Using Change of Authorization REST APIs

Change of Authorization (CoA) calls send commands to a specified session on a targeted Monitoring node to perform the following:

- Session reauthentication (using a Reauth API call)
- Session disconnection (using a Disconnect API call).

The following sections describe each type of CoA API call as well as provide schema file examples, procedures for issuing each call, and a sample of the data returned:

Using Reauth API Calls

A Reauth API call sends a reauthentication command to a specified session. Each session has an associated value and can be one of the following:

- 0—REAUTH_TYPE_DEFAULT
- 1—REAUTH_TYPE_LAST
- 2—REAUTH_TYPE_RERUN

Reauth API Call Schema File

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="remoteCoA" type="coAResult"/>
<xs:complexType name="coAResult">
   <xs:sequence>
     <xs:element name="results" type="xs:boolean" minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="requestType" type="xs:string"/>
  </xs:complexType>
</xs:schema>
```

Invoking a Reauth API Call

> **Note** Make sure that you have verified that the target node is a valid Monitoring node. To verify the persona of a node, see Verifying a Monitoring Node, page 1-2.

Step 1 Log in to the target Monitoring node.

For example, when you initially log in to a Monitoring node with the hostname acme123, the following URL address field is displayed:

```
https://acme123/admin/LoginAction.do#pageId=com_cisco_xmp_web_page_tmpdash
```

Step 2 Enter the Reauth API call in the URL address field of the target node by replacing the "/admin/" component with the API call component (/ise/mnt/CoA/<specific-api-call>/<macaddress>/ <reauthtype>/<nasipaddress>/<destinationipaddress>):

```
https://acme123/ise/mnt/CoA/Reauth/server12/00:26:82:7B:D2:51/2/10.10.10.10
```

> **Note** You must carefully enter each API call in the URL Address field of a target node because the calls are case sensitive. The use of "mnt" in the API call convention represents a Monitoring node.

Step 3 Press **Enter** to issue the API call.

Reauth API Call Data

A Reauth API call returns one of the following results:

- True, which indicates that the command was successfully executed.
- False, which means that the command was not executed.

```
This XML file does not appear to have any style information associated with it. The
document tree is shown below.

-
<remoteCoA requestType="reauth">
<results>true</results>
</remoteCoA>
```

Using Disconnect API Calls

A Disconnect API call sends a disconnect command to a specified session and port. Each port has an associated value and can be one of the following:

- 0—DYNAMIC_AUTHZ_PORT_DEFAULT
- 1—DYNAMIC_AUTHZ_PORT_BOUNCE
- 2—DYNAMIC_AUTHZ_PORT_SHUTDOWN

Disconnect API Call Schema File

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:element name="remoteCoA" type="coAResult"/>

  <xs:complexType name="coAResult">
    <xs:sequence>
      <xs:element name="results" type="xs:boolean" minOccurs="0"/>
    </xs:sequence>
    <xs:attribute name="requestType" type="xs:string"/>
  </xs:complexType>
</xs:schema>
```

Invoking a Disconnect API Call

Note   Make sure that the target node to which you are issuing an API call is a valid Monitoring node. To verify the persona of a node, see Verifying a Monitoring Node, page 1-2.

Step 1   Log in to the target Monitoring node.

For example, when you initially log in to a Monitoring node with the hostname acme123, the following URL address field is displayed:

```
https://acme123/admin/LoginAction.do#pageId=com_cisco_xmp_web_page_tmpdash
```

Step 2   Enter the Disconnect API call in the URL address field of the target node by replacing the "/admin/" component with the API call component (/ise/mnt/CoA/<Disconnect>/<serverhostname>/<macaddress>/<portoptiontype>/<nasipaddress>/<destinationipaddress>):

```
https://acme123/ise/mnt/CoA/Disconnect/server12/
00:26:82:7B:D2:51/2/10.10.10.10
```

Note   You must carefully enter each API call in the URL address field of a target node because the calls are case sensitive. The use of "mnt" in the API call convention represents a Monitoring node.

Step 3   Press **Enter** to issue the API call.

Disconnect API Call Data

A Disconnect API call returns one of the following results:

- True, which indicates that the command was successfully executed.
- False, which means that the command was not executed.

```
This XML file does not appear to have any style information associated with it. The
document tree is shown below.

-
<remoteCoA requestType="reauth">
<results>true</results>
</remoteCoA>
```