

Comware V7 Dot1X NETCONF XML API Data Reference

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Dot1X

Dot1X/Protocol

This table contains Dot1X protocol parameters table.

XML structure

```
<Dot1X>
  <Protocol>
    <Enable></Enable>
    <AuthenMethod></AuthenMethod>
    <DomainDelimiterAt></DomainDelimiterAt>
    <DomainDelimiterSlash></DomainDelimiterSlash>
    <DomainDelimiterBackSlash></DomainDelimiterBackSlash>
    <DomainDelimiterDot></DomainDelimiterDot>
    <QuietEnable></QuietEnable>
    <QuietInterval></QuietInterval>
    <HandshakeInterval></HandshakeInterval>
    <ReauthenInterval></ReauthenInterval>
    <ServerInterval></ServerInterval>
    <SupplicantInterval></SupplicantInterval>
    <ReqIDInterval></ReqIDInterval>
    <RequestRetryCount></RequestRetryCount>
    <OnlineUserNum></OnlineUserNum>
  </Protocol>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	Protocol
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Dot1X globally enabled status	N/A	Boolean: • true—Enabled • false—Disabled
AuthenMethod	Authentication Method of 802.1X	N/A	Enumeration: • 1—Chap • 2—PAP • 3—EAP
DomainDelimiterAt	Delimiter "@" between username and domain name	N/A	Boolean: • true—Enabled • false—Disabled
DomainDelimiterSlash	Delimiter "/" between username and domain name	N/A	Boolean: • true—Enabled • false—Disabled
DomainDelimiterBackslash	Delimiter "\" between username and domain name	N/A	Boolean: • true—Enabled • false—Disabled
DomainDelimiterDot	Delimiter "." between username and domain name	N/A	Boolean: • true—Enabled • false—Disabled
QuietEnable	Status Of Dot1X quiet function	N/A	Boolean: • true—Enabled • false—Disabled
QuietInterval	Period value of Quiet timer	N/A	Unsigned integer. Value range: 10 to 120 seconds.
HandshakeInterval	Period value of handshake timer	N/A	Unsigned integer. Value range: 5 to 1024 seconds.
ReauthenInterval	Period value of re-authentication timer	N/A	Unsigned integer. Value range: 60 to 7200 seconds.
ServerInterval	Period value of server response timer	N/A	Unsigned integer. Value range: 100 to 300 seconds.
SupplicantInterval	Period value of supplicant response timer (other than EAP-Response/ID packets)	N/A	Unsigned integer. Value range: 1 to 120 seconds.
ReqIDInterval	Period value of supplicant EAP-Response/ID timer	N/A	Unsigned integer. Value range: 10 to 120 seconds.

Column name	Column description	Column type	Data type and restrictions
RequestRetryCount	Max count of retrying to send out dot1X's Request packets	N/A	Unsigned integer. Value range: 1 to 10.
OnlineUserNum	Current online user count	N/A	Unsigned integer.

Dot1X/EAD

This table contains Dot1X's EAD(Endpoint Admission Defense) feature table.

XML structure

```
<Dot1X>
  <EAD>
    <AssistEnable></AssistEnable>
    <AssistURL></AssistURL>
  </EAD>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EAD
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
AssistEnable	Status of EAD assistant function	N/A	Boolean: • true—Enabled • false—Disabled
AssistURL	The redirect URL used with EAD assistant function	N/A	String. Length: 1 to 64 characters.

DOT1X/EADFreeIPs

This table contains Dot1X's EAD assistant free IP.

XML structure

```
<Dot1X>
  <EADFreeIPs>
    <FreeIP>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
    </FreeIP>
  </EADFreeIPs>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EADFreeIPs
Table type	Multi-instance table
Row name	FreeIP
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
IPv4Address	IP address used in EAD assistance feature	Index	String, dotted decimal notation.
IPv4Mask	IP address mask	Index	IPv4Mask.

Dot1X/Interfaces

This table contains Dot1X interface's information.

XML structure

```
<Dot1X>
  <Interfaces>
    <Interface>
```

```

    <IfIndex></IfIndex>
    <Enable></Enable>
    <PortControl></PortControl>
    <PortMethod></PortMethod>
    <PortRole></PortRole>
    <ReauthenEnable></ReauthenEnable>
    <MulticastTrigger></MulticastTrigger>
    <UnicastTrigger></UnicastTrigger>
    <HandshakeEnable></HandshakeEnable>
    <SecHandshakeEnable></SecHandshakeEnable>
    <MandDomain></MandDomain>
    <MaxUser></MaxUser>
    <FailVLAN></FailVLAN>
    <CriticalVLAN></CriticalVLAN>
    <GuestVLAN></GuestVLAN>
    <OnlineUserNum></OnlineUserNum>
    <RcvPktNum></RcvPktNum>
    <SndPktNum></SndPktNum>
    <StartPktNum></StartPktNum>
    <LogoffPktNum></LogoffPktNum>
    <RespIDPktNum></RespIDPktNum>
    <RespPktNum></RespPktNum>
    <ReqIDPktNum></ReqIDPktNum>
    <ReqPktNum></ReqPktNum>
    <RcvErrorPktNum></RcvErrorPktNum>

</Interface>
</Interfaces>
</Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
Enable	Enable Status of 802.1X	N/A	Boolean: • true—Enabled • false—Disabled
PortControl	Port control status of the interface	N/A	Enumeration: • 1—authorized-force • 2—unauthorized-force • 3—auto
PortMethod	Control Method of the interface	N/A	Enumeration: • 1—Portbased • 2—MACbased
PortRole	Role of the interface in authentication	N/A	Enumeration: • 1—Authenticator
ReauthenEnable	Enable Status of periodic reauthentication feature	N/A	Boolean: • true—Enabled • false—Disabled
FailVLAN	VLAN for users failed in authentication	N/A	Unsigned integer. Value range: 1 to 4094.
CriticalVLAN	VLAN for users as the server is unreachable	N/A	Unsigned integer. Value range: 1 to 4094.
GuestVLAN	VLAN used before authentication	N/A	Unsigned integer. Value range: 1 to 4094.
HandshakeEnable	Enable status of handshake feature on the interface	N/A	Boolean: • true—Enabled • false—Disabled
SecHandshakeEnable	Enable status of secure handshake feature on the interface	N/A	Boolean: • true—Enabled • false—Disabled
MandDomain	Mandatory authentication domain on this interface	N/A	String. Length: 1 to 255 characters.
MaxUser	Maximum user number on this interface	N/A	Unsigned integer. Value range: 1 to 256.
MulticastTrigger	Enable status of multicast trigger function on the interface	N/A	Boolean: • true—Enabled • false—Disabled
UnicastTrigger	Enable status of unicast trigger function on the interface	N/A	Boolean: • true—Enabled • false—Disabled
OnlineUserNum	Number of online 802.1X users of the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
RcvPktNum	Number of received EAPOL packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
SndPktNum	Number of sent EAPOL packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
StartPktNum	Number of received EAPOL-Start packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
LogoffPktNum	Number of received EAPOL-LogOff packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
RespIDPktNum	Number of received EAP-Response/ID packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
RespPktNum	Number of received EAP-Response(other than EAP-Response/ID) packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
ReqIDPktNum	Number of sent EAP-Request/ID packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
ReqPktNum	Number of sent EAP-Request (other than EAP-Request /ID) packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
RcvErrorPktNum	Number of received error packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.

Dot1X/InterfaceUsers

This table displays Dot1X users' information.

XML structure

```

<Dot1X>
  <InterfaceUsers>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
    </Interface>
  </InterfaceUsers>
</Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	InterfaceUsers
Table type	Multi-instance table
Row name	IfIndex
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
UserMAC	MAC address of user on the interface.	Index	MAC address