

Business Connector



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Business Connector

This document describes the Business Connector and its webservice which allows 3rd parties to logon and logoff Cisco IP phones.

This document applies to Business Connector 1.4.

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Overview

The Business Connector is a server application that, on one side, can communicate with Cisco Unified Communication Managers and on the other side can communicate with almost every other server application. The Business Connector contains two main interfaces: a Dashboard and a Webservice.

> Dashboard

The dashboard allows administrators to view status information and history of login/logout requests.

> Webservice

The Webservice provides API services to allow other server applications to login/logout Cisco IPphones but does not contain any user interface.

Webservice

> Format

The default input/output format is XML. Other formats might be supported in future.

The XML endpoint can be customized by adding a DNS entry pointing to the IP address of the webservice. e.g. bcwebservice.yourdomain.com

The webservice supports the POST keyword and has only one parameter, named xml containing the request message. All xml input elements are case sensitive.

The default request message has the following format:

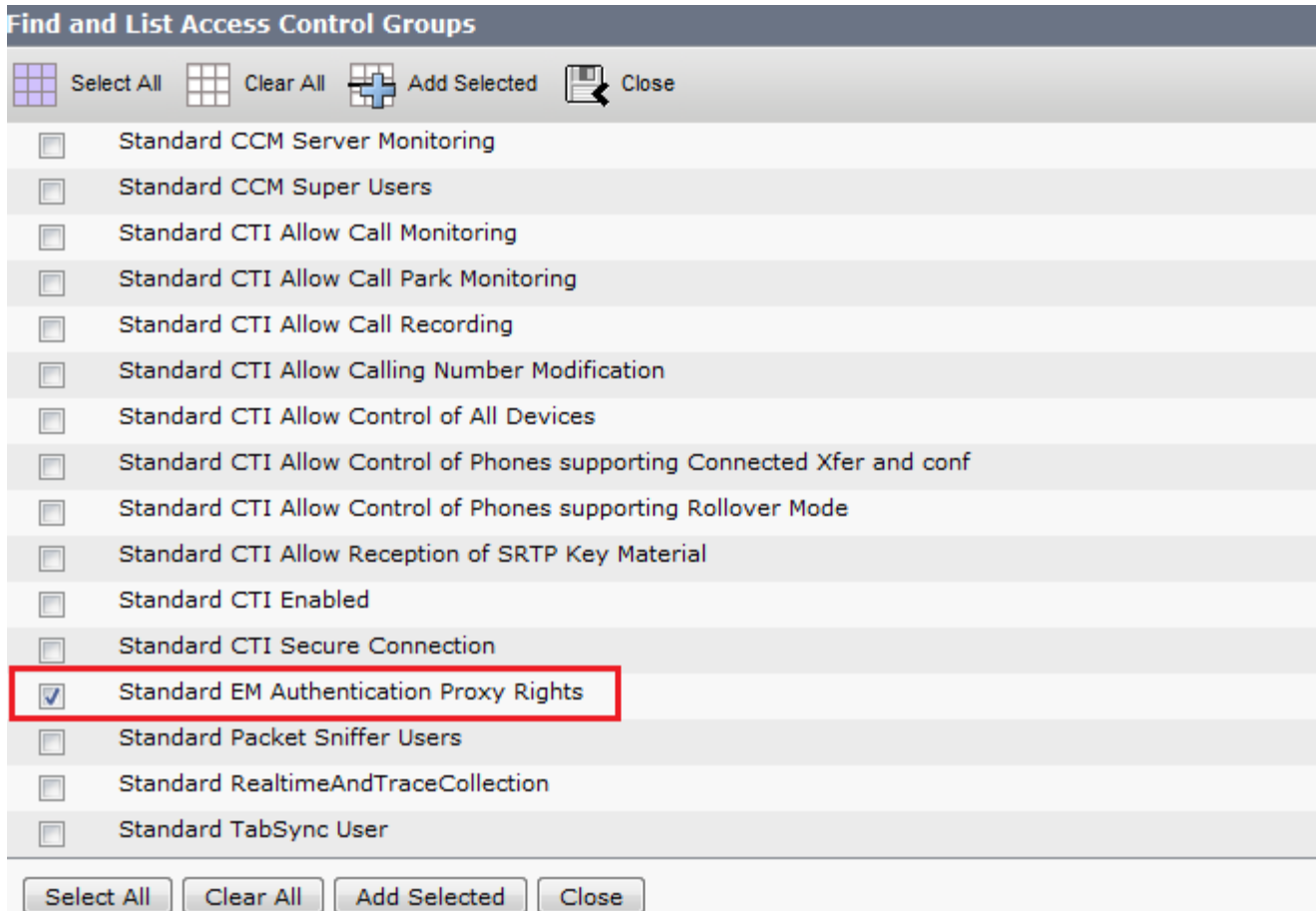
```
<request>  
xml message  
</request>
```

The response message has the following format:

```
<?xml version='1.0' encoding='UTF-8'?>  
<result>  
xml message  
</result>
```

Authentication and security

Most API calls require authentication through credentials, except when listed otherwise. The credentials are passed through from/to the CUCM. A valid CUCM application user with "Standard EM authentication Proxy rights" is required.



The credentials are passed as a user/password pair, see example below:

```
<appID>MyApplicationUser</appID>  
<appCertificate>MyApplicationPW</appCertificate>
```

Optionally the webservice can be protected by SSL client certificates, IP address white/black listing and other methods in Internet Information Server as required.

API calls

GetVersionInfo

Returns the version of the webservice API
No credentials required

Input parameters: -

Output parameters:
appversion
appname

example:

```
/api/getversioninfo
```

```
<?xml version='1.0' encoding='UTF-8'?>  
<result>  
<appversion>1.4</appversion>  
<appname>Business Connector</appname>  
</result>
```

Login

Attempts a login request of an Extension Mobility profile of a Cisco IPphone

Input parameters:

deviceName:

Cisco Phone MAC address 15 characters, e.g. SEP000BFD9088D2

userID:

EM login name, e.g. myname@company.com

Cluster Code (optional):

target a specific Cluster with this cluster code, e.g. EU

PIN (optional):

when the user is roaming cross cluster, a PIN is required to login a user's EM profile

Output parameters:

code:

0 = success, <>0 error

text:

description of error code. Subject to change, use code field for logic

example request:

```
/api/login/SEP1CE6C79BAF1F/ALMUSER01  
/api/login/SEP1CE6C79BAF1F/ALMUSER01/EU  
/api/login/SEP1CE6C79BAF1F/ALMUSER01/EU/1234
```

example response:

```
<?xml version='1.0' encoding='UTF-8'?>  
<response>  
<result>  
<deviceName>SEP1CE6C79BAF1F</deviceName>  
<userID>ALMUSER01</userID>  
<code>0</code>  
<text>Login successful for ALMUSER01 on device SEP1CE6C79BAF1F<Text>  
</result>  
</response>
```

Logout

Attempts a logout request of an Extension Mobility profile on a Cisco desktop phone

Input parameters:

deviceName:

Cisco Phone MAC address 15 characters, e.g. SEP000BFD9088D2

Cluster Code (optional):

target a specific Cluster with this cluster code, e.g. EU

Output parameters:

code:

0 = success, <>0 error

text:

description of error code. Subject to change, use code field for logic

example request:

```
/api/logout/SEP1CE6C79BAF1F  
/api/logout/SEP1CE6C79BAF1F/EU
```

example response:

```
<?xml version='1.0' encoding='UTF-8'?>  
<response>  
<result>  
<deviceName>SEP1CE6C79BAF1F</deviceName>  
<code>0</code>  
<text>Logout successful for device SEP1CE6C79BAF1F<Text>  
</result>  
</response>
```

Get logged in user

Retrieves the currently logged in user of a Cisco desktop phone

Input parameters:

deviceName:

Cisco Phone MAC address 15 characters, e.g. SEP000BFD9088D2

Cluster Code (optional):

target a specific Cluster with this cluster code, e.g. EU

Output parameters:

code:

0 = success, <>0 error

text:

description of error code. Subject to change, use code field for logic

userID:

logged in user

example request:

```
/api/getloggedinuser/SEP001120F678E2  
/api/getloggedinuser/SEP001120F678E2/EU
```

example response:

```
<?xml version='1.0' encoding='UTF-8'?>  
<response>  
<result>  
<deviceName>SEP001120F678E2</deviceName>  
<userID>ALMUSER01</userID>  
<code>0</code>  
<text>Get logged in user request successful<Text>  
</result>  
</response>
```


Response codes

(Subject to change)

Code	Text	Description
0	Success	
3	Invalid App User	The appid supplied in the XML is not a valid user.
4	Policy Validation error	Does not conform to the policy set up for the user. For example, multiple log in not allowed.
11	Device does not exist	Trying to perform an operation on a device that does not exist.
12	Dev. Profile not found	Trying to use a User Device Profile that does not exist.
18	Another user logged in	Another user is logged in to the device where login is being performed.
22	Dev. logon disabled	Extension Mobility is not enabled on the device.
23	User not found	Given user ID is invalid.
25	User logged in elsewhere	User is trying to log in to a device, but is already logged in to another device and multiple log in is not allowed.
404	Device ID empty	The mandatory parameter DeviceID is missing
1001	Cluster with code [cluster] not found	The value of the code parameter is not found in the list of clusters

Dashboard

The dashboard is not part of the initial project scope.

Additional Information

For any additional information please contact or visit:

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