

Comware V7 PoE NETCONF XML API Data Reference



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PoE

PoE/Capabilities

This table contains PoE global capability information.

XML structure

```
<PoE>
  <Capabilities>
    <SupportPoE></SupportPoE>
    <PSEPolicy></PSEPolicy>
    <PDPolicy></PDPolicy>
    <PowerManage></PowerManage>
    <MaxPower></MaxPower>
    <PSEUpdate></PSEUpdate>
    <PowerMode></PowerMode>
  </Capabilities>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportPoE	Whether Support PoE feature	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEPolicy	Whether system support PSE power policy configuration	N/A	Boolean: • true • false	N/A
PDPolicy	Whether system support PD power policy configuration	N/A	Boolean: • true • false	N/A
PowerManage	Whether system support PoE power management	N/A	Boolean: • true • false	N/A
MaxPower	Whether system support PoE power MaxPower configuration	N/A	Boolean: • true • false	N/A
PSEUpdate	Whether system support PSE firmware updating	N/A	Boolean: • true • false	N/A
PowerMode	Whether system support PoE port power mode configuration	N/A	Boolean: • true • false	N/A

PoE/PriorityPolicy

This table contains PoE global priority policy information.

XML structure

```

<PoE>
  <PriorityPolicy>
    <PSEPolicyMode></PSEPolicyMode>
    <PDPolicyMode></PDPolicyMode>
  </PriorityPolicy>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	PriorityPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEPolicyMode	Mode of PSE power policy.	N/A	Enumeration. • 1 – disabled. • 2 – priority.	The PSE policy only applies to the situation that when a new board (PSE) is inserted, and the power is overload. A value of priority(2) means that the power will stop supplying to the low priority PSE. A value of disabled(1) means that the power will stop supplying to the new inserted PSE.
PDPolicyMode	Mode of PD power policy	N/A	Enumeration. • 1 – disabled. • 2 – priority.	The PD policy only applies to the situation that when a new PD is inserted, and the power of PSE is overload. A value of priority(2) means that the power will stop supplying to the low priority port PD. A value of disabled(1) means that the slot stop supplying to the new inserted PD.

PoE/Powers

This table contains PoE Power information.

XML structure

```
<PoE>
  <Powers>
    <Power>
      <PowerIndex></PowerIndex>
      <Chassis></Chassis>
      <Slot></Slot>
      <NominalPower></NominalPower>
      <CurrentPower></CurrentPower>
      <PeakPower></PeakPower>
      <AveragePower></AveragePower>
      <RemainingGuaranteedPower></RemainingGuaranteedPower>
      <RemainingAllocablePower></RemainingAllocablePower>
      <PowerLimit></PowerLimit>
      <MaxPowerDefault></MaxPowerDefault>
      <MaxPowerUpper></MaxPowerUpper>
      <MaxPowerLower></MaxPowerLower>
    </Power>
  </Powers>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Powers
Table type	Multi-instance table
Row name	Power
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerIndex	Index of the Power supply	Index	Unsigned integer.	N/A
Chassis	ID of the member where the power supply resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 65535.

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	The number of slot where the power supply resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
NominalPower	The nominal power (mW)	N/A	Unsigned integer.	N/A
CurrentPower	The current power (mW)	N/A	Unsigned integer.	N/A
PeakPower	The peak power (mW)	N/A	Unsigned integer.	N/A
AveragePower	The average power m(W)	N/A	Unsigned integer.	N/A
RemainingGuaranteedPower	The remaining guaranteed power (mW)	N/A	Unsigned integer.	N/A
RemainingAllocablePower	The remaining allocable power (mW)	N/A	Unsigned integer.	N/A
PowerLimit	The max power limit (mW)	N/A	Unsigned integer.	N/A
MaxPowerDefault	The default value of PoE power max power(mW)	N/A	Unsigned integer.	N/A
MaxPowerUpper	The upper value of PoE power max power(mW)	N/A	Unsigned integer.	N/A
MaxPowerLower	The lower value of PoE power max power(mW)	N/A	Unsigned integer.	N/A

PoE/PSEs

This table contains PSE information.

XML structure

```

<PoE>
  <PSEs>
    <PSE>
      <PSEID></PSEID>
      <Chassis></Chassis>
      <Slot></Slot>
      <SubSlot></SubSlot>
      <Model></Model>
    </PSE>
  </PSEs>
</PoE>

```

```

    <NominalPower></NominalPower>
    <CurrentPower></CurrentPower>
    <PeakPower></PeakPower>
    <AveragePower></AveragePower>
    <RemainingGuaranteedPower></RemainingGuaranteedPower>
    <PowerLimit></PowerLimit>
    <OperStatus></OperStatus>
    <UsageThreshold></UsageThreshold>
    <Priority></Priority>
    <Legacy></Legacy>
    <MaxPowerDefault></MaxPowerDefault>
    <MaxPowerUpper></MaxPowerUpper>
    <MaxPowerLower></MaxPowerLower>
    <PortMaxPowerDefault></PortMaxPowerDefault>
    <PortMaxPowerUpper></PortMaxPowerUpper>
    <PortMaxPowerLower></PortMaxPowerLower>
    <PowerIndex></PowerIndex>
  </PSE>
</PSEs>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	PSEs
Table type	Multi-instance table
Row name	PSE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE	Index	Unsigned integer.	N/A
Chassis	ID of the member where the PSE resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 65535.
Slot	The number of slot where the PSE resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
SubSlot	The number of Subslot where the PSE resides	N/A	Unsigned integer. Value range: 1 to 65535.	If there is no slot number, return 65535.

Column name	Column description	Column type	Data type and restrictions	Remarks
Model	The type of the PSE	N/A	String. Length: 1 to 32 characters.	N/A
NominalPower	The nominal power (mW)	N/A	Unsigned integer.	N/A
CurrentPower	The current power (mW)	N/A	Unsigned integer.	N/A
PeakPower	The peak power (mW)	N/A	Unsigned integer.	N/A
AveragePower	The average power (mW)	N/A	Unsigned integer.	N/A
RemainingGuaranteedPower	The remaining guaranteed power (mW)	N/A	Unsigned integer.	N/A
PowerLimit	The max power limit (mW)	N/A	Unsigned integer.	N/A
OperStatus	The operational status of the PSE	N/A	Enumeration. 1 – on. 2 – off. 3 – faulty.	N/A
UsageThreshold	The usage threshold (%)	N/A	Unsigned integer. Value range: 1 to 99.	N/A
Priority	The power priority	N/A	Enumeration. 1 – critical. 2 – high. 3 – low.	N/A
Legacy	The legacy mode status(for nonstandard PD detection)	N/A	Enumeration. 0 – enabled. 1 – disabled.	N/A
MaxPowerDefault	The default max power value of this PSE(mW)	N/A	Unsigned integer.	N/A
MaxPowerUpper	The upper max power value of this PSE (mW)	N/A	Unsigned integer.	N/A
MaxPowerLower	The lower max power value of this PSE (mW)	N/A	Unsigned integer.	N/A
PortMaxPowerDefault	The default value of Port max power in this PSE(mW)	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PortMaxPower Upper	The upper value of Port max power in this PSE (mW)	N/A	Unsigned integer.	N/A
PortMaxPower Lower	The lower value of Port max power in this PSE (mW)	N/A	Unsigned integer.	N/A
PowerIndex	Index of the Power supply	Index	Unsigned integer.	N/A

PoE/Ports

This table contains PoE port information.

XML structure

```

<PoE>
  <Ports>
    <Port>
      <PSEID></PSEID>
      <IfIndex></IfIndex>
      <AdminEnable></AdminEnable>
      <PairsControlAbility></PairsControlAbility>
      <Pairs></Pairs>
      <DetectionStatus></DetectionStatus>
      <Priority></Priority>
      <MPSAbsentCounter></MPSAbsentCounter>
      <PDDescription></PDDescription>
      <PowerClassifications></PowerClassifications>
      <InvalidSignatureCounter></InvalidSignatureCounter>
      <PowerDeniedCounter></PowerDeniedCounter>
      <OverLoadCounter></OverLoadCounter>
      <ShortCounter></ShortCounter>
      <FaultDescription></FaultDescription>
      <PeakPower></PeakPower>
      <AveragePower></AveragePower>
      <CurrentPower></CurrentPower>
      <PowerLimit></PowerLimit>
      <PowerModeDefault></PowerModeDefault>
      <ProfileIndex></ProfileIndex>
    </Port>
  </Ports>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	Ports
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE which the port belongs to	Index	Unsigned integer.	N/A
IfIndex	Interface index	Index	Unsigned integer.	N/A
AdminEnable	The admin enable status of an interface which can provide PSE functions	N/A	Enumeration. • 1 – true. • 2 – false.	N/A
PairsControlAbility	The capability of controlling the power pairs functionality to switch pins for sourcing power	N/A	Enumeration. • 1 – true. • 2 – false.	N/A
Pairs	The power pairs in use.	N/A	Enumeration. • 1 – signal. • 2 – spare.	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectionStatus	The operational status of the port PD detection	N/A	Enumeration. • 1 – disabled. • 2 – searching. • 3 – deliveringPower. • 4 – fault. • 5 – test. • 6 – otherFault.	disabled indicates that the PSE State diagram is in the state DISABLED. deliveringPower indicates that the PSE State diagram is in the state POWER_ON for a duration greater than the limit max (see IEEE Std 802.3af Table 33-5 tlim). fault indicates that the PSE State diagram is in the state TEST_ERROR. test indicates that the PSE State diagram is in the state TEST_MODE. otherFault indicates that the PSE State diagram is in the state IDLE due to the variable error_conditions. searching indicates the PSE State diagram is in a state other than those listed above.
Priority	The power priority	N/A	Enumeration. • 1 – critical. • 2 – high. • 3 – low.	N/A
MPSAbsentCounter	The counter for interface state diagram transitions directly from the state POWER_ON to the state IDLE	N/A	Unsigned integer.	N/A
PDDescription	The description for the Pd that is connected to the port.	N/A	String. Length: 1 to 80 characters.	N/A
PowerClassifications	The Classification of the PD connected to the PoE interface	N/A	Enumeration. • 1 – class0. • 2 – class1. • 3 – class2. • 4 – class3. • 5 – class4.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InvalidSignatureCounter	This counter is incremented when the PSE state diagram enters the state SIGNATURE_INVALID	N/A	Unsigned integer.	N/A
PowerDeniedCounter	This counter is incremented when the PSE state diagram enters the state POWER_DENIED	N/A	Unsigned integer.	N/A
OverLoadCounter	This counter is incremented when the PSE state diagram enters the state ERROR_DELAY_OVER	N/A	Unsigned integer.	N/A
ShortCounter	This counter is incremented when the PSE state diagram enters the state ERROR_DELAY_SHORT	N/A	Unsigned integer.	N/A
FaultDescription	The fault category	N/A	String. Length: 1 to 255 characters.	N/A
PeakPower	The peak power (mW)	N/A	Unsigned integer.	N/A
AveragePower	The average power (mW)	N/A	Unsigned integer.	N/A
CurrentPower	The current power (mW)	N/A	Unsigned integer.	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A
PowerModeDefault	The default mode of PoE port power mode	N/A	Enumeration. 1 – signal. 2 – spare.	N/A
ProfileIndex	The profile index applied to the Poe port	N/A	Unsigned integer.	N/A

PoE/Profiles

This table contains PoE profile information.

XML structure

```
<PoE>
  <Profiles>
    <Profile>
      <ProfileIndex></ProfileIndex>
      <ProfileName></ProfileName>
      <PowerMode></PowerMode>
      <PowerLimit></PowerLimit>
      <Priority></Priority>
      <Pairs></Pairs>
      <ApplyNumber></ApplyNumber>
    </Profile>
  </Profiles>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileIndex	Index of the profile	Index	Unsigned integer.	N/A
ProfileName	The name of profile	N/A	String. Length: 1 to 15 characters.	N/A
PowerMode	The power status of an interface which can provide PSE functions	N/A	Enumeration. • 1 – disabled. • 2 – enabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A
Priority	The power priority of the specified interface	N/A	Enumeration. • 1 – critical. • 2 – high. • 3 – low.	N/A
Pairs	The power pairs in use.	N/A	Enumeration. • 1 – signal. • 2 – spare.	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.
ApplyNumber	The number of this profile which has been applied.	N/A	Unsigned integer.	N/A