Cisco TelePresence Content Server

API Guide

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1 INTRODUCTION

The Cisco TelePresence Content Server (Content Server) includes an Application Programmer Interface (API) that has been designed to provide mechanisms for external systems and services to get information from and add information to the Content Server. In this document, the API calls have been sorted into four main categories: Call Management, External Management, Content Library and Recording. The External Management category has been designed for integration with the Cisco TelePresence Management Suite (TMS) but might also be of use with other management systems.

The Content Server API is a Simple Object Access Protocol (SOAP) 1.2 interface that makes calls on various components of the Content Server system.

For further information on SOAP, see the web site http://www.w3.org/TR/soap/ where you can find specification and recommendation documents.

> ⚠ NOTE: To ensure backwards compatibility with third party integrator systems, the previous name of the Content Server, TANDBERG Content Server, continues to be used in API documents and SOAP responses.

1.1 Format of this document

Section 2 of this document provides an overview of the security features of the Content Server API. Section 3 lists the information you will require when developing with your SOAP client to use the Content Server API. Section 4 documents the behavior of the API in a CONTENT SERVER cluster.

In Sections 5 – 7, each API call is documented with the following information:

- The call name

- Supported in – version(s) supported

- Description – a brief overview of the call purpose

- Parameters – the required parameters (if any) and their format

- Returns – an example of the SOAP formatted call return

- Example – an example of the format of the HTTP post required to invoke the API call

Where there is a need for further explanation of any of these items, a notes section is included.

Section 8 documents API calls deprecated in version 3.0. Section 9 contains a few snippets of example code demonstrating possible methods of creating the SOAP calls. Section 10 shows some examples of other useful reporting information available from the Content Server.

1.2 Variable usage

Where practical examples of real strings and integers have been used in POST samples, where this was not practical (for example, large XML strings) the terms string and int (for integer) have been used. These terms have also been used in the result examples to represent the response from the Content Server API call.

1.3 Warnings

Use of this API does present risks. Many of the API calls can and do alter database entries, or configuration files on the Content Server. If any of these alterations are incorrect or malformed they may result in a Content Server that no longer functions as expected. Cisco support may not be able to assist you with troubleshooting in the event that this occurs.

2 SECURITY

2.1 Security Overview

The Content Server API system is protected by a security layer which requires authentication from each SOAP client for each API call. This is to protect the server from unauthorized manipulation of data, and from unauthorized access to content library data. Each time a SOAP client makes an API call to the Content Server, the client is presented with an HTTP 401 digest authentication challenge. When the client responds with a correct username and MD5 encrypted password response, the API response is generated.

The API authentication system is enabled by default on all Content Server installations. It may be disabled by a Content Server administrator in the Site Settings page.

If the API has been disabled, requests for API calls will be responded to with an HTTP 503 – service unavailable message. Additionally, if the API is disabled, TMS registration calls will still work, however registration errors will be noted in the TMS interface, and bookings and call management functions of TMS will not work with the Content Server.

2.2 Username and Passwords

The username for the API is **admin**. The default password for the API is your Content Server's **serial number**, eg. 49A20000. Your Content Server serial number is displayed on a sticker on top of the server. You can also check it from the *Management> Diagnostics> Server Overview* page. It is recommended that you change the default API password from the *Management> Configuration> Site Settings* page.

When you are operating a Content Server cluster, all API passwords must be the same on all cluster nodes. Passwords should be MD5 encrypted by your SOAP client for the response to the HTTP 401 challenge.

⚠️ CAUTION: If you choose to set the API password to an empty value, there will be no authentication challenge for API call requests. This will effectively enable the API with no authentication, which is a security risk.

2.3 Integration with TMS

For full compatibility with TMS, the API must be enabled. This allows Content Server registration, call management, scheduling and ticket management. When you use TMS, you must ensure that you set the username to **admin** and both password fields to the API password.

2.4 Example HTTP challenge and response

The following examples show the authentication process used in making the RequestConferenceID API call. These examples assume the standard flow of; make the call, receive the 401 challenge, respond to the challenge, receive the authorized response.

Initial Request:

```
POST /tcs/SoapServer.php HTTP/1.1
User-Agent: Mozilla/4.0 (compatible; MSIE 6.0; MS Web Services Client
Protocol 2.0.50727.42)
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://www.tandberg.net/XML/Streaming/1.0/RequestConferenceID"
Host: 10.10.10.10
Content-Length: 452
Expect: 100-continue
Connection: Keep-Alive

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <RequestConferenceID xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <owner>Jess</owner>
      <password />
      <startDateTime />
      <duration>1800</duration>
      <title>New Conference from app 1</title>
    </RequestConferenceID>
  </soap:Body>
</soap:Envelope>
```

Response: Digest authentication challenge

```
HTTP/1.1 401 Authorization Required
Server: Microsoft-IIS/5.1
Date: Sun, 06 Aug 2006 23:53:13 GMT
Connection: close
X-Powered-By: PHP/5.1.4
Set-Cookie: PHPSESSID=uuaold0v3q2jn5n35qpml0t3q4; path=/
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-
check=0
Pragma: no-cache
WWW-Authenticate: Digest realm="TANDBERG Content
Server",qop="auth",nonce="44d680e98f812",opaque="8f26ba16a05e575bf3abddd4c3
3d5f9d"
Content-type: text/html

<HTML>
    <HEAD>
        <TITLE>401 Unauthorized</TITLE>
    </HEAD>
    <BODY>
        <H1>401 Unauthorized</H1>
    </BODY>
</HTML>
```

Request: Digest challenge response

```
POST /tcs/SoapServer.php HTTP/1.1
User-Agent: Mozilla/4.0 (compatible; MSIE 6.0; MS Web Services Client
Protocol 2.0.50727.42)
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://www.tandberg.net/XML/Streaming/1.0/RequestConferenceID"
Authorization: Digest username="admin",realm="TANDBERG Content
Server",nonce="44d680e98f812",uri="/tcs/SoapServer.php",cnonce="3bb85fa0c1b
7972e419dd067af2fede7",nc=00000001,qop="auth",response="01732457e49c2bbcb52
6b1eabdb808b5",opaque="8f26ba16a05e575bf3abddd4c33d5f9d"
Host: 10.10.10.10
Content-Length: 452
Expect: 100-continue

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <RequestConferenceID xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <owner>Jess</owner>
      <password />
      <startDateTime />
      <duration>1800</duration>
      <title>New Conference from app 1</title>
    </RequestConferenceID>
  </soap:Body>
</soap:Envelope>
```

Final Response:

```
HTTP/1.1 200 OK
Server: Microsoft-IIS/5.1
Date: Sun, 06 Aug 2006 23:53:13 GMT
Connection: close
X-Powered-By: PHP/5.1.4
Set-Cookie: PHPSESSID=462frdmis60n00f2df5bg1cem0; path=/
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-
check=0
Pragma: no-cache
Content-Length: 389
Content-Type: text/xml; charset=utf-8

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:RequestConferenceIDResponse>
      <ns1:RequestConferenceIDResult>B84C9C90-21B1-4E8B-A73A-
8EF9B1DF3689</ns1:RequestConferenceIDResult>
    </ns1:RequestConferenceIDResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

3 BUILDING SOAP CALLS

3.1 Content Server WSDL file

The WSDL file for Content Server is called `Helium.wsdl` and is located at the root of the Content Server's virtual web server. This document provides a soap client with the location of the soap service, however the location described is the static value:

`http://localhost/WSDLGenerator/Helium.asmx`.

The WSDL document on the Content Server must not be changed. The location will need to be overridden in the SOAP client by setting the location value in your SOAP client's constructor or by overriding settings after the SOAP client has been constructed.

Example constructor in PHP:

```
$client = new SoapClient($wsdl, array(
     'location' => $url,
     'authentication' => SOAP_AUTHENTICATION_DIGEST,
     'login' => $user, 'password' => $password ));
```

Example constructor in C#:

```
public Form1()
  {
      // Required for Windows Form Designer support
      InitializeComponent();

      // Create a new instance of the web service
      m_Api = new TCSWebService();
      // Override the soap server address
      m_Api.Url = "http://10.64.2.23/tcs/SoapServer.php";
  }
```

3.2 Error conditions

When a call is successful it will return a SOAP structure as indicated with each call in the sections below. In the event that a call is unsuccessful (malformed, incorrect parameter data etc.) then a standard SOAP exception will be returned to the client. Also, if nothing is returned, you will need to check that you have correctly formed your call and that there is nothing that may be blocking your response.

3.3 Case sensitivity

Some SOAP clients are case sensitive. In the event that the SOAP client you are using is case sensitive it is important to note the case of parameters in each call in this API. In some cases (noted in the call documentation) the case of some parameters differs from call to call. This is to provide backwards compatibility for existing external interfaces.

4 CLUSTER API BEHAVIOUR

4.1 Overview

A Content Server cluster can be thought of as one large Content Server. Most API calls can be issued to any of the Content Server boxes in the cluster (nodes) and the behaviour will be as if it was acting on the cluster as a whole. If a function is not discussed in this section, it can be assumed that it will behave the same for a whole cluster as it does for a standalone Content Server. Some functions have been intentionally left returning information about the box on which they are called, namely the GetSystemHealth and GetSystemInformation commands. Call functionality has changed slightly to accommodate cluster dialing, this is discussed in the following sections.

4.2 Dialing

When dialing using the API, the ClusterDial command should be used instead of the Dial command. The ClusterDial command will make the call on the most suitable node to handle it in terms of call load at the time. The serial number of the node used to make the call is returned from the function, along with the log tag and call id so the call can be tracked. The Dial command remains specific to the node that it is called on so is not recommended for cluster use.

4.3 Disconnecting

DisconnectCall may be called on any node and will have the expected behaviour. The call does not have to be running on the node that handles the DisconnectCall command, it will figure out the node that is handling the call and disconnect it correctly.

4.4 Live Call Information

GetCallInfo may be called on any node and will return the current call information. The call does not have to be running on the node that handles the GetCallInfo command.

5 CALL MANAGEMENT API

5.1 PrepareConference

Supported in:

Version 3.x and higher

Description:

PrepareConference simultaneously reserves a conference ID and executes BindAliasConferenceID. If the content for the conference is acquired by an outgoing call then there is no need for the "bind" and "unbind" actions to take place, and as such RequestConferenceID can be used instead.

Notes:

Duration is ignored.

The GroupID field needs to be either unset, empty string, or a well formed GUID.

The Password field is limited to 20 characters.

Parameters:

- Alias   (The GUID, E.164, H.323 alias, or RecordingAliasId of the recording alias - string)

- BookingAddress (the alias that the incoming call will use - string)

- GroupID   (the GUID of the conference's group, if it is recurring - string)

- IsRecurring   (indicates whether the conference is recurring - bool)

- Title   (the title that will appear in the Content Library - string)

- Owner   (username of the owner - string)

- Password   (password for the conference - string)

- StartDateTime   (start date of the recording using GNU date formats - string)

- Duration   (duration of call in seconds - integer)

As of Content Server version 3 the following parameter is deprecated:

- Duration

Successful Call Returns:

Returns the Conference ID in the following structure:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <PrepareConferenceResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <PrepareConferenceResult>
        <ConferenceID>string</ConferenceID>
        <Error>string</Error>
        <ErrorCode>int</ErrorCode>
        <E164Alias>string</E164Alias>
        <H323Id>string</H323Id>
        <SIPURI>string</SIPURI>
      </PrepareConferenceResult>
    </PrepareConferenceResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <PrepareConference xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <Alias>string</Alias>
      <BookingAddress>string</BookingAddress>
      <GroupID>string</GroupID>
      <IsRecurring>boolean</IsRecurring>
      <Title>string</Title>
      <Owner>string</Owner>
      <Password>string</Password>
      <StartDateTime>string</StartDateTime>
      <Duration>int</Duration>
    </PrepareConference>
  </soap:Body>
</soap:Envelope>
```

5.2 RequestConferenceID

Supported in:

Versions 2.x and higher

Description:

This request reserves a conference ID for use in a later Dial command. It returns the conference ID required for making calls and populates the database with the information supplied. All parameters must be present.

Parameters:

- owner   (username of the owner - string)

- password   (password for the conference - string)

- startDateTime (start date of the recording using GNU date formats - string)

- duration   (duration of call in seconds - integer)

- title   (the title that will appear in the Content Library - string)

- groupId   (the GUID of the conference's group, if it is recurring - string)

- isRecurring   (indicates whether the conference is recurring - bool)

Notes:

Set password as an empty string for no conference password, this field is limited to 20 characters.

Setting a 0 duration will make the length of the call unlimited.

Setting the startDateTime to 0 means that the call will begin immediately.

The groupId field needs to be either unset, empty string, or a well formed GUID.

Date/time is expected to be in the **Coordinated Universal Time** (UTC) format as follows:

<YYYY>-<MM>-<DD>T<HH>:<MM>:<SS>Z

where:

<YYYY> is the four-digit year

<MM>   is the two-digit month, in the range 01 to 12.

Single-digit month numbers must be prefixed with a zero.

<DD>   is the two-digit day, starting from 01.

            Single-digit day numbers ...

T   is the character "T", or "t", or a space.

<HH>   is the two-digit hour, in the range 00 to 23.

<MM>   00-59

<SS>   00-60

Z   is the character "Z", "z", or can be omitted

In the event of a SOAP server exception an empty string will be returned as a result and a log file entry will be generated in the PHP Error log.

As of Content Server version 3 the following parameter is deprecated:

- Duration

Successful Call Returns:

Returns the Conference ID in the following structure:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RequestConferenceIDResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <RequestConferenceIDResult>string</RequestConferenceIDResult>
    </RequestConferenceIDResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://www.w3.org/2003/05/soap-envelope">
  <soap:Body>
    <RequestConferenceID xmlns="http://www.tandberg.net/XML/Streaming/1.0">
    <owner>string</owner>
    <password>string</password>
    <startDateTime>string</startDateTime>
    <duration>int</duration>
    <title>string</title>
    <groupId>string</groupId>
    <isRecurring>boolean</isRecurring>
    </RequestConferenceID>
  </soap:Body>
</soap:Envelope>
```

5.3 Dial

Supported in:

Versions 2.x and higher

Description:

Makes a call to Number, using the call settings indicated by Alias, Bitrate and ConferenceID. All parameters except PIN must be present.

Parameters:

- Number   (the number to dial - string)

- Bitrate   (the desired bandwidth - string)

- ConferenceID   (ConferenceID to be used for this call - string)

- Alias   (alias to use – specifies call settings - string)

- CallType   (protocol for the call – optional ("sip", "h323") – string)

- SetMetadata   (inherit conference metadata from the alias – boolean)

- PIN   (MCU conference PIN if required – string)

Note:

It is strongly recommended that the bit rate value is one of the 'standard' video conferencing bit rates such as: 64, 128, 192, 256, 384, 512, 768, 1024, 1280, 1536, 1920 and 2048 kbps (as well as 2560, 3072 and 4000 kbps for Content Servers equipped with the Premium Resolution option) . Other bit rates may cause unexpected results.

If CallType is equal to **sip** then the address to call will be prefixed with $sip:$, otherwise H.323 is assumed.

PIN should be included when dialing an MCU conference which is PIN-protected.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DialResponse xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <DialResult>
        <CallRef>int</CallRef>
        <LogTag>int</LogTag>
        <ConferenceID>string</ConferenceID>
        <Error>string</Error>
```

```
            <ErrorCode>int</ErrorCode>
        </DialResult>
    </DialResponse>
  </soap:Body>
</soap:Envelope>
```

Notes:

The returned LogTag is an incrementing integer beginning at zero on restart of the service. This can be used for tracking a call.

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <Dial xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <Number>string</Number>
      <Bitrate>string</Bitrate>
      <ConferenceID>string</ConferenceID>
      <Alias>string</Alias>
      <CallType>string</CallType>
      <SetMetadata>boolean</SetMetadata>
    </Dial>
  </soap:Body>
</soap:Envelope>
```

5.4 ClusterDial

Supported in:

Versions 3.3 and higher

Description:

Makes a load balanced call to Number, using the call settings indicated by Alias, Bitrate and ConferenceID. This will choose which node is most suitable to handle the call and use the Dial API command to make the call. All parameters except PIN must be present.

Parameters:

- Number   (the number to dial - string)

- Bitrate   (the desired bandwidth - string)

- ConferenceID   (ConferenceID to be used for this call - string)

- Alias   (alias to use – specifies call settings - string)

- CallType   (protocol for the call – optional ("sip", "h323") – string)

- SetMetadata   (inherit conference metadata from the alias – boolean)

- PIN   (MCU conference PIN if required – string)

Note:

It is strongly recommended that the bit rate value is one of the 'standard' video conferencing bit rates such as: 64, 128, 192, 256, 384, 512, 768, 1024, 1280, 1536, 1920 and 2048 kbps (as well as 2560, 3072 and 4000 kbps for Content Servers equipped with the Premium Resolution option). Other bit rates may cause unexpected results.

CallType may only be **h323**.

PIN should be included when dialing an MCU conference which is PIN-protected.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ClusterDialResponse xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ClusterDialResult>
       <Recorder>string</Recorder>
        <CallRef>int</CallRef>
        <LogTag>int</LogTag>
       <ConferenceID>string</ConferenceID>
```

```
        <Error>string</Error>
        <ErrorCode>int</ErrorCode>
      </ClusterDialResult>
    </ClusterDialResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ClusterDial xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <Number>string</Number>
      <Bitrate>string</Bitrate>
      <ConferenceID>string</ConferenceID>
      <Alias>string</Alias>
      <CallType>string</CallType>
      <SetMetadata>boolean</SetMetadata>
    </ClusterDial>
  </soap:Body>
</soap:Envelope>
```

5.5 DisconnectCall

Supported in:

Versions 2.x and higher

Description:

Immediately disconnects the call indicated by ConferenceId. All parameters must be present.

Parameters:

- ConferenceID   (ConferenceID for the call being disconnected - string)

- GroupID   (the conference's group – optional - string)

Notes:

If ConferenceID is not supplied or empty then GroupID will be used to find any call which matches that GroupID.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DisconnectCallResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <DisconnectCallResult>
        <Error>string</Error>
        <ErrorCode>int</ErrorCode>
      </DisconnectCallResult>
    </DisconnectCallResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DisconnectCall xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ConferenceID>string</ConferenceID>
      <GroupID>string</GroupID>
    </DisconnectCall>
  </soap:Body>
</soap:Envelope>
```

5.6 DisconnectAllCalls

Supported in:

Versions 3.2 and higher

Description:

Disconnect all calls on a single Content Server or across a Content Server cluster.

Parameters:

- SerialNumber   (A specific Content Server SerialNumber or empty string for all servers in a cluster - string)

Successful Call Returns:

Returns the following structure:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DisconnectAllCallsResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <DisconnectAllCallsResult>boolean</DisconnectAllCallsResult>
    </DisconnectAllCallsResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DisconnectAllCalls xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <SerialNumber>string</SerialNumber>
    </DisconnectAllCalls>
  </soap:Body>
</soap:Envelope>
```

5.7 GetCallInfo

Supported in:

Versions 2.x and higher

Description:

Get detailed information about a call in progress. All parameters must be present.

Parameters:

- ConferenceID   (the Conference ID for the call - string)

Notes:

If the CallState is not IN_CALL then all other parameters will be empty.

CallState will be equal to NOT_IN_CALL if ConferenceID does not exist on the Content Server.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetCallInfoResponse xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetCallInfoResult>
        <CallState>string</CallState>
        <RemoteEndpoint>string</RemoteEndpoint>
        <CallRate>int</CallRate>
        <RecordingAliasName>string</RecordingAliasName>
        <MediaState>string</MediaState>
        <WriterStatus>string</WriterStatus>
        <AudioCodec>string</AudioCodec>
        <VideoCodec>string</VideoCodec>
      </GetCallInfoResult>
    </GetCallInfoResponse>
  </soap:Body>
</soap:Envelope>
```

Result	Possible Values
CallState	NOT_IN_CALL IN_CALL INITIALISING_CALL ENDING_CALL
RemoteEndpoint	[Name, IP or E.164 alias of remote system]

CallRate	64, 128, 192, 256, 384, 512, 768, 1024, 1280, 1536, 1920, 2048, 2560, 3072 and 4000 kbps
RecordingAliasName	[Name of the recording alias used for call]
MediaState	RECORDING
WriterStatus	OK FAILED
AudioCodec	G711 uLaw G711 aLaw G722 G722.1 AAC-LD Unknown codec type
VideoCodec	H261 H263 H263+ H.264 Unknown codec type

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetCallInfo xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ConferenceID>string</ConferenceID>
    </GetCallInfo>
  </soap:Body>
</soap:Envelope>
```

6 EXTERNAL MANAGEMENT API

6.1 RegisterManagementSystem

Supported in:

Versions 2.x and higher

Description:

Register the Cisco TelePresence Management Suite (TMS) with the Content Server. All parameters must be present. Status.xml, discussed below in Section 10.3, indicates the current registered TMS system in `<ExternalManager>`.

Note that the URL can be the full URL, or just the path as shown below in the example.

Parameters:

- IPAddress   (the IP address of the TMS server - string)

- URL   (URL on the remote server for the TMS service - string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RegisterManagementSystemResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <RegisterManagementSystemResult>
        <Error>string</Error>
        <ErrorCode>int</ErrorCode>
      </RegisterManagementSystemResult>
    </RegisterManagementSystemResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RegisterManagementSystem
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <IPAddress>10.10.10.20</IPAddress>
```

```
        <URL>/tms/public/feedback/code.aspx</URL>
    </RegisterManagementSystem>
  </soap:Body>
</soap:Envelope>
```

6.2 AddManagementSystem

Supported in:

Version 4.0 and higher

Description:

This function is used to add an external management system or other system that needs to be notified about Content Server events to the Content Server. Management systems added using this function can be retrieved using the GetManagementSystems function.

A limit of three systems can be added in addition to the management system registered using the RegisterManagementSystem function. The URL must start with `http://`, the protocol is limited to HTTP and the string length must be between 8 and 2083 characters.

On failure, the value of ErrorCode will be non-zero and Error will be one of the following errors:

- "Too many management systems"
- "Protocol must be HTTP"
- "Input URL is too short"
- "Input URL is too long"

Parameters:

- URL   (The address to which events will be posted - string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddManagementSystemResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <AddManagementSystemResult>
        <Error>string</Error>
        <ErrorCode>int</ErrorCode>
      </AddManagementSystemResult>
    </AddManagementSystemResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddManagementSystem xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <URL>string</URL>
    </AddManagementSystem>
  </soap:Body>
</soap:Envelope>
```

6.3 GetManagementSystems

Supported in:

Version 4.0 and higher

Description:

Returns the current list of external management systems added using AddManagementSystem.

Parameters:

- none

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetManagementSystemsResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetManagementSystemsResult>
        <string>string</string>
        <string>string</string>
      </GetManagementSystemsResult>
    </GetManagementSystemsResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetManagementSystems xmlns="http://www.tandberg.net/XML/Streaming/1.0"
/>
  </soap:Body>
</soap:Envelope>
```

6.4 RemoveManagementSystem

Supported in:

Version 4.0 and higher

Description:

Remove a specific URL from the list of external management systems added using AddManagementSystem.

On failure the value of ErrorCode will be non-zero and Error will be one of the following errors:

- "Failed to find specified management system"
- "Input URL is too long"

Parameters:

- URL   (The address to remove - string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RemoveManagementSystemResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <RemoveManagementSystemResult>
        <Error>string</Error>
        <ErrorCode>int</ErrorCode>
      </RemoveManagementSystemResult>
    </RemoveManagementSystemResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RemoveManagementSystem
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <URL>string</URL>
    </RemoveManagementSystem>
  </soap:Body>
</soap:Envelope>
```

6.5 GetSystemHealth

Supported in:

Versions 2.x and higher

Description:

This function is used for checking the Content Server system status.

In version 2.x, this call was also used when adding a node to a Content Server cluster.

Parameters:

- none

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetSystemHealthResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetSystemHealthResult>
        <EngineOK>boolean</EngineOK>
        <LibraryOK>boolean</LibraryOK>
        <DatabaseOK>boolean</DatabaseOK>
      </GetSystemHealthResult>
    </GetSystemHealthResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetSystemHealth xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

6.6 GetCallCapacity

Supported in:

Versions 2.x and higher

Description:

This function provides information about the total number of calls supported and currently in progress, as well as the maximum number of live calls, and the number of live calls in progress.

In version 2.x, this function was designed for determining Content Server capacities in a cluster environment.

Parameters:

- SerialNumber   (Optional parameter for cluster use, if present the function will return capacity information for that cluster node, rather than the whole cluster)

Notes:

In version 3.x the following parameters are deprecated:

- TranscodingCalls

- MaxTranscodingCalls

- ArchivingCalls

- MaxArchivingCalls

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetCallCapacityResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetCallCapacityResult>
        <TranscodingCalls>int</TranscodingCalls>
        <MaxTranscodingCalls>int</MaxTranscodingCalls>
        <ArchivingCalls>int</ArchivingCalls>
        <MaxArchivingCalls>int</MaxArchivingCalls>
        <MaxCalls>int</MaxCalls>
        <CurrentCalls>int</CurrentCalls>
        <MaxLiveCalls>int</MaxLiveCalls>
        <CurrentLiveCalls>int</CurrentLiveCalls>
        <CurrentPlaybackCalls>int</CurrentPlaybackCalls>
      </GetCallCapacityResult>
```

```
          </GetCallCapacityResponse>
      </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetCallCapacity xmlns="http://www.tandberg.net/XML/Streaming/1.0">
        <SerialNumber>49A00000</SerialNumber>
    </GetCallCapacity>
  </soap:Body>
</soap:Envelope>
```

6.7 GetSystemInformation

Supported in:

Versions 2.x and higher

Description:

This call returns general system information about the Content Server being queried.

Parameters:

- none

Notes:

In version 3 the following parameters are deprecated:

- TranscodingOptions

- ArchivingOptions

Successful Call Returns:

Returns the following structure:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetSystemInformationResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetSystemInformationResult>
        <ProductID>string</ProductID>
        <VersionMajor>int</VersionMajor>
        <VersionMinor>int</VersionMinor>
        <ReleaseType>string</ReleaseType>
        <ReleaseNumber>int</ReleaseNumber>
        <BuildNumber>int</BuildNumber>
        <IPAddress>string</IPAddress>
        <SerialNumber>string</SerialNumber>
        <TranscodingOptions>int</TranscodingOptions>
        <ArchivingOptions>int</ArchivingOptions>
        <MaxCallOptions>int</MaxCallOptions>
        <MaxLiveCallOptions>int</MaxLiveCallOptions>
        <EngineOK>boolean</EngineOK>
        <LicenseValid>boolean</LicenseValid>
        <RevisionNumber>int</RevisionNumber>
      </GetSystemInformationResult>
    </GetSystemInformationResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetSystemInformation xmlns="http://www.tandberg.net/XML/Streaming/1.0"
/>
  </soap:Body>
</soap:Envelope>
```

6.8 BindAliasConferenceID

Supported in:

Versions 2.x and higher

Description:

This call is designed to allow TMS to bind an incoming call on a specific alias to a specified ConferenceID which has been pre-configured using the RequestConferenceID call. After this function call, all incoming calls received on the alias specified by AliasID will be recorded and streamed using the conference indicated by ConferenceID. All parameters must be present.

The alias specified by AliasID defines the capabilities and type of the call. The AliasID can be in the form of an E.164 alias, an H.323 alias or the alias GUID (found in configuration.xml as RecordingAliasId for system aliases). If E.164 or H.323 aliases are used they must not include the gateway prefix if any. This function returns an alias, when a call is received on this alias that call will use the settings defined in the writer template and call configuration files for that AliasID, and will be recorded under the indicated conference.

Parameters:

- AliasID   (The GUID, E.164 or H.323 alias of the recording alias - string)

- ConferenceID   (the ConferenceID to bind to)

- UniqueOnly   (Bind only a 10 digit E.164 alias (ignored) - boolean)

- BookingAddress   (the alias that the incoming call will use - string)

- GroupID   (the conference's group, if it is recurring - string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <BindAliasConferenceIDResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <BindAliasConferenceIDResult>string</BindAliasConferenceIDResult>
    </BindAliasConferenceIDResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <BindAliasConferenceID
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <AliasID>string</AliasID>
      <ConferenceID>string</ConferenceID>
      <UniqueOnly>boolean</UniqueOnly>
      <BookingAddress>string</BookingAddress>
      <GroupID>string</GroupID>
    </BindAliasConferenceID>
  </soap:Body>
</soap:Envelope>
```

6.9 UnBindAliasConferenceID

Supported in:

Versions 2.x and higher

Description:

This call is designed to allow TMS to un-bind a ConferenceID from an alias. All parameters must be present.

Parameters:

- ConferenceID (the Conference ID you wish to unbind – string)

- AliasID (The GUID, E.164 or H.323 alias of the recording alias – string)

- GroupID (the conference's group – optional - string)

Notes:

If ConferenceID is not supplied or empty then GroupID will be used to find any call which matches that GroupID.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <UnBindAliasConferenceIDResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <UnBindAliasConferenceIDResult>
        <Error>string</Error>
        <ErrorCode>int</ErrorCode>
      </UnBindAliasConferenceIDResult>
    </UnBindAliasConferenceIDResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <UnBindAliasConferenceID
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <AliasID>string</AliasID>
      <ConferenceID>string</ConferenceID>
```

```
      <GroupID>string</GroupID>
    </UnBindAliasConferenceID>
  </soap:Body>
</soap:Envelope>
```

6.10 GetRecordingAlias

Supported in:

Version 3.x and higher

Note: The number of data parameters contained in a RecordingAliasData structure has increased in version 5.2

Description:

Returns settings for a recording alias. This function is designed to generate input information for the functions ModifyRecordingAlias and AddRecordingAlias.

Parameters:

- Alias   (The GUID, E.164 or H.323 alias of the recording alias – string)

The RecordingAliasData structure:

```
class RecordingAliasData
{
    string AliasID;
    string Name;
    bool SystemAlias;
    string Owner;
    string E164Alias;
    string H323Alias;
    string SipURI;
    string SipDisplayName;
    bool ShowCountdown;
    bool SendEmail;
    string EmailAddress;
    string RecordingTitle;
    string RecordingDescription;
    string RecordingSpeaker;
    string RecordingKeywords;
    string RecordingCopyright;
    string RecordingLocation;
    string RecordingCategory;
    string RecordingOwner;
    bool AutomaticallPublishRecordings;
    bool EnableEndpointPlaybackForRecordings;
      RecordingAliasPermissions Permissions;
};
class RecordingAliasPermissions
{
    bool AllUsersAccess;
    string [] Users;
    string [] Editors;
    string Password;
    string RecordingPin;
};
```

Successful Call Returns:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetRecordingAliasResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetRecordingAliasResult>
        <AliasID>string</AliasID>
        <Name>string</Name>
        <SystemAlias>boolean</SystemAlias>
        <Owner>string</Owner>
        <E164Alias>string</E164Alias>
        <H323Alias>string</H323Alias>
        <SipURI>string</SipURI>
        <SipDisplayName>string</SipDisplayName>
        <ShowCountdown>boolean</ShowCountdown>
        <SendEmail>boolean</SendEmail>
        <EmailAddress>string</EmailAddress>
        <RecordingTitle>string</RecordingTitle>
        <RecordingDescription>string</RecordingDescription>
        <RecordingSpeaker>string</RecordingSpeaker>
        <RecordingKeywords>string</RecordingKeywords>
        <RecordingCopyright>string</RecordingCopyright>
        <RecordingLocation>string</RecordingLocation>
        <RecordingCategory>string</RecordingCategory>
        <RecordingOwner>string</RecordingOwner>

<AutomaticallyPublishRecordings>boolean</AutomaticallyPublishRecordings>

<EnableEndpointPlaybackForRecordings>boolean</EnableEndpointPlaybackForRecordings>
        <Permissions>
          <AllUsersAccess>boolean</AllUsersAccess>
          <Users>
            <string>string</string>
            <string>string</string>
          </Users>
          <Editors>
            <string>string</string>
            <string>string</string>
          </Editors>
          <Password>string</Password>
          <RecordingPin>string</RecordingPin>
        </Permissions>
      </GetRecordingAliasResult>
    </GetRecordingAliasResponse>
  </soap:Body>
</soap:Envelope>
```

HTTP Post Example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetRecordingAlias xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <Alias>string</Alias>
    </GetRecordingAlias>
  </soap:Body>
</soap:Envelope>
```

6.11 AddRecordingAlias

Supported in:

Version 5.2 and higher

Description:

Add a new recording alias based on an existing source alias. Some Data parameters must be supplied to make the new alias unique; all others can be optionally overridden, or will be copied from the source alias.

Parameters:

- SourceAlias   (The GUID, E.164 or H.323 alias of the recording alias – string)

- Data   (A RecordingAliasData structure)

Notes:

Caution must be used with this function as any changes to the Users or Editors fields can potentially lock Content Server users out of the recording alias.

It is recommended that any use of this function be used alongside the function GetRecordingAlias such that simple changes to specific parameters will not result in an unintended overwrite of other parameters. The SOAP server is configured to ignore unset parameters.

The Password field is limited to 20 characters.

A new unique name must be supplied. If supplied, the new H.323 alias, E.164 alias and SIP uri must be unique.

If registered to a gatekeeper in terminal mode, the maximum number of aliases that can be created is 25.

User name should be supplied for user fields such as Owner.

Recording Pin must be numeric and 4 digits in length.

Successful Call Returns:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddRecordingAliasResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <AddRecordingAliasResult>string</AddRecordingAliasResult>
    </AddRecordingAliasResponse>
  </soap:Body>
</soap:Envelope>
```

HTTP Post Example:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddRecordingAlias xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <SourceAlias>string</SourceAlias>
      <Data>
        <AliasID>string</AliasID>
        <Name>string</Name>
        <SystemAlias>boolean</SystemAlias>
        <Owner>string</Owner>
        <E164Alias>string</E164Alias>
        <H323Alias>string</H323Alias>
        <SipURI>string</SipURI>
        <SipDisplayName>string</SipDisplayName>
        <ShowCountdown>boolean</ShowCountdown>
        <SendEmail>boolean</SendEmail>
        <EmailAddress>string</EmailAddress>
        <RecordingTitle>string</RecordingTitle>
        <RecordingDescription>string</RecordingDescription>
        <RecordingSpeaker>string</RecordingSpeaker>
        <RecordingKeywords>string</RecordingKeywords>
        <RecordingCopyright>string</RecordingCopyright>
        <RecordingLocation>string</RecordingLocation>
        <RecordingCategory>string</RecordingCategory>
        <RecordingOwner>string</RecordingOwner>

<AutomaticallyPublishRecordings>boolean</AutomaticallyPublishRecordings>

<EnableEndpointPlaybackForRecordings>boolean</EnableEndpointPlaybackForRecordings>
        <Permissions>
          <AllUsersAccess>boolean</AllUsersAccess>
          <Users>
            <string>string</string>
            <string>string</string>
          </Users>
          <Editors>
            <string>string</string>
            <string>string</string>
          </Editors>
          <Password>string</Password>
          <RecordingPin>string</RecordingPin>
        </Permissions>
      </Data>
    </AddRecordingAlias>
  </soap:Body>
</soap:Envelope>
```

6.12 ModifyRecordingAlias

Supported in:

Version 3.x and higher

Note: The number of data parameters contained in a RecordingAliasData structure has increased in version 5.2

Description:

Modify settings for a recording alias.

Parameters:

- Alias   (The GUID, E.164 or H.323 alias of the recording alias – string)

- Data   (A RecordingAliasData structure)

Notes:

Caution must be used with this function as any changes to the Users or Editors fields can potentially lock Content Server users out of the recording alias.

It is recommended that any use of this function be used alongside the function GetRecordingAlias such that simple changes to specific parameters will not result in an unintended overwrite of other parameters. The SOAP server is configured to ignore unset parameters.

The Password field is limited to 20 characters.

If supplied, the new H.323 alias, E.164 alias and SIP uri must be unique.

User name should be supplied for user fields such as Owner.

Recording Pin must be numeric and 4 digits in length.

Successful Call Returns:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ModifyRecordingAliasResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

HTTP Post Example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ModifyRecordingAlias
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <Alias>string</Alias>
      <Data>
        <AliasID>string</AliasID>
        <Name>string</Name>
        <SystemAlias>boolean</SystemAlias>
        <Owner>string</Owner>
        <E164Alias>string</E164Alias>
        <H323Alias>string</H323Alias>
        <SipURI>string</SipURI>
        <SipDisplayName>string</SipDisplayName>
        <ShowCountdown>boolean</ShowCountdown>
        <SendEmail>boolean</SendEmail>
        <EmailAddress>string</EmailAddress>
        <RecordingTitle>string</RecordingTitle>
        <RecordingDescription>string</RecordingDescription>
        <RecordingSpeaker>string</RecordingSpeaker>
        <RecordingKeywords>string</RecordingKeywords>
        <RecordingCopyright>string</RecordingCopyright>
        <RecordingLocation>string</RecordingLocation>
        <RecordingCategory>string</RecordingCategory>
        <RecordingOwner>string</RecordingOwner>

<AutomaticallyPublishRecordings>boolean</AutomaticallyPublishRecordings>

<EnableEndpointPlaybackForRecordings>boolean</EnableEndpointPlaybackForRecordings>
        <Permissions>
          <AllUsersAccess>boolean</AllUsersAccess>
          <Users>
            <string>string</string>
            <string>string</string>
          </Users>
          <Editors>
            <string>string</string>
            <string>string</string>
          </Editors>
          <Password>string</Password>
          <RecordingPin>string</RecordingPin>
        </Permissions>
      </Data>
    </ModifyRecordingAlias>
  </soap:Body>
</soap:Envelope>
```

6.13 DeleteRecordingAlias

Supported in:

Version 5.2 and higher

Description:

Delete a recording alias.

Parameters:

- Alias   (The GUID, E.164 or H.323 alias of the recording alias – string)

Successful Call Returns:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteRecordingAliasResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

HTTP Post Example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteRecordingAlias
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <Alias>string</Alias>
    </DeleteRecordingAlias>
  </soap:Body>
</soap:Envelope>
```

6.14 GetConfiguration

Supported in:

Version 3.2 and higher

 Description:

Retrieve the configuration document and apply an XPath query.

Parameters:

- bCluster   (Query the cluster configuration document - bool)

- XPath   (The XPath query to apply - string)

Successful Call Returns:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetConfigurationResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetConfigurationResult>
        <string>string</string>
        <string>string</string>
      </GetConfigurationResult>
    </GetConfigurationResponse>
  </soap:Body>
</soap:Envelope>
```

HTTP Post Example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetConfiguration xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <bCluster>boolean</bCluster>
      <XPath>string</XPath>
    </GetConfiguration>
  </soap:Body>
</soap:Envelope>
```

6.15 GetStatus

Supported in:

Version 3.2 and higher

Description:

Retrieve the status document and apply an XPath query.

Parameters:

- bCluster   (Query the cluster status document - bool)

- XPath   (The XPath query to apply - string)

Successful Call Returns:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetStatusResponse xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetStatusResult>
        <string>string</string>
        <string>string</string>
      </GetStatusResult>
    </GetStatusResponse>
  </soap:Body>
</soap:Envelope>
```

HTTP Post Example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetStatus xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <bCluster>boolean</bCluster>
      <XPath>string</XPath>
    </GetStatus>
  </soap:Body>
</soap:Envelope>
```

6.16 RestartService

Supported in:

Version 5.0 and higher

Description:

Restarts the call control and live transcoding service.

Parameters:

- none

Successful Call Returns:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RestartServiceResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <RestartServiceResult>boolean</RestartServiceResult>
    </RestartServiceResponse>
  </soap:Body>
</soap:Envelope>
```

HTTP Post Example:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <RestartService xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

7 CONTENT LIBRARY API

7.1 ModifyConference

Supported in:

Version 2.x and higher

Description:

This call enables modification of existing Content Server conferences. All parameters must be present.

Parameters:

- owner   (the username of the conference owner – string)
- password   (the conference password – string)
- startDateTime   (start date of the recording using GNU date formats - string)
- duration   (duration of call in seconds – integer)
- title   (the title that will appear in the Content Library – string)
- conferenceId   (the conferenceId – string)

Notes:

IMPORTANT: Setting the owner value will add this user or group to the editors list and will replace ALL existing permissions for a conference, including removing all user permissions. Supplying an empty string for the owner parameter will leave the conference permissions untouched.

Set password as an empty string for no conference password, this field is limited to 20 characters.

The case of conferenceId differs from most other calls, this is for backwards compatibility with TMS and may be important for case sensitive SOAP clients.

In the event of a SOAP server exception a log file entry will be generated in the PHP Error log.

As of Content Server version 3 the following parameters are deprecated:

- startDateTime
- duration

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ModifyConferenceResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ModifyConference xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <owner>Peter</owner>
      <password></password>
      <startDateTime>17:30</startDateTime>
      <duration>1800</duration>
      <title>Presidential Address</title>
      <conferenceId>4BCC30C1-2B54-40A4-B320-6079083E97C7</conferenceId>
    </ModifyConference>
  </soap:Body>
</soap:Envelope>
```

7.2 GetConference

Supported in:

Version 3.x and higher

Description:

Return information for a specific conference.

Parameters:

- ConferenceID   (The conference GUID – string)

- UserName   (Username of user performing request)

The Conference structure:

```
class Conference
{
    string ConferenceID;
    string Title;
    string Description;
    string URL;
    string Speaker;
    string Keywords;
    string Copyright;
    string Location;
    Movies Movies;
    int DateTime;
    int UpdateTime;
    int Duration;
    string Owner;
    Owner OwnerDetails;
    bool Deleted;
    Label[] Labels;
    bool GuestAccess;
    bool HasWatchableMovie;
    WatchableMovie[][] WatchableMovies;
    bool HasDownloadableMovie;
    DownloadableMovie[] DownloadableMovies;
    bool HasPending;
    int PercentTranscoded;
};

class Movies { };

class Owner
{
    string UserName;
    string DisplayName;
};

class Label
{
    string Name;
    string Description;
};
```

```
class WatchableMovie
{
    int ClipStart;
    int ClipEnd;
    string Format;
    string Quality;
    bool OfflineTranscoded;
    int TotalBandwidth;
    string MainURL;
    int MainWidth;
    int MainHeight;
    string DualURL;
    int DualWidth;
    int DualHeight;
};

class DownloadableMovie
{
    string Display;
    string URL;
    int Width;
    int Height;
};
```

Notes:

The UserName parameter indicates the access level for the request. If the conference indicated by ConferenceID is not visible to this user then the conference will not be returned. If the conference has guest access enabled then it will always be returned.

The "Movies" field in the Conference structure returned by this function is deprecated.

The "WatchableMovies" array of arrays within the Conference structure describes the series of clips contained in a conference. This a two dimensional array where the first dimension iterates through the clips in a conference and the second dimension iterates through the alternate versions of the same clip.

"ClipStart" and "ClipEnd" within the WatchableMovie structure denote the clips in and out times, they are be measured in milliseconds from the start of the clip. A ClipEnd time of 0 indicates an undefined value and the whole clip should be played.

Successful Call Returns:

Returns the following structure:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetConferenceResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetConferenceResult>
        <ConferenceID>string</ConferenceID>
        <Title>string</Title>
        ...
```

```
            </GetConferenceResult>
        </GetConferenceResponse>
    </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
    <soap:Body>
        <GetConference xmlns="http://www.tandberg.net/XML/Streaming/1.0">
            <ConferenceID>string</ConferenceID>
            <UserName>string</UserName>
        </GetConference>
    </soap:Body>
</soap:Envelope>
```

7.3 GetConferences

Supported in:

Version 2.x and higher

Description:

This call returns an array of conferences with their related information based on the search parameters provided in the SOAP query. All parameters must be present, but they do not all need to contain values. All empty/null parameter values will return all recorded conferences, but Cisco recommends that you specify query parameters to get only the results you need.

Parameters:

- SearchExpression   (the full text search expression [see below] – string)

- ResultRange   (the result range [see notes] – integer)
  This parameter is supported in version 4.0 and higher.

- DateTime   (the date time range [see notes] – integer)

- UpdateTime   (the update time range [see notes] – integer)

- Owner   (the conference owner username – string)

- Category   (the Category assigned to the conference – string)

- Sort (the order in which you require the results to be sorted – string)

Notes:

The DateTime parameter is a pair of integers expressed in seconds since 1/1/1970. The UpdateTime parameter is a pair of integers expressed in seconds since 1/1/1970. Both DateTime and UpdateTime are expected in UTC.

The ResultRange parameter is a pair of integers. The first integer specifies a page number and the second integer specifies the number of items to return. Both integers are expected to be greater than 0.

The Sort string options are: (ConferenceName || OwnerName || DateTime || Duration || Cluster) where Cluster will return conferences sorted by serial number of the content server(s). All results will be returned in descending order.

In the event of a SOAP server exception a log file entry will be generated in the PHP Error log.

For a full description of the Conference structure see section GetConference.

The Owner parameter instructs the database search to be performed using the privileges entitled to that user, only conferences visible to Owner will be returned. This functionality is identical to the UserName parameter in the API function GetConference.

⚠️ CAUTION: Document size limitations within the SOAP client or server and HTTP response timeouts will cause this API function to fail. Use ResultRange or a small DateTime or UpdateTime range to restrict the amount of returned Conference structures. The response time for a query will be considerably larger for the first request.

Example Search Terms:

word -   matches "word" anywhere in the field, including "swordplay"

word* -   matches only words that begin with "word",using spaces and commas as word delimiters

*word -   matches only words that end with "word", as above

^word -   matches "word" only at the beginning of the field

word$ -   matches "word" only at the end of the field

Prevent the above by putting your word in quotes '"'.

"word1 word2" -   matches a phrase, preserves number of spaces and all special characters above

You may use % instead of * if you prefer.

-word -   hides conferences that contain "word"

NOT term -   negates the sense of the search for that term.

OR term -   terms are normally joined by an AND.

AND term -   just like "term"

NOT and OR must be uppercase (as must AND if used, although AND is the default term).

Searches work on description, name, presenter, copyright, keywords, but not location since location can't be set.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
```

```
   <soap:Body>
      <GetConferencesResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
         <GetConferencesResult>
            <Conference>
               <ConferenceID>string</ConferenceID>
               <Title>string</Title>
               ...
            </Conference>
         </GetConferencesResult>
      </GetConferencesResponse>
   </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
   <soap:Body>
      <GetConferences xmlns="http://www.tandberg.net/XML/Streaming/1.0">
         <SearchExpression>string</SearchExpression>
         <ResultRange>
            <int>int</int>
            <int>int</int>
         </ResultRange>
         <DateTime>
            <int>int</int>
            <int>int</int>
         </DateTime>
         <UpdateTime>
            <int>int</int>
            <int>int</int>
         </UpdateTime>
         <Owner>string</Owner>
         <Category>string</Category>
         <Sort>string</Sort>
      </GetConferences>
   </soap:Body>
</soap:Envelope>
```

7.4 GetConferenceCount

Supported in:

Version 2.x and higher

Description:

This call returns a count of the recorded conferences in the database as an integer.

Parameters:

- none

Note:

In the event of a SOAP server exception '0' will be returned as a result and a log file entry will be generated in the PHP Error log.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetConferenceCountResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetConferenceCountResult>int</GetConferenceCountResult>
    </GetConferenceCountResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetConferenceCount xmlns="http://www.tandberg.net/XML/Streaming/1.0"
/>
  </soap:Body>
</soap:Envelope>
```

7.5 DeleteRecording

Supported in:

Version 2.x and higher

Description:

The DeleteRecording call is used to delete a conference from the Content Library and remove media associated with that conference. Please note the case of the conferenceID parameter differs from other calls for backwards compatibility. All parameters must be present.

Parameters:

- conferenceID   (the conferenceID – string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteRecordingResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteRecording xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <conferenceID>string</conferenceID>
    </DeleteRecording>
  </soap:Body>
</soap:Envelope>
```

7.6 GetConferenceThumbnails

Supported in:

Version 3.x and higher

Description:

GetConferenceThumbnail returns a list of thumbnail URLs for a conference. The first element in this list is the default thumbnail for the conference. The first list element will be empty if a default has not been selected or if the default thumbnail has been deleted.

Parameters:

- ConferenceID (the conference GUID – string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetConferenceThumbnailsResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <GetConferenceThumbnailsResult>
        <string>string</string>
        <string>string</string>
      </GetConferenceThumbnailsResult>
    </GetConferenceThumbnailsResponse>
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetConferenceThumbnails
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ConferenceID>string</ConferenceID>
    </GetConferenceThumbnails>
  </soap:Body>
</soap:Envelope>
```

7.7 SetConferenceThumbnailDefault

Supported in:

Version 3.x and higher

Description:

This function sets the default thumbnail for a conference. This function does a match against Thumbnail and the thumbnail filenames on the Content Server, if a match is found then that thumbnail will be set to the default thumbnail.

Parameters:

- ConferenceID   (the conference GUID – string)

- Thumbnail   (the thumbnail – string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetConferenceThumbnailDefaultResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetConferenceThumbnailDefault
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ConferenceID>string</ConferenceID>
      <Thumbnail>string</Thumbnail>
    </SetConferenceThumbnailDefault>
  </soap:Body>
</soap:Envelope>
```

7.8 DeleteConferenceThumbnail

Supported in:

Version 3.x and higher

Description:

This function deletes a thumbnail held by a conference. This function does a match against Thumbnail and the thumbnail filenames on the Content Server, if a match is found then that thumbnail will be deleted.

Parameters:

- ConferenceID (the conference GUID – string)

- Thumbnail (the thumbnail – string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteConferenceThumbnailResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteConferenceThumbnail
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ConferenceID>string</ConferenceID>
      <Thumbnail>string</Thumbnail>
    </DeleteConferenceThumbnail>
  </soap:Body>
</soap:Envelope>
```

7.9 SetDownloadOutput

Supported in:

Version 6.1 and higher

Description:

Triggers downloadable output from the Content Server. All combinations of currently available downloadable output are supported. API parameters are case insensitive.

Parameters for recording without presentation stream:

- Conference ID of the recording
- TypeId(String): WMV, MP4_FLASH, MP4_QT
- OutputFormatId(String): VIDEO_ONLY
- QualityId(String): SMALL, MEDIUM, LARGE, AUDIO_ONLY

Parameters for recording with presentation stream:

- Conference ID of the recording
- TypeId(String): WMV, MP4_FLASH, MP4_QT
- OutputFormatId(String): VIDEO_ONLY, SWITCHING, STACKED, JOINED, JOINED16BY9, PIP
- QualityId(String): SMALL, MEDIUM, LARGE, AUDIO_ONLY
- RemoveCurrentOutputs(String): True or False, default value is false if not provided from API.

Successful API Response:

JobID

Example:

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:ns="http://www.tandberg.net/XML/Streaming/1.0">
   <soap:Header/>
   <soap:Body>
      <ns:SetDownloadOutput>
         <ns:ConferenceID>6C6BCF86-8301-4620-86FA-D51B27E7FFCB</ns:ConferenceID>
         <ns:TypeID>WMV</ns:TypeID>
         <ns:OutputFormatID>Video_Only</ns:OutputFormatID>
         <ns:QualityID>Large</ns:QualityID>
         <!--Optional:-->
         <ns:RemoveCurrentOutputs>False</ns:RemoveCurrentOutputs>
      </ns:SetDownloadOutput>
   </soap:Body>
</soap:Envelope>
```

Successful Call Returns:

Successful call returns JobID for the transcoding Job.

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
   <env:Body>
      <ns1:SetDownloadOutputResponse>
         <ns1:SetDownloadOutputResult>93429AE2-DA57-4414-894A-
64894A1E9D41</ns1:SetDownloadOutputResult>
      </ns1:SetDownloadOutputResponse>
   </env:Body>
</env:Envelope>
```

Error Scenarios:

In case of error, the API returns a SOAP fault with an error string (shown below) for an Invalid Conference ID case.

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
   <env:Body>
      <env:Fault>
         <env:Code>
            <env:Value>env:Receiver</env:Value>
         </env:Code>
         <env:Reason>
            <env:Text>Conference ID Does Not Exist</env:Text>
         </env:Reason>
      </env:Fault>
   </env:Body>
</env:Envelope>
```

SOAP Error Codes Returned by SetDownloadOutput API:

```
SDO_API_ERR_SERVER_NOT_UP: ContentEngine Server Error

SDO_API_ERR_INV_CONFID: Invalid Parameter ConferenceID

SDO_API_ERR_INV_CONFID: Conference ID Does Not Exist

SDO_API_ERR_INV_TYPEID: Invalid Parameter TypeID

SDO_API_ERR_INV_TYPEID: Invalid TypeId

SDO_API_ERR_INV_FMTID: Invalid Parameter OutputFormatID

SDO_API_ERR_INV_FMTID: Invalid OutputFormatId

SDO_API_ERR_INV_QTYID: Invalid Parameter QualityID

SDO_API_ERR_INV_QTYID: Invalid QualityId

SDO_API_ERR_FMTID_NOT_SUPPORTED: Only VIDEO_ONLY OutputFormatID Supported
For This Recording

SDO_API_ERR_OP_EXIST_FOR_OTHER_LAYOUT: Use RemoveCurrentOutputs API
Parameter to Delete Existing Downloadable Output

SDO_API_ERR_SERVER_ERROR: Internal Server Error

SDO_API_ERR_CONF_IN_PROGRESS: Conference In Progress, Please wait until it
terminate
```

7.10 GetDownloadJobStatus

Supported in:

Version 6.1 and higher

Description:

Gets the transcoding job status for a job triggered by the SetDownloadOutputResponse API. Returns current status of transcoding job or output URL and file location.

Parameters:

- Conference ID
- Job ID

Output:

If job is pending or being transcoded:

- Job Status string
- Progress percentage

If job is completed:

- Job Status string
- Progress percentage
- File URL
- File path

Possible Job Status:

```
TRANSCODE_ERROR, TRANSCODE_SCHEDULED, TRANSCODE_IN_PROGRESS,
TRANSCODE_COMPLETE, TRANSCODE_FAILED, TRANSCODE_ABORTED,
TRANSCODE_IN_TRANSIT, UNKNOWN STATE
```

Example:

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:ns="http://www.tandberg.net/XML/Streaming/1.0">

    <soap:Header/>

    <soap:Body>

        <ns:GetDownloadJobStatus>

            <ns:ConferenceID>6C6BCF86-8301-4620-86FA-
D51B27E7FFCB</ns:ConferenceID>

            <ns:JobID>93429AE2-DA57-4414-894A-64894A1E9D41</ns:JobID>

        </ns:GetDownloadJobStatus>
```

```
    </soap:Body>

</soap:Envelope>
```

Successful Call Returns:

Case 1: Transcoding in progress.

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">

    <env:Body>

        <ns1:GetDownloadJobStatusResponse>

<ns1:GetDownloadJobStatusResult>TRANSCODE_IN_PROGRESS</ns1:GetDownloadJobSt
atusResult>

<ns1:GetDownloadJobStatusPercentage>14</ns1:GetDownloadJobStatusPercentage>

        </ns1:GetDownloadJobStatusResponse>

    </env:Body>

</env:Envelope>
```

Case 2: Transcoding complete with file in transit.

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">

    <env:Body>

        <ns1:GetDownloadJobStatusResponse>

<ns1:GetDownloadJobStatusResult>TRANSCODE_IN_TRANSIT</ns1:GetDownloadJobSta
tusResult>

<ns1:GetDownloadJobStatusPercentage>100</ns1:GetDownloadJobStatusPercentage>

        </ns1:GetDownloadJobStatusResponse>

    </env:Body>

</env:Envelope>
```

Case 3: Transcoding done.

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">

    <env:Body>

        <ns1:GetDownloadJobStatusResponse>

<ns1:GetDownloadJobStatusResult>TRANSCODE_COMPLETE</ns1:GetDownloadJobStatu
sResult>
```

```
<ns1:GetDownloadJobStatusUrl>http://10.194.60.250/tcs/download/9694A7F5-
7F34-4069-98FD-2F5F32E86DB7.wmv</ns1:GetDownloadJobStatusUrl>

        <ns1:GetDownloadJobStatusFilename>\\WIN-2K8-SQL2k8\tcs-nas-
soapapi\data\download\O138755686200-
05634930.wmv</ns1:GetDownloadJobStatusFilename>

<ns1:GetDownloadJobStatusPercentage>100</ns1:GetDownloadJobStatusPercentage
>

        </ns1:GetDownloadJobStatusResponse>

    </env:Body>

</env:Envelope>
```

SOAP Error Codes Returned by GetDownloadJobStatus API:

GDS_API_ERR_SERVER_NOT_UP: ContentEngine Server Error

GDS_API_ERR_INV_CONFID: Invalid Parameter ConferenceID

GDS_API_ERR_INV_CONFID: Conference ID Does Not Exist

GDS_API_ERR_INV_JOBID: Invalid Parameter JobID

GDS_API_ERR_INV_JOBID: JobId does not exist

GDS_API_ERR_FAILED_TO_FIND_OP_INF: Failed To Find Output Filename

GDS_API_ERR_FAILED_TO_FIND_OP_INF: Failed To Get output File Information

8 RECORDING API – DEPRECATED IN VERSION 3.0.

The functions in this section have been deprecated in version 3.0.

8.1 GetEngineConfiguration

Supported in:

Version 2.x

Description:

This call returns an XML string containing the content engine configuration file (E:\configs\ ContentEngine.xml).

Parameters:

- none

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:GetEngineConfigurationResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">

<ns1:GetEngineConfigurationResult>string</ns1:GetEngineConfigurationResult>
    </ns1:GetEngineConfigurationResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Note: The string that is returned is an XML string containing the content engine configuration file.

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetEngineConfiguration
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

8.2 SetEngineConfiguration

Supported in:

Version 2.x

Description:

This call allows you to set a new content engine configuration file. All parameters must be present. NOTE: Upon calling this function the Content Server service will be restarted and it is advised that programmers check for current calls with the GetCallCapacity call, or by checking the URL http://<site address>/tcs/status.xml and checking for a CallState of IN_CALL.

Parameters:

- XML   (the correctly formatted XML content engine configuration file - string)

Note:

In the event of a SOAP server exception Boolean false will be returned as a result and a log file entry will be generated in the PHP Error log.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:SetEngineConfigurationResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">

<ns1:SetEngineConfigurationResult>boolean</ns1:SetEngineConfigurationResult
>
    </ns1:SetEngineConfigurationResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetEngineConfiguration
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <XML>string</XML>
    </SetEngineConfiguration>
  </soap:Body>
</soap:Envelope>
```

8.3 GetLibraryConfiguration

Supported in:

Version 2.x

Description:

This call returns an XML string containing the content library configuration file (E:\configs\ ContentLibrary.xml).

Parameters:

- none

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:GetLibraryConfigurationResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">

<ns1:GetLibraryConfigurationResult>string</ns1:GetLibraryConfigurationResul
t>
    </ns1:GetLibraryConfigurationResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetLibraryConfiguration
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

8.4 SetLibraryConfiguration

Supported in:

Version 2.x

Description:

This call allows you to set a new content library configuration file. All parameters must be present. The XML string must comply with the format as used in the default content library configuration file (E:\configs\ContentLibrary.xml).

IMPORTANT: The API does not perform any checking of the validity of the XML configuration file.

Parameters:

- XML(the new XML configuration file – string)

Note:

In the event of a SOAP server exception Boolean false will be returned as a result and a log file entry will be generated in the PHP Error log.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:SetLibraryConfigurationResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:SetLibraryConfigurationResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">

<ns1:SetLibraryConfigurationResult>boolean<ns1:/SetLibraryConfigurationResu
lt>
    <ns1:/SetLibraryConfigurationResponse>
  </soap:Body>
</soap:Envelope>
```

8.5 GetWriterTemplateList

Supported in:

Version 2.x

Description:

This call returns an array of the filenames of the currently available system templates from the directory E:\configs\templates.

Parameters:

- none

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:GetWriterTemplateListResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ns1:GetWriterTemplateListResult>
        <ns1:string>string</ns1:string>
         ...
        <ns1:string>string</ns1:string>
      </ns1:GetWriterTemplateListResult>
    </GetWriterTemplateListResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:GetWriterTemplateList
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

8.6 GetWriterTemplate

Supported in:

Version 2.x

Description:

This call returns the XML content of the requested template file as a string. All parameters must be present.

Parameters:

- FileName   (the name of the requested template file – string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:GetWriterTemplateResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ns1:GetWriterTemplateResult>string</ns1:GetWriterTemplateResult>
    </ns1:GetWriterTemplateResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetWriterTemplate xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <FileName>WM-DblMidDual.xml</FileName>
    </GetWriterTemplate>
  </soap:Body>
</soap:Envelope>
```

8.7 SetWriterTemplate

Supported in:

Version 2.x

Description:

This call allows you to write to a specific template (replacing the existing contents if any). All parameters must be present.

IMPORTANT: The API does not perform any checking of the validity of the XML configuration file.

Parameters:

- FileName   (the template to edit/write *.xml format – string)

- XML(the full XML content of the template file – string)

Note:

In the event of a SOAP server exception Boolean false will be returned as a result and a log file entry will be generated in the PHP Error log.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:SetWriterTemplateResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ns1:SetWriterTemplateResult>boolean<ns1:/SetWriterTemplateResult>
    <ns1:/SetWriterTemplateResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetWriterTemplate xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <FileName>newTemplate.xml</FileName>
      <XML>string</XML>
    </SetWriterTemplate>
  </soap:Body>
</soap:Envelope>
```

8.8 GetCallConfigurationList

Supported in:

Version 2.x

Description:

This call will return a list of the currently available call configurations for the content server as an array of file names.

Parameters:

- none

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:GetCallConfigurationListResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <ns1:GetCallConfigurationListResult>
        <ns1:string>string</ns1:string>
         ...
        <ns1:string>string</ns1:string>
      </ns1:GetCallConfigurationListResult>
    </ns1:GetCallConfigurationListResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetCallConfigurationList
xmlns="http://www.tandberg.net/XML/Streaming/1.0" />
  </soap:Body>
</soap:Envelope>
```

8.9 GetCallConfiguration

Supported in:

Version 2.x

Description:

This call returns an XML string containing the contents of the requested call configuration file. All parameters must be present.

Parameters:

- FileName   (the requested call configuration file name – string)

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:GetCallConfigurationResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">

<ns1:GetCallConfigurationResult>string</ns1:GetCallConfigurationResult>
    </ns1:GetCallConfigurationResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetCallConfiguration
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <FileName>FullCallConfig.xml</FileName>
    </GetRecordingTemplate>
  </soap:Body>
</soap:Envelope>
```

8.10 SetCallConfiguration

Supported in:

Version 2.x

Description:

This call allows you to create a new, or overwrite and existing call configuration file. The format of the XML string should be consistent with the format of default call configuration files. All parameters must be present.

IMPORTANT: The API does not perform any checking of the validity of the XML configuration file.

Parameters:

- FileName   (the filename of the existing or new call configuration file – string)

- XML(the XML string of the file contents – string)

Note:

In the event of a SOAP server exception Boolean false will be returned as a result and a log file entry will be generated in the PHP Error log.

Successful Call Returns:

Returns the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://www.tandberg.net/XML/Streaming/1.0">
  <SOAP-ENV:Body>
    <ns1:SetCallConfigurationResponse
xmlns="http://www.tandberg.net/XML/Streaming/1.0">

<ns1:SetCallConfigurationResult>boolean<ns1:/SetCallConfigurationResult>
    <ns1:/SetCallConfigurationResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example:

HTTP Post example:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetCallConfiguration
xmlns="http://www.tandberg.net/XML/Streaming/1.0">
      <FileName>CustomCallConfig.xml</FileName>
      <XML>string</XML>
    </SetCallConfiguration>
  </soap:Body>
</soap:Envelope>
```

9 EXAMPLE CODE SNIPPETS

9.1 Examples of using the Dial call

PHP 5.05 example:

```php
function dialOut()
{
    $parameters = array(
        'Number' => "90999",
        'Bitrate' => "768",
        'ConferenceID' => "4BCC30C1-2B54-40A4-B320-6079083E97C7",
        'Alias' => "99",
        'SetMetadata' => false);
    $soapOptionsArray = array(
        'location' => ("http://10.10.10.10/tcs/SoapServer.php"),
        'connection_timeout'=>10 );
    $client = new SoapClient('Helium.wsdl', $soapOptionsArray);
    $dialResult = $client->Dial($parameters);
}
```

C# example:

```csharp
private void btnDial_Click(object sender, System.EventArgs e)
{
    try
    {
        CallResponse response = m_Api.Dial(szNumber2.Text, szBitrate2.Text,
szConfID2.Text, szAlias2.Text, false);
        szLogTag2.Text = response.LogTag.ToString();
    }
    catch( Exception ex )
    {
        MessageBox.Show("Dial exception: " + ex.Message);
    }
 }
```

9.2 Examples of using the DisconnectCall call

PHP 5.05 example:

```php
function endCall()
{
    $parameters = array('ConferenceId' => "4BCC30C1-2B54-40A4-B320-
6079083E97C7");
    $soapOptionsArray = array(
        'location' => ("http://10.10.10.10/tcs/SoapServer.php"),
        'connection_timeout'=>10 );
    $client = new SoapClient('Helium.wsdl', $soapOptionsArray);
    $dialResult = $client->DisconnectCall($parameters);
}
```

10 ADDITIONAL XML RESPONSES

A set of dynamically generated XML documents are available on the Content Server. This section describes systemunit.xml, configuration.xml, status.xml, personalalias.xml, clusterconfiguration.xml and clusterstatus.xml.

The HTTP response code should be checked to verify that the XML document has been successfully received. In the case of an authentication challenge this code will be "401 Unauthorized". Similarly, in the case of success the response code will be "200 OK".

As these documents are generated dynamically, there is the potential for failure dependant on incorrect configuration or unexpected events. In the event where the Content Server fails to generate these documents, the resulting document will contain the requested document's root node and a "Warning" node indicating that a problem has occurred and the xml document is currently not available. An example of this document follows:

```
<?xml version="1.0"?>
<SystemUnit>
      <Warning>An unknown error has occurred</Warning>
</SystemUnit>
```

10.1 SystemUnit.xml

The Content Server version information can be quickly determined by requesting the xml document at http://<server name>/tcs/systemunit.xml.

```
<?xml version="1.0"?>
<SystemUnit>
      <Software>
            <Name>TANDBERG Content Server</Name>
            <Version deprecated="deprecated">S3.0</Version>
            <VersionInfo>
                  <Name>TANDBERG Content Server</Name>
                  <Type>S</Type>
                  <MajorVersion>3</MajorVersion>
                  <MinorVersion>0</MinorVersion>
                  <RevisionVersion>5601</RevisionVersion>
                  <BuildVersion>4683</BuildVersion>
                  <ReleaseType>Beta</ReleaseType>
                  <ReleaseTypeVersion>4</ReleaseTypeVersion>
            </VersionInfo>
      </Software>
</SystemUnit>
```

10.2 Configuration.xml

The Content Server will return some useful information via HTTP when requesting http://<server name>/tcs/configuration.xml. The API authentication username and password is required. This file will display information about system recording aliases only.

```
<?xml version="1.0"?>
<Configuration xmlns="http://www.tandberg.no/XML/CUIL/1.0">
      <SystemUnit>
            <Name>Demo Content Server</Name>
      </SystemUnit>
      <Network>
            <Address>10.10.10.10</Address>
            <Q931Port>1720</Q931Port>
            <FixedPorts>
                  <Enabled>false</Enabled>
                  <StartPort>3230</StartPort>
                  <EndPort>3270</EndPort>
            </FixedPorts>
<MediaAddress deprecated="deprecated">10.10.10.10</MediaAddress>
            <NAT>
                  <Enabled>false</Enabled>
                  <Address></Address>
            </NAT>
      </Network>
      <H323Gatekeeper>
            <Enabled>true</Enabled>
            <Discovery>Manual</Discovery>
            <Address>10.10.10.20</Address>
            <Port>1719</Port>
            <Registration>Gateway</Registration>
<GatewayH323Prefix>RecordMe</GatewayH323Prefix>
 <GatewayE164Prefix>3830</GatewayE164Prefix>
 <PlaybackH323Prefix>PlayMe</PlaybackH323Prefix>
<PlaybackE164Prefix>0383</GatewayE164Prefix>
</H323Gatekeeper>
      <SIP>
            <Enabled>false</Enabled>
            <Discovery>Manual</Discovery>
            <Address></Address>
            <Type>auto</Type>
      </SIP>
      <WriterCodecSupport>
            <WindowsMedia deprecated />
            <RealMedia deprecated />
            <Quicktime deprecated />
      </WriterCodecSupport>
      <License>
<MaxTranscodingCalls deprecated="deprecated">2</MaxTranscodingCalls>
<MaxArchivingCalls deprecated="deprecated">0</MaxArchivingCalls>
            <MaxLiveCalls>2</MaxLiveCalls>
            <MaxCalls>5</MaxCalls>
      </License>
      <Cluster>
            <Mode>standalone</Mode>
      </Cluster>
      <User>
            <Name>api-admin</Name>
            <UserId></UserId>
```

```xml
        </User>
        <Alias item="1">
                <AliasType>system</AliasType>
<RecordingAlias>Default Live and OnDemand</RecordingAlias>
<RecordingAliasId>6C573098-2E9C-44C2-AA33-A972AEAA0876</RecordingAliasId>
                <Owner>Administrator</Owner>
                <OwnerId>78AB2DD5-CD38-44A1-B5C0-D9CB0C5DB38A</OwnerId>
                <TranscodingModel>live</TranscodingModel>
<RecordingType deprecated="deprecated">transcoding</RecordingType>
                <H323Alias>defaultlive</H323Alias>
                <E164Alias>01010101</E164Alias>
                <SIPURI />
 <CallConfiguration>System Call Configuration</CallConfiguration>
<CallConfigurationId>B8E009C2-54E1-42BE-8635-
46DE40649D0E</CallConfigurationId>
<Template>Windows Media Single Live and On Demand</Template>
<TemplateId>837E2ACE-E03B-430B-9ABB-39C7FE09BCCA</TemplateId>
<TemplateDescription>Live stream: Switching Windows Media Medium - On
demand: Switching Windows Media Medium (Live transcoded), Switching Windows
Media Medium (Offline transcoded)</TemplateDescription>
<VideoPortalEnabled deprecated="deprecated">false</VideoPortalEnabled>
<ConferenceMetadata>
                        <Name />
                        <Description>Default live system alias</Description>
                        <Speaker>Default speaker</Speaker>
                        <Location> Default location</Location>
                        <Copyright />
                        <Keywords />
                        <Category>General</Category>
<CategoryId>4A25DB1E-B7B6-4572-A86A-3A150F3A7C97</CategoryId>
                </ConferenceMetadata>
        </Alias>
        <Alias item="2">
                <AliasType>system</AliasType>
                <RecordingAlias>Default OnDemand only</RecordingAlias>
<RecordingAliasId>734EF798-1532-4231-BBA3-68CD69298240</RecordingAliasId>
                <Owner>Administrator</Owner>
                <OwnerId>78AB2DD5-CD38-44A1-B5C0-D9CB0C5DB38A</OwnerId>
                <TranscodingModel>normal</TranscodingModel>
<RecordingType deprecated="deprecated">transcoding</RecordingType>
                <H323Alias>defaultondemand</H323Alias>
                <E164Alias>02020202</E164Alias>
                <SIPURI />
<CallConfiguration>System Call Configuration</CallConfiguration>
<CallConfigurationId>B8E009C2-54E1-42BE-8635-
46DE40649D0E</CallConfigurationId>
                <Template>Windows Media Single On Demand Only</Template>
<TemplateId>9DE58559-E3F6-4AAB-8875-E8CD27A30634</TemplateId>
<TemplateDescription>On demand: Joined Windows Media Medium (Offline
transcoded), Joined Windows Media Large (Offline
transcoded)</TemplateDescription>
<VideoPortalEnabled deprecated="deprecated">false</VideoPortalEnabled>
                <ConferenceMetadata>
                        <Name />
                        <Description>Default live system alias</Description>
                        <Speaker>Default speaker</Speaker>
                        <Location> Default location</Location>
                        <Copyright />
                        <Keywords />
                        <Category>General</Category>
<CategoryId>4A25DB1E-B7B6-4572-A86A-3A150F3A7C97</CategoryId>
```

```
</ConferenceMetadata>
      </Alias>
<DefaultRecordingAliasID>734EF798-1532-4231-BBA3-
68CD69298240</DefaultRecordingAliasID>
      <ExternalManager>
            <Enabled>true</Enabled>
            <Address>10.10.10.100</Address>
            <Protocol>http</Protocol>
            <URL>/tms/public/feedback/code.aspx</URL>
      </ExternalManager>
</Configuration>
```

10.3 Status.xml

The Content Server will return some useful information via HTTP when calling the URL http://<server name>/tcs/status.xml. The API authentication username and password are required. An example is provided below:

```
<?xml version="1.0"?>
<Status>
      <SystemUnit>
      <Software>
      <Name>Demo Content Server</Name>
      <Version deprecated="deprecated">S3.3</Version>
      <VersionInfo>
            <Name>TANDBERG Content Server</Name>
            <Type>S</Type>
            <MajorVersion>5</MajorVersion>
            <MinorVersion>0</MinorVersion>
            <RevisionVersion>12220</RevisionVersion>
            <BuildVersion>2080</BuildVersion>
            <ReleaseType> </ReleaseType>
            <ReleaseTypeVersion>0</ReleaseTypeVersion>
      </VersionInfo>
      </Software>
      <Hardware>
            <SerialNumber></SerialNumber>
      </Hardware>
      <OfflineTranscodingState>Idle</OfflineTranscodingState>
      </SystemUnit>
      <H323Gatekeeper>
            <Status>Active</Status>
            <RequestedIP>10.10.10.20</RequestedIP>
            <ActiveIP>10.10.10.20</ActiveIP>
      </H323Gatekeeper>
      <SIP>
            <Status>Inactive</Status>
            <RequestedIP>0.0.0.0</RequestedIP>
            <ActiveIP>0.0.0.0</ActiveIP>
      </SIP>
<Call item="1" type="Vtlph" protocol="H323" direction="Outgoing">
            <CallState>IN_CALL</CallState>
<PlaybackCall>false</PlaybackCall>
            <PlayingConferenceId />
            <Duration>31240</Duration>
            <RemoteNumber>5506560</RemoteNumber>
            <Bandwidth>512</Bandwidth>
            <IncomingAudio>
```

```
            <Protocol>G.722</Protocol>
            <Bitrate>64</Bitrate>
        </IncomingAudio>
        <IncomingVideo>
            <Protocol>H.261</Protocol>
            <Bitrate>448</Bitrate>
            <Resolution>CIF</Resolution>
            <VideoWidth>352</VideoWidth>
            <VideoHeight>288</VideoHeight>
        </IncomingVideo>
        <IncomingDualVideo>
            <Resolution>None</Resolution>
            <VideoWidth>0</VideoWidth>
            <VideoHeight>0</VideoHeight>
        </IncomingDualVideo>
<AudioProtocol deprecated= "deprecated">G.722</AudioProtocol>
<VideoProtocol deprecated= "deprecated">H.261</VideoProtocol>
<IncomingVideoResolution deprecated=
"deprecated">CIF</IncomingVideoResolution>
<IncomingDualVideoResolution deprecated=
"deprecated">None</IncomingDualVideoResolution>
        <OutgoingAudio>
            <Protocol>G.722</Protocol>
            <Bitrate>64</Bitrate>
        </OutgoingAudio>
        <OutgoingVideo>
            <Protocol>H.261</Protocol>
            <Bitrate>448</Bitrate>
            <Resolution>CIF</Resolution>
            <VideoWidth>352</VideoWidth>
            <VideoHeight>288</VideoHeight>
        </OutgoingVideo>
<OutgoingVideoResolution deprecated
="deprecated">CIF</OutgoingVideoResolution>
        <EncryptedCall>true</EncryptedCall>
        <EncryptionModel>AES</EncryptionModel>
        <LogTag>8</LogTag>
        <CallId>1</CallId>
<ConferenceId>83314529-E3BB-4070-A6CA-408B396D71EE</ConferenceId>
        <RecordingAlias>Default OnDemand only</RecordingAlias>
<RecordingAliasId>734EF798-1532-4231-BBA3-68CD69298240</RecordingAliasId>
        <E164Alias></E164Alias>
        <H323Alias>OnDemand483</H323Alias>
        <SIPURI></SIPURI>
    </Call>
    <DriveInfo>
        <Drive item="1">
            <DriveLetter>C</DriveLetter>
            <Capacity>75108</Capacity>
            <Used>45239</Used>
            <Free>29868</Free>
        </Drive>
        <Drive item="2">
            <DriveLetter>E</DriveLetter>
            <Capacity>152624</Capacity>
            <Used>46384</Used>
            <Free>106240</Free>
        </Drive>
    </DriveInfo>
    <CpuLoad>17</CpuLoad>
    <DropRate>0.0</DropRate>
```

```
        <WriteRate>25.0</WriteRate>
        <DualDropRate>0.0</DualDropRate>
        <DualWriteRate>1.9</DualWriteRate>
        <Memory>
                <TotalPhysical>2096028</TotalPhysical>
                <FreePhysical>240384</FreePhysical>
                <TotalVirtual>2097024</TotalVirtual>
                <FreeVirtual>1824492</FreeVirtual>
                <Physical>24712</Physical>
                <Virtual>85540</Virtual>
        </Memory>
        <MacAddress>00:00:00:00:00:00</MacAddress>
        <Uptime>159042</Uptime>
        <ExternalManager>
                <Enabled>true</Enabled>
                <Address>10.X.X.X</Address>
                <Protocol>http</Protocol>
                <URL>/tms/public/feedback/code.aspx</URL>
        </ExternalManager>
<Capacity>
  <CurrentCalls>1</CurrentCalls>
  <MaxCalls>5</MaxCalls>
  <FreeCalls>4</FreeCalls>
  <CurrentLiveCalls>1</CurrentLiveCalls>
  <CurrentPlaybackCalls>0</CurrentPlaybackCalls>
  <MaxLiveCalls>2</MaxLiveCalls>
  <FreeLiveCalls>1</FreeLiveCalls>
  </Capacity>
</Status>
```

10.4 Personalalias.xml

The Content Server will return some useful information via HTTP when calling the URL http://<server name>/tcs/personalalias.xml. The API authentication username and password are required. This file will display information about personal recording aliases only. An example is provided below:

```
<PersonalAlias xmlns="http://www.tandberg.no/XML/CUIL/1.0">
<Alias item="1">
        <AliasType>personal</AliasType>
        <RecordingAlias>My recording alias</RecordingAlias>
<RecordingAliasId>510091D2-F283-4A2C-A36F-8F6BAE585B7C</RecordingAliasId>
        <Owner>owner1</Owner>
        <OwnerId>6E670E0E-C035-4190-91D0-47600B63BB64</OwnerId>
        <TranscodingModel>normal</TranscodingModel>
        <H323Alias>mypersonal</H323Alias>
        <E164Alias>10643236006</E164Alias>
        <SIPURI />
<CallConfiguration>System Call Configuration</CallConfiguration>
<CallConfigurationId>B8E009C2-54E1-42BE-8635-
46DE40649D0E</CallConfigurationId>
        <Template>Windows Media Single On Demand Only</Template>
<TemplateId>42981914-FDA2-4907-9922-A48A20250829</TemplateId>
<TemplateDescription>On demand: Joined Windows Media Medium (Offline
transcoded), Joined Windows Media Large (Offline
transcoded)</TemplateDescription>
        <VideoPortalEnabled deprecated>false</VideoPortalEnabled>
<ConferenceMetadata>
        <Name>My personal recording</Name>
  <Description>Introduction to Agile</Description>
```

```
    <Speaker>Owner 1</Speaker>
    <Location />
    <Copyright>2010</Copyright>
    <Keywords>personal</Keywords>
    <Category>Personal</Category>
<CategoryId>6968B0BC-3C63-4141-B8ED-9057AA5A2FB7</CategoryId>
            </ConferenceMetadata>
        </Alias>
</PersonalAlias>
```

10.5 Clusterconfiguration.xml

The Content Server will return some useful information about cluster configuration via HTTP when requesting http://<server name>/tcs/clusterconfiguration.xml. The configuration elements displayed are used across all nodes. The API authentication username and password is required. This file will display information about system recording aliases only.

```
<ClusterConfiguration>
<Name>Demo Cluster</Name>
<Address>10.10.10.67</Address>
<License>
<MaxTranscodingCalls deprecated="deprecated">2</MaxTranscodingCalls>
<MaxArchivingCalls deprecated="deprecated">0</MaxArchivingCalls>
<MaxLiveCalls>4</MaxLiveCalls>
<MaxCalls>10</MaxCalls>
</License>
<Alias item="1">
<AliasType>system</AliasType>
<RecordingAlias>Default OnDemand only</RecordingAlias>
<RecordingAliasId>734EF798-1532-4231-BBA3-68CD69298240</RecordingAliasId>
<Owner>Administrator</Owner>
<OwnerId>78AB2DD5-CD38-44A1-B5C0-D9CB0C5DB38A</OwnerId>
<TranscodingModel>normal</TranscodingModel>
<RecordingType deprecated="deprecated">transcoding</RecordingType>
<H323Alias>OnDemandXXXXXXX6</H323Alias>
<E164Alias/>
<SIPURI/>
<CallConfiguration>System Call Configuration</CallConfiguration>
<CallConfigurationId>B8E009C2-54E1-42BE-8635-
46DE40649D0E</CallConfigurationId>
<Template>Windows Media Single On Demand Only</Template>
<TemplateId>9DE58559-E3F6-4AAB-8875-E8CD27A30634</TemplateId>
<TemplateDescription>On Demand: Switching Windows Media Medium (Offline
transcoded)</TemplateDescription>
<VideoPortalEnabled>false</VideoPortalEnabled>
<ConferenceMetadata>
<Name/>
<Description/>
<Speaker/>
<Location/>
<Copyright/>
<Keywords/>
<Category/>
<CategoryId/>
</ConferenceMetadata>
</Alias>
<Alias item="2">
<AliasType>system</AliasType>
<RecordingAlias>Default Live and OnDemand</RecordingAlias>
```

```
<RecordingAliasId>6C573098-2E9C-44C2-AA33-A972AEAA0876</RecordingAliasId>
<Owner>Administrator</Owner>
<OwnerId>78AB2DD5-CD38-44A1-B5C0-D9CB0C5DB38A</OwnerId>
<TranscodingModel>live</TranscodingModel>
<RecordingType deprecated="deprecated">transcoding</RecordingType>
<H323Alias>LiveXXXXXXX6</H323Alias>
<E164Alias/>
<SIPURI/>
<CallConfiguration>System Call Configuration</CallConfiguration>
<CallConfigurationId>B8E009C2-54E1-42BE-8635-
46DE40649D0E</CallConfigurationId>
<Template>Windows Media Single Live and On Demand</Template>
<TemplateId>837E2ACE-E03B-430B-9ABB-39C7FE09BCCA</TemplateId>
<TemplateDescription>Live: Switching Windows Media Medium - On Demand:
Switching Windows Media Medium (Live transcoded), Switching Windows Media
Medium (Offline transcoded)</TemplateDescription>
<VideoPortalEnabled>false</VideoPortalEnabled>
<ConferenceMetadata>
<Name/>
<Description/>
<Speaker/>
<Location/>
<Copyright/>
<Keywords/>
<Category/>
<CategoryId/>
</ConferenceMetadata>
</Alias>
<Cluster>
<Node item="1">
<SerialNumber>XXXXXXX6</SerialNumber>
<IP>10.10.10.10</IP>
<License>
<MaxCalls>5</MaxCalls>
<MaxLiveCalls>2</MaxLiveCalls>
</License>
</Node>
<Node item="2">
<SerialNumber>XXXXXXX7</SerialNumber>
<IP>10.10.10.11</IP>
<License>
<MaxCalls>5</MaxCalls>
<MaxLiveCalls>2</MaxLiveCalls>
</License>
</Node>
</Cluster>
</ClusterConfiguration>
```

10.6 Clusterstatus.xml

A Content Server cluster node will return some useful information about cluster status via HTTP when calling the URL http://<server name>/tcs/clusterstatus.xml. The API authentication username and password are required. An example is provided below:

```
<ClusterStatus>
<Call item="1" type="Vtlph" protocol="H323" direction="Outgoing">
<CallState>IN_CALL</CallState>
<Duration>9000</Duration>
<RemoteNumber>4300</RemoteNumber>
```

```
<Bandwidth>768</Bandwidth>
<IncomingAudio>
<Protocol>AAC-LD</Protocol>
<Bitrate>64</Bitrate>
</IncomingAudio>
<IncomingVideo>
<Protocol>H.264</Protocol>
<Bitrate>768</Bitrate>
<Resolution>w448p</Resolution>
<VideoWidth>768</VideoWidth>
<VideoHeight>448</VideoHeight>
</IncomingVideo>
<IncomingDualVideo>
<Resolution>None</Resolution>
<VideoWidth>0</VideoWidth>
<VideoHeight>0</VideoHeight>
</IncomingDualVideo>
<OutgoingAudio>
<Protocol>AAC-LD</Protocol>
<Bitrate>64</Bitrate>
</OutgoingAudio>
<OutgoingVideo>
<Protocol>H.264</Protocol>
<Bitrate>704</Bitrate>
<Resolution>w288p</Resolution>
<VideoWidth>512</VideoWidth>
<VideoHeight>288</VideoHeight>
</OutgoingVideo>
<EncryptedCall>No</EncryptedCall>
<EncryptionModel/>
<ConferenceId>C5E6C533-A3A8-4271-A564-1AABB90FF825</ConferenceId>
<RecordingAlias>Default Live and OnDemand</RecordingAlias>
<RecordingAliasId>6C573098-2E9C-44C2-AA33-A972AEAA0876</RecordingAliasId>
<E164Alias/>
<H323Alias>Live49A01636</H323Alias>
<SIPURI/>
<Recorder>
<SerialNumber>XXXXXXX6</SerialNumber>
<LogTag>2</LogTag>
<CallId>1</CallId>
</Recorder>
<AudioProtocol deprecated="deprecated">AAC-LD</AudioProtocol>
<VideoProtocol deprecated="deprecated">H.264</VideoProtocol>
<IncomingVideoResolution
deprecated="deprecated">w448p</IncomingVideoResolution>
<IncomingDualVideoResolution
deprecated="deprecated">None</IncomingDualVideoResolution>
</Call>
<Node item="1">
<SerialNumber>XXXXXXX6</SerialNumber>
<IP>10.10.10.10</IP>
<ContentEngineStatus>1</ContentEngineStatus>
<Calls>
<CurrentCalls>1</CurrentCalls>
<MaxCalls>5</MaxCalls>
<FreeCalls>4</FreeCalls>
<CurrentLiveCalls>1</CurrentLiveCalls>
<CurrentPlaybackCalls>0</CurrentPlaybackCalls>
<MaxLiveCalls>2</MaxLiveCalls>
<FreeLiveCalls>1</FreeLiveCalls>
</Calls>
```

```
</Node>
<Node item="2">
<SerialNumber>XXXXXXX7</SerialNumber>
<IP>10.10.10.11</IP>
<ContentEngineStatus/>
<Calls>
  <CurrentCalls>0</CurrentCalls>
  <MaxCalls>5</MaxCalls>
  <FreeCalls>5</FreeCalls>
  <CurrentLiveCalls>0</CurrentLiveCalls>
  <CurrentPlaybackCalls>0</CurrentPlaybackCalls>
  <MaxLiveCalls>2</MaxLiveCalls>
  <FreeLiveCalls>2</FreeLiveCalls></Calls>
</Node>
</ClusterStatus>
```