

Comware V7 VLAN NETCONF XML API Data Reference

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The H3C logo is displayed in a bold, red, sans-serif font.

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VLAN

VLAN/VLANs

This table contains basic VLAN information.

XML structure

```
<VLAN>
  <VLANs>
    <VLANID>
      <ID></ID>
      <Description></Description>
      <Name></Name>
      <RouteIfIndex></RouteIfIndex>
      <UntaggedPortList></UntaggedPortList>
      <TaggedPortList></TaggedPortList>
    </VLANID>
  </VLANs>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANs
Table type	Multi-instance table
Row name	VLANID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Description	VLAN description	N/A	String. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	VLAN name	N/A	String. Length: 1 to 32 characters.	N/A
RoutelIndex	VLAN interface index	N/A	Unsigned integer.	This column is not displayed if the VLAN interface does not exist.
UntaggedPortList	List of ports that are assigned to the VLAN as untagged VLAN members	N/A	Number string. It is a comma-separated list of port index items. An item can be an individual port index or a port index range. Use a hyphen (-) to separate the start and end port indexes of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Available port indexes are in the PortIndex column in the Ifmgr/Interfaces table. These ports forward traffic with the VLAN tag removed.
TaggedPortList	List of ports that are assigned to the VLAN as tagged VLAN members	N/A	Number string. It is a comma-separated list of port index items. An item can be an individual port index or a port index range. Use a hyphen (-) to separate the start and end port indexes of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Available port indexes are in the PortIndex column in the Ifmgr/Interfaces table. These ports forward traffic without removing the VLAN tag.

VLAN/Interfaces

This table contains VLAN information for a port.

XML structure

```
<VLAN>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <LinkType></LinkType>
```

```

    <PVID></PVID>
    <UntaggedVlanList></UntaggedVlanList>
    <TaggedVlanList></TaggedVlanList>
    <PermitVlanList></PermitVlanList>
  </Interface>
</Interfaces>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
lIndex	Interface index	Index	Unsigned integer.	N/A
Name	Full name of the interface, including the interface type and number	N/A	String. Length: 2 to 47 characters.	N/A
LinkType	Port link type	N/A	Enumeration: 1—Access. 2—Trunk. 3—Hybrid.	N/A
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20.

Column name	Column description	Column type	Data type and restrictions	Remarks
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The column is available only for trunk and hybrid ports.
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The column is available only for trunk ports.

VLAN/QinQ

This table contains QinQ information of all ports.

XML structure

```

<VLAN>
  <QinQ>
    <ServiceTPID></ServiceTPID>
    <CustomerTPID></CustomerTPID>
  </QinQ>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	QinQ
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceTPID	TPID value in the service VLAN tag.	N/A	Unsigned integer. Value range: 0x0001 to 0xFFFF.	N/A
CustomerTPID	TPID value in the customer VLAN tag.	N/A	Unsigned integer. Value range: 0x0001 to 0xFFFF.	N/A

VLAN/QinQPorts

This table contains QinQ information for a port.

XML structure

```

<VLAN>
  <QinQPorts>
    <Interface>
      <IfIndex></IfIndex>
      <QinQ></QinQ>
      <ServiceTPID></ServiceTPID>
      <CustomerTPID></CustomerTPID>
      <TransVlanList></TransVlanList>
    </Interface>
  </QinQPorts>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	QinQPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
QinQ	Whether QinQ is enabled on the port.	N/A	Boolean: true false	N/A
ServiceTPID	The TPID value in the service VLAN tag on the port.	N/A	Unsigned integer. Value range: 0x0001 to 0xFFFF.	N/A
CustomerTPID	The TPID value in the customer VLAN tag on the port.	N/A	Value range: 0x0001 to 0xFFFF.	N/A
TransVlanList	List of transparent VLANs on the port.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. This VLANs cannot exist in CustomerOuterVlan on table VLAN/VLANMapping.

VLAN/QinQ Capabilities

This table contains QinQ capabilities information.

XML structure

```

<VLAN>
  <QinQCapabilities>
    <GlobalServiceTPID></GlobalServiceTPID>
    <GlobalCustomerTPID></GlobalCustomerTPID>
    <QinQState></QinQState>
    <ServiceTPID></ServiceTPID>
    <CustomerTPID></CustomerTPID>
    <TransVlan></TransVlan>
  </QinQCapabilities>
</VLAN>

```


Table description

Item	Description
Feature name	VLAN
Table name	QinQCapabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalServiceTPID	Whether service TPID for all interfaces can be configured.	N/A	Boolean: • true • false	N/A
GlobalCustomerTPID	Whether customer TPID for all interfaces can be configured.	N/A	Boolean: • true • false	N/A
QinQState	Whether QinQ state can be configured on ports.	N/A	Boolean: • true • false	N/A
ServiceTPID	Whether service TPID can be configured on ports.	N/A	Boolean: • true • false	N/A
CustomerTPID	Whether customer TPID can be configured on ports.	N/A	Boolean: • true • false	N/A
TransVlan	Whether transparent VLAN can be configured on ports.	N/A	Boolean: • true • false	N/A

VLAN/VLANMapping

This table contains VLAN mapping information.

XML structure

```
<VLAN>
  <VLANMapping>
    <Interface>
```

```

<IfIndex></IfIndex>
<Mapping>
  <CustomerOuterVlan></CustomerOuterVlan>
  <CustomerInnerVlan></CustomerInnerVlan>
  <ServiceOuterVlan></ServiceOuterVlan>
  <ServiceInnerVlan></ServiceInnerVlan>
  <Exclusive></Exclusive>
  <Nest></Nest>
</Mapping>
<NNI></NNI>
</Interface>
</VLANMapping>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VLANMapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only includes ports where VLAN mapping can be configured.
Mapping	VLAN mapping information on the port.	Data structure	Members: • CustomerOuterVlan • CustomerInnerVlan • ServiceOuterVlan • ServiceInnerVlan • Exclusive • Nest	Multi-instance. • A VLAN cannot be mapped to itself. • CustomerOuterVlan cannot overlap each other. • CustomerOuterVlan cannot exist in TransVlanList on table VLAN/QinQPorts.
CustomerOuterVl	Original outer VLAN	N/A	Number string.	Example:

Column name	Column description	Column type	Data type and restrictions	Remarks
an	of VLAN mapping on the port.		It is a comma-separated list of VLAN items. An item must be always an individual VLAN ID or always a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	16,17. 5-8,10-20.
CustomerInnerVlan	Original outer VLAN of VLAN mapping on the port.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
ServiceOuterVlan	Translated outer VLAN of VLAN mapping on the port.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
ServiceInnerVlan	Translated outer VLAN of VLAN mapping on the port.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Exclusive	Whether the CustomerOuterVlan and the ServiceOuterVlan are exclusive for this mapping on the port.	N/A	Boolean: • true • false	The true value means that only replacing one VLAN tag with another.
Nest	Whether the VLAN mapping is only tags single-tagged packets with an outer VLAN tag or not.	N/A	Boolean: • true • false	N/A
NNI	Whether the network-side interface for VLAN mapping is enabled on the port.	N/A	Boolean: • true • false	N/A

VLAN/VoiceInfo

This table contains voice VLAN basic information.

XML structure

```

<VLAN>
  <VoiceInfo>
    <AgingTime></AgingTime>
    <LLDPTrack></LLDPTrack>
  </VoiceInfo>
</VLAN>

```

```

    <Mode></Mode>
    <CurNum></CurNum>
  </VoiceInfo>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceInfo
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Voice VLAN aging time.	N/A	Unsigned integer, in minutes. Value range: 5 to 43200 minutes.	By default, the aging time is 1440 minutes.
LLDPTrack	Whether LLDP is enabled for automatic IP phone discovery.	N/A	Boolean: • true • false	N/A
Mode	Voice VLAN security mode.	N/A	Enumeration: • 1—Security • 2—Normal	By default, the voice VLAN security mode is enabled.
CurNum	Number of existing voice VLANs.	N/A	Unsigned integer.	N/A

VLAN/VoiceOUI

This table contains voice VLAN OUI address information.

XML structure

```

<VLAN>
  <VoiceOUI>
    <OUI>
      <Address></Address>
      <Mask></Mask>
    </OUI>
  </VoiceOUI>
</VLAN>

```

```

    <Description></Description>
  </OUI>
</VoiceOUI>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceOUI
Table type	Multi-instance table
Row name	OUI
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Source MAC address of voice traffic	Index	Six groups of two hexadecimal digits, hyphen-separated.	For example, 1234-1234-1234.
Mask	Valid length of the OUI address by a mask.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	The mask contains consecutive 1s and 0s. For example, FFFF-0000-0000.
Description	OUI address description.	N/A	Case-sensitive string of 1 to 30 characters.	N/A

VLAN/VoicePorts

This table contains voice VLAN information for a port.

XML structure

```

<VLAN>
  <VoicePorts>
    <Interface>
      <IfIndex></IfIndex>
      <Vlan></Vlan>
      <Mode></Mode>
      <QoS>
        <Trust></Trust>
        <CoS></CoS>
      </QoS>
    </Interface>
  </VoicePorts>
</VLAN>

```

```

    <DSCP></DSCP>
  </QoS>
</Interface>
</VoicePorts>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VoicePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only includes ports where voice VLAN can be configured.
Vlan	Voice VLAN ID on the port.	N/A	Unsigned integer. Value range: 2 to 4094	Valid only on a hybrid or trunk port operating in automatic voice VLAN assignment mode.
Mode	Voice VLAN assignment mode on the port:.	N/A	Enumeration: 1—Automatic. 2—Manual.	By default, a port operates in automatic voice VLAN assignment mode.
QoS	QoS information of voice VLAN on the port.	N/A	Include: - Trust. - CoS. - DSCP.	N/A
Trust	Whether the QoS priority settings is trusted for incoming voice VLAN packets.	N/A	Boolean: - true - false	When a port trusts the QoS priority settings in incoming voice VLAN packets, the port does not modify their CoS and DSCP values.
CoS	CoS value for incoming voice VLAN	N/A	Unsigned integer.	Valid only when the Trust label above is

批注 [x1]: 配置需要先去使能 voice vlan
Zhangyang: 可能会影响其他端口的, 因为 acl 的调整是基于整芯片的。

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets on the port.		Value range: 0 to 7	false. The value is 6 by default.
DSCP	The DSCP values for incoming voice VLAN packets on the port.	N/A	Unsigned integer. Value range: 0 to 63	Valid only when the Trust label above is false. The value is 46 by default.