

Comware V7 NQA NETCONF XML API Data Reference

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NQA

NQA/Templates

This table contains information about NQA templates.

XML structure

```
<NQA>
  <Templates>
    <Template>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Frequency></Frequency>
      <ProbeTimeout></ProbeTimeout>
      <TTL></TTL>
      <ToS></ToS>
      <VRF></VRF>
      <URL></URL>
      <DstIP></DstIP>
      <DstPort></DstPort>
      <SrcIP></SrcIP>
      <SrcPort></SrcPort>
      <NextHop></NextHop>
      <TriggerPassCount></TriggerPassCount>
      <TriggerFailCount></TriggerFailCount>
    </Template>
  </Templates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Templates
Table type	Multi-instance table
Row name	Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type	N/A	Enumeration: • 0—ICMP-echo. • 1—UDP-echo. • 2—TCP. • 3—DLSW • 4—FTP. • 5—DHCP • 6—SNMP. • 7—DNS. • 8—HTTP. • 9—UDP-jitter • 10—VOICE • 11—Path-jitter • 12—UDP-tracert • 13—ARP. • 14—IMAP. • 15—POP3. • 16—Radius. • 17—RTSP. • 18—SIP. • 19—SMTP. • 20—SSL.	Type DLSW, DHCP, UDP-jitter, VOICE, Path-jitter, UDP-tracert are not supported temporarily.
Description	Template description	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
Frequency	Probe interval in milliseconds	N/A	Unsigned integer. Value range: 0 to 604800000.	N/A
ProbeTimeout	Probe timeout time in milliseconds	N/A	Unsigned integer.	The value ranges of probe timeout depend on the Type column. • FTP/HTTP: 10 to 86400000. • ICMP-echo/UDP-echo/TCP/SNMP/DNS/ARP/IMAP/POP3/Radiuss/RTSP/SIP/SMTP/SSL: 10 to 3600000.
TTL	TTL for probe packets	N/A	Unsigned integer. Value range: 1 to 255.	Type ARP does not support this column.
ToS	ToS value in	N/A	Unsigned integer.	Type ARP does not support this

Column name	Column description	Column type	Data type and restrictions	Remarks
	the IP packet header of probe packets		Value range: 0 to 255.	column.
VRF	The VRF instance where the operation is performed.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
URL	The URL of the destination server.	N/A	String. Length: 1 to 255 characters.	This column and the DstIP , DstPort column will not be available simultaneity. Only type FTP and HTTP support this column.
DstIP	Destination IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column and the URL column will not be available simultaneity. Type FTP and HTTP do not support this column.
DstPort	Destination port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	This column and the URL column will not be available simultaneity. Type ICMPecho, ARP, FTP and HTTP do not support this column.
SrcIP	Source IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
SrcPort	Source port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	Only type DNS supports this column.
NextHop	Next hop IP address	N/A	String. Length: 1 to 46 characters.	Type ARP does not support this column.
TriggerPassCount	The number of consecutive successful probes that lead to a successful operation.	N/A	Unsigned integer. Value range: 1 to 15.	N/A
TriggerFailCount	The number of consecutive probe failures that lead to an operation failure.	N/A	Unsigned integer. Value range: 1 to 15.	N/A

NQA/IcmpEchoTemplates

This table contains information about ICMP-Echo templates.

XML structure

```
<NQA>
  <IcmpEchoTemplates>
    <IcmpEchoTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <SrcIf></SrcIf>
    </IcmpEchoTemplate>
  </IcmpEchoTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	IcmpEchoTemplates
Table type	Multi-instance table
Row name	IcmpEchoTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	The string to be filled in the payload of each request.	N/A	String. Length: 1 to 200 characters.	N/A
DataSize	The payload size in each request.	N/A	Unsigned integer. Value range: 20 to 8100.	N/A
SrcIf	Full name of an interface, including the interface type	N/A	String. Length: 2 to 47 characters.	If both source ip and source interface are specified, the most recent configuration will be

Column name	Column description	Column type	Data type and restrictions	Remarks
	and number.			available.
	The IP address of the specified interface is the source IP address of ICMP echo requests.			

NQA/UdpEchoTemplates

This table contains information about UDP-Echo templates.

XML structure

```

<NQA>
  <UdpEchoTemplates>
    <UdpEchoTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
      </ExpectData>
    </UdpEchoTemplate>
  </UdpEchoTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	UdpEchoTemplates
Table type	Multi-instance table
Row name	UdpEchoTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	The string to be filled in the payload of each request.	N/A	String. Length: 1 to 200 characters.	N/A
DataSize	The payload size in each request.	N/A	Unsigned integer. Value range: 20 to 8100.	N/A
ExpectData	Expected data.	Data structure	Members include: • Data. • Offset.	The members must both be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search the expected response string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A

NQA/TcpTemplates

This table contains information about TCP templates.

XML structure

```
<NQA>
  <TcpTemplates>
    <TcpTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
      </ExpectData>
    </TcpTemplate>
  </TcpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TcpTemplates
Table type	Multi-instance table
Row name	TcpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	The string to be filled in the payload of each request.	N/A	String. Length: 1 to 200 characters.	N/A
ExpectData	Expected data.	Data structure	Members include: • Data. • Offset.	The members must both be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search the expected response string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A

NQA/FtpTemplates

This table contains information about FTP templates.

XML structure

```
<NQA>
  <FtpTemplates>
    <FtpTemplate>
      <Name></Name>
      <Operation></Operation>
```

```

    <UserName></UserName>
    <Password></Password>
    <FileName></FileName>
    <Mode></Mode>
  </FtpTemplate>
</FtpTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	FtpTemplates
Table type	Multi-instance table
Row name	FtpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Operation	The FTP operation type.	N/A	Enumeration: • 1—Get operation. • 2—Put operation.	N/A
UserName	A login username.	N/A	String. Length: 1 to 32 characters.	N/A
Password	A login password.	N/A	String. Length : 1 to 32 characters.	N/A
FileName	The name of a file to be transferred.	N/A	String. Length: 1 to 200 characters.	N/A
Mode	The data transmission mode.	N/A	Enumeration: • 0—Active mode. • 1—Passitive mode.	N/A

NQA/SnmpTemplates(not supported)

This table contains information about SNMP templates.

XML structure

```
<NQA>
  <SnmpTemplates>
    <SnmpTemplate>
      <Name></Name>
      <Community></Community>
    </SnmpTemplate>
  </SnmpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SnmpTemplates
Table type	Multi-instance table
Row name	SnmpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Community	The community for the access of SNMP.	N/A	String. Length: 1 to 32 characters.	N/A

NQA/DnsTemplates(not supported)

This table contains information about DNS templates.

XML structure

```
<NQA>
  <DnsTemplates>
    <DnsTemplate>
      <Name></Name>
      <ResolveTarget></ResolveTarget>
      <ResolveType></ResolveType>
    </DnsTemplate>
  </DnsTemplates>
</NQA>
```

```

    <ExpectIP></ExpectIP>
  </DnsTemplate>
</DnsTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	DnsTemplates
Table type	Multi-instance table
Row name	DnsTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ResolveTarget	The domain name that needs to be translated.	N/A	String. Length: 1 to 255 characters.	N/A
ResolveType	The domain name resolution type.	N/A	Enumeration: 1—Type A query. 28—Type AAAA query.	N/A
ExpectIP	The IPv4 or IPv6 address that is expected to be returned.	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A

NQA/HttpTemplates

This table contains information about HTTP templates.

XML structure

```

<NQA>
  <HttpTemplates>
    <HttpTemplate>

```

```

<Name></Name>
<UserName></UserName>
<Password></Password>
<Operation></Operation>
<Version></Version>
<RawContent></RawContent>
<ExpectStatus></ExpectStatus>
<ExpectData>
  <Data></Data>
  <Offset></Offset>
</ExpectData>
</HttpTemplate>
</HttpTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	HttpTemplates
Table type	Multi-instance table
Row name	HttpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	A login username.	N/A	String. Length: 1 to 32 characters.	N/A
Password	A login password.	N/A	String. Length: 1 to 32 characters.	N/A
Operation	HTTP operation type.	N/A	Enumeration: 1—Get operation. 2—Post operation. 3—Raw Operation.	N/A
Version	HTTP version	N/A	Enumeration: 0—Version 1.0. 1—Version 1.1.	N/A
RawContent	The content of an HTTP raw	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	request.		Length: 1 to 1023 characters.	
ExpectStatus	The list of expected status code.	N/A	Number string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	N/A
ExpectData	Expected data.	Data structure	Members include: - Data. - Offset.	The members must both be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search the expected response string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A

NQA/ImapTemplates(not supported)

This table contains information about IMAP templates.

XML structure

```

<NQA>
  <ImapTemplates>
    <ImapTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Mailbox></Mailbox>
    </ImapTemplate>
  </ImapTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	ImapTemplates
Table type	Multi-instance table
Row name	ImapTemplate

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	A login username.	N/A	String. Length: 1 to 40 characters.	N/A
Password	A login password.	N/A	String. Length: 1 to 40 characters.	N/A
Mailbox	Operation mailbox name.	N/A	String. Length: 1 to 64 characters.	N/A

NQA/Pop3Templates(not supported)

This table contains information about POP3 templates.

XML structure

```

<NQA>
  <Pop3Templates>
    <Pop3Template>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
    </Pop3Template>
  </Pop3Templates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	Pop3Templates
Table type	Multi-instance table
Row name	Pop3Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	A login username.	N/A	String. Length: 1 to 40 characters.	N/A
Password	A login password.	N/A	String. Length: 1 to 40 characters.	N/A

NQA/RadiusTemplates(not supported)

This table contains information about RADIUS templates.

XML structure

```
<NQA>
  <RadiusTemplates>
    <RadiusTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Key></Key>
    </RadiusTemplate>
  </RadiusTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	RadiusTemplates
Table type	Multi-instance table
Row name	RadiusTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	A login username.	N/A	String. Length: 1 to 253 characters.	N/A
Password	A login password.	N/A	String. Length: 1 to 40 characters.	N/A
Key	Shared secret key.	N/A	String. Length: 1 to 64 characters.	N/A

NQA/RtspTemplates(not supported)

This table contains information about RTSP templates.

XML structure

```
<NQA>
  <RtspTemplates>
    <RtspTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
    </RtspTemplate>
  </RtspTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	RtspTemplates
Table type	Multi-instance table
Row name	RtspTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectStatus	The list of expected status code.	N/A	Number string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	N/A

NQA/SipTemplates(not supported)

This table contains information about SIP templates.

XML structure

```
<NQA>
  <SipTemplates>
    <SipTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
      <TransProtocol></TransProtocol>
    </SipTemplate>
  </SipTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SipTemplates
Table type	Multi-instance table
Row name	SipTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Name.		Length: 1 to 32 characters.	
ExpectStatus	The list of expected status code.	N/A	Number string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	N/A
TransProtocol	Transport layer protocol.	N/A	Enumeration: • 6—TCP. • 17—UDP.	N/A

NQA/SslTemplates(not supported)

This table contains information about SSL templates.

XML structure

```

<NQA>
  <SslTemplates>
    <SslTemplate>
      <Name></Name>
      <ClientPolicy></ClientPolicy>
    </SslTemplate>
  </SslTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	SslTemplates
Table type	Multi-instance table
Row name	SslTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template Name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientPolicy	SSL client policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A