

Web Service API Documentation

Polycom® RSS™ 4000 System, Version 6.0



Introduction

The RSS 4000 Web Service API enables users to programmatically manage RSS 4000. This document assumes that you are familiar with RSS 4000 and the functionality available on the RSS 4000 Web UI. (The API provides a subset of that functionality.) This document also assumes familiarity with web services in general, and with the programming language you will be using.

Communicating with API

The core messaging technology for the RSS 4000 API is Simple Object Access Protocol (SOAP), which is an XML- and HTTP-based protocol with wide support in the industry. The RSS 4000 API uses document/literal style SOAP 1.1.

To use the API, write a client program in the programming language that you are familiar with. We have tested Java. Write your client program to send a request to one of the operations, such as the startCall or getArchives. The relevant operation will process the request and send back a response, which your client program needs to parse.

The only software you need to install to use the API is the software for the programming language and toolkit that you will be using to write your client programs. For example, if you intend to write your client programs in Java, you will need to install the Java Development Kit and also a SOAP toolkit such as Apache CXF.

The operations provided by a web service are defined in a WSDL (Web Services Definition Language) file which is posted on the web service's website. To connect to a web service, you need to know the URL for the WSDL. For the RSS 4000 API services, the URL for the WSDL is: https://RSS_HOST/rss/services/MediaService?wsdl

WS-Security is required

The RSS 4000 Web Service API is based on WS-Security.

API Operations

Service	Operation
MediaService	getVersion getTemplates getTemplate createChannel editChannel deleteChannel getChannels createVRR editVRR deleteVRR getVRRs getVRR startCall endCall getCalls getCallsByStatus getCall getNumberOfArchives getArchives getArchivesByCallIds getLiveStreamings getDownloadToken getHashedPassword

getVersion

Get RSS 4000 system version.

Parameters

(none)		
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Response

String	The system version of RSS 4000.
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getTemplates

Get all template data.

Parameters

(none)		
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Response

Template[]	An array of template objects.
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getTemplate

Get the template data associated with a template ID.

Parameters

templateId	String	A template ID.
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Response

Template	A template object.
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createChannel

Create a new channel.

Parameters

channel	Channel	Information about the new channel. Channel.channelId is ignored in this data object.
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Response

Channel	A new channel object with Channel.channelId filled in.
---------	--

Errors

CHANNELNAME_DUPLICATE	If a channel with the same name already exists.
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editChannel

Update information for a channel.

Parameters

channel	Channel	The channel that needs to be updated.
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Response

Channel	The updated channel object.
---------	-----------------------------

Errors

CHANNELNAME_DUPLICATE	If a channel with the same name already exists.
-----------------------	---

deleteChannel

Delete a channel.

Parameters

channelId	String	A channel ID for a channel that should be deleted.
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Response

(none)	
--------	--

getChannels

Get all channel data.

Parameters

(none)		
--------	--	--

Response

Channel[]	An array of channel objects.
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createVRR

Create a new vrr.

Parameters

vrr	VRR	Information about the new vrr. VRR.vrrId is ignored in this data object.
-----	-----	--

Response

VRR	A new vrr object with VRR.vrrId filled in.
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Errors

VRRNAME_DUPLICATE	If a vrr with the same name already exists.
VRRALIAS_DUPLICATE	If a vrr with the same alias already exists.

editVRR

Update information for a vrr.

Parameters

vrr	VRR	The vrr that needs to be updated.
-----	-----	-----------------------------------

Response

VRR	The updated vrr object.
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Errors

VRRNAME_DUPLICATE	If a vrr with the same name already exists.
VRRALIAS_DUPLICATE	If a vrr with the same alias already exists.

deleteVRR

Delete a vrr.

Parameters

vrrId	String	A vrr ID for a vrr that should be deleted.
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Response

(none)	
--------	--

getVRRs

Get all vrr data.

Parameters

owner	String	The user name of vrr's user.
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Response

VRR[]	An array of vrr objects.
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getVRR

Get the vrr data associated with a vrr ID.

Parameters

vrrId	String	A vrr ID.
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Response

VRR	A vrr object.
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startCall

Start a call for dialing out to record.

Parameters

vrrId	String	A vrr ID.
aliasType	String	The type of alias. Values are: <ul style="list-style-type: none"> ▪ IPV4 ▪ E164 ▪ H323
aliasValue	String	The value of alias.
name	String	The name of call. (optional)
description	String	The description of call. (optional)
referenceId	String	The referenceId of call. (optional)

Response

Call	A call object.
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Errors

VRRID_INVALID	If vrrId is not valid.
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endCall

End the call associated with a call ID.

Parameters

callId	String	A call ID.
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Response

(none)	
--------	--

getCalls

Get the call data for the provided status.

Parameters

callStatus	String	The status of call. Values are: INITIATING CONNECTING CONNECTED_IDLE CONNECTED_RECORDING CONNECTED_PLAYBACKING DISCONNECTED FAILED
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Response

Call[]	An array of call objects.
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getCallsByStatus

Get the call data for the provided status list

Parameters

callStatus	List<String>	The status of call. Values are: INITIATING CONNECTING CONNECTED_IDLE CONNECTED_RECORDING CONNECTED_PLAYBACKING DISCONNECTED FAILED
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Response

Call[]	An array of call objects.
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getCall

Get the call data for the provided call id

Parameters

callId	String	A call ID.
--------	--------	------------

Response

Call	A call object.
------	----------------

getNumberOfArchives

Get count number of archives.

Parameters

(none)		
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Response

int	The count number of archives.
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getArchives

Get the archive data for the provided index range.

Parameters

startIdx	int	The start index.
endIdx	int	The end index.

Response

Media[]	An array of media objects.
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getArchivesByCallIds

Get the archive data for an array of call IDs.

Parameters

callIds	String[]	An array of call IDs.
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Response

Media[]	An array of media objects.
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getLiveStreamings

Get all live streaming data.

Parameters

(none)		
--------	--	--

Response

Media[]	An array of media objects.
---------	----------------------------

getDownloadToken

Get the download token.

Parameters

(none)		
--------	--	--

Response

String	The download token that is used for download media file.
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getHashedPassword

Get the hashed password.

Parameters

(none)		
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Response

String	The hashed password.	
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API Data Objects

Template

Data object for a template.

templateID	String	
templateName	String	
layoutType	String	DUAL SMALL MEDIUM LARGE
streams	TemplateStreamConfig[]	
autoLiveStreaming	boolean	

TemplateStreamConfig

Data object for a template stream config.

Fields

format	String	ASF MP4
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bitrate	int	Kbps
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Channel

Data object for a channel.

channelId	String	
name	String	
description	String	

VRR

Data object for a vrr.

vrrId	String	
vrrName	String	
vrrAlias	String	
pinCode	String	
owner	String	
description	String	
recordingImmediately	boolean	
channelId	String	
templateId	String	

Call

Data object for a call.

callId	String	
vrrId	String	
name	String	
description	String	
aliasType	String	IPV4 E164 H323
aliasValue	String	
status	String	INITIATING CONNECTING CONNECTED_IDLE CONNECTED_RECORDING CONNECTED_PLAYBACKING DISCONNECTED FAILED
referenceId	String	

Media

Data object for a media.

Fields

mediaId	String	
catalog	String	ARCHIVED STREAMING
name	String	
description	String	

recordingDate	String	
duration	String	Second(s)
pin	String	
meetingId	String	
occurrenceId	String	
streams	MediaStream[]	
call	Call	
channelName	String	

MediaStream

Data object for a media stream.

Fields

streamId	String	
type	String	ASF MP4 LIVE
status	String	Waiting Transcoding Ready Error
size	long	KB
bitrate	int	Kbps
height	int	
width	int	
downloadUrl	String	Only for ASF and MP4
playUrl	String	Only for ASF and Live

Examples

SOAP Request Example

The following code is a SOAP request to `getVersion`. The header sets the security authentication identity. The body of the message is a request to get system version.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <wsse:Security
      xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-w
      ssecurity-secext-1.0.xsd" soap:mustUnderstand="1">
      <wsse:UsernameToken
        xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-w
        ssecurity-secext-1.0.xsd"
        xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-ws
        security-utility-1.0.xsd" wsu:Id="UsernameToken-1">
        <wsse:Username>
          admin
        </wsse:Username>
        <wsse:Password
          Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-usenam
          e-token-profile-1.0#PasswordText">
          admin
        </wsse:Password>
        </wsse:UsernameToken>
      </wsse:Security>
    </soap:Header>
    <soap:Body>
      <ns2:getVersion xmlns:ns2="http://services.ws.rss.polycom.com/">
      </ns2:getVersion>
    </soap:Body>
  </soap:Envelope>
```

SOAP Response Example

The following code is a SOAP response to the previous getVersion request. The body includes the system version "6.0.0.0 rev 22241".

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns1:getVersionResponse
      xmlns:ns1="http://services.ws.rss.polycom.com/">
      <return>
        6.0.0.0 rev 22241
      </return>
    </ns1:getVersionResponse>
  </soap:Body>
</soap:Envelope>
```