

Comware V7 Route NETCONF XML API Data Reference

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Route

Route/Ipv4Routes

This table contains IPv4 route information.

XML structure

```
<Route>
  <Ipv4Routes>
    <RouteEntry>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv4>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4>
      <Nexthop></Nexthop>
      <IfIndex></IfIndex>
      <Protocol>
        <ProtocolID></ProtocolID>
        <SubProtocolID></SubProtocolID>
      </Protocol>
      <ProcessID></ProcessID>
      <Age></Age>
      <Preference></Preference>
      <Metric></Metric>
      <Tag></Tag>
      <Neighbor></Neighbor>
      <ASNumber>
        <OriginAS></OriginAS>
        <LastAS></LastAS>
      </ASNumber>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthop></BackupNexthop>
      </BackupPathAttribute>
    </RouteEntry>
  </Ipv4Routes>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4Routes
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 1 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 1 to 31 characters.	Null denotes default topology.
Ipv4	Destination IPv4 prefix.	Data structure	Members include: - Ipv4Address. - Ipv4PrefixLength.	The two members must both be specified.
Ipv4Address	Destination IPv4 address.	index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	index	Unsigned integer. Value range: 0 to 32.	N/A
Nexthop	Nexthop IPv4 address.	index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
IfIndex	Interface index.	index	Unsigned integer.	N/A
Protocol	Routing protocol.	Data structure	Members include: - ProtocolID. - SubProtocolID.	N/A
ProtocolID	Routing protocol ID.	N/A	Enumeration: 1—DIRECT. 2—STATIC. 3—RIP. 4—OSPF. 5—IS-IS. 6—BGP.	N/A
SubProtocolID	Routing sub-protocol ID.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProcessID	Process ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Age	Route alive time.	N/A	Unsigned integer. Unit is second.	N/A
Preference	Route preference.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Metric	Route metric.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Neighbor	Neighbor.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ASNumbr	Autonomy system.	Data structure	Members include: • OriginAS. • LastAS.	N/A
OriginAS	Original AS.	N/A	Unsigned integer.	N/A
LastAS	Last AS.	N/A	Unsigned integer.	N/A
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNextHop.	N/A
BackupIfIndex	Backup interface index.	N/A	• Unsigned integer.	N/A
BackupNextHop	Backup nexthop IPv4 address.	N/A	• String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.

Route/Ipv6Routes

This table contains IPv6 route information.

XML structure

```

<Route>
  <Ipv6Routes>
    <RouteEntry>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
    </RouteEntry>
  </Ipv6Routes>
</Route>

```

```

</Ipv6Prefix >
<Nexthop></Nexthop>
<IfIndex></IfIndex>
<Protocol>
  <ProtocolID></ProtocolID>
  <SubProtocolID></SubProtocolID>
</Protocol>
<ProcessID></ProcessID>
<Age></Age>
<Preference></Preference>
<Metric></Metric>
<Tag></Tag>
<Neighbor></Neighbor>
<ASNumber>
  <OriginAS></OriginAS>
  <LastAS></LastAS>
</ASNumber>
<BackupPathAttribute>
  <BackupIfIndex></BackupIfIndex>
  <BackupNexthop></BackupNexthop>
</BackupPathAttribute>
</RouteEntry>
</Ipv6Routes>
</Route>

```

Table description

Item	Description
Feature name	Route
Table name	Ipv6Routes
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 1 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 1 to 31 characters.	Null denotes default topology.
Ipv6Prefix	Destination IPv6 prefix.	Data structure	Members include: Ipv6Address.	The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			IPv6PrefixLength.	
IPv6Address	Destination IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1.
IPv6PrefixLength	Length of the destination IPv6 address prefix.	index	Unsigned integer. Value range: 0 to 128.	N/A
NextHop	NextHop IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1. 0::0 is an invalid value.
IfIndex	Interface index.	index	Unsigned integer.	N/A
Protocol	Routing protocol.	Data structure	Members include: - ProtocolID. - SubProtocolID.	N/A
ProtocolID	Routing protocol ID.	N/A	Enumeration: 1—DIRECT. 2—STATIC. 3—RIPng. 4—OSPFv3. 5—IS-ISv6. 6—BGP4+.	N/A
SubProtocolID	Routing sub-protocol ID.	N/A	Unsigned integer.	N/A
ProcessID	Process ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Age	Route alive time.	N/A	Unsigned integer. Unit is second.	N/A
Preference	Route preference.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Metric	Route metric.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Neighbor	Neighbor.	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1.
ASNummer	Autonomy system.	Data structure	Members include: - OriginAS. - LastAS.	N/A
OriginAS	Original AS.	N/A	Unsigned integer.	N/A
LastAS	Last AS.	N/A	Unsigned integer.	N/A
BackupPathAttribute	Backup path attribute.	Data structure	Members include: BackupIfIndex.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			BackupNextHop.	
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	N/A
BackupNextHop	Backup nexthop IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1. 0::0 is an invalid value.

Route/Ipv4RouteStatistics

This table contains IPv4 route statistic information.

XML structure

```

<Route>
  <Ipv4RouteStatistics>
    <Statistics>
      <VRF></VRF>
      <Topology></Topology>
      <ProtocolID></ProtocolID>
      <TotalRoutes></TotalRoutes>
      <ActiveRoutes></ActiveRoutes>
      <AddedRoutes></AddedRoutes>
      <DeletedRoutes></DeletedRoutes>
    </Statistics>
  </Ipv4RouteStatistics>
</Route>

```

Table description

Item	Description
Feature name	Route
Table name	Ipv4RouteStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 1 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 1 to 31 characters.	Null denotes default topology.
ProtocolID	Route protocol ID.	index	Enumeration: • 1—DIRECT. • 2—STATIC. • 3—RIP. • 4—OSPF. • 5—IS-IS. • 6—BGP.	N/A
TotalRoutes	Total route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ActiveRoutes	Active route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
AddedRoutes	Added routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DeletedRoutes	Deleted routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Route/Ipv6RouteStatistics

This table contains IPv6 route statistic information.

XML structure

```
<Route>
  <Ipv6RouteStatistics>
    <Statistics>
      <VRF></VRF>
      <Topology></Topology>
      <ProtocolID></ProtocolID>
      <TotalRoutes></TotalRoutes>
      <ActiveRoutes></ActiveRoutes>
      <AddedRoutes></AddedRoutes>
      <DeletedRoutes></DeletedRoutes>
    </Statistics>
  </Ipv6RouteStatistics>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6RouteStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 1 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 1 to 31 characters.	Null denotes default topology.
ProtocolID	Route protocol ID.	index	Enumeration: • 1—DIRECT. • 2—STATIC. • 3—RIPng. • 4—OSPFv3. • 5—IS-ISv6. • 6—BGP4+.	N/A
TotalRoutes	Total route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ActiveRoutes	Active route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
AddedRoutes	Added routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DeletedRoutes	Deleted routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A