

Comware V7 Ifmgr NETCONF XML API Configuration Reference

Revision Record

Date	Revision Version	Change Description	Author
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		Add: Ifmgr/TrafficStatistics/Interval Ifmgr/EthInterfaces	
2014-6-17	V1.01	Ifmgr/ StormConstrain/Interfaces Ifmgr/StormConstrain/Interval Ifmgr/PortIsolation/Groups Ifmgr/PortIsolation/Interfaces	xiedong 02618

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Ifmgr/Interfaces

This table contains basic interface information.

XML structure

```
<Ifmgr>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Description></Description>
      <AdminStatus></AdminStatus>
      <ConfigSpeed></ConfigSpeed>
      <ConfigDuplex></ConfigDuplex>
      <LinkType></LinkType>
      <PVID></PVID>
      <MAC></MAC>
      <PortLayer></PortLayer>
      <Loopback></Loopback>
      <MDI></MDI>
      <ConfigMTU></ConfigMTU>
      <ConfigBandwidth></ConfigBandwidth>
      <Interval></Interval>
      <ForceUP></ForceUP>
    </Interface>
  </Interfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Description	Interface description	N/A	String. Length: 1 to 255 characters. Default: <i>interface-name</i> Interface .	N/A
AdminStatus	Interface administration status	N/A	Enumeration: 1—Up (default). 2—Down.	N/A
ConfigSpeed	Configured speed of an interface.	N/A	Each bit represents a speed. As follows: 1—Auto 2—10Mbps 4—100Mbps 8—155Mbps 16—622Mbps 32—1Gbps 64—2Gbps 128—2.5Gbps 256—4Gbps 512—8Gbps 1024—10Gbps 2048—16Gbps 4096—20Gbps 8192—40Gbps 16384—100Gbps	Examples: 32—Speed is 1000Mbps. 37—Auto-negotiation mode, and negotiation values are 100Mbps and 1000Mbps.
ConfigDuplex	Configured duplex mode of an interface	N/A	Enumeration: 1—Full. 2—Half. 3—Auto.	Applicable to only Ethernet interfaces.
LinkType	VLAN type of an interface	N/A	Enumeration: 1—Access (default). 2—Trunk. 3—Hybrid.	Applicable to only Layer 2 interfaces.
PVID	Port VLAN ID (PVID) of an interface	N/A	Unsigned integer. Value range: 1 to 4094.	Applicable to only Layer 2 interfaces.
MAC	MAC address of an interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
PortLayer	Port layer of an interface	N/A	Enumeration: 1—Layer 2 2—Layer 3	Applicable to Ethernet interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
Loopback	Loopback test	N/A	Enumeration: 1—Internal 2—External	Applicable to only interfaces of Ethernet and AUX.
MDI	MDI mode of an interface	N/A	Enumeration: 1—MDI-II (straight-through cable) 2—MDI-X (crossover cable) 3—MDI-AUTO (auto-sensing)	Applicable to only Layer 2 Ethernet interfaces.
ConfigMTU	Configured MTU of an interface	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
ConfigBandwidth	Configured Bandwidth of an interface	N/A	Unsigned integer. Value range: 1 to 4000000000.	N/A
Interval	Sampling interval of an interface	N/A	Unsigned integer. Value range: 5 to 300, in seconds, in step of 5	N/A
ForceUP	Forcibly bring up an interface.	N/A	Boolean: - true - false	Applicable to only ethernet and POS interfaces.

Ifmgr/TrafficStatistics/Interval

This table contains traffic sampling interval information of all interfaces.

XML structure

```

<Ifmgr>
  <TrafficStatistics>
    <Interval>
      <Interval></Interval>
    </Interval>
  </TrafficStatistics>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	TrafficStatistics
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Sampling interval of all interfaces, in seconds, in step of 5.	N/A	Unsigned integer. It can configured only when Configurable" (Reference in table of TrafficStatistics/Interval which in Data API) value is true.

Ifmgr/EthInterfaces

This table contains ethernet interfaces information.

XML structure

```

<Ifmgr>
  <EthInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Combo></Combo>
      <FlowControl></FlowControl>
      <AutoPowerDown></AutoPowerDown>
      <Jumboframe></Jumboframe>
      <BroadcastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
      </BroadcastSuppression>
      <MulticastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
      </MulticastSuppression>
      <UnknownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
      </UnknownUnicastSuppression>
      <BPDUUDrop></BPDUUDrop>
      <EEE></EEE>
      <ConnectMode></ConnectMode>
    </Interface>
  </EthInterfaces>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	EthInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Combo	Combo mode of an interface	N/A	Enumeration: 1—fiber mode 2—copper mode	
FlowControl	Flow control information of an interface	N/A	Enumeration: 1—Enable flow control 2—Disable 3—Only enable flow control packet receiving	Applicable to only Physical interfaces.
AutoPowerDown	Port auto power down	N/A	Boolean: true false	Applicable to only Physical interfaces.
Jumboframe	Jumbo frame information of an interface	N/A	Unsigned integer, the value is 0 if jumbo frame is disable on an interface.	
BroadcastSuppression	Broadcast suppression information of an interface	N/A	Include: - Value - Unit	Applicable to only Layer 2 Physical Ethernet interfaces.
ConfigValue	Config broadcast suppression value of an interface	N/A	Unsigned integer. Value range: ratio: 0 to 100 - pps: 0 to $1.4881 \times$ the maximum interface rate. - kbps: 0 to the maximum interface rate	
Unit	Broadcast suppression unit	N/A	Enumeration: 1—ratio	

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—pps 3—kbps	
MulticastSuppression	Multicast suppression information of an interface	N/A	Include: - Value - Unit	Applicable to only Layer 2 Physical Ethernet interfaces.
ConfigValue	Config multicast suppression value of an interface	N/A	Unsigned integer. Value range: - ratio: 0 to 100 - pps: 0 to $1.4881 \times$ the maximum interface rate. - kbps: 0 to the maximum interface rate	
Unit	Multicast suppression unit	N/A	Enumeration: 1—ratio 2—pps 3—kbps	
UnknownUnicastSuppression	UnknownUnicast suppression information of an interface	N/A	Include: - Value - Unit	Applicable to only Layer 2 Physical Ethernet interfaces.
ConfigValue	Config unknownUnicast suppression value of an interface	N/A	Unsigned integer. Value range: - ratio: 0 to 100 - pps: 0 to $1.4881 \times$ the maximum interface rate. - kbps: 0 to the maximum interface rate	
Unit	UnknownUnicast suppression unit	N/A	Enumeration: 1—ratio 2—pps 3—kbps	
BPDUDrop	Whether any type of IEEE BPDUs is drop on the port.	N/A	Boolean: true false	Applicable to only Layer 2 Physical interfaces.
EEE	Whether energy efficient ethernet is enable on the port.	N/A	Boolean: true false	Applicable to only Physical interfaces.
ConnectMode	Port connection mode of an interface.	N/A	Enumeration: 1—Normal connection mode 2—Extend connection mode	Applicable to only Layer 2 10GE Physical interfaces.

Ifmgr/StormConstrain/Interfaces

This table contains interface storm constrain information.

XML structure

```
<Ifmgr>
  <StormConstrain>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <CtlMode></CtlMode>
        <Trap></Trap>
        <Log></Log>
        <Broadcast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
        </Broadcast>
        <Multicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
        </Multicast>
        <UnknownUnitcast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
        </UnknownUnitcast>
      </Interface>
    </Interfaces>
  </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface

Restrictions	Applicable to only Layer 2 physical Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	IfIndex
CtlMode	Storm constrain protective action	N/A	Enumeration: 0—N/A 1—Block 2—Shutdown	
Trap	Event trap switch	N/A	Boolean: - true - false	
Log	Event log switch	N/A	Boolean: - true - false	
Broadcast	Broadcast storm constrain information of an interface	N/A	Include: - Upper - Lower - Unit	The Upper value must be not less than the Lower value.
Upper	Broadcast upper threshold value	N/A	Unsigned integer.Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kpps: 1 to the maximum interface rate	
Lower	Broadcast lower threshold value	N/A	Unsigned integer.Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kpps: 1 to the maximum interface rate	
Unit	Broadcast threshold unit	N/A	Enumeration: 1—pps 2—ratio 3—kpps	
Multicast	Multicast storm constrain information of an interface	N/A	Include: - Upper - Lower - Unit	The Upper value must be not less than the Lower value.
Upper	Multicast upper threshold value	N/A	Unsigned integer.Value range:	

Column name	Column description	Column type	Data type and restrictions	Remarks
			- pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Lower	Multicast lower threshold value	N/A	Unsigned integer.Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Unit	Multicast threshold unit	N/A	Enumeration: 1—pps 2—ratio 3—kbps	
UnknownUnitcast	Unknown-unitcast storm constrain information of an interface	N/A	Include: - Upper - Lower - Unit	The Upper value must be not less than the Lower value.
Upper	Unknown-unitcast upper threshold value	N/A	Unsigned integer.Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Lower	Unknown-unitcast lower threshold value	N/A	Unsigned integer.Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Unit	Unknown-unitcast unit	N/A	Enumeration: 1—pps 2—ratio 3—kbps	

Ifmgr/StormConstrain/Interval

This table contains storm constrain traffic collection interval information.

XML structure

```
<Ifmgr>
```

```

<StormConstrain>
  <Interval>
    <Interval></Interval>
  </Interval>
</StormConstrain>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interval
Table type	Single-instance table
Row name	N/A
Restrictions	
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Traffic statistics collection interval for storm constrain, in seconds.	N/A	Unsigned integer. Value range: 1 to 300.

Ifmgr/PortIsolation/Groups

This table contains port isolation groups information.

XML structure

```

<Ifmgr>
  <PortIsolation>
    <Groups>
      <Group>
        <IsolatedGroupID></IsolatedGroupID>
      </Group>
    </Groups>
  </PortIsolation>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and aggregation. The maximum group ID are in the MaxGroupNum column in the Ifmgr/PortIsolation/Capabilities table. If the maximum is 1: - Isolation group 1 is created automatically after device started. - Isolation group 1 cannot created or deleted.
Support for row creation and deletion	Yes If the maximum is not 1. - Yes—If the mainum group ID value is not 1. - No—If the mainum group ID value is 1.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IsolatedGroup ID	Isolation group ID.	Index	Unsigned integer.	

Ifmgr/PortIsolation/Interfaces

This table contains interface isolation information.

XML structure

```
<Ifmgr>
  <PortIsolation>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <IsolatedGroupID></IsolatedGroupID>
      </Interface>
    </Interfaces>
  </PortIsolation>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and Aggregation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	IfIndex
IsolatedGroup ID	Port isolation group ID of an interface	N/A	Unsigned integer.	