

Comware V7 Ifmgr NETCONF XML API Action Reference

Revision Record

Date	Revision Version	Change Description	Author
2013-5-10	V1.00	Initial	ranbin 02617
2014-6-17	V1.01	Add: Ifmgr/ VirtualCableTest	xiedong 02618
2014-7-24	V1.02	Add: 110—IF_RETH_TYPE in Ifmgr/LogicInterfaces.	xiedong 02618

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Ifmgr

Ifmgr/Interfaces

This table contains interface action information.

XML structure

```
<Ifmgr>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Clear></Clear>
      <Default></Default>
      <Loopback></Loopback>
    </Interface>
  </Interfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
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.
Clear	Clears interface statistics.	N/A	This column must be empty.
Default	Restore default settings.	N/A	This column must be empty.
Loopback	Interface loopback testing.	N/A	Enumeration: • 1—Internal • 2—External Applicable to only Ethernet

Column name	Column description	Column type	Data type and restrictions
			interfaces and AUX interfaces which loopback testing can be auto stopped.

Ifmgr/ClearAllIfStatistics

This table is used to clear statistics on all interfaces.

XML structure

```
<Ifmgr>
  <ClearAllIfStatistics>
    <Clear><Clear/>
  </ClearAllIfStatistics>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ClearAllIfStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears statistics on all interfaces.	N/A	This column must be empty.

Ifmgr/SubInterfaces

This table is used to create or delete sub-interfaces.

XML structure

```
<Ifmgr>
  <SubInterfaces>
```

```

<Interface>
  <IfIndex></IfIndex>
  <SubNum></SubNum>
  <Remove></Remove>
</Interface>
</SubInterfaces>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	SubInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	- Create: Interface index of parent interface. - Delete: Interface index of the sub-interface.
SubNum	Sub-interface number.	N/A	Unsigned integer	- Applicable to only create a sub-interface - This column must be specified when create a sub-interface. - The range of SubNum is reference in table of InterfaceCapabilities which in Data API.
Remove	Delete specified sub-interface.	N/A	This column must be empty.	Applicable to only delete a sub-interface

Ifmgr/LogicInterfaces

This table is used to create or delete logic interfaces.

XML structure

```
<Ifmgr>
  <LogicInterfaces>
    <Interface>
      <IfTypeExt></IfTypeExt>
      <Number></Number>
      <Remove></Remove>
    </Interface>
  </LogicInterfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	LogicInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfTypeExt	The type of interface.	Index	Unsigned integer	IfTypeExt is Reference in table of Ifmgr/Interfaces.which in Data API. The supported logic interface type as follow: • 16—IF_LOOPBACK_TYPE • 41—IF_VLAN_TYPE • 56—IF_BAGG_TYPE • 67—IF_RAGG_TYPE • 110—IF_RETH_TYPE
Number	Number of the logic interface.	Index	Unsigned integer	The range of Number is Reference in table of InterfaceCapabilities which in Data API.
Remove	Delete specified	N/A	This column must be empty.	Applicable to only

Column name	Column description	Column type	Data type and restrictions	Remarks
	logic interface.			delete a logic interface.

Ifmgr/VirtualCableTest

This table is used to test the cable connection of Ethernet interfaces and get the test results.

XML structure

```
<Ifmgr>
  <VirtualCableTest>
    <Interface>
      <IfIndex></IfIndex>
    </Interface>
  </VirtualCableTest>
</Ifmgr>
```

Responded XML structure

```
<Ifmgr>
  <VirtualCableTest>
    <Interface>
      <IfIndex></IfIndex>
      <CableStatus></CableStatus>
      <CableLen></CableLen>
      <Mismatch></Mismatch>
      <PairSkew></PairSkew>
      <PairSwap></PairSwap>
      <PairPolarity></PairPolarity>
      <InsertionLoss></InsertionLoss>
      <ReturnLoss></ReturnLoss>
      <NearEndCrosstalk></NearEndCrosstalk>
    </Interface>
  </VirtualCableTest>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	VirtualCableTest

Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 interfaces of FastEthernet, GigabitEthernet and Ten-GigabitEthernet.

Columns

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

Responded Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	
CableStatus	Cable status of an interface	N/A	Enumeration: 0—The test failed. 1—Normal, the cable is in good condition. 2—Abnormal (open), an open circuit is detected. 3—Abnormal (short), a short circuit is detected. 4—Abnormal, the cable is abnormal.	
CableLen	Cable length of an interface	N/A	Unsigned integer, in metres.	
Mismatch	Pair impedance mismatch information of an interface	N/A	Unsigned integer: 0xffffffff—Not support 0—Mismatch - Others—Match	
PairSkew	Pair skew information of an interface	N/A	Unsigned integer, in ns. The value is 0xffffffff if not support.	
PairSwap	Pair swap information of an interface	N/A	Unsigned integer: 0xffffffff—Not support 0—Normal - Others—Swap	
PairPolarity	Pair polarity information of an interface	N/A	Unsigned integer: 0xffffffff—Not support 0—Normal - Others—Swap	

Column name	Column description	Column type	Data type and restrictions	Remarks
InsertionLoss	Insertion loss information of an interface	N/A	Unsigned integer, in db. The value is 0xffffffff if not support.	
ReturnLoss	Return loss information of an interface	N/A	Unsigned integer, in db. The value is 0xffffffff if not support.	
NearEndCrosstalk	Near-end crosstalk of an interface	N/A	Unsigned integer, in db. The value is 0xffffffff if not support.	