

Comware V7 Session NETCONF XML API Configuration Reference

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Session

Session/Ipv4Persistent

This table contains IPv4 persistent sessions' information.

XML structure

```
<Session>
  <Ipv4Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv4Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Persistent
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	Remarks
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv4 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never ageing. This column can only be configured when <i>ACLNumber</i> is also configured.

Session/Ipv6Persistent

This table contains IPv6 persistent sessions' information.

XML structures

```
<Session>
  <Ipv6Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv6Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Persistent
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	Remarks
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv6 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never agging. This column can only be configured when <i>ACLNumber</i> is also configured.

Session/L4StateAgingTime

This table contains the aging time for the sessions in transport layer protocol states.

XML structure

```
<Session>
  <L4StateAgingTime>
    <AgingTime>
      <StateID></StateID>
      <TimeValue></TimeValue>
    </AgingTime>
  </L4StateAgingTime>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	L4StateAgingTime
Table type	Multi-instance table
Row name	AgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StateID	Transport layer protocol state ID.	Index	Unsigned integer. Value range: 0 to 18. 0—SYN-SENT and SYN-RCV (TCP) 1—ESTABLISHED (TCP). 2—FIN-WAIT (TCP). 3—UDP-OPEN. 4—UDP-READY. 5—ICMP -REQUEST. 6—ICMP -REPLY. 7—RAWIP-OPEN. 8—RAWIP-READY. 9—UDPLITE-OPNE. 10—UDPLITE-READY. 11—DCCP-REQUEST. 12—DCCP-EST. 13—DCCP-CLOSEREQ. 14—SCTP-INIT.	The aging time can be configured if is the protocol ID is 0 to 8. The aging times for other protocols use the default value.

Column name	Column description	Column type	Data type and restrictions	Remarks
			15—SCTP-EST. 16—SCTP-SHUTDOWN. 17—ICMPV6-REQUEST. 18—ICMPV6-REPLAY.	
			Unsigned integer. Value range: 5 to 100000 seconds. Default aging time for sessions in different protocol states is as follows: 0—SYN-SENT or SYN-RCV (TCP) : 30 1—ESTABLISHED (TCP) : 3600 2—FIN-WAIT (TCP): 30 3—UDP -OPEN : 30 4—UDP -READY : 60 5—ICMP -REQUEST : 60 6—ICMP -REPLY : 30 7—RAWIP-OPEN : 30 8—RAWIP-READY : 60 9—UDPLITE-OPNE : 30 10—UDPLITE-READY : 60 11—DCCP-REQUEST : 30 12—DCCP-EST : 3600 13—DCCP-CLOSEREQ : 30 14—SCTP-INIT : 30 15—SCTP-EST : 3600 16—SCTP-SHUTDOWN:30 17—ICMPV6-REQUEST :60 18—ICMPV6-REPLAY : 30	
TimeValue	Aging time (seconds).	N/A		N/A

Session/AppAgingTime

This table contains the aging time for the sessions of application layer protocols.

XML structure

```

<Session>
  <AppAgingTime>
    <AgingTime>
      <AppID></AppID>
      <TimeValue></TimeValue>
    </AgingTime>
  </AppAgingTime>
</Session>

```

```

    </AgingTime>
  </AppAgingTime>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	AppAgingTime
Table type	Multi-instance table
Row name	AgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Application layer protocol ID.	Index	Unsigned integer. Value range: 0 to 16. 0—DNS. 1—FTP. 2—GTP. 3—H.225. 4—H.245. 5—RAS. 6—RTSP. 7—SIP. 8—TFTP. 9—IIS. 10—MGCP. 11—NBT. 12—PPTP. 13—RSH. 14—SCCP. 15—SQLNET. 16—XDMCP.	N/A
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range: 5 to 100000 seconds. Default aging time for sessions of application layer protocols is as follows:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—DNS: 60. • 1—FTP: 3600. • 2—GTP: 60. • 3—H.225: 3600. • 4—H.245: 3600. • 5—RAS: 300. • 6—RTSP: 3600. • 7—SIP: 300. • 8—TFTP: 60. • 9—ILS: 3600. • 10—MGCP: 60. • 11—NBT: 3600. • 12—PPTP: 3600. • 13—RSH: 60. • 14—SCCP: 3600. • 15—SQLNET: 600. • 16—XDMCP: 3600.	

Session/LogThreshold

This table contains threshold for session logging.

XML structure

```

<Session>
  <LogThreshold>
    <TimeThreshold></TimeThreshold>
    <FlowThreshold>
      <Type></Type>
      <Threshold></Threshold>
    </FlowThreshold>
  </LogThreshold>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	LogThreshold
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	Remarks
TimeThreshold	Time-based session logging threshold (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	The value must be integer times of 10.
FlowThreshold	Traffic-based session logging threshold (minutes).	Data structure.	Members include: - Type. - Threshold.	
Type	Type of traffic-based session logging.	N/A	Enumeration: 0—Packet-based threshold for traffic-based logging. 1—Byte-based threshold for traffic-based logging.	If you set both the byte-based and packet-based thresholds, the last configuration takes effect.
Threshold	Threshold for traffic-based logging.	N/A	Unsigned integer. Value range: 1 to 1000.	If type is 0, the unit is mega-packets. If type is 1, the unit is mega-bytes.

Session/Ipv4LogOnInterfaces

This table contains interfaces on which IPv4 session logging is enabled.

XML structure

```

<Session>
  <Ipv4LogOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ACLNumber></ACLNumber>
    </Interface>
  </Ipv4LogOnInterfaces>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LogOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
ACLNumber	IPv4 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL. If no ACL is specified, this configuration enables session logging for all IPv4 sessions on the interface. This column can be null.

Session/Ipv6LogOnInterfaces

This table contains interfaces to which IPv6 session logging is enabled.

XML structure

```
<Session>
```

```

<Ipv6LogOnInterfaces>
  <Interface>
    <IfIndex></IfIndex>
    <Direction></Direction>
    <ACLNumber></ACLNumber>
  </Interface>
</Ipv6LogOnInterfaces>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LogOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ACLNumber	IPv6 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL. If no ACL is specified, this configuration enables session logging for all IPv6 sessions on the interface. This column can be null.

Session/HotBackup

This table contains session hot backuping configurations.

XML structure

```
<Session>
  <HotBackup>
    <EnableHotBackup></EnableHotBackup>
  </HotBackup>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	HotBackup
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	Remarks
EnableHotBackup	Whether enable hot backuping for session tables.	N/A	Boolean: - true - false (default).	N/A

Session/ConnectionLimit/Ipv4Policies

This table contains IPv4 connection limit policy configurations..

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4Policies>
      <Policy>
```

```

        <PolicyNumber></PolicyNumber>
    </Policy>
</Ipv4Policies>
</ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6Policies

This table contains IPv6 connection limit policy configurations..

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv6Policies>
      <Policy>
        <PolicyNumber></PolicyNumber>
      </Policy>
    </Ipv6Policies>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv4LimitRules

This table contains IPv4 connection limit rule configurations.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>
        </LimitType>
      </Rule>
    </Ipv4LimitRules>
  </ConnectionLimit>
</Session>
```

```

    </ConnectionLimit>
  </Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
RuleNumber	IPv4 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
ACLName	IPv4 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 1000000.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 1000000.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: - PerSource. - PerDestination. - PerService.	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: - true—YES - false—NO(default).	N/A

Session/ConnectionLimit/Ipv6LimitRules

This table contains IPv6 connection limit rule configurations.

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv6LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <LimitType>

```

```

        <PerSource></PerSource>
        <PerDestination></PerDestination>
        <PerService></PerService>
    </LimitType>
</Rule>
</Ipv6LimitRules>
</ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
RuleNumber	IPv6 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
ACLName	IPv6 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.

Column name	Column description	Column type	Data type and restrictions	Remarks
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 1000000.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 1000000.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: - PerSource. - PerDestination. - PerService.	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: - true—YES - false—NO(default).	N/A

Session/ConnectionLimit/Ipv4PolicyAppliedGlobally

This table contains IPv4 connection limit policy applied globally.

XML structure

```
<Session>
  <ConnectionLimit>
```

```

    <Ipv4PolicyAppliedGlobally>
      <PolicyNumber></PolicyNumber>
    </Ipv4PolicyAppliedGlobally>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4PolicyAppliedGlobally
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	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyAppliedGlobally

This table contains IPv6 connection limit policy applied globally.

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv6PolicyAppliedGlobally>
      <PolicyNumber></PolicyNumber>
    </Ipv6PolicyAppliedGlobally>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyAppliedGlobally
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	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv4PolicyOnInterfaces

This table contains interfaces to which IPv4 connection limit policy is applied.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv4PolicyOnInterfaces>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4PolicyOnInterfaces

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.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv4 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyOnInterfaces

This table contains interfaces to which IPv6 connection limit policy is applied.

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv6PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv6PolicyOnInterfaces>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyOnInterfaces

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.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv6 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A