



# X Commands

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This chapter describes the Cisco NX-OS system management commands that begin with the letter X.

# xml server max-session

To configure the number of allowed XML server sessions, use the **xml server max-session** command. To reset the number to the default, use the **no** form of this command.

**xml server max-session** *max-sessions*

**no xml server max-session** *max-sessions*

<b>Syntax Description</b>	<i>max-sessions</i> Maximum number of allowed XML server sessions. The range is from 1 to 8. The default is 8.				
<b>Defaults</b>	The XML server sessions allowed is 8.				
<b>Command Modes</b>	Global configuration mode (config)				
<b>Supported User Roles</b>	network-admin vdc-admin				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(1)	This command was introduced.
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4.0(1)	This command was introduced.				
<b>Usage Guidelines</b>	This command does not require a license.				
<b>Examples</b>	<p>This example shows how to configure the number of allowed XML server sessions:</p> <pre>switch(config)# <b>xml server max-session 4</b></pre> <p>This example shows how to reset the number of allowed XML server sessions to the default:</p> <pre>switch(config)# <b>no xml server max-session 4</b></pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><b>show xml server status</b></td> <td>Displays information about the status of the XML server.</td> </tr> </tbody> </table>	Command	Description	<b>show xml server status</b>	Displays information about the status of the XML server.
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# xml server terminate session

To terminate an XML server session, use the **xml server terminate session** command.

**xml server terminate session** *session\_id*

<b>Syntax Description</b>	<i>session_id</i> Session number. The range is from 0 to 2147483647.				
<b>Defaults</b>	None				
<b>Command Modes</b>	Any command mode				
<b>SupportedUserRoles</b>	network-admin network-operator vdc-admin vdc-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(1)	This command was introduced.
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<b>Usage Guidelines</b>	This command does not require a license.				
<b>Examples</b>	<p>This example shows how to terminate an XML server session:</p> <pre>switch(config)# <b>xml server terminate session 3</b></pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><b>show xml server status</b></td> <td>Displays information about the status of the XML server.</td> </tr> </tbody> </table>	Command	Description	<b>show xml server status</b>	Displays information about the status of the XML server.
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# xml server timeout

To configure the XML server session timeout, use the **xml server timeout** command. To reset the timeout to the default, use the **no** form of this command.

```
xml server timeout timeout [session_id]
```

```
no xml server timeout timeout [session_id]
```

Syntax Description	
<i>timeout</i>	Timeout in seconds. The range is from 0 to 1200. The default is 1200.
<i>session_id</i>	(Optional) XML server session number. The range is from 0 to 2147483647.

**Defaults** The timeout is 1200 seconds.

**Command Modes** Global configuration mode (config)

**SupportedUserRoles** network-admin  
vdc-admin

Command History	Release	Modification
	4.0(1)	This command was introduced.

**Usage Guidelines** You can apply the XML server timeout only to active sessions.  
This command does not require a license.

**Examples** This example shows how to configure the XML server timeout for active sessions:

```
switch(config)# xml server timeout 800
```

This example shows how to reset the timeout to the default:

```
switch(config)# no xml server timeout 800
```

# xml server validate

To validate XML documents, use the **xml server validate** command. To disable XML document validation, use the **no** form of this command.

```
xml server validate {all | session_id}
```

```
no xml server validate {all | session_id}
```

Syntax Description	all	Validates all sessions.
	<i>session_id</i>	Session number. The range is from 0 to 2147483647.

**Defaults** Disabled

**Command Modes** Any command mode

**SupportedUserRoles** network-admin  
network-operator  
vdc-admin  
vdc-operator

Command History	Release	Modification
	4.0(1)	This command was introduced.

**Usage Guidelines** You can validate XML documents only for active sessions.  
This command does not require a license.

**Examples** This example shows how to validate XML documents for all active sessions:

```
switch(config)# xml server validate all
```

This example shows how to disable validation of XML documents for all sessions:

```
switch(config)# no xml server validate all
```

# xmlin

To install the XMLIN tool on the device and generate equivalent Network Configuration (NETCONF) formats of all CLI commands entered in this mode, use the **xmlin** command.

## xmlin

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC mode

**SupportedUserRoles** network-admin  
network-operator  
vdc-admin  
vdc-operator

Command History	Release	Modification
	6.2(2)	This command was introduced.

**Usage Guidelines** The XMLIN tool converts CLI commands to the NETCONF protocol format. NETCONF is a network management protocol that provides mechanisms to install, manipulate, and delete the configuration of network devices. It uses XML-based encoding for configuration data and protocol messages. The Cisco NX-OS implementation of the NETCONF protocol supports the following protocol operations: <get>, <edit-config>, <close-session>, <kill-session>, and <exec-command>.

The XMLIN tool converts **show**, EXEC, and configuration commands to corresponding NETCONF <get>, <exec-command>, and <edit-config> requests. You can enter multiple configuration commands into a single NETCONF <edit-config> instance.

Note the following restrictions:

- In NETCONF, <edit-config> requests cannot consist of any **show** commands.
- In each <get-config> instance, only one **show** command is allowed.



### Note

Although the XMLIN tool is usually capable of generating NETCONF instances of commands even if the corresponding feature sets or the required hardware capabilities are not available on the device, you might have to install some feature sets before entering the **xmlin** command.

The XMLIN tool also converts the output of **show** commands to XML format by using the *show-command* | **xmlin** command.

Ensure the XMLIN tool is installed before you use the *show-command* | **xmlin** command.

**Note**

XMLIN requires no license. Any feature not included in a license package is bundled with the Cisco NX-OS system images and is provided at no extra charge to you. For a complete explanation of the Cisco NX-OS licensing scheme, see the *Cisco NX-OS Licensing Guide*.

**Examples**

This example shows how the XMLIN tool is installed on the device and used to convert a set of configuration commands to an <edit-config> instance:

```
switch# xmlin
*****
Loading the xmlin tool. Please be patient.
*****
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Copyright © 2002-2013, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
switch(xmlin)# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)(xmlin)# interface ethernet 2/1
% Success
switch(config-if-verify)(xmlin)# cdp enable
% Success
switch(config-if-verify)(xmlin)# end
<?xml version="1.0"?>
<nf:rpc xmlns:nf="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns="http://www.cisco.com/nxos:6.2.2.:configure_"
xmlns:m="http://www.cisco.com/nxos:6.2.2.:_exec"
xmlns:ml="http://www.cisco.com/nxos:6.2.2.:configure__if-eth-base" message-id="1">
<nf:edit-config>
  <nf:target>
    <nf:running/>
  </nf:target>
<nf:config><nf:running/>
</nf:target>
<nf:config>
  <m:configure>
    <m:terminal>
      <interface>
        <__XML__PARAM__interface>
          <__XML__value>Ethernet2/1</__XML__value>
          <m1:cdp>
            <m1:enable/>
          </m1:cdp>
        </__XML__PARAM__interface>
      </interface>
    </m:terminal>
  </m:configure>
</nf:config>
</nf:edit-config>
</nf:rpc>
]]>]]>
```

This example shows how to convert the output of the **show interface brief** command to XML:

```
switch# show interface brief | xm1in
<?xml version="1.0"?>
<nf:rpc xmlns:nf="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns="http://www.cisco.com/nxos:6.2.2.:if_manager"

message-id="1">
  <nf:get>
    <nf:filter type="subtree">
      <show>
        <interface>
          <brief/>
        </interface>
      </show>
    </nf:filter>
  </nf:get>
</nf:rpc>
]]>]]>
```