

Comware V7 IRF NETCONF XML API Data Reference

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IRF

IRF/Capability

This table contains IRF global configuration information, also available in stand-alone mode.

XML structure

```
<IRF>
  <Capability>
    <MaxMemberCount></MaxMemberCount>
    <MaxPriority></MaxPriority>
    <MaxIfNumPerIRFPort></MaxIfNumPerIRFPort>
    <SupportedIfTypes>
      <ifTypeExt></ifTypeExt>
    </SupportedIfTypes>
    <SupportNormalPortMode></SupportNormalPortMode>
    <SupportEnhancedPortMode></SupportEnhancedPortMode>
    <SupportExtendedPortMode></SupportExtendedPortMode>
    <SupportLightIRFMode></SupportLightIRFMode>
    <SupportNormalIRFMode></SupportNormalIRFMode>
    <SupportEnhancedIRFMode></SupportEnhancedIRFMode>
    <SupportIRFModeConvert></SupportIRFModeConvert>
  </Capability>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Capability
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxMemberCount	The maximum number of members in a stack.	N/A	Unsigned integer.	N/A
MaxPriority	The highest priority that can be configured for a member in a stack	N/A	Unsigned integer.	N/A
MaxIfNumPerIRFPort	The maximum number of physical ports in an IRF port.	N/A	Unsigned integer.	N/A
SupportedIfTypes	Indicates which physical interface type can be added to IRF port.	Data structure	Members: ifTypeExt	Multi-instance.
ifTypeExt	The physical interface type.	N/A	Unsigned integer.	ifTypeExt is referenced from Interfaces table in Ifmgr NETCONF XML API, XPath is Ifmgr/Interfaces/Interface/ifTypeExt. Please reference to <i>Comware V7 Ifmgr NETCONF XML API Data Reference</i> .
SupportNormalPortMode	Indicates whether support normal port mode.	N/A	Boolean - true - false	N/A
SupportEnhancedPortMode	Indicates whether support enhanced port mode.	N/A	Boolean - true - false	N/A
SupportExtendedPortMode	Indicates whether support extended port mode.	N/A	Boolean - true - false	N/A
SupportLightIRFMode	Indicates whether support light IRF mode.	N/A	Boolean - true - false	N/A
SupportNormalIRFMode	Indicates whether support normal IRF mode.	N/A	Boolean - true - false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportEnhancedIRFMode	Indicates whether support enhanced IRF mode.	N/A	Boolean - true - false	N/A
SupportIRFModeConvert	Indicates whether support mode convert between IRF and stand-alone mode.	N/A	Boolean - true - false	N/A

IRF/Configuration

This table contains IRF global configuration information.

XML structure

```

<IRF>
  <Configuration>
    <AutoMerge></AutoMerge>
    <AutoUpgrade></AutoUpgrade>
    <Domain></Domain>
    <LinkDelay></LinkDelay>
    <MacPersist></MacPersist>
    <BridgeMac></BridgeMac>
    <TopoType></TopoType>
    <StackMode></StackMode>
    <MemberCount></MemberCount>
  </Configuration>
</IRF>

```

Table description

Item	Description
Feature name	IRF
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoMerge	State of the auto merge function	N/A	EnableState.	enable: The IRF fabric automatically reboots its member devices when it fails in the master election during an IRF fabric merge. disable: Manual reboot is required to complete an IRF fabric merge.
AutoUpgrade	Status of the software auto-update function	N/A	EnableState.	enable: The master device automatically pushes its software images to the device you are adding to the IRF fabric. disable: You must manually make sure the joining device uses the same software images as the master device. If not, the new device cannot join the IRF fabric.
Domain	Domain ID for the IRF fabric	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
LinkDelay	IRF link down report delay	N/A	Unsigned integer. Value range: 0 to 10000. Unit: milliseconds.	If the interval is set to 0, link down events are reported without any delay.
MacPersist	IRF bridge MAC persistence setting	N/A	Enumeration. • 1—Timer • 2—Always • 3—No	Timer: A 6 minutes timer, bridge MAC address of the IRF fabric persists for 6 minutes after the master leaves. Always: Bridge MAC address of the IRF fabric does not change after the master leaves. No: Bridge MAC address of the new master replaces the original one as soon as the old master leaves.
BridgeMac	IRF bridge MAC address	N/A	MacAddress.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TopoType	Stack topology	N/A	Enumeration. 1—Chain 2—Ring 3—Unconverged	N/A
StackMode	Current stack mode of the device	N/A	Boolean - true - false	true: Stack mode false: Stand-alone mode Also available in stand-alone mode.
MemberCount	The number of members currently in a stack	N/A	Unsigned integer.	N/A

IRF/Members

This table contains configuration of the IRF members.

XML structure

```

<IRF>
  <Members>
    <Member>
      <MemberID></MemberID>
      <NewMemberID></NewMemberID>
      <Description></Description>
      <Priority></Priority>
      <CPUMac></CPUMac>
      <Board>
        <Chassis></Chassis>
        <Slot></Slot>
        <Role></Role>
      </Board>
    </Member>
  </Members>
</IRF>

```

Table description

Item	Description
Feature name	IRF
Table name	Members
Table type	Multi-instance table

Row name	Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID	index	Unsigned integer. Value range: 0 to 32. Stack mode: 1 to 32. Stand-alone mode: 0.	The current member ID of the device. The maximum member ID is variant between products. Also available in stand-alone mode.
NewMemberID	Member ID assigned to the device	N/A	Unsigned integer. Value range: 1 to 32.	This member ID takes effect at reboot. The maximum member ID is variant between products. Also available in stand-alone mode.
Description	Description for the member device.	N/A	String. Max length: 127	A string of 1 to 127 ASCII characters.
Priority	Member priority	N/A	Unsigned integer. Value range: 1 to 32.	Also available in stand-alone mode.
CPUMac	Member's CPU MAC address	N/A	MacAddress.	N/A
Board	Board information of the member	Data structure	Members: - Chassis - Slot - Role	Multi-instance
Chassis	Chassis ID of the board	N/A	Unsigned integer. Value range: 0 to 65535.	IRF(Distributed): this value is large than zero. IRF: this value is zero.
Slot	Slot ID of the board	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Role	Board role	N/A	Enumeration. 1—Master 2—Standby 3—Loading 4—Other	N/A

IRF/IRFPorts

This table contains configuration of the IRF ports.

XML structure

```
<IRF>
  <IRFPorts>
    <IRFPort>
      <MemberID></MemberID>
      <Port></Port>
      <Neighbor></Neighbor>
      <State></State>
      <Interface>
        <IfName></IfName>
        <MDCName></MDCName>
        <Mode></Mode>
        <LinkState></LinkState>
      </Interface>
      <LinkStateInMDC>
        <MDCName></MDCName>
        <State></State>
      </LinkStateInMDC>
    </IRFPort>
  </IRFPorts>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	IRFPorts
Table type	Multi-instance table
Row name	IRFPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID	index	Unsigned integer. Value range: Stack mode: 1 to 32. Stand-alone mode: 0.	The current member ID of the device. Also available in stand-alone mode.
Port	IRF port number	index	Unsigned integer. Value range: 1 to 2	1: IRF port 1 2: IRF port 2 Also available in stand-alone mode.
Neighbor	Neighbor member ID of this device.	N/A	Unsigned integer. Value range: 1 to 32.	N/A
State	State of the IRF port.	N/A	Enumeration. 1—Disabled 2—Up 3—Down 4—Isolated 5—Timeout	N/A
Interface	Physical port of an IRF port	Data structure	Members: - IfName - MDCName - Mode - LinkState	Multi-instance. Maximum occurrence is MaxIfNumPerIRFPort. Also available in stand-alone mode.
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	Physical port of an IRF port
MDCName	MDC name	N/A	Case-sensitive string. Length: 1 to 15 Optional	If MDCName is specified, it binds physical ports on the MDC to an IRF port. If MDCName is not specified, it binds physical ports on the default MDC to an IRF port.
Mode	Physical IRF port mode	N/A	Enumeration. 1—Normal 2—Enhanced 3—Extended	Normal: Sets the binding mode to normal. Enhanced: Sets the binding mode to enhanced. Extended: Sets the binding mode to extended.

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkState	Link state of the interface.	N/A	Enumeration. • 1—Up • 2—Down • 3—ADM • 4—Absent	Up: Link is up. Down: Link is down. ADM: The port has been manually shut down with the shutdown command. Absent: Interface module that hosts the port is not present.
LinkStateInMDC	IRF link state on MDC of the specified IRF port.	Data structure	Members: • MDCName • State	Multi-instance. Also available in stand-alone mode.
MDCName	MDC name	N/A	Case-sensitive string. Length: 1 to 15 Optional	N/A
State	State of the IRF port in a MDC.	N/A	Enumeration. • 1—Up • 2—Down • 3—Timeout	N/A