|
| show subscriber database association type < ipsubscriber ppp service-profile subscriber-service> location <> | Subscriber.Database.NodeTable.Node.Association(SubscriberDatabaseTemplateTypeFilter) {Naming TemplateType} |
| show subscriber database session state <all> cfgapply cfgdone cfggen cfgunapply destroying error fatgen init sync> | Subscriber.Database.NodeTable.Node.Session(SubscriberDatabaseSessionStateFilter) {Naming Session-State} |
| show subscriber database session subscriber-label <> location <> | Subscriber.Database.NodeTable.Node.Session.LabelTable.Label {Naming SubscriberLabel} |
| association subscriber-label <0x0-0xffffffff> brief location R/S/M | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label |
| association subscriber-label <0x0-0xffffffff> brief | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label |
| association subscriber-label <0x0-0xffffffff> location R/S/M | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label |
| association subscriber-label <0x0-0xffffffff> | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label |
| association interface-name <ifname> brief location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberInterfaceBriefFilter (Naming InterfaceName)] |
| association interface-name <ifname> brief | Subscriber.Database.NodeTable.Node.Association[SubscriberInterfaceBriefFilter (Naming InterfaceName)] |
| association interface-name <ifname> location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberInterfaceFilter (Naming InterfaceName)] |
| association interface-name <ifname> | Subscriber.Database.NodeTable.Node.Association[SubscriberInterfaceFilter (Naming InterfaceName)] |
| association type ppp brief location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type ppp brief | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type ppp location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type ppp | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |

| CLI | XML |
|---|---|
| association type ipsubscriber brief location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type ipsubscriber brief | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type ipsubscriber location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type ipsubscriber | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type subscriber-service brief location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type subscriber-service brief | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type subscriber-service location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type subscriber-service | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type service-profile brief location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type service-profile brief | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type service-profile location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type service-profile | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type user-profile brief location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type user-profile brief | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type user-profile location R/S/M | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association type user-profile | Subscriber.Database.NodeTable.Node.Association[SubscriberTemplateType (Naming TemplateType)] |
| association brief location R/S/M | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label |
| association brief | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label |

| CLI | XML |
|---|---|
| association location R/S/M | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label |
| association | Subscriber.Database.NodeTable.Node.Association.LabelTable.Label |
| session subscriber-label <0x0-0xffffffff> location R/S/M | Subscriber.Database.NodeTable.Node.Session.LabelTable.Label |
| session subscriber-label <0x0-0xffffffff> | Subscriber.Database.NodeTable.Node.Session.LabelTable.Label |
| session state init location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state init | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state destroying location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state destroying | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfggen location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfggen | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state fatgen location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state fatgen | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfgapply location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfgapply | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfgdone location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfgdone | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfgunapply location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfgunapply | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfgerror location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state cfgerror | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |

| CLI | XML |
|---|---|
| session state error location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state error | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state sync location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state sync | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state all location R/S/M | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |
| session state all | Subscriber.Database.NodeTable.Node.Session[SubscriberSessionStateFilter (Naming State)] |

