

Config Template XML Schema

Cisco Prime LMS allows you to create new configuration templates (.xml format) that can be deployed using the Template Center feature.

This section explains:

- [Understanding the XML Schema](#)
- [Sample Template for Identity - Change of Authorization](#)

Understanding the XML Schema

This section explains the XML schema that you can use to create new templates (.xml format) and deploy them in LMS. See [Detailed Description of Template XML Schema](#) for more information.

The XML schema file is:

```
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:jaxb="http://java.sun.com/xml/ns/jaxb"
  xmlns:xjc="http://java.sun.com/xml/ns/jaxb/xjc"
  jaxb:extensionBindingPrefixes="xjc"
  jaxb:version="1.0">

  <xs:annotation>
    <xs:appinfo>
      <jaxb:globalBindings generateIsSetMethod="true">
        <xjc:serializable uid="1255591397484"/><!-- 14-Oct-2009 -->
      </jaxb:globalBindings>
    </xs:appinfo>
  </xs:annotation>

  <!-- Defining root OOTB template -->

  <xs:element name="ootb-template">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="template-metadata" type="template-metadata" minOccurs="1"
maxOccurs="1" />
        <xs:element name="config" type="config" minOccurs="1" maxOccurs="unbounded"
/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

```

<!-- Defining the template meta data -->
<xs:complexType name="template-metadata">
  <xs:all>
    <xs:element name="template-details" type="template-details"minOccurs="1"
maxOccurs="1" />
    <xs:element name="parameter-metadata" type="parameter-metadata" minOccurs="0"
maxOccurs="1" />
  </xs:all>
  <xs:attribute name="name" type="xs:string" use="required"/>
</xs:complexType>

<!-- Defining the template details -->
<xs:complexType name="template-details">
  <xs:all>
    <xs:element name="description" type="xs:string" maxOccurs="1" minOccurs="1" />
    <xs:element name="task" type="xs:string" maxOccurs="1" minOccurs="0"/>
    <xs:element name="author" type="xs:string" maxOccurs="1" minOccurs="0"
default="Cisco Systems"/>
    <xs:element name="template-version" type="xs:string" maxOccurs="1"
minOccurs="0" />
    <xs:element name="scope" type="xs:string" default="Device" maxOccurs="1"
minOccurs="0" />
    <xs:element name="type" type="xs:string" default="Partial" maxOccurs="1"
minOccurs="0" />
    <xs:element name="features" type="xs:string" minOccurs="0" maxOccurs="1" />
    <xs:element name="pin" type="xs:string" minOccurs="0" maxOccurs="1" />
    <xs:element name="hardware-platform" type="xs:string" minOccurs="0"
maxOccurs="1" />
    <xs:element name="imagefeature" type="xs:string" minOccurs="0" maxOccurs="1"
/>
    <xs:element name="conflictingtag" type="conflictingtag" maxOccurs="1"
minOccurs="0" />
  </xs:all>
</xs:complexType>

<!-- Defining the conflicting tag details -->
<xs:complexType name="conflictingtag">
  <xs:sequence>
    <xs:element name="platform" type="conflict-platform" minOccurs="1"
maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="conflict-platform">
  <xs:sequence>
    <xs:element name="feature" type="featureType" maxOccurs="unbounded" minOccurs="1"
/>
  </xs:sequence>
  <xs:attribute name="name" type="xs:string" use="required" />
</xs:complexType>

<xs:complexType name="featureType">
  <xs:sequence>
    <xs:element name="cli-command" type="cli-command" minOccurs="0" maxOccurs="1" />
  </xs:sequence>

  <xs:attribute name="name" type="xs:string" use="required"></xs:attribute>
  <xs:attribute name="message" type="xs:string" use="required"></xs:attribute>
</xs:complexType>

<!-- Defining parameter meta data -->

```

```

    <xs:complexType name="parameter-metadata">
    <xs:sequence>
        <xs:element name="param-group" type="param-group" minOccurs="1"
maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="param-group">
<xs:sequence>
    <xs:element name="description" type="xs:string" maxOccurs="1" minOccurs="1" />
    <xs:element name="parameter" type="parameter" minOccurs="1" maxOccurs="unbounded"
/>
</xs:sequence>
<xs:attribute name="name" type="xs:string" use="required"></xs:attribute>
<xs:attribute name="cliName" type="xs:string" use="required"></xs:attribute>
<xs:attribute name="isMandatory" type="xs:boolean" use="required"></xs:attribute>
</xs:complexType>

<xs:complexType name="parameter">
<xs:sequence>
    <xs:element name="description" type="xs:string" minOccurs="1" maxOccurs="1" />
    <xs:element name="html-component" type="xs:string" minOccurs="0" maxOccurs="1"
/>
    <xs:element name="default-value" minOccurs="0" maxOccurs="unbounded" >
        <xs:complexType>
            <xs:simpleContent>
                <xs:extension base="xs:string">
                    <xs:attribute name="label" type="xs:string"
use="optional"></xs:attribute>
                </xs:extension>
            </xs:simpleContent>
        </xs:complexType>
    </xs:element>
    <xs:element name="data-type" type="xs:string" minOccurs="0" maxOccurs="1" />
    <xs:element name="mandatory" type="xs:boolean" minOccurs="0" maxOccurs="1" />
    <xs:element name="isGlobal" type="xs:boolean" minOccurs="0" maxOccurs="1" />
    <xs:element name="help-description" type="xs:string" minOccurs="0"
maxOccurs="1" />
    <xs:element name="syntax" type="syntax" minOccurs="0" maxOccurs="1" />
</xs:sequence>
<xs:attribute name="name" type="xs:string" use="required"></xs:attribute>
</xs:complexType>

<xs:complexType name="syntax">
<xs:all>
    <xs:element name="min" type="xs:string" minOccurs="0" maxOccurs="1" />
    <xs:element name="max" type="xs:string" minOccurs="0" maxOccurs="1" />
    <xs:element name="pattern" type="cli-command" minOccurs="0" maxOccurs="1" />
</xs:all>
</xs:complexType>

<!-- Configuration details -->
<xs:complexType name="config">
<xs:sequence>
    <xs:element name="device-filtering-details" type="device-filtering-details" />
    <xs:element name="cli" type="cliType" minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="platform" type="xs:string" use="required"/>
</xs:complexType>

<xs:complexType name="cliType">
<xs:sequence>

```

```

        <xs:element name="clicommand" type="cli-command" minOccurs="1"
maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="name" type="xs:string" use="required"/>
</xs:complexType>

<!-- Device filtering details -->

<xs:complexType name="device-filtering-details">
    <xs:sequence>
        <xs:element name="family" type="family" minOccurs="1" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="family">
    <xs:all>
        <xs:element name="min-supported-imageversion"
type="min-supported-imageversion" minOccurs="1" maxOccurs="1" />
    </xs:all>
    <xs:attribute name="value" type="xs:string" use="required" />
</xs:complexType>

<xs:complexType name="min-supported-imageversion">
    <xs:sequence>
        <xs:element name="device-type" type="device-type" minOccurs="1"
maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="value" type="xs:string" use="required" />
</xs:complexType>

<xs:complexType name="device-type">
    <xs:all>
        <xs:element name="name" type="xs:string" minOccurs="0" maxOccurs="1" />
        <xs:element name="sysobjectid" type="xs:string" minOccurs="0" maxOccurs="1" />
    </xs:all>
</xs:complexType>

<!-- configuration cli -->

<xs:simpleType name="cli-command">
    <xs:restriction base="xs:string">
        <xs:annotation>
            <xs:appinfo>
                <jaxb type="CDATA" />
            </xs:appinfo>
        </xs:annotation>
    </xs:restriction>
</xs:simpleType>

</xs:schema>

```

Detailed Description of Template XML Schema

The table below describes elements in the XML schema.

Table B-1 Elements in the XML Schema

Xml Tag Name	Tag Description	Occurrence		Sample values
		Minimum	Maximum	
<ootb-template>	Any Template should start with this	1	1	<ootb-template> </ootb-template>
<template-metadata>	Configuration specific metadata should be under this tag. It has the following attribute: <ul style="list-style-type: none"> name—Specifies the name of the Template. This name is used for identifying the template. 	1	1	<template-metadata name="3750 access config">
<template-details>	This tag comes under template-metadata tag. This tag will take up the metadata such as description, task, author, revision to the template, date of the template creation	1	1	<template-details> </template-details>
<description>	This tag comes under template-details tag. Gives a small description about the template.	1	1	<description>c3750 stacked configuration</description>
<task>	This tag comes under template-details tag. It gives the functionality of the tag.	0	1	<task>Snmp Community settings</task>
<author>	This tag comes under template-details tag. It gives the name of the person who has created the template. Multiple names can be given separated by commas. By default, the author name is Cisco Systems.	0	1	<author>cisco systems</author>
<template-version>	This tag comes under template-details tag. It gives the revision number to the template.	0	1	<template-version>1.0</template-version>

Table B-1 Elements in the XML Schema

Xml Tag Name	Tag Description	Occurrence		Sample values
<scope>	This tag comes under template-details tag. It gives the scope of the template that accepts values of either Device, Port, Module	0	1	<scope>port</scope>
<type>	This tag comes under template-details tag. It refers to the type of the template taking values of either partial or complete.	0	1	<type>partial</type>
<features>	This tag comes under template-details tag. It gives the list of features for which this config can be applied. Features can be given in a comma separated values	0	1	<features>dhcp snoop, auto qos</features>
<pin>	This tag comes under template-details tag. It gives the devices in the network to which the template is applicable. Comma separated values are allowed	0	1	<pin>edge</pin>
<hardware-platform>	This tag comes under template-details tag. It gives the hardware type to which the template is applicable. Comma separated values are allowed.	0	1	<hardware-platform>stack</hardware-platform>
<imagefeature>	This tag comes under template-details tag. It gives the image feature that is required to apply this template.	0	1	<imagefeature>ipbase</imagefeature>
<conflictingtag>	This tag comes under template-details tag. The template cannot be applied when any cli is given under this tag.	0	1	<conflictingtag></conflictingtag>

Table B-1 Elements in the XML Schema

Xml Tag Name	Tag Description	Occurrence		Sample values
<platform>	<p>This tag comes under conflictingtag tag.</p> <p>It has an attribute <code>name</code> that specifies to which platform the conflicting tag belongs to. Following are the values taken by <code>name</code> attribute: ios,catos,pixos,nam,Soft Appliance,ios_ssl,ios_wlsm,ios_mwam,ios_webvpn,webns,ACE, ACNS,CSM</p>	1	Unlimited	<platform name="ios"> </platform>
<feature>	<p>This tag will come under conflictingtag. It has the following attributes,</p> <ul style="list-style-type: none"> • <code>name</code>—Name of the feature that is conflicting to this template. • <code>message</code>—Warning message that needs to be shown when this feature is available. • <code>platform</code>—Software platform to which this feature is conflicting to this template. 	1	Unlimited	<pre><feature name="dot1x" message="since dot1x conflict is there, do not configure the following template in the device." platform="ios"> </feature></pre>
<cli-command>	<p>This tag comes under feature tag. Cli which needs to be searched in a running configuration. If this configuration is found, the cli will not be deployed.</p>	0	1	<cli-command>no aaa new-model clock summer-time utc recurring</cli-command>
<parameter-metadata>	<p>This tag comes under template-metadata tag.</p> <p>This section describes the variables that are used in the template.</p>	1	1	<parameter-metadata> </parameter-metadata>

Table B-1 Elements in the XML Schema

Xml Tag Name	Tag Description	Occurrence		Sample values
<param-group>	<p>This tag comes under parameter-metadata tag and is used to group the parameters. For example, if there are five parameters, two can be grouped in one and the remaining three in another group.</p> <p>Attributes of this tag:</p> <ul style="list-style-type: none"> • name—Name of the group • cliName—A key that maps the parameter group to a Cli group. Both cliName and the name of the cli should be same. • isMandatory—To indicate if this group is mandatory for the template or not. Useful in case of partial template, where you will have the option in the UI as Skip this section. 	1	Unlimited	<pre><param-group name="Identity Commands" cliName="identity" isMandatory="true" > </param-group></pre>
<description>	<p>This tag comes under param-group tag.</p> <p>Provides a simple description about the parameter.</p> <p>It is mandatory as this will be taken as a Label for the html component.</p>	1	1	<pre><description>Readonly Community String</description></pre>
<parameter>	<p>This tag comes under parameter-metadata tag.</p> <p>Describes about a single parameter to get input from the user. This parameter will be converted into a html component. Any variable defined in the cli should have a parameter tag defined. It takes the name as an attribute to this tag.</p>	1	Unlimited	<pre><parameter name="readonly"></pre>
<html-component>	<p>This tag comes under parameter tag.</p> <p>Specifies what html component is rendered for the specified parameter.</p>	0	Unlimited	<pre><html-component>textbox</html-co mponent></pre>

Table B-1 Elements in the XML Schema

Xml Tag Name	Tag Description	Occurrence		Sample values
<default-value>	<p>This tag comes under parameter tag.</p> <p>Default value for the parameter. This tag can be used to give values for a select box. It has the following attribute:</p> <p>label—It is used to build the combo box content. The label value is displayed as a content to the combo box. The element value defined is considered as a selected value in the backend.</p>	0	Unlimited	<default-value label="0-shut">0</default-value>
<data-type>	<p>This tag comes under parameter tag. It specifies datatype of the input that is given to the parameter.</p>	0	1	<datatype>integer</datatype> Boolean or Integer
<mandatory>	<p>This tag comes under parameter tag.</p> <p>To specify if this parameter is mandatory parameter or not. Accepts value <code>true</code> or <code>false</code>.</p>	0	1	<mandatory></mandatory>
<isGlobal>	<p>This tag comes under parameter tag.</p> <p>To specify if this parameter is applicable for all devices or only one device.</p> <p>Accepts the following values:</p> <ul style="list-style-type: none"> • <code>true</code>—applicable for all devices • <code>false</code>—applicable for per device level 	0	1	<isGlobal></isGlobal>
<help-description>	<p>This tag comes under parameter tag.</p> <p>Use for describing more about this parameter.</p>	0	1	<help-description></help-description >
<syntax>	<p>This tag come under parameter tag.</p> <p>To specify the validation part for numeric field and the string parameter.</p>	0	1	<syntax></syntax>

Table B-1 Elements in the XML Schema

Xml Tag Name	Tag Description	Occurrence		Sample values
<min>	This tag comes under syntax tag. To specify the minimum value for a numeric field. The datatype should be numeric.	0	1	<Min>0</min>
<max>	This tag comes under syntax tag. To specify the maximum value for a numeric parameter. The datatype should be numeric.	0	1	<max>100</max>
<pattern>	This tag comes under syntax tag. To specify the regular expression for the string parameter. The regular expression is used to validate the value that is specified by the user.	0	1	<patter>[a-z]*</pattern>
<config>	This tag comes under ootb-template tag. The respective config which needs to be deployed into the devices is defined here. For example, config tag should come under OOTB-Template It has the following attribute: platform—Specifies to what software platform this config is applicable. Following are the values taken by this attribute: ios,catos,pixos,nam,Soft Appliance,ios_ssl,ios_wlsm,ios_mwam,ios_webvpn,webns,ACE, ACNS,CSM	1	1	<config></config>
<device-filtering-detail s>	This tag comes under config tag. To specify the filtering details for the device.	1	1	<device-filtering-details></device-filtering-details>
<family>	This tag comes under device-filtering-details tag. To specify what family this filtering belongs to. The Value should be as specified in mdfData.xml for the supported devices.	1	Unlimited	<family value="cisco catalyst 3750-e series switches"> </family>

Table B-1 Elements in the XML Schema

Xml Tag Name	Tag Description	Occurrence		Sample values
<min-supported-image version>	This tag come under family tag. To specify the minimum supported image version to which this template will be applicable.	1	1	<min-support-imageversion>12.2(40)se</min-support-imageversion>
<device-type>	This tag comes under min-supported-imageversion. To specify which device type this template will be applicable.	1	Unlimited	<device-type> </device-type>
<name>	This tag comes under device-type tag. It gives the MDF name of the device type.	0	1	<name> </name>
<sysobjectid>	This tag comes under device-type tag. It gives the sysobjectid of the device.	0	1	<sysObjectId></sysObjectId>
<cli>	This tag come under config tag. It specifies the cli for the mentioned software platform. It has the attribute called name. The value should be same as that of param-group name. This is used to map the param-group to that of cli.	0	Unlimited	<cli name="snmpSecurity">
<clicommand>	This tag comes under cli tag. To specify the command that will be deployed.	1	Unlimited	<clicommand><![CDATA[]]></clicommand>
<MLTCMD>	To specify multi-line commands like, banner and crypto certificate commands. The commands within the MLTCMD tags are considered as a single command and will be downloaded as a single command onto the device These tags are case-sensitive and you must enter them only in uppercase. You cannot start this tag with a space. You can have a blank line within a multi-line command.	0	Unlimited	If you use this tag between cdata tags, then you must use <MLTCMD>. For example: <MLTCMD>banner login "Welcome to Cisco Prime LMS - you are using Multi-line commands" </MLTCMD> If cdata is not present, then you must use <MLTCMD>. For example: <MLTCMD> banner login "Welcome to Cisco Prime LMS - you are using Multi-line commands" </MLTCMD>

Sample Template for Identity - Change of Authorization

The section shows the template for Identity - Change of Authorization:

```
<?xml version="1.0"
encoding="iso-8859-1"?><!--*****-->
<!--      Copyright (c) 2009, 2010 Cisco Systems, Inc.      -->
<!--      All rights reserved.      -->
<!--*****-->

<ootb-template>
<template-metadata name="Identity - Change of Authorization">
  <template-details>
    <description>Identity - Change of Authorization</description>
    <task>Identity</task>
    <author>Cisco Systems</author>
    <template-version>1.0</template-version>
    <scope>Device</scope>
    <type>partial</type>
    <features></features>
    <pin>edge</pin>
    <hardware-platform>Device</hardware-platform>
    <imagefeature>ipbase</imagefeature>
  </template-details>
  <parameter-metadata>
    <param-group name="Identity Commands" cliName="identity" isMandatory="true" >
      <description>A standard RADIUS interface is one where the request for
authorization originates from the device attached to the network, and the response comes
from the queried RADIUS servers. However, Catalyst Switches support the RADIUS Change of
Authorization (CoA). CoA allows for the dynamic reconfiguration of sessions from external
RADIUS servers.</description>
      <parameter name="ipaddress">
        <description>RADIUS client IP address or Host name</description>
        <html-component>textbox</html-component>
        <default-value></default-value>
        <data-type>string</data-type>
        <mandatory>true</mandatory>
        <isGlobal>true</isGlobal>
        <help-description></help-description>
        <syntax>
          <min></min>
          <max></max>
          <pattern></pattern>
        </syntax>
      </parameter>
      <parameter name="authtype">
        <description>Type of authorization the device uses for RADIUS clients</description>
        <html-component>select</html-component>
        <default-value label="any">any</default-value>
        <default-value label="all">all</default-value>
        <default-value label="session-key">session-key</default-value>
        <data-type>string</data-type>
        <mandatory>true</mandatory>
        <isGlobal>true</isGlobal>
        <help-description></help-description>
        <syntax>
          <min></min>
          <max></max>
          <pattern></pattern>
        </syntax>
    </param-group>
  </parameter-metadata>
</template-metadata>
```

```

</parameter>

<parameter name="server-key">
  <description>RADIUS Key shared between the device and RADIUS clients</description>
  <html-component>password</html-component>
  <default-value></default-value>
  <data-type>string</data-type>
  <mandatory>true</mandatory>
  <isGlobal>true</isGlobal>
  <help-description></help-description>
  <syntax>
    <min></min>
    <max></max>
    <pattern></pattern>
  </syntax>
</parameter>

<parameter name="port">
  <description>Port on which the device listens for RADIUS requests [0 -
65535]</description>
  <html-component>textbox</html-component>
  <default-value>1700</default-value>
  <data-type>numeric</data-type>
  <mandatory>true</mandatory>
  <isGlobal>true</isGlobal>
  <help-description></help-description>
  <syntax>
    <min>0</min>
    <max>65535</max>
    <pattern></pattern>
  </syntax>
</parameter>
</param-group>

</parameter-metadata>
</template-metadata>
<config platform="ios">
  <device-filtering-details>
    <family value="Switches and Hubs">
      <min-supported-imageversion value="12.2(52)SE">
        <device-type>
          <name>Cisco Catalyst 2960-24TC Switch</name>
          <sysobjectid>1.3.6.1.4.1.9.1.694</sysobjectid>
        </device-type>
        <device-type>
          <name>Cisco Catalyst 2960-48TC Switch</name>
          <sysobjectid>1.3.6.1.4.1.9.1.695</sysobjectid>
        </device-type>
        <device-type>
          <name>Cisco Catalyst 2960G-24TC Switch</name>
          <sysobjectid>1.3.6.1.4.1.9.1.696</sysobjectid>
        </device-type>
        <device-type>
          <name>Cisco Catalyst 2960G-48TC Switch</name>
          <sysobjectid>1.3.6.1.4.1.9.1.697</sysobjectid>
        </device-type>
        <device-type>
          <name>Cisco Catalyst 2960-24TT Switch</name>
          <sysobjectid>1.3.6.1.4.1.9.1.716</sysobjectid>
        </device-type>
        <device-type>
          <name>Cisco Catalyst 2960-48TT Switch</name>
          <sysobjectid>1.3.6.1.4.1.9.1.717</sysobjectid>
        </device-type>
      </min-supported-imageversion>
    </family>
  </device-filtering-details>
</config>

```

```

<device-type>
  <name>Cisco Catalyst 2960-8TC Compact Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.798</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960G-8TC Compact Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.799</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960-24-S Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.929</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960-24TC-S Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.928</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960-48TC-S Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.927</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960-24PC-L Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.950</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960-24LT-L Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.951</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960PD-8TT-L Compact Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.952</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960-8TC-S Compact Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.1006</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960-48TT-S Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.1005</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960-48PST-L Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.1016</sysobjectid>
</device-type>
<device-type>
  <name>Cisco Catalyst 2960-24LC-S Switch</name>
  <sysobjectid>1.3.6.1.4.1.9.1.1146</sysobjectid>
</device-type>
<device-type>
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                client ${ipaddress}
                server-key ${server-key}
                port ${port}
                auth-type ${authtype}
            ]]>
        </clicommand>
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</config>

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