



TV Playout APIs

This chapter describes the format and content of the TV Playout application program interface (API) messages. The TV Playout API provides a way to retrieve detailed information on content currently playing on playout and barker channels, import TV Playout schedules, create barker streams and playlists, and start and stop barker streams. The TV Playout API messages consist of the following:

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All HTTP request messages of the TV Playout API follow the HTTP GET or POST format. The list of the status codes used in TV Playout responses and a description of the error conveyed by each status code is presented in “[TV Playout Errors](#)” section on [page 10-17](#).

TV Playout Schedule Exporter

The TV Playout Schedule Exporter request-response message retrieves a TV Playout schedule.

Request

HTTP method supported: POST request with overloaded GET.

Element: **Request**

Table 10-1 describes the XML attributes of the Request element.

Table 10-1 TV Playout Schedule Exporter Request Element

Element	Attributes	Data Types	Descriptions
Request	—	List element	Element that represents a request.
	Type	xs:string	Type of request; that is, TVPlayoutStreams.
	Name	xs:string	Name of the request; that is, Schedule.
	ChannelList	xs:string	List of channels to be included in the schedule output.
	FromDate	xs:string	Schedule start date in either YYYY-MM-DD or YYYY-M-D format.
	ToDate	xs:string	Schedule end date in either YYYY-MM-DD or YYYY-M-D format. .

Request Example

In the following example, a TV Playout Schedule is exported based on the ChannelList and the fromDate and toDate specified in the schedule_request.xml file:

```
curl -o reply_1_1.xml -F "fileupload=@schedule_request.xml" "http://209.165.201.1/api/services/configure/array/playout/\" (_method=GET)\""
```

The schedule_request.xml file contains the following contents:

```
<?xml version="1.0" encoding="UTF-8"?>
<Request
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
  Type="TVPlayoutStreams"
  Name="Schedule"
  ChannelList="test01,test02"
  FromDate="2010-09-28"
  ToDate="2010-09-28"
/>
```

Response

If the request fails, one of the following HTTP status codes is returned:

- 400 Bad Request—Request parameters were incomplete or invalid.
- 500 Internal Server Error—Error occurred while retrieving the schedule.

An explanation for the error is presented in the Error element in the body of the response message.

If the request succeeds, the status code 200 OK is returned and the Schedule element is returned in the XML body response.

Table 10-2 describes the XML body elements, subelements, and attributes returned in the Exporter Schedule element.

Table 10-2 TV Playback Exporter Schedule Element

Element	Attribute/Subelements	Data Types	Descriptions
Schedule	—	List element	Element that represents a schedule.
	FromDate	xs:string	Schedule start date.
	ToDate	xs:string	Schedule end date.
	Version	xs:string	Version of the API application.
	Generator	xs:string	Name of the API application.
	CreateTime	xs:string	Date and time the schedule was generated by the API application.
	List	Subelement	Element that represents a list of content objects.
	Channel	Subelement	Element that represents a channel.
List	—	Schedule subelement	Element that represents a list of content objects.
	Type	xs:string	Type of list element. This is always Content.
	Content	Subelement	Element that represents a content object.
Content	—	List subelement	Element that represents a content object.
	Name	xs:string	Name of the content file.
	IngestPath	xs:string	Full path of the content file on the FTP host, including the username and password.
	long-name	xs:string	Localized name of content object. Only listed if Localized EPG Extensions is enabled.
	long-description	xs:string	Localized description of content object. Only listed if Localized EPG Extensions is enabled.
Channel	—	Schedule subelement	Element that represents a channel.
	Name	xs:string	Name of the output channel.
	Program	Subelement	Element that represents a program. A program refers to content that is scheduled to play on a channel during a specific timeslot.
Program	—	Channel subelement	Element that represents a program.
	Type	xs:string	Type of program; that is, Content or Playlist.
	Name	xs:string	Name of a content object or playlist.
	StartTime	xs:string	Date and time the program is scheduled to start.
	EndTime	xs:string	Date and time the program is scheduled to finish.
	List (for Program Type=Playlist)	Subelement	Element that represents a list of content objects for the playlist.
Content (for Program Type=Playlist)	—	Program List subelement	Element that represents a content object in a playlist.
	Name	xs:string	Name of the content file.
	Loops	xs:integer	Number of times the content loops.

Response Example

```
<?xml version="1.0" encoding="UTF-8"?>
<Schedule xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
  FromDate="2011-10-11"
  ToDate="2011-10-11"
  Version="1.0"
  Generator="CDSM-2.5 CDSM GUI"
  CreateTime="2011-10-10:05:57:18" >
  <List Type="Content">
    <Content Name="vic.mpg" IngestPath="ftp://root:rootroot@172.22.98.184/mpeg2/vic.mpg" />
    <Content Name="bournesupremacybourneidentitydblf.mpg"
      IngestPath="ftp://root:rootroot@172.22.98.184/mpeg2/bournesupremacybourneidentitydblf.mpg" />
    <Content Name="clockstoppers.mpg"
      IngestPath="ftp://root:rootroot@172.22.98.184/mpeg2/clockstoppers.mpg" />
    <Content Name="GrandTorinoTS.mpg"
      IngestPath="ftp://root:rootroot@172.22.98.184/mpeg2/GrandTorinoTS.mpg" long-name="TESTING_LOCALIZED"
      long-description="LOCAL_LOCAL_LOCAL" />
  </List>
  <Channel Name="CHAN-1">
    <Program Type="PLAYLIST" Name="Play_NEW" StartTime="2011-10-12:15:30:00"
      EndTime="2011-10-12:22:02:18" >
      <List Type="Content" >
        <Content Name="vic.mpg" Loops="5" />
        <Content Name="bournesupremacybourneidentitydblf.mpg" Loops="1" />
        <Content Name="clockstoppers.mpg" Loops="5" />
      </List>
    </Program>
  </Channel>
  <Channel Name="CHAN-2">
    <Program Type="CONTENT" Name="GrandTorinoTS.mpg" StartTime="2011-10-12:17:00:00"
      EndTime="2011-10-12:22:48:26" />
  </Channel>
</Schedule>
```

TV Playout Schedule Importer

The TV Playout Schedule Importer request-response message imports a TV playout schedule into the Cisco VDS.

Request

HTTP method supported: POST request with overloaded GET.

Element: **Schedule**

[Table 10-3](#) describes the XML body elements, subelements, and attributes included in the Schedule element.

Table 10-3 TV Playout Importer Schedule Element

Element	Attribute/Subelements	Data Types	Descriptions
Schedule	—	List element	Element that represents a schedule.
	FromDate	xs:string	Schedule start date.
	ToDate	xs:string	Schedule end date.
	Version	xs:string	Version of the API application.
	Generator	xs:string	Name of the API application.
	CreateTime	xs:string	Date and time the schedule was generated by the API application.
	List	Subelement	Element that represents a list of content objects.
	Channel	Subelement	Element that represents a channel.
List	—	Schedule subelement	Element that represents a list of content objects.
	Type	xs:string	Type of list element. This is always Content.
	Content	Subelement	Element that represents a content object.
Content	—	List subelement	Element that represents a content object.
	Name	xs:string	Name of the content file.
	IngestPath	xs:string	Full path of the content file on the FTP host, including the username and password.
	long-name	xs:string	Localized name of content object. Only listed if Localized EPG Extensions is enabled.
	long-description	xs:string	Localized description of content object. Only listed if Localized EPG Extensions is enabled.
Channel	—	Schedule subelement	Element that represents a channel.
	Name	xs:string	Name of the output channel.
	Program	Subelement	Element that represents a program. A program refers to content that is scheduled to play on a channel during a specific timeslot.
Program	—	Channel subelement	Element that represents a program.
	Type	xs:string	Type of program; that is, Content or Playlist.
	Name	xs:string	Name of a content object or playlist.
	StartTime	xs:string	Date and time the program is scheduled to start.
	EndTime	xs:string	Date and time the program is scheduled to finish.

Request Example

In the following example, the TV Playout Schedule specified in the schedule.xml file is imported into the VDS:

```
curl -o reply_1_2.xml -F fileupload=@schedule.xml
"http://209.165.201.1/api/services/configure/array/playout"
```

The schedule.xml file contains the following contents:

```
<?xml version="1.0" encoding="UTF-8"?>
<Schedule xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
  FromDate="2011-10-11"
  ToDate="2011-10-11"
  Version="1.0"
  Generator="CDSM-2.5 CDSM GUI"
  CreateTime="2011-10-10:05:57:18" >
  <List Type="Content">
    <Content Name="vic.mpg"
      IngestPath="ftp://root:rootroot@172.22.98.184/mpeg2/vic.mpg" />
    <Content Name="bournesupremacybourneidentitydblf.mpg"
      IngestPath="ftp://root:rootroot@172.22.98.184/mpeg2/bournesupremacybourneidentityd
      blf.mpg" />
    <Content Name="clockstoppers.mpg"
      IngestPath="ftp://root:rootroot@172.22.98.184/mpeg2/clockstoppers.mpg" />
    <Content Name="GrandTorinoTS.mpg"
      IngestPath="ftp://root:rootroot@172.22.98.184/mpeg2/GrandTorinoTS.mpg"
      long-name="TESTING_LOCALIZED" long-description="LOCAL_LOCAL_LOCAL" />
  </List>
  <Channel Name="CHAN-1">
    <Program Type="PLAYLIST" Name="Play_NEW" StartTime="2011-10-15:15:30:00"
      EndTime="2011-10-15:22:02:18" >
    </Program>
  </Channel>
  <Channel Name="CHAN-2">
    <Program Type="CONTENT" Name="GrandTorinoTS.mpg" StartTime="2011-10-15:17:00:00"
      EndTime="2011-10-15:22:48:26" />
  </Channel>
</Schedule>
```

Response

If the request fails, one of the following HTTP status codes is returned:

- 400 Bad Request—Request parameters were incomplete or invalid.
- 409 Conflict—Conflict exists in the schedule.
- 500 Internal Server Error—Error occurred while importing the schedule.

An explanation for the error is presented in the Error element in the body of the response message.



Note

If there are conflicts in the imported schedule, then the conflicts are returned as part of the API response.

If the request succeeds, the status code 200 OK is returned.

TV Playback Contents Currently Playing

The TV Playback Contents Currently Playing request-response message returns a list of content currently being played by TV playback.

Request

HTTP method supported: GET.

Request Example

```
curl -o reply_1_3.xml "http://209.165.201.1/api/services/monitor/array/playback/playing"
```

Response

If the request fails, the HTTP status code 500 Internal Server Error is returned. This status code indicates that an error occurred while retrieving the list of contents currently playing.

If the request succeeds, the List element is returned in the XML body response.

Table 10-4 describes the XML body elements, subelements, and attributes returned in the List element.

Table 10-4 TV Playback Contents Currently Playing List Element

Element	Attributes/Sub Elements	Data Types	Descriptions
List	—	List Element	Element that represents a list of playback content currently playing.
	Type	xs:string	Type of list. This is always TVPlaybackCurrentPlay.
	Timestamp	xs:string	Date and time the response was generated.
	Channel	Subelement	Element that represents a channel.
Channel	—	List Element	Element that represents a channel.
	Name	xs:string	Name of the output channel.
	Program	Subelement	Element that represents a program. A program refers to content that is scheduled to play on a channel during a specific timeslot.
Program	—	List Element	Element that represents a program.
	Name	xs:string	Name of a content object. This attribute is specified if a content object is associated with the program.
	Playlist	xs:string	Name of a playlist. This attribute is specified if a playlist is associated with the program.
	StartTime	xs:string	Program start date and time.
	EndTime	xs:string	Program end date and time.
	Playing	xs:string	Status that indicates if the content is playing or not.

Response Example

```
<?xml version="1.0" encoding="UTF-8"?>
<List Type="TVPlaybackCurrentPlay"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
  Timestamp="2010-5-30:1:00:00"
```

```

>
<Channel Name="Channel1">
  <Program Name="BBQ_00_102000001.mpg"
    StartTime="2010-5-30:1:00:00"
    EndTime="2010-5-30:1:23:00"
    Playing="Yes" />
</Channel>
<Channel Name="Channel2">
  <Program Name="BBX_00_102000001.mpg"
    StartTime="2010-5-30:1:00:00"
    EndTime="2010-5-30:1:23:00"
    Playing="Yes" />
</Channel>
</List>

```

Barker Streams Currently Playing

The Barker Streams Currently Playing request-response message returns a list of barker streams currently being played.

Request

HTTP method supported: GET.

Request Example

```

curl-o reply_1_4.xml
"http://209.165.201.1/api/services/monitor/array/barkerstreams/playing"

```

Response

If the request fails, the HTTP status code 500 Internal Server Error is returned. This status code indicates that an error occurred while retrieving the list of barker streams currently playing.

An explanation for the error is presented in the Error element in the body of the response message.

If the request succeeds, the List element is returned in the XML body response.

[Table 10-5](#) describes the XML body elements, subelements, and attributes returned in the List element.

Table 10-5 *Barker Streams Currently Playing List Element*

Element	Attributes/Sub Elements	Data Types	Descriptions
List	—	List Element	Element that represents a list of barker streams currently playing.
	Type	xs:string	Type of list. This is always BarkerStreamsCurrentlyPlaying.
	Timestamp	xs:string	Date and time the response was generated.
	Stream	Subelement	Element that represents a barker stream.

Table 10-5 *Barker Streams Currently Playing List Element (continued)*

Stream	—	List Element	Element that represents a barker stream.
Type		xs:string	Type of stream. This is always Barker.
Channel		xs:string	Name of the channel on which the barker stream is playing.
Content		xs:string	Name of the content object currently being played.
Playing		xs:string	Status that indicates if the content object is playing or not.

Response Example

```
<?xml version="1.0" encoding="UTF-8"?>
<List Type="BarkerStreamsCurrentlyPlaying"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscoverbsvcs"
  Timestamp="2010-5-30:1:00:00"
  >
  <Stream Type="Barker" Channel="Channel1" Content="BBQ_00_102000001.mpg"
  Playing="Yes" />
  <Stream Type="Barker" Channel="Channel2" Content="BBX_00_102000001.mpg"
  Playing="Yes" />
</List>
```

TV Playout Channels

The TV Playout Channels request-response message returns a list of channels configured in the TV Playout.

Request

HTTP method supported: GET.

Request Example

```
curl -o reply_1_5.xml "http://209.165.201.1/api/services/configure/system/outputchannels"
```

Response

If the request fails, the HTTP status code 500 Internal Server Error is returned. This status code indicates that an error occurred while retrieving the list of channels configured in the TV Playout.

If the request succeeds, the List element is returned in the XML body response with list type set to Channels. Table 10-6 describes the XML body elements, subelements, and attributes returned in the List element.

Table 10-6 TV Playout Channels List Element

Element	Attributes/Sub Elements	Data Types	Descriptions
List	—	List Element	Element that represents a list of playout channels.
	Type	xs:string	Type of list. This is always Channels.
	Timestamp	xs:string	Date and time the response was generated.
	Channel	Subelement	Element that represents a channel.
Channel	—	List Element	Element that represents a channel.
	Name	xs:string	Name of the channel.

Response Example

```
<?xml version="1.0" encoding="UTF-8"?>
<List Type="Channels"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
  TimeStamp="2010-5-30:1:00:00"
  >
  <Channel Name="test01"/>
  <Channel Name="test02"/>
</List>
```

TV Playout Stream Report

The TV Playout Stream Report request-response message returns a report of TV Playout streams for a specified time interval.

Request

HTTP method supported: POST request with overloaded GET.



Note

If a channel is not specified, the report returns a list of all channels. If a time interval is not specified, the report presents information for streams occurring in the last 24 hours.

Element: **ReportRequest**

Table 10-7 describes the XML attributes of the ReportRequest element

Table 10-7 TV Playout Stream Report ReportRequest Element

Element	Attributes	Data Types	Descriptions
ReportRequest	—	List Element	Element that represents a report request.
	Type	xs:string	Type of request. This is always TVPlayoutStreams.
	Channel	xs:string	Channel for whom the data is being requested. If a channel is not specified, stream details on all channels are returned.
	FromDate	xs:string	Report start date in the format YYYY-MM-DD. If this parameter is not specified, it is set to the current date and time minus 24 hours, and the message response returns stream details starting from this point in time.
	ToDate	xs:string	Report end date in the format YYYY-MM-DD. If this parameter is not specified, it is set to the current date and time and the message response returns stream details ending at the current time.

Request Example

In the following example, a list of TV Playout streams are requested based on the fromDate and toDate specified in the request.xml file:

```
curl -o reply_1_6.xml -F "fileupload=@request.xml" "http://209.165.201.1/api/services/report/system/streams/playout/(_method=GET)"
```

The request.xml file contains the following contents:

```
<?xml version="1.0" encoding="UTF-8"?>
<ReportRequest
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
  Type="TVPlayoutStreams">
  <param name="Channel" value="test01"/>
  <param name="FromDate" value="2010-05-30"/>
  <param name="ToDate" value="2010-05-30"/>
</ReportRequest>
```

Response

If the request fails, one of the following HTTP status codes is returned:

- 400 Bad Request—Request parameters were incomplete or invalid.
- 500 Internal Server Error—Error occurred while retrieving the stream report.

An explanation for the error is presented in the Error element in the body of the response message.

If the request succeeds, the Report element is returned in the XML body response.

Table 10-8 describes the XML body elements, subelements, and attributes returned in the Report element.

Table 10-8 TV Playback Stream Report Element

Element	Attributes/Sub Elements	Data Types	Descriptions
Report	—	List Element	Element that represents a playout streams report.
	Type	xs:string	Type of report. This is always TVPlayOutStreams.
	FromDate	xs:string	Report start date.
	ToDate	xs:string	Report end date.
	Channel	xs:string	Channel for whom the data is being presented.
	Channel	Sub-Element	Element that represents a channel.
Channel	—	List Element	Element that represents a channel.
	Name	xs:string	Channel for whom the data is being presented.
	Stream	Sub-Element	Element that represents a stream.
Stream	—	List Element	Element that represents a stream.
	Type	xs:string	Type of stream. This is always Barker.
	Channel	xs:string	Channel for whom the data is being presented.
	Content	xs:string	Identifier of the content object being streamed.
	StartTime	xs:string	Stream start time.
	EndTime	xs:string	Stream end time.
	ServerId	xs:integer	Identifier of the Streamer.
	Status	xs:string	Information on whether the stream was successful.

Response Example

```
<?xml version="1.0" encoding="UTF-8"?>
<Report
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
  Type="TVPlayOutStreams"
  Channel="test01"
  FromDate="2010-5-30"
  ToDate="2010-5-30"
  TimeStamp="2010-5-30:1:00:00" >
  <Channel Name="test01">
    <Stream Type="Barker"
      Channel="test01"
      Content="BBQ1.mpg"
      StartTime="2010-5-30:1:00:00"
      EndTime="2010-5-30:1:23:00"
      ServerId="186"
      Status="Success" />
    <Stream Type="Barker"
      Channel="test01"
      Content="BBQ2.mpg"
      StartTime="2010-5-30:2:00:00"
      EndTime="2010-5-30:2:23:00"
```

```

        ServerId="186"
        Status="Success" />
    <Stream Type="Barker"
        Channel="test01"
        Content="BBQ3.mpg"
        StartTime="2010-5-30:3:00:00"
        EndTime="2010-5-30:3:23:00"
        ServerId="186"
        Status="Success" />
</Channel>
</Report>

```

Create Barker Streams

The Create Barker Streams request-response message creates barker streams.

Request

HTTP method supported: POST request.

Element: **List**

[Table 10-9](#) describes the XML body elements, subelements, and attributes included in the List element.

Table 10-9 Create Barker Streams List Element

Element	Attributes/Sub Elements	Data Types	Descriptions
List	—	List Element	Element that represents a barker stream.
	Type	xs:string	Type of list. This is always Barker.
	Name	xs:string	Name of the Barker Stream.
	Channel	xs:string	Name of the channel.
	Content	Subelement	Element that represents a content object.
Content	—	List Element	Element that represents a content object.
	Name	xs:string	Name of the content file.
	Loop	xs:integer	Number of loops.

Request Example

In the following example, a barker stream is created based on the contents of the barker.xml file:

```

curl -o reply_1_7.xml -F "fileupload=@barker.xml"
"http://209.165.201.1/api/services/configure/array/barkerstream"

```

The barker.xml file contains the following contents:

```

<?xml version="1.0" encoding="UTF-8"?>
<List xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
    Type="Barker"
    Name="Barker1"
    Channel="Channel1">
    <Content Name="BBX_00_102000004.mpg" Loops="2" />
    <Content Name="BBX_00_102000005.mpg" Loops="4" />
</List>

```

Response

If the request fails, one of the following HTTP status codes is returned:

- 400 Bad Request—Invalid schema.
- 409 Conflict—Error occurred due to conflicting names.

500 Internal Server Error—Error occurred while creating the barker stream. An explanation for the error is presented in the Error element in the body of the response message.

If the request succeeds, the status code 200 OK is returned.

Create Playlist

The Create Playlist request-response message creates a playlist.

Request

HTTP method supported: POST request.

Element: **List**

Table 10-10 describes the XML body elements, subelements, and attributes included in the List element.

Table 10-10 Create Playlist List Element

Element	Attributes/Sub Elements	Data Types	Descriptions
List	—	List Element	Element that represents a playlist.
	Type	xs:string	Type of list. This is always Playlist
	Name	xs:string	Name of the playlist.
	Content	Subelement	Element that represents a content object.
Content	—	List Element	Element that represents a content object.
	Name	xs:string	Name of the content file.
	Loop	xs:integer	Number of loops.

Request Example

In the following example, a barker stream is created based on the contents of the playlist.xml file:

```
curl -o reply_1_7.xml -F "fileupload=@playlist.xml"
"http://209.165.201.1/api/services/configure/array/barkerstream"
```

The playlist.xml file contains the following contents:

```
<?xml version="1.0" encoding="UTF-8"?>
<List xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
      Type="Playlist"
      Name="Playlist1">
  <Content Name="BBX_00_102000004.mpg" Loops="2"/>
  <Content Name="BBX_00_102000005.mpg" Loops="4"/>
</List>
```

Response

If the request fails, one of the following HTTP status codes is returned:

- 400 Bad Request—Invalid schema.
- 409 Conflict—Error occurred due to conflicting names.

500 Internal Server Error—Error occurred while creating the playlist. An explanation for the error is presented in the Error element in the body of the response message.

If the request succeeds, the status code 200 OK is returned.

Start/Stop Barker Streams

The Stop/Start Barker Streams request-response message is used to start or stop a specific barker stream.

Request

HTTP method supported: GET.

Start Barker Stream Request Example

```
curl -o reply_1_5.xml
"http://209.165.201.1/api/services/configure/array/id/barkerstream/bAction/start/bName/WebServicesTest01"
```

Stop Barker Stream Request Example

```
curl -o reply_1_5.xml
"http://209.165.201.1/api/services/configure/array/id/barkerstream/bAction/stop/bName/WebServicesTest01"
```

Response

If the request fails, the HTTP status code 500 Internal Server Error is returned.

If the request succeeds, the Barker element is returned in the XML body response.

[Table 10-11](#) describes the XML body elements and attributes returned in the Barker element.

Table 10-11 Stop/Start Barker Streams Barker Element

Element	Attributes/Sub Elements	Data Types	Descriptions
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Table 10-11 Stop/Start Barker Streams Barker Element

Barker	—	List Element	Element that represents a barker stream.
	Barker Name	xs:string	Name of the barker stream.
	Stop	xs:string	Indicates if the stop operation has been successful or whether an error occurred. This attribute is displayed if a barker stream was stopped.
	Start	xs:string	Indicates if the start operation has been successful or whether an error occurred. This attribute is displayed if a barker stream was started.
	Error	xs:string	Error message if stop or start of a barker stream was unsuccessful.
	Version	xs:string	Version of the API application.
	Generator	xs:string	Name of the API application.
	Time	xs:string	Date and time the stop or stop operation was taken.

Response Example

```
<?xml version="1.0" encoding="UTF-8"?>
<Barker BarkerName="Test01" stop="OK" Error="" Version="1.0" Generator="CDSM-2.5 WS API"
Time="2011-06-01:12:34:40" />
```

Get All Barker Streams

The Get All Barker Streams request-response message returns a list of all of the barker streams in the system.

Request

HTTP method supported: GET.

Request Example

```
curl -o reply_1_5.xml "http://209.165.201.1/api/services/monitor/array/barkerstreams/all"
```

Response

If the request fails, the HTTP status code 500 Internal Server Error is returned.

If the request succeeds, the List element is returned in the XML body response with list type set to BarkerStreams. [Table 10-12](#) describes the XML body elements, subelements, and attributes returned in the List element.

Table 10-12 Get All Barker Streams List Element

Element	Attributes/SubElements	Data Types	Descriptions
List	—	List Element	Element that represents a list of barker streams.
	Type	xs:string	Type of list. This is always BarkerStreams.
	Timestamp	xs:string	Date and time the response was generated.
	Barker	Subelement	Element that represents a barker stream.

Table 10-12 Get All Barker Streams List Element (continued)

Barker	—	List Element	Element that represents a barker stream.
	Name	xs:string	Name of the barker stream.
	ChannelName	xs:string	Name of the output channel.
	DestinationIP	xs:integer	Destination IP address.
	DestinationPort	xs:integer	Destination port.
	Status	xs:string	Status of the barker stream.

Response Example

```
<?xml version="1.0" encoding="UTF-8"?>
<List Type="BarkerStreams" TimeStamp="2011-06-01:13:07:48">
  <Barker Name="Barker1" ChannelName="Channel1" DestinationIP="209.165.201.1:45"
  DestinationPort="12345" Status="Stopped"/>
  <Barker Name="Barker2" ChannelName="Channel2" DestinationIP="209.165.201.1:46"
  DestinationPort="16385" Status="Playing"/>
  <Barker Name="Barker3" ChannelName="Channel3" DestinationIP="209.165.201.1:47"
  DestinationPort="16386" Status="Playing"/>
</List>
```

TV Playout Errors

Errors are reported in the API response message and are also logged to the CDSM. HTTP status codes are used to convey information about the error.

The following is a list of the status codes used in TV Playout responses and includes a description of the error conveyed by each status code:

- 200 OK—Request was successful.
- 400 Bad Request—Request parameters were incomplete or invalid.
- 409 Conflict—Request conflicts with an established rule.
- 500 Internal Server Error—Unexpected error occurred while fulfilling the request.

The body of the response includes a description of the problem. For example, if the response 400 Bad Request is returned, the body of the response may suggest that the request did not adhere to the XML schema file or that the time range was outside an acceptable range. **Error XML in Body Response**

When an error is reported, the Error element is returned in the XML file in the response. In addition to the status code and error description, the XML file may also include the request that was submitted. The following is an example of the Error xml file returned with the status code 400 Bad Request:

```
<?xml version="1.0" encoding="UTF-8"?>
<Error
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
  Code="1010"
  Message="XML Validation: Line 4: Unknown attribute NName"
  >
  <Request
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:ws="http://www.cisco.com/schemas/VCPBU/CDS-TV/R0/ciscowebsvcs"
    NName="Schedule"
    FromDate="2010-05-30"
```

```
        ToDate="2010-05-30"  
    >  
</Error>
```

In this example, a 400 Bad Request error was returned because an unknown 'NName' attribute was found. The request is included and shows the invalid attribute in line 4 of the request.