



TransAct Packager API Developer's Reference Guide

Release 5.4

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TransAct Packager API Developer's Reference Guide document history

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Table of Contents

Chapter 1: Introduction	9
In This Chapter	9
Document Organization	10
Document Audience	10
Related Documentation	10
Document Conventions	10
Graphics Used	11
Acronyms Used	11
Chapter 2: Overview	14
In This Chapter:	14
Application Development with RGB TransAct Software	14
XML-RPC Basics	15
Call / Response Methods	15
Multi-call Requests	17
SSL vs. Non-SSL Modes	17
Formulating Method Calls to Expected Number of Parameters	17
More Information	18
Chapter 3: Release Differential	19
In This Chapter:	19
New Supported APIs for Release 5.4	19
Modified Frequently Used APIs for Release 5.4	19
configuration.audiomap.add / modify / show	19
configuration.input.directory.add / modify / show	19
configuration.jitp.profile.modify	20
configuration.output.directory.add / modify / show	20
configuration.package.add / modify	20
sysconfig.keyserver.add / modify / show	20
sysconfig.license.update	20
Deprecated Frequently Used APIs from Release 5.3	20
sysconfig.redundancy.add	20
sysconfig.redundancy.configure	20
sysconfig.redundancy.remove	20
sysconfig.redundancy.show	20
Chapter 4: Frequently Used APIs	21
In This Chapter:	21
configuration.audiomap.add	22
Method Help Text	22
Return Value	22
Parameter Descriptors (3)	22
Sample Request	22
Sample Response	23
configuration.audiomap.rule.add	23
Method Help Text	23

Return Value	23
Parameter Descriptors (11)	23
Sample Request	25
Sample Response	26
configuration.audiomap.rule.modify	28
Method Help Text	28
Return Value	28
Parameter Descriptors (11)	28
Sample Request	28
Sample Response	29
configuration.audiomap.show	30
Method Help Text	30
Return Value	30
Parameter Descriptors (3)	30
Sample Request	30
Sample Response	31
configuration.input.group.add	35
Method Help Text	36
Return Value	36
Parameter Descriptors (3)	36
Sample Request	36
Sample Response	37
configuration.input.group.remove	39
Method Help Text	39
Return Value	39
Parameter Descriptors (3)	39
Sample Request	40
Sample Response	40
configuration.input.group.show	41
Method Help Text	41
Return Value	41
Parameter Descriptors (3)	41
Sample Request - only one stream selected	41
Sample Response - only one stream returned	42
Sample Response - all streams selected	54
configuration.input.group.stream.add	55
Method Help Text	55
Return Value	56
Parameter Descriptors (20)	56
Sample Request	59
Sample Response	62
configuration.input.group.stream.redetect	64
Method Help Text	64
Return Value	64
Parameter Descriptors (5)	65
Sample Request	65
Sample Response	66
configuration.input.group.stream.show	66
Method Help Text	66
Return Value	66
Parameter Descriptors (5)	66
Sample Request - for configuration option (default)	67

Sample Response - displaying configuration option (default)	68
configuration.jitp.profile.add	72
Method Help Text	72
Return Value	72
Parameter Descriptors (3)	72
Sample Request	72
Sample Response	73
configuration.jitp.profile.modify	73
Method Help Text	73
Return Value	73
Parameter Descriptors (13)	73
Sample Request	75
Sample Response	76
configuration.jitp.profile.show	77
Method Help Text	77
Return Value	77
Parameter Descriptors (3)	77
Sample Request	77
Sample Response	78
configuration.jitp.source.server.add	88
Method Help Text	88
Return Value	89
Parameter Descriptors (3)	89
Sample Request	90
Sample Response	91
configuration.output.directory.add	93
Method Help Text	93
Return Value	93
Parameter Descriptors (15)	93
Sample Request	95
Sample Response	97
configuration.output.directory.remove	99
Method Help Text	99
Return Value	99
Parameter Descriptors (3)	99
Sample Request	99
Sample Response	100
configuration.output.directory.show	100
Method Help Text	100
Return Value	100
Parameter Descriptors (3)	101
Sample Request	101
Sample Response	101
configuration.output.format.dash.modify	104
Method Help Text	104
Return Value	104
Parameter Descriptors (6)	104
Sample Request	105
Sample Response	106
configuration.output.format.hls.modify	106
Method Help Text	106
Return Value	107

Parameter Descriptors (15)	107
Sample Request	110
Sample Response	112
configuration.package.add	112
Method Help Text	112
Return Value	112
Parameter Descriptors (39)	113
Sample Request	120
Sample Response	124
configuration.package.remove	130
Method Help Text	130
Return Value	130
Parameter Descriptors (3)	130
Sample Request	130
Sample Response	131
configuration.package.show	131
Method Help Text	131
Return Value	131
Parameter Descriptors (4)	131
Sample Request - configuration	131
Sample Response - configuration	132
configuration.package.start	142
Method Help Text	142
Return Value	142
Parameter Descriptors (3)	143
Sample Request	143
Sample Response	143
configuration.package.stop	144
Method Help Text	144
Return Value	144
Parameter Descriptors (3)	144
Sample Request	144
Sample Response	145
configuration.session.show	146
Method Help Text	146
Return Value	146
Parameter Descriptors (7)	146
Sample Request	146
Sample Response	147
sysconfig.database.threshold.set	159
Method Help Text	159
Return Value	159
Parameter Descriptors (6)	159
Sample Request	159
Sample Response	160
sysconfig.keyserver.add	161
Method Help Text	161
Return Value	161
Parameter Descriptors (18)	161
Sample Request	164
Sample Response	166
sysconfig.keyserver.remove	166

Method Help Text	166
Return Value	166
Parameter Descriptors (3)	167
Sample Request	167
Sample Response	167
sysconfig.keyserver.show	168
Method Help Text	168
Return Value	168
Parameter Descriptors (3)	168
Sample Request	168
Sample Response	169
sysconfig.license.update	177
Method Help Text	177
Return Value	177
Parameter Descriptors	178
Sample Request	178
Sample Response	179
sysconfig.restart	179
Method Help Text	179
Return Value	179
Parameter Descriptors (2)	179
Sample Request	179
Sample Response	180
Chapter 5: Contacting RGB Customer Support	181
Contacting RGB Customer Support	181
Information Required for Troubleshooting	181

Introduction

RGB Networks' *TransAct Packager* enables adaptive streaming and video delivery to mobile devices, PCs, and set-top boxes in a cost-effective, distributed deployment architecture. *TransAct Packager* ingests H.264 encoded video streams carried in an MPEG-2 transport stream (TS) and produces segmented output in various protocols¹.

Additionally, *Packager* can encrypt content using a variety of methods and is integrated with leading DRM² vendors and key exchange servers.

TransAct Packager is offered as either a software license or an appliance. The software license-only solution can be downloaded, or optionally shipped on a DVD, and allows customers to deploy on their choice of server-based hardware platform running Linux CentOS³. Note that performance will be impacted by the hardware platform running the software. Running on an RGB supported appliance – the *TransAct Application Media Server (AMS)* – *Packager* provides a minimum MTBF of 100,000 hours as the AMS is an extremely durable hardware appliance requiring minimal ongoing maintenance.

Figure 1. RGB *TransAct* Application Media Server



This *TransAct Packager API Developer's Reference Guide* describes how to use *Packager's* application programming interface (API) to develop applications for configuration and management of *Packager's* software.

In This Chapter

This chapter contains the following sections:

- "Document Organization," next.
- "Document Audience" on page 10.
- "Related Documentation" on page 10.
- "Document Conventions" on page 10.
- "Graphics Used" on page 11.
- "Acronyms Used" on page 11.

-
1. This release supports the following output formats: Apple HTTP Live Streaming (HLS), Microsoft Smooth Streaming (MSS), Microsoft Smooth Streaming - remote, MPEG Dash, Adobe HTTP Dynamic Streaming (HDS), Adobe RTMP, and Adobe HTTP Dynamic Streaming - HTTP File Format (HDS-HTTP)
 2. This release supports the following DRM servers: Verimatrix HLS, Buy DRM, CKM, NagraVision (Nagra), Internal HLS, Verimatrix Playready, Internal Flash Access, Latens, Secure Media, Conax, Irdeto, Internal Playready, NDS/Cisco, RgbAPI, Mezzanine, and KPN.
 3. Refer to the Release Notes for compatible versions of CentOS.

Document Organization

This guide is organized as follows:

- [Chapter 1, "Introduction,"](#) (this chapter) describes the contents and conventions used in the *TransAct Packager API Developer's Reference Guide*.
- [Chapter 2, "Overview,"](#) provides a detailed description of the most commonly used API calls for the *Packager* software application.
- [Chapter 3, "Release Differential,"](#) provides a comparison of modified API calls between the prior software release and the current release.
- [Chapter 4, "Frequently Used APIs,"](#) describes method calls of *Packager's* most frequently used APIs, including method help, field parameters, and sample call and response.
- [Chapter 5, "Contacting RGB Customer Support,"](#) provides information for contacting RGB Customer Support.

Document Audience

This guide is for application developers and system administrators who are responsible for integrating existing systems with *Packager*. You should be familiar with general video and networking practices and terminology, and should be familiar with XML-RPC software development. You should also be familiar with Linux-based operating systems and its command line interface.

Related Documentation

- *TransAct Packager User Guide, Release 5.4.*
- *TransAct Packager Software Installation and Upgrade Guide, Release 5.4*

Document Conventions

[Table 1](#) provides an easy way to recognize important information in this user guide.

Table 1. Document Conventions

When you see:	It means:
	Notes are indicated by the icon shown at left, and point out information that may not be part of the text but provide tips and other helpful advice.
	Cautions are indicated by the icon on the left, and let you know that an action may have undesirable consequences if the instructions are not followed correctly. Cautions also indicate that failure to follow guidelines could cause damage to equipment or loss of data.
	Warnings are indicated by the icon on the left, and indicate that failure to take the necessary precautions or to follow guidelines could cause harm to equipment and personnel.
Clicking any blue link takes you to the item to which the link refers.	

Graphics Used

In some cases, the screens shown in this manual may have been slightly modified after the manual was released, or may appear slightly different on different browsers.

All efforts have been made to ensure that the latest images are used. In all cases, the functionality described is current at the time of writing.

Acronyms Used

Table 2 provides a list of acronyms commonly used in ad insertion and adaptive bitrate streaming. Note that some of these acronyms may not be used in this user guide

Table 2. Video Processing and Adaptive Bitrate Streaming Acronyms

Acronym	Meaning
AAC	Advanced Audio Coding
ABR	Adaptive Bitrate
AC3	Audio Coding Version 3 (Dolby Digital 5.1, or DD)
ADM	Ad Management Service (function of AWE)
ADS	Ad Decision Service
AIM	Ad Insertion in Multi Screen (RGB term)
AMS	Application Media Server (RGB term)
API	Application Programming Interface
AU	Access Unit
Avail	Available opportunity for ad placement
AWE	Ad Workflow Engine (RGB term)
B-Frame	Bidirectional compression picture frame
CDN	Content Delivery Network
CIFS	Common Internet Files System (Microsoft based)
CNS	Content Name Server
CR	Continuous Recording
DAI	Digital Ad Insertion
DD	Dolby Digital (same as AC3)
DD+	Dolby Digital Plus (same as E-AC-3)
DASH	Dynamic Adaptive Streaming over HTTP
DMA	Designated Market Area
DMM	Dynamic Manifest Manipulation
DRM	Digital Rights Management
DTS	Decoding Time Stamp
DTS	Digital Theater Systems
DVR	Digital Video Recorder

Table 2. Video Processing and Adaptive Bitrate Streaming Acronyms

Acronym	Meaning
E-AC-3	Enhanced Audio Coding 3 (Dolby Digital Plus 7.1, or DD+)
EBP	Encoder Boundary Point
EIDR	Entertainment Identifier Registry (CableLabs sponsored registry for TV & movie programming)
ENC	Encoder
ES	Elementary Stream
ESAM	Event Signaling and Messaging
GOP	Group of Pictures
GPFS	General Parallel File System
GUI	Graphical User Interface
HDS	HTTP Dynamic Streaming (Adobe)
HD	High Definition
HLS	HTTP Live Streaming (Apple)
HRD	Hypothetical Reference Decoder
HTTP	Hypertext Transfer Protocol
IAB	Interactive Advertising Bureau
IDR	Instantaneous Decoder Refresh
I-Frame	Intracoded compression picture frame
IIS	Internet Information Services (Microsoft based)
JIT	Just-in-time (RGB term)
JITP	Just-in-time Packaging (RGB term)
KMS	Key Management Server
MBR	Multi-Bit Rate
MSS	Microsoft Smooth Streaming (HTTP based)
NAS	Network Attached Storage
nDVR	Network cloud-based digital video recording
NFS	Network File System (Linux based)
NTP	Network Time Protocol
PAT	Program Association Table
PCM	Pulse Code Modulation
PCR	Program Clock Reference
PES	Packetized Elementary Stream
P-Frame	Predicted compression picture frame
PID	Packet ID
PMT	Program Map Table
PO	Placement Opportunity (aka. ad-break, avail)
POIS	Placement Opportunity Information Service
PRRS	Playlist Rebuilder, Redirection Server (Now referred to as PS)
PS	Playlist Server (formerly referred to as PRRS)

Table 2. Video Processing and Adaptive Bitrate Streaming Acronyms

Acronym	Meaning
PTS	Presentation Time Stamp
RTMP	Real Time Messaging Protocol
SAP	Stream Access Point
SD	Standard Definition
SIS	Subscriber Information Service
SSM	Source Specific Multicast
TAC	TransAct Commander (RGB)
TAP	TransAct <i>Packager</i> (RGB)
TAT	TransAct Encoder/Transcoder (RGB)
TS	Transport Stream
UDP	User Datagram Protocol
URI	Universal Resource Identifier (contains URL & URN)
URL	Universal Resource Locator (always a URI)
URN	Universal Resource Name (not necessarily a URI)
UPID	Unique Program ID
UUID	Universally Unique Identifier (See RFC 4122)
VAST	Video Ad Serving Template
VES	Video Elementary Stream
VMG	Video Multiprocessing Gateway (RGB)
VOD	Video on Demand
XML	Extensible Markup Language
XML-RPC	Extensible Markup Language - Remote Procedure Call

Overview

This chapter provides information about developing applications that access the RGB TransAct *Packager* software using its XML-RPC Application Programming Interface (API).



Note: Several acronyms are used throughout this chapter. You may wish to refer to [Table 2, “Video Processing and Adaptive Bitrate Streaming Acronyms,”](#) on [page 11](#) for their meanings.

In This Chapter:

- “Application Development with RGB TransAct Software,” next.
- “XML-RPC Basics” on [page 15](#).

Application Development with RGB TransAct Software

Applications can be developed to access TransAct *Packager* software using the XML-RPC API. XML-RPC is a specification with a set of implementations that allow software running on disparate operating systems to make HTTP transport procedure calls using XML encoding over the Internet. XML-RPC is designed for simple ease of use while allowing for the transmission, processing, and receipt of complex data structures.

The TransAct *Packager* API (*TAP API*) provides XML-RPC¹ bindings that can be executed using a variety of scripting and programming languages, including Shell, Perl, PHP, Java, JavaScript, C, C++ and VisualBasic.



Note: *Packager* software is built on a Linux operating system. All references to directories and commands within the *Packager* application are based on the command line interface (CLI) and require a solid familiarity with Linux tools.

Overall, the *TAP API* is separated into three main method branches:

- **configuration**—methods used to configure inputs and streams, manage inbound and outbound directories, and configure workflows for linear and JIT packaging.
- **sysconfig**—methods used to manage network settings, user accounts, key servers, and system maintenance, such as software upgrades.
- **reports**—methods used to manage logs, events, and monitor system statistics.

1. The *TAP API* uses HTTP-POST requests in the XML-RPC message. The body of the request and the response are formatted in XML. Refer to <http://www.xmlrpc.com/spec> for information about the XML-RPC specification.

XML-RPC Basics

The basics of XML-RPC are fairly simple and briefly described in this section.

Call / Response Methods

In essence, XML-RPC consists of two types of communication: *Method Calls* and *Method Responses*. A method call uses HTTP-POST to send an XML nested value request to the *Packager* application to set and/or return values. A method response contains the nested XML response of the information requested from the method call.

Below is a sample method call for viewing input group configuration.

Table 3. Method Call Sample — configuration.input.group.show

Method Call Sample
<pre> <?xml version="1.0"?> <methodCall> <methodName>configuration.input.group.show</methodName> <params> <param> <value> <string>admin</string> </value> </param> <param> <value> <string>ripcode!</string> </value> </param> <param> <value> <int>1</int> </value> </param> </params> </methodCall> </pre>

Below is the sample method response from the show input group method call above.



Note: *Method responses do not contain the name of the method call.*

Table 4. Method Response Sample — configuration.input.group.show

Method Response XML Code
<pre> <?xml version="1.0"?> <methodResponse>^a <params> <param> <value> <array> <data> <value> <struct> <member> <name>001:1:inputGID:Input Stream Group</name> <value> <i4>1</i4> </value> </member> <member> <name>002:1:name:Name</name> <value> <string>HD1_KXAN_NBC_7.101</string> </value> </member> <member> <name>003:1:inputStream:Input Stream</name> <value> <i4>1</i4> </value> </member> <member> <name>004:1:enabledCnt:Enabled</name> <value> <i4>1</i4> </value> </member> </struct> </value> </data> </array> </value> </param> </params> </pre>

```
        </value>
      </data>
    </array>
  </value>
</param>
</params>
</methodResponse>
```

- a. Note that the API method name is not included in method responses.

Multi-call Requests

Multi-call requests can run several methods at a time. Generally, one method call is issued at a time, but certain APIs can make use of multi-call commands; this depends on the script used to parse the XML data, which can be written in various coding languages.

Various API tools are capable of monitoring multi-calls; if you are using one of these tools you will see the `sysconfig.multicall` method, which is issued automatically at regular intervals for the *Packager* GUI as a keep-alive signal.

Multi-call commands are outside the scope of this user guide and are therefore not described herein.

SSL vs. Non-SSL Modes

RGB's XML-RPC server will run in either SSL² or non-SSL mode. When running in SSL mode, *all* exchanges between client and server will be encrypted.

Formulating Method Calls to Expected Number of Parameters

When formulating method calls, it is important to understand that the method call you create must match the expected number of parameters.

For example, the tables below depict the `configuration.output.directory.add` method call, which, for this release, contains 15 parameters (Table A). As can be seen in the **Usage** column, only some of the 15 parameters are actually required for all types of directories created. Other parameters are contextual in that certain directory types may or may not require a particular parameter in order to function properly. Still other parameters are either inapplicable or have been deprecated. However, the formulated method call must still contain 15 parameters with either valid values or empty strings, regardless of a specific operator's deployment configuration (Table B).

XML-RPC expects to see placeholders for Params' 8-13. In the case of Table C, by using only 9 arguments (1-7 & 14-15) instead of the expected 15, parameters 14 and 15 would be seen as 8 and 9,

-
2. Secure sockets layer is an Internet protocol that uses two cryptographic keys for transmitting data: a public key (known to everyone) and a private key (known only to the recipient). SSL requires that the URL employing the protocol begin with *https* instead of *http*.

and, as far as XML-RPC is concerned, parameters 10-15 are not present. This will not result in a successful method call.

Table A: Expected Method Call Parameters

Param #	Param Name	Param Type	Usage
1	username	string	required
2	password	string	required
3	dirname	string	required
4	fsType	integer	required
5	host	string	required
6	remoteDir	string	contextual
7	mountOps	string	contextual
8	usage	integer	deprecated
9	sourceDelete	integer	n/a
10	priority	integer	n/a
11	remoteDomain	string	contextual
12	remoteUser	string	contextual
13	remotePassword	string	contextual
14	localDirSize	integer	contextual
15	loopDevice	integer	contextual

Table B: User Configured Parameters - Correct

Param #	Param Name	Param Type	Usage
1	username	admin	required
2	password	ripcodet	required
3	dirname	nfs10	required
4	fsType	1	required
5	host	10.10.88.15	required
6	remoteDir	/data/nfs10	contextual
7	mountOps	soft,vers=3	contextual
8	usage	0	deprecated
9	sourceDelete	0	n/a
10	priority	1	n/a
11	remoteDomain	Empty	contextual
12	remoteUser	Empty	contextual
13	remotePassword	Empty	contextual
14	localDirSize	10	contextual
15	loopDevice	300	contextual

Table C: User Configured Parameters - Incorrect

Param #	Param Name	Param Type	Usage
1	username	admin	required
2	password	ripcodet	required
3	dirname	nfs10	required
4	fsType	1	required
5	host	10.10.88.15	required
6	remoteDir	/data/nfs10	contextual
7	mountOps	soft,vers=3	contextual
14	localDirSize	10	contextual
15	loopDevice	300	contextual

More Information

More information about coding with XML-RPC and for various environments can be found at the links below:

<http://www.xmlrpc.com/spec> for more information

<http://www.faqs.org/docs/Linux-HOWTO/XML-RPC-HOWTO.html>

Release Differential

This chapter provides API method call differences between the prior release of *Packager* (Release 5.3) and the current release (Release 5.4).

In This Chapter:

- “New Supported APIs for Release 5.4,” next.
- “Modified Frequently Used APIs for Release 5.4” on page 19.
- “Deprecated Frequently Used APIs from Release 5.3” on page 20.

New Supported APIs for Release 5.4

The following new APIs are supported in Release 5.4¹:



Note: The new API methods listed above are not described in [Chapter 4, “Frequently Used APIs”](#). If you require a full description of the API (including parameters and method calls / responses), please contact RGB Customer Support.

Modified Frequently Used APIs for Release 5.4

The following frequently used APIs (as listed in [Chapter 4, “Frequently Used APIs”](#)) have been modified with either new fields or different functionality for Release 5.4.



Note: This list does not contain all APIs that have been changed for the entire system; rather, it contains changes to the affected APIs described in this manual.

configuration.audiomap.add / modify / show

Affected fields:

1. `audioBitrate_low` — range change. Up to 24500000 bps now.
2. `audioBitrate_high` — range change. Up to 24500000 bps now.

configuration.input.directory.add / modify / show

Affected fields:

1. `fsType` — added new file type of GPFS (5)

1. This list does *not* include existing APIs with new fields; it only contains new supported API method calls that were not in prior releases.

configuration.jitp.profile.modify

Affected fields:

1. `keyServerVendor` — added KPN (16) option
2. `keyRotation` — new field

configuration.output.directory.add / modify / show

Affected fields:

1. `fsType` — added new file type of GPFS (5)

configuration.package.add / modify

Affected fields:

1. `redundancyPeer` — new field
2. `keyServerVendor` — added KPN (16) option

sysconfig.keyserver.add / modify / show

Affected fields:

1. `keyServerVendor` — added KPN (16) option

sysconfig.license.update

New method call added to document.

Deprecated Frequently Used APIs from Release 5.3

For Release 5.4 the following APIs have been removed:

sysconfig.redundancy.add

All redundancy configuration is now done from the `configuration.package` menu.

sysconfig.redundancy.configure

All redundancy configuration is now done from the `configuration.package` menu.

sysconfig.redundancy.remove

All redundancy configuration is now done from the `configuration.package` menu.

sysconfig.redundancy.show

All redundancy configuration is now done from the `configuration.package` menu.

Frequently Used APIs

This chapter contains a list of most frequently used APIs, including a sample call request and a sample call response for each method. A brief description is provided for each API listing, followed by a table (if relevant) containing numeric value inputs for a variable field. For a complete description of usage and fields for a particular API call, please refer to the *TransAct Packager User Guide, Release 5.4*.

For ease of navigation, the APIs described in this chapter are listed in alphabetical order rather than the order in which *Packager* must be configured.

In This Chapter:

1. "configuration.audiomap.add," next.
2. "configuration.audiomap.rule.add" on page 23.
3. "configuration.audiomap.rule.modify" on page 28.
4. "configuration.audiomap.show" on page 30.
5. "configuration.input.group.add" on page 35.
6. "configuration.input.group.remove" on page 39.
7. "configuration.input.group.show" on page 41.
8. "configuration.input.group.stream.add" on page 55.
9. "configuration.input.group.stream.redetect" on page 64.
10. "configuration.input.group.stream.show" on page 66.
11. "configuration.jitp.profile.add" on page 72.
12. "configuration.jitp.profile.modify" on page 73.
13. "configuration.jitp.profile.show" on page 77.
14. "configuration.jitp.source.server.add" on page 88.
15. "configuration.output.directory.add" on page 93.
16. "configuration.output.directory.remove" on page 99.
17. "configuration.output.directory.show" on page 100.
18. "configuration.output.format.dash.modify" on page 104.
19. "configuration.output.format.hls.modify" on page 106.
20. "configuration.package.add" on page 112.
21. "configuration.package.remove" on page 130.
22. "configuration.package.show" on page 131.
23. "configuration.package.start" on page 142.
24. "configuration.package.stop" on page 144.
25. "configuration.session.show" on page 146.
26. "sysconfig.database.threshold.set" on page 159.
27. "sysconfig.keyserver.add" on page 161.
28. "sysconfig.keyserver.remove" on page 166.
29. "sysconfig.keyserver.show" on page 168.
30. "sysconfig.license.update" on page 177.
31. "sysconfig.restart" on page 179.

1. configuration.audiomap.add

This method adds an audio map template. Up to eight (8) audio map rules can be applied per template.

Method Help Text

Help:

This method adds an audio mapping rule set for use in workflows

Return Value

Return:

nil

Parameter Descriptors (3)

Refer to [Table 1](#) for a complete list of parameter descriptors.

Table 1. config.audiomap.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
name	string	n/a	Enter a name that will define the audio map template (up to 23 characters).

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.audiomap.add</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>any</string>
      </value>
    </param>
  </params>
```

```
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

2. configuration.audiomap.rule.add

This method adds an audio map rule to an audio map template. A rule consists of several configurable input audio conditions that, when met, will produce a specified output audio publishing option. Audio map rules are applied on an exclusive basis, which means that once the rule conditions are met for the highest priority rule, no further rules are processed for the matching input audio track.

Method Help Text

Help:

This method adds a rule to determine how an output audio track will be published when all specified input audio conditions are met.

NOTE: If package-level redundancy is in use, all parameters in this menu, including the rule Name, must match on both Packagers in the same N+1 redundancy group.

Return Value

Return:

nil

Parameter Descriptors (11)

Refer to [Table 2](#) for a complete list of parameter descriptors.

Table 2. config.audiomap.rule.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
name	string	n/a	Enter name of the audio map template for which to create or modify the rule (up to 23 characters).

Table 2. config.audiomap.rule.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
priority	integer	1 = 1 (highest priority) 2 = 2 3 = 3 4 = 4 5 = 5 6 = 6 7 = 7 8 = 8 (lowest priority)	Enter the Numeric Selector representing the order in which rules are evaluated against the audio input tracks, 1 being the first (or highest priority) and 8 being the last (or lowest). Once a rule matches an audio track, no subsequent rules will be evaluated. <i>Note:</i> Priority should be configured from most specific audio characteristics (highest priority) to least specific audio characteristics (lower priority). <i>Note:</i> If the priority you select is in use, then all rule priorities will be shifted down priority level when changes are submitted. For example, assume audiomaps “alpha,” “bravo,” and “charlie” are listed as priorities 1, 2, and 3 respectively. Now assume you wish to add “foxtrot” at rule priority #1. This means that “alpha” shifts to priority 2, “bravo” shifts to priority 3, and “charlie” shifts to priority 4.
exclusive	integer	0 = false 1 = true	Not used for <i>Packager</i>
inCodec	integer	0 = any (rule will apply for any audio codec provided it matches all other conditions) 2 = Advanced Audio Coding Low-Complexity (AAC-LC) 11 = Advanced Audio Coding Low-Complexity + SBR (AAC-HE) 12 = Dolby Digital(AC-3) 13 = MPEG-2.5 Audio Layer 3 14 = Advanced Audio Coding Low-Complexity + SBR + PS (AAC-HEv2) 30 = Dolby Digital Plus (E-AC-3)	Enter the <i>Numeric Selector</i> representing the input codec to which this rule will apply.
inChannels	integer	0 = any 1 = mono 2 = stereo 6 = 5.1surround	Enter the <i>Numeric Selector</i> representing the number of input channels to which this rule will apply.

Table 2. config.audiomap.rule.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
audioBitrate_low	integer	0 to 640000	Enter the lowest input audio bit rate for which the rule will apply. Acceptable value is any number between 0 and 24500000 bps. <i>Note:</i> If you want the rule to apply to an input track of any bit rate range, enter 0 here and 24500000 in the Audio Bitrate High field.
audioBitrate_high	integer	8000 to 640000	Enter the highest input audio bit rate for which the rule will apply. Acceptable value is any number between 8000 and 24500000 bps. <i>Note:</i> If you want the rule to apply to an input track of any bit rate range, enter 24500000 here and 0 in the Audio Bitrate Low field.
language	string	n/a	Enter the language of the audio track for which this rule will apply. This field may contain only 3 characters and must comply to the ISO639-2 language code standard. The code "any" is a valid entry option and will apply the rule to an audio track of any language.
outAudioTrack	integer	0 = Primary 2 = Primary+AudioOnly 4 = AudioOnly 3 = Drop	Enter the <i>Numeric Selector</i> representing the type of audio output that will be published when all input conditions have been met.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.audiomap.rule.add</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
```

```
        <string>any</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>640000</int>
      </value>
    </param>
    <param>
      <value>
        <string>any</string>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
```

```
<params>
  <param>
    <value>
      <string>Operation successful.</string>
    </value>
  </param>
</params>
</methodResponse>
```

3. configuration.audiomap.rule.modify

This method allows you to modify a previously created audio map rule.

Method Help Text

Help:

This method modifies a rule to determine how an output audio track will be published when all specified input audio conditions are met.

NOTE: If package-level redundancy is in use, all parameters in this menu, including the rule Name, must match on both Packagers in the same N+1 redundancy group.

Return Value

Return:

nil

Parameter Descriptors (11)

Refer to [Table 2](#) for a complete list of parameter descriptors.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.audiomap.rule.modify</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>all</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
```

```
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>640000</int>
      </value>
    </param>
    <param>
      <value>
        <string>eng</string>
      </value>
    </param>
    <param>
      <value>
        <int>2</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

4. configuration.audiomap.show

This method shows current audio map template and rule configuration.

Method Help Text

Help:

This method displays audio mapping rule sets for use in workflows

Return Value

Return:

nil

Parameter Descriptors (3)

Refer to [Table 3](#) for a complete list of parameter descriptors.

Table 3. configuration.audiomap.show API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
name	string	n/a	Enter the name of the audio map for which to show values (up to 23 characters).

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.audiomap.show</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string/>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:name:Name</name>
                  <value>
                    <string>aac_eng_Prm_all_Alt</string>
                  </value>
                </member>
                <member>
                  <name>002:1:rules:rules</name>
                  <value>
                    <array>
                      <data>
                        <value>
                          <struct>
                            <member>
                              <name>001:1:priority:Priority</name>
                              <value>
                                <i4>1</i4>
                              </value>
                            </member>
                            <member>
                              <name>003:1:input:Input</name>
                              <value>
                                <struct>
                                  <member>
                                    <name>001:1:inCodec:Input Codec</name>
                                    <value>
                                      <string>aac_lc(2)</string>
                                    </value>
                                  </member>
                                  <member>
                                    <name>002:1:inChannels:Input Channels</
name>
                                <value>
                                  <string>any(0)</string>
                                </value>
                              </member>
                              <member>
                                <name>003:1:audioBitrate_low:Audio Bitrate
Low</name>
```

```

    <value>
      <i4>64000</i4>
    </value>
  </member>
  <member>
    <name>004:1:audioBitrate_high:Audio
Bitrate High</name>
    <value>
      <i4>128000</i4>
    </value>
  </member>
  <member>
    <name>005:1:language:Language</name>
    <value>
      <string>eng</string>
    </value>
  </member>
</struct>
</value>
</member>
<member>
  <name>004:1:outAudioTrack:Output Publishing
Type</name>
  <value>
    <string>Primary(0)</string>
  </value>
</member>
</struct>
</value>
</data>
</array>
</value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:name:Name</name>
      <value>
        <string>all</string>
      </value>
    </member>
    <member>
      <name>002:1:rules:rules</name>
      <value>
        <array>
          <data>
            <value>
              <struct>

```

```
<member>
  <name>001:1:priority:Priority</name>
  <value>
    <i4>1</i4>
  </value>
</member>
<member>
  <name>003:1:input:Input</name>
  <value>
    <struct>
      <member>
        <name>001:1:inCodec:Input Codec</name>
        <value>
          <string>any(0)</string>
        </value>
      </member>
      <member>
        <name>002:1:inChannels:Input Channels</
name>
        <value>
          <string>any(0)</string>
        </value>
      </member>
      <member>
        <name>003:1:audioBitrate_low:Audio Bitrate
Low</name>
        <value>
          <i4>0</i4>
        </value>
      </member>
      <member>
        <name>004:1:audioBitrate_high:Audio
Bitrate High</name>
        <value>
          <i4>640000</i4>
        </value>
      </member>
      <member>
        <name>005:1:language:Language</name>
        <value>
          <string>eng</string>
        </value>
      </member>
    </struct>
  </value>
</member>
<member>
  <name>004:1:outAudioTrack:Output Publishing
Type</name>
  <value>
```

```

        <string>Primary+AudioOnly(2)</string>
      </value>
    </member>
  </struct>
</value>
</array>
</value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:name:Name</name>
      <value>
        <string>any</string>
      </value>
    </member>
    <member>
      <name>002:1:rules:rules</name>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:priority:Priority</name>
                  <value>
                    <i4>1</i4>
                  </value>
                </member>
                <member>
                  <name>003:1:input:Input</name>
                  <value>
                    <struct>
                      <member>
                        <name>001:1:inCodec:Input  Codec</name>
                        <value>
                          <string>any(0)</string>
                        </value>
                      </member>
                      <member>
                        <name>002:1:inChannels:Input  Channels</
name>
                        <value>
                          <string>any(0)</string>
                        </value>
                      </member>
                    </struct>
                  </value>
                </member>
              </struct>
            </data>
          </array>
        </value>
      </member>
    </struct>
  </value>
</member>
</struct>
</value>

```

```
Low</name>                                <name>003:1:audioBitrate_low:Audio Bitrate
                                           <value>
                                           <i4>0</i4>
                                           </value>
                                           </member>
                                           <member>
                                           <name>004:1:audioBitrate_high:Audio
Bitrate High</name>
                                           <value>
                                           <i4>640000</i4>
                                           </value>
                                           </member>
                                           <member>
                                           <name>005:1:language:Language</name>
                                           <value>
                                           <string>any</string>
                                           </value>
                                           </member>
                                           </struct>
                                           </value>
                                           </member>
                                           <member>
                                           <name>004:1:outAudioTrack:Output Publishing
Type</name>
                                           <value>
                                           <string>Primary(0)</string>
                                           </value>
                                           </member>
                                           </struct>
                                           </value>
                                           </data>
                                           </array>
                                           </value>
                                           </member>
                                           </struct>
                                           </value>
                                           </data>
                                           </array>
                                           </value>
                                           </param>
                                           </params>
</methodResponse>
```

5. configuration.input.group.add

This method adds an input group, which is used for configuring live input streams.

Method Help Text

Help:

This method creates a group of input streams.

Return Value

Return:

int:The DB return code

Parameter Descriptors (3)

Refer to [Table 4](#) for a complete list of parameter descriptors.

Table 4. configuration.input.group.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
name	string	n/a	Enter an identifier for the group, up to 40 characters. Only use alpha-numeric characters, periods, underscores, or hyphens.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.input.group.add</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>HD1_KXAN_NBC_7.101</string>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <struct>
          <member>
            <name>001:1:inputGID:Input Stream Group</name>
            <value>
              <i4>1</i4>
            </value>
          </member>
          <member>
            <name>002:1:name:Name</name>
            <value>
              <string>HD1_KXAN_NBC_7.101</string>
            </value>
          </member>
          <member>
            <name>003:1:inputID1:Input Stream ID</name>
            <value>
              <i4>0</i4>
            </value>
          </member>
          <member>
            <name>004:1:inputID2:Input Stream ID</name>
            <value>
              <i4>0</i4>
            </value>
          </member>
          <member>
            <name>005:1:inputID3:Input Stream ID</name>
            <value>
              <i4>0</i4>
            </value>
          </member>
          <member>
            <name>006:1:inputID4:Input Stream ID</name>
            <value>
              <i4>0</i4>
            </value>
          </member>
          <member>
            <name>007:1:inputID5:Input Stream ID</name>
            <value>
              <i4>0</i4>
            </value>
          </member>
        </struct>
      </value>
    </param>
  </params>
</methodResponse>
```

```
<member>
  <name>008:1:inputID6:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>009:1:inputID7:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>010:1:inputID8:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>011:1:inputID9:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>012:1:inputID10:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>013:1:inputID11:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>014:1:inputID12:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>015:1:inputID13:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>016:1:inputID14:Input Stream ID</name>
```

```

        <value>
          <i4>0</i4>
        </value>
      </member>
    <member>
      <name>017:1:inputID15:Input Stream ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>018:1:inputID16:Input Stream ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
  </struct>
</value>
</param>
</params>
</methodResponse>

```

6. configuration.input.group.remove

This method deletes an existing input group that was created for live streaming inputs.

Method Help Text

Help:

This method removes an input group.

Return Value

Return:

int:DB return code

Parameter Descriptors (3)

Refer to [Table 5](#) for a complete list of parameter descriptors.

Table 5. configuration.input.group.remove API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name

Table 5. configuration.input.group.remove API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
password	string	n/a	Enter user password
inputGID	integer	Refer to “ configuration.input.group.show ” on page 41 to view currently assigned Group ID numbers.	Enter the identifier assigned to the input stream group that you wish to remove.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.input.group.remove</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

7. configuration.input.group.show

This method returns values for one or all existing live streaming input groups.

Method Help Text

Help:

This method shows an input group.

Return Value

Return:

nil

Parameter Descriptors (3)

Refer to [Table 1](#) for a complete list of parameter descriptors.

Table 6. configuration.input.group.show API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
inputGID	integer	0 = show all groups	Enter the identifier assigned to the input stream group that you wish to view.

Sample Request - only one stream selected

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.input.group.show</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>riptide!</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response - only one stream returned

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:inputGID:Input Stream Group</name>
                  <value>
                    <i4>1</i4>
                  </value>
                </member>
                <member>
                  <name>002:1:name:Name</name>
                  <value>
                    <string>HD1_KTBC_Fox_6.101</string>
                  </value>
                </member>
                <member>
                  <name>003:1:inputStream:Input Stream</name>
                  <value>
                    <array>
                      <data>
                        <value>
                          <struct>
                            <member>
                              <name>001:1:index:Index</name>
                              <value>
                                <i4>1</i4>
                              </value>
                            </member>
                            <member>
                              <name>002:1:pubVidBitRate:Publishing Video Bit
Rate</name>
                              <value>
                                <i4>0</i4>
                              </value>
                            </member>
                            <member>
                              <name>003:1:monitorOnly:Monitor Only</name>
                              <value>
                                <string>>false(0)</string>
                              </value>
                            </member>
                            <member>
```

```
<name>005:1:inputID:Input ID</name>
<value>
  <i4>2</i4>
</value>
</member>
<member>
  <name>006:1:name:Name</name>
  <value>
    <string>768x432</string>
  </value>
</member>
<member>
  <name>007:1:host:Host</name>
  <value>
    <string>234.5.6.101</string>
  </value>
</member>
<member>
  <name>008:1:port:Port</name>
  <value>
    <i4>10002</i4>
  </value>
</member>
<member>
  <name>009:1:interface:Interface</name>
  <value>
    <string>any</string>
  </value>
</member>
<member>
  <name>010:1:castType:IP Cast Type</name>
  <value>
    <string>multicast</string>
  </value>
</member>
<member>
  <name>011:1:mcastSource1:IGMPv3 Source IP 1</
name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>012:1:mcastSource2:IGMPv3 Source IP 2</
name>
  <value>
    <string/>
  </value>
</member>
</member>
```

```
name>                                <name>013:1:mcastSource3:IGMPv3 Source IP 3</
                                     <value>
                                     <string/>
                                     </value>
                                     </member>
                                     <member>
                                     <name>014:1:mcastSource4:IGMPv3 Source IP 4</
name>                                <value>
                                     <string/>
                                     </value>
                                     </member>
                                     <member>
                                     <name>015:1:protocol:Protocol</name>
                                     <value>
                                     <string>udp(4)</string>
                                     </value>
                                     </member>
                                     <member>
                                     <name>016:1:container:Container Format</name>
                                     <value>
                                     <string>mpeg2_ts(3)</string>
                                     </value>
                                     </member>
                                     <member>
                                     <name>017:1:operState:Operational State</name>
                                     <value>
                                     <string>enabled(2)</string>
                                     </value>
                                     </member>
                                     <member>
                                     <name>018:3:Configuration:Configuration</name>
                                     <value>
                                     <struct>
                                     <member>
                                     <name>001:3:program:Program</name>
                                     <value>
                                     <i4>1</i4>
                                     </value>
                                     </member>
                                     <member>
                                     <name>002:3:videoPID:Video PID</name>
                                     <value>
                                     <i4>101</i4>
                                     </value>
                                     </member>
                                     <member>
                                     <name>003:3:audioPID:Audio PID</name>
                                     <value>
```

```
        <i4>102</i4>
      </value>
    </member>
    <member>
      <name>004:3:passData:Pass Data PIDs</name>
      <value>
        <string>>false(0)</string>
      </value>
    </member>
    <member>
      <name>005:3:autoDetect:Auto Detect</name>
      <value>
        <string>>false(0)</string>
      </value>
    </member>
  </struct>
</value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:index:Index</name>
      <value>
        <i4>2</i4>
      </value>
    </member>
    <member>
      <name>002:1:pubVidBitRate:Publishing Video Bit
Rate</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>003:1:monitorOnly:Monitor Only</name>
      <value>
        <string>>false(0)</string>
      </value>
    </member>
    <member>
      <name>005:1:inputID:Input ID</name>
      <value>
        <i4>3</i4>
      </value>
    </member>
    <member>
      <name>006:1:name:Name</name>
      <value>
```

```
        <string>640x360</string>
      </value>
    </member>
    <member>
      <name>007:1:host:Host</name>
      <value>
        <string>234.5.6.101</string>
      </value>
    </member>
    <member>
      <name>008:1:port:Port</name>
      <value>
        <i4>10003</i4>
      </value>
    </member>
    <member>
      <name>009:1:interface:Interface</name>
      <value>
        <string>any</string>
      </value>
    </member>
    <member>
      <name>010:1:castType:IP Cast Type</name>
      <value>
        <string>multicast</string>
      </value>
    </member>
    <member>
      <name>011:1:mcastSource1:IGMPv3 Source IP 1</
name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>012:1:mcastSource2:IGMPv3 Source IP 2</
name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>013:1:mcastSource3:IGMPv3 Source IP 3</
name>
      <value>
        <string/>
      </value>
    </member>
  </member>
```

```
name>                                <name>014:1:mcastSource4:IGMPv3 Source IP 4</
<value>
  <string/>
</value>
</member>
<member>
  <name>015:1:protocol:Protocol</name>
  <value>
    <string>udp(4)</string>
  </value>
</member>
<member>
  <name>016:1:container:Container Format</name>
  <value>
    <string>mpeg2_ts(3)</string>
  </value>
</member>
<member>
  <name>017:1:operState:Operational State</name>
  <value>
    <string>enabled(2)</string>
  </value>
</member>
<member>
  <name>018:3:Configuration:Configuration</name>
  <value>
    <struct>
      <member>
        <name>001:3:program:Program</name>
        <value>
          <i4>1</i4>
        </value>
      </member>
      <member>
        <name>002:3:videoPID:Video PID</name>
        <value>
          <i4>101</i4>
        </value>
      </member>
      <member>
        <name>003:3:audioPID:Audio PID</name>
        <value>
          <i4>102</i4>
        </value>
      </member>
      <member>
        <name>004:3:passData:Pass Data PIDs</name>
        <value>
          <string>>false(0)</string>
```

```
        </value>
      </member>
    <member>
      <name>005:3:autoDetect:Auto Detect</name>
      <value>
        <string>>false(0)</string>
      </value>
    </member>
  </struct>
</value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:index:Index</name>
      <value>
        <i4>3</i4>
      </value>
    </member>
    <member>
      <name>002:1:pubVidBitRate:Publishing Video Bit
Rate</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>003:1:monitorOnly:Monitor Only</name>
      <value>
        <string>>false(0)</string>
      </value>
    </member>
    <member>
      <name>005:1:inputID:Input ID</name>
      <value>
        <i4>4</i4>
      </value>
    </member>
    <member>
      <name>006:1:name:Name</name>
      <value>
        <string>512x288</string>
      </value>
    </member>
    <member>
      <name>007:1:host:Host</name>
      <value>
        <string>234.5.6.101</string>
```

```
        </value>
      </member>
    <member>
      <name>008:1:port:Port</name>
      <value>
        <i4>10004</i4>
      </value>
    </member>
    <member>
      <name>009:1:interface:Interface</name>
      <value>
        <string>any</string>
      </value>
    </member>
    <member>
      <name>010:1:castType:IP Cast Type</name>
      <value>
        <string>multicast</string>
      </value>
    </member>
    <member>
      <name>011:1:mcastSource1:IGMPv3 Source IP 1</
name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>012:1:mcastSource2:IGMPv3 Source IP 2</
name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>013:1:mcastSource3:IGMPv3 Source IP 3</
name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>014:1:mcastSource4:IGMPv3 Source IP 4</
name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>015:1:protocol:Protocol</name>
```

```
<value>
  <string>udp(4)</string>
</value>
</member>
<member>
  <name>016:1:container:Container Format</name>
  <value>
    <string>mpeg2_ts(3)</string>
  </value>
</member>
<member>
  <name>017:1:operState:Operational State</name>
  <value>
    <string>enabled(2)</string>
  </value>
</member>
<member>
  <name>018:3:Configuration:Configuration</name>
  <value>
    <struct>
      <member>
        <name>001:3:program:Program</name>
        <value>
          <i4>1</i4>
        </value>
      </member>
      <member>
        <name>002:3:videoPID:Video PID</name>
        <value>
          <i4>101</i4>
        </value>
      </member>
      <member>
        <name>003:3:audioPID:Audio PID</name>
        <value>
          <i4>102</i4>
        </value>
      </member>
      <member>
        <name>004:3:passData:Pass Data PIDs</name>
        <value>
          <string>>false(0)</string>
        </value>
      </member>
      <member>
        <name>005:3:autoDetect:Auto Detect</name>
        <value>
          <string>>false(0)</string>
        </value>
      </member>
    </struct>
  </value>
</member>
```

```
        </struct>
      </value>
    </member>
  </struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:index:Index</name>
      <value>
        <i4>4</i4>
      </value>
    </member>
    <member>
      <name>002:1:pubVidBitRate:Publishing Video Bit
Rate</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>003:1:monitorOnly:Monitor Only</name>
      <value>
        <string>>false(0)</string>
      </value>
    </member>
    <member>
      <name>005:1:inputID:Input ID</name>
      <value>
        <i4>5</i4>
      </value>
    </member>
    <member>
      <name>006:1:name:Name</name>
      <value>
        <string>1280x720_HD</string>
      </value>
    </member>
    <member>
      <name>007:1:host:Host</name>
      <value>
        <string>234.5.6.101</string>
      </value>
    </member>
    <member>
      <name>008:1:port:Port</name>
      <value>
        <i4>10005</i4>
      </value>
    </member>
  </struct>
</value>
```

```
<member>
  <name>009:1:interface:Interface</name>
  <value>
    <string>any</string>
  </value>
</member>
<member>
  <name>010:1:castType:IP Cast Type</name>
  <value>
    <string>multicast</string>
  </value>
</member>
<member>
  <name>011:1:mcastSource1:IGMPv3 Source IP 1</
name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>012:1:mcastSource2:IGMPv3 Source IP 2</
name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>013:1:mcastSource3:IGMPv3 Source IP 3</
name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>014:1:mcastSource4:IGMPv3 Source IP 4</
name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>015:1:protocol:Protocol</name>
  <value>
    <string>udp(4)</string>
  </value>
</member>
<member>
  <name>016:1:container:Container Format</name>
  <value>
    <string>mpeg2_ts(3)</string>
```

```
        </value>
      </member>
    <member>
      <name>017:1:operState:Operational State</name>
      <value>
        <string>enabled(2)</string>
      </value>
    </member>
    <member>
      <name>018:3:Configuration:Configuration</name>
      <value>
        <struct>
          <member>
            <name>001:3:program:Program</name>
            <value>
              <i4>1</i4>
            </value>
          </member>
          <member>
            <name>002:3:videoPID:Video PID</name>
            <value>
              <i4>101</i4>
            </value>
          </member>
          <member>
            <name>003:3:audioPID:Audio PID</name>
            <value>
              <i4>102</i4>
            </value>
          </member>
          <member>
            <name>004:3:passData:Pass Data PIDs</name>
            <value>
              <string>false(0)</string>
            </value>
          </member>
          <member>
            <name>005:3:autoDetect:Auto Detect</name>
            <value>
              <string>false(0)</string>
            </value>
          </member>
        </struct>
      </value>
    </member>
  </struct>
</value>
</data>
</array>
</value>
```

```
    </member>
    <member>
      <name>004:1:captureSettings:Capture Settings</name>
      <value>
        <struct>
          <member>
            <name>001:1:outputDir:Output Directory</name>
            <value>
              <i4>0</i4>
            </value>
          </member>
          <member>
            <name>002:1:Underrun:Underrun</name>
            <value>
              <string>>false(0)</string>
            </value>
          </member>
          <member>
            <name>003:1:Out-Of-Sync:Out-Of-Sync</name>
            <value>
              <string>>false(0)</string>
            </value>
          </member>
        </struct>
      </value>
    </member>
  </struct>
</value>
</data>
</array>
</value>
</param>
</params>
</methodResponse>
```

Sample Response - all streams selected

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:inputGID:Input Stream Group</name>
                  <value>
                    <i4>7</i4>
```

```
        </value>
      </member>
    <member>
      <name>002:1:name:Name</name>
      <value>
        <string>VMG6-1_KEYE_CBS</string>
      </value>
    </member>
    <member>
      <name>003:1:inputStream:Input Stream</name>
      <value>
        <i4>4</i4>
      </value>
    </member>
    <member>
      <name>004:1:enabledCnt:Enabled</name>
      <value>
        <i4>4</i4>
      </value>
    </member>
  </struct>
</value>
</data>
</array>
</value>
</param>
</params>
</methodResponse>
```

8. configuration.input.group.stream.add

This method allows you to add live streams for packaging input. Note that live input streams must be present and fully functional.

Method Help Text

Help:

This method adds a new input stream.

NOTE: Ensure the route table has proper static routes defined for multicast streams to be properly received.

NOTE: If package-level redundancy is in use, input stream characteristics must match on both Packagers in the same N+1 redundancy group.

Help:

NOTE: Ensure the route table has proper static routes defined for multicast streams to be properly received.

Return Value

Return:

```
struct:Added record.
```

Parameter Descriptors (20)

Refer to [Table 7](#) for a complete list of parameter descriptors.

Table 7. configuration.input.group.stream.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
inputGID	integer	Refer to “ configuration.input.group.add ” on page 35 for Group ID #.	Enter the group ID where the input stream will be added.
pubVidBitRate	integer	0 = As detected	Enter the video bit rate at which the stream will be published. Enter 0 (zero) to have <i>Packager</i> use the bit rate it detects from the input stream.
monitorOnly	integer	0 = false 1 = true	Enter the <i>Numeric Selector</i> representing true if the stream is only for monitoring and capturing, and <i>Packager</i> will not package the stream. Otherwise, enter the <i>Numeric Selector</i> representing false .
name	string	<i>Example:</i> InputStream_201	Enter an identifier for the inbound stream, up to 23 characters. Must contain only alphanumeric characters, periods, underscores and hyphens.
protocol	integer	4 = udp/rtp	Enter the <i>Numeric Selector</i> representing the IP protocol of the stream. For this release, only udp/rtp (User Datagram Protocol over Real-Time Transport Protocol) is supported for inbound streams.
castType	integer	0 = unicast 1 = multicast	Enter the <i>Numeric Selector</i> representing whether the stream is unicast (serves content to a single user at a time) or multicast (serves content simultaneously to multiple destinations).
host	string	<i>Example:</i> 232.24.24.200	<i>Applicable and required for multicast streams only.</i> ^{a b} Enter the destination multicast IP address where the stream will be published. Valid entries are: 224.0.0.1 – 239.255.255.254. Refer to iana.org for details. <i>Note:</i> If using Source Specific Multicasting (SSM), you <i>must</i> use only this range: 232.0.0.1 – 232.255.255.254.

Table 7. configuration.input.group.stream.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
port	integer	<i>Example:</i> 5000	For multicast, enter the UDP port (User Datagram Protocol) of the multicast source in a range of 1 – 65535. For unicast, enter the UDP port opened on the <i>Packager</i> to receive the input stream in a range of 10000–65535.
mcastSource1	string	n/a	For SSM only. Max length of 72 characters. Provide the <i>unicast</i> IP address of the source that is publishing the stream to the destination multicast IP (configured in the Host field). • Leave empty if you do not want to perform source filtering. • If using source-level redundancy, this unicast IP address must be unique from <i>IGMPv3 Source IP</i> 2, 3, and 4. <i>Note:</i> If using redundant IGMPv3 Source IPs 2, 3, or 4, the input sources must be identical (PIDs, program numbers, number of elementary streams, etc).
mcastSource2	string	n/a	For SSM source-level redundancy only. Max length of 72 characters. Provide the alternate unicast IP address of the source that is publishing the stream to the destination multicast IP (configured in the Host field). Leave empty if you do not want to perform source filtering. This unicast IP address must be unique from IGMPv3 Source IP 1, 3, and 4 <i>Note:</i> If using redundant IGMPv3 Source IPs 1, 3, or 4, the input sources must be identical (PIDs, program numbers, number of elementary streams, etc).
mcastSource3	string	n/a	For SSM source-level redundancy only. Max length of 72 characters. Provide the 2nd alternate <i>unicast</i> IP address of the source that is publishing the stream to the destination multicast IP (configured in the Host field). • Leave empty if you do not want to perform source filtering. • This unicast IP address must be unique from <i>IGMPv3 Source IP</i> 1, 2, and 4 <i>Note:</i> If using redundant IGMPv3 Source IPs 1, 2, or 4, the input sources must be identical (PIDs, program numbers, number of elementary streams, etc).

Table 7. configuration.input.group.stream.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
mcastSource4	string	n/a	For SSM source-level redundancy only. Max length of 72 characters. Provide the 3rd alternate <i>unicast</i> IP address of the source that is publishing the stream to the destination multicast IP (configured in the Host field). • Leave empty if you do not want to perform source filtering. • This unicast IP address must be unique from <i>IGMPv3 Source IP</i> 1, 2, and 3 Note: If using redundant IGMPv3 Source IPs 1, 2, or 3, the input sources must be identical (PIDs, program numbers, number of elementary streams, etc).
scte35StreamID	integer	1 to 9223372036854775806 blank = no ID specified 0 = same as blank	Enter the SCTE35 stream ID of the input program. The value is a 64-bit decimal string. Valid entries: blank = no SCTE35 stream ID specified Minimum: 1 Maximum: 9223372036854775806
interface	integer	255 = any interface 0 = eth0 interface 1 = eth1 interface 2 = eth2 interface etc...	Enter the network interface the Packager should use to receive the stream; choices include any or one of the currently available valid interfaces (dynamically populated). If any (255) is selected, Packager listens on all available interfaces and will configure the first available. If a specific interface is selected, Packager only listens on that interface.
format	integer	3 = mpeg2_ts	Enter the <i>Numeric Selector</i> representing the container format that will be received from the inbound stream. For this release, only MPEG2TS format can be received by <i>Packager</i>.
program	integer	0 to 65535	The number of the program channel within the multi-program stream that you want to target. • For SPTS, enter 0 (zero) to automatically determine the program numbers and track PIDs. • For MPTS, enter 0 (zero) to detect the stream. Note: In order to modify Program and PID values for an input stream, the stream must be active and detected by Packager.

Table 7. configuration.input.group.stream.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
videoPID	integer	-1 = all 0 = none	Enter the number of the video track in the program channel that you want to target. • Entering “-1” will select all tracks of the selected program. • Entering “0” means no video is desired. If <i>program</i> is set to 0 and SPTS is detected, the system will automatically select the first PID of the video track detected.
audioPID	integer	-1 = all 0 = none	Enter the number of the audio track in the program channel that you want to target. • Entering “-1” will select all tracks of the selected program. • Entering “0” means no audio is desired. If <i>program</i> is set to 0 and SPTS is detected, the system will automatically select PIDs of all audio tracks detected.
dataPID	string	-1 = all PIDs 1, 2, 3, 4, n = multiple PID numbers separated by commas	Enter the Packet ID of the data track in the input. The system will <i>drop</i> any data track that is not selected (unless -1 is entered). • To enter multiple tracks, separate each number with a comma (e.g., 4, 20, 30, 55, 244). • To pass all data tracks for the program, enter -1 • To discard these tracks during packaging, leave the field empty. (This field is ignored if <i>program</i> is "0".) Note: If performing ad insertion and POIS has been enabled on the system, this field must be set to -1 or the specific value of the desired Data PID in order to process MPEG sections that contain SCTE-35 signals.

- For *Host*: When configuring an input stream to use a multicast source that does not use the default gateway, a static route must be added to the multicast address. A static route can only exist for one interface (e.g., eth0 or eth1), to an IP address regardless of ports, and can have a mask that enables receiving a range of multicast addresses with a single route entry (e.g., 225.1.2.0/24 would apply to all multicast addresses from 225.1.2.1 to 225.1.2.255).
- For *Host*: The *Packager* has an internal implementation restriction that limits the number of static route entries to 9 per interface. Configure *Packager* to optimize the maximum number of input streams into minimal route entries.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.input.group.stream.add</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
  </params>
</methodCall>
```

```
    </value>
  </param>
  <param>
    <value>
      <string>ripcode!</string>
    </value>
  </param>
  <param>
    <value>
      <int>1</int>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
  <param>
    <value>
      <string>GroupB</string>
    </value>
  </param>
  <param>
    <value>
      <int>4</int>
    </value>
  </param>
  <param>
    <value>
      <int>1</int>
    </value>
  </param>
  <param>
    <value>
      <string>225.0.0.55</string>
    </value>
  </param>
  <param>
    <value>
      <int>4500</int>
    </value>
  </param>
  <param>
    <value>
      <string>224.0.0.25</string>
```

```
    </value>
  </param>
  <param>
    <value>
      <string>225.0.0.68</string>
    </value>
  </param>
  <param>
    <value>
      <string/>
    </value>
  </param>
  <param>
    <value>
      <string/>
    </value>
  </param>
  <param>
    <value>
      <string>546</string>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
  <param>
    <value>
      <int>3</int>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
  <param>
    <value>
      <int>-1</int>
    </value>
  </param>
  <param>
    <value>
      <int>-1</int>
    </value>
  </param>
  <param>
    <value>
      <string>-1</string>
```

```
        </value>
      </param>
    </params>
  </methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <struct>
          <member>
            <name>001:1:inputGID:Input Stream Group</name>
            <value>
              <i4>1</i4>
            </value>
          </member>
          <member>
            <name>002:1:name:Name</name>
            <value>
              <string>vmg3</string>
            </value>
          </member>
          <member>
            <name>003:1:inputID1:Input Stream ID</name>
            <value>
              <i4>1</i4>
            </value>
          </member>
          <member>
            <name>004:1:inputID2:Input Stream ID</name>
            <value>
              <i4>2</i4>
            </value>
          </member>
          <member>
            <name>005:1:inputID3:Input Stream ID</name>
            <value>
              <i4>0</i4>
            </value>
          </member>
          <member>
            <name>006:1:inputID4:Input Stream ID</name>
            <value>
              <i4>0</i4>
            </value>
          </member>
        </struct>
      </value>
    </param>
  </params>
</methodResponse>
```

```
<name>007:1:inputID5:Input Stream ID</name>
<value>
  <i4>0</i4>
</value>
</member>
<member>
  <name>008:1:inputID6:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>009:1:inputID7:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>010:1:inputID8:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>011:1:inputID9:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>012:1:inputID10:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>013:1:inputID11:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>014:1:inputID12:Input Stream ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>015:1:inputID13:Input Stream ID</name>
  <value>
```

```
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>016:1:inputID14:Input Stream ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>017:1:inputID15:Input Stream ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>018:1:inputID16:Input Stream ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
  </struct>
</value>
</param>
</params>
</methodResponse>
```

9. configuration.input.group.stream.redetect

This method forces the redetection of all incoming streams for the specified input.

Method Help Text

Help:

This method forces the redetection of an incoming input stream.
Note:
This operation effects all streams listening on the same stream input!

PROMPT_YESNO:WARNING: This operation effects all streams already detected
that share the same input! Continue?

Return Value

Return:

int:DB return code.

Parameter Descriptors (5)

Refer to [Table 8](#) for a complete list of parameter descriptors.

Table 8. configuration.input.group.stream.redetect API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
inputGID	integer	Refer to “ configuration.input.group.add ” on page 35 for Group ID #.	Enter the group ID where the input stream will be added.
streamID	integer	0 = all streams Refer to “ configuration.input.group.stream.show ” on page 66 to show stream IDs.	Enter the ID assigned to the stream by <i>Packager</i> .
detectDelay	integer	0 to 2147483647	The amount of time (in seconds) to delay connection with the stream before resuming attempts to reconnect (in 9 second increments). For example, if you’re aware that an input stream or group will be going out of service for a period of time, use this field to disable the stream input until it will be available once more.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.input.group.stream.redetect</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <int>2</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
  </params>
</methodCall>
```

```

        </value>
    </param>
    <param>
        <value>
            <int>0</int>
        </value>
    </param>
</params>
</methodCall>

```

Sample Response

```

<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
    <params>
        <param>
            <value>
                <string>Operation successful.</string>
            </value>
        </param>
    </params>
</methodResponse>

```

10. configuration.input.group.stream.show

This method shows all configured live streams for packaging input.

Method Help Text

Help:

This method retrieves info for a given stream.

Return Value

Return:

struct:The requested stream info

Parameter Descriptors (5)

Refer to [Table 9](#) for a complete list of parameter descriptors.

Table 9. configuration.input.group.stream.show API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password

Table 9. configuration.input.group.stream.show API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
inputGID	integer	Refer to “ configuration.input.group.add ” on page 35 for Group ID #.	Enter the group ID of the input stream to view.
streamID	integer	0 = all streams Refer to “ configuration.input.group.stream.show ” on page 66 to show stream IDs.	Enter the ID assigned to the stream by <i>Packager</i> .
Display	integer	0 = configuration 1 = statistics 2 = content	Enter the <i>Numeric Selector</i> representing the type of information you want to view. You can view stream configuration on the <i>Packager</i> (select configuration), statistics for a particular stream (select statistics), or stream properties including the program channels and audio/video in a stream (select content).

Sample Request - for configuration option (default)

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.input.group.stream.show</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <int>7</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
  </params>
</methodCall>
```

```
    </param>
  </params>
</methodCall>
```

Sample Response - displaying configuration option (default)

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:inputID:Input ID</name>
                  <value>
                    <i4>9</i4>
                  </value>
                </member>
                <member>
                  <name>002:1:name:Name</name>
                  <value>
                    <string>10001</string>
                  </value>
                </member>
                <member>
                  <name>003:1:host:Host</name>
                  <value>
                    <string>234.5.6.104</string>
                  </value>
                </member>
                <member>
                  <name>004:1:port:Port</name>
                  <value>
                    <i4>10001</i4>
                  </value>
                </member>
                <member>
                  <name>005:1:interface:Interface</name>
                  <value>
                    <string>em1</string>
                  </value>
                </member>
                <member>
                  <name>006:1:castType:IP Cast Type</name>
                  <value>
                    <string>multicast</string>
                  </value>
```

```
</member>
<member>
  <name>007:1:mcastSource1:IGMPv3 Source IP 1</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>008:1:mcastSource2:IGMPv3 Source IP 2</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>009:1:mcastSource3:IGMPv3 Source IP 3</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>010:1:mcastSource4:IGMPv3 Source IP 4</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>011:1:protocol:Protocol</name>
  <value>
    <string>udp(4)</string>
  </value>
</member>
<member>
  <name>012:1:container:Container Format</name>
  <value>
    <string>mpeg2_ts(3)</string>
  </value>
</member>
<member>
  <name>013:1:operState:Operational State</name>
  <value>
    <string>enabled(2)</string>
  </value>
</member>
<member>
  <name>014:3:Configuration:Configuration</name>
  <value>
    <struct>
      <member>
        <name>001:3:program:Program</name>
        <value>
```

```
        <i4>1</i4>
      </value>
    </member>
    <member>
      <name>002:3:videoPID:Video PID</name>
      <value>
        <i4>101</i4>
      </value>
    </member>
    <member>
      <name>003:3:audioPID:Audio PID</name>
      <value>
        <i4>-1</i4>
      </value>
    </member>
    <member>
      <name>004:3:passData:Pass Data PIDs</name>
      <value>
        <string>>false(0)</string>
      </value>
    </member>
    <member>
      <name>005:3:autoDetect:Auto Detect</name>
      <value>
        <string>>false(0)</string>
      </value>
    </member>
  </struct>
</value>
</member>
<member>
  <name>015:3:streamStatus:Detection Status</name>
  <value>
    <string>Stream detected</string>
  </value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:inputID:Input ID</name>
      <value>
        <i4>10</i4>
      </value>
    </member>
    <member>
      <name>002:1:name:Name</name>
      <value>
        <string>10002</string>
      </value>
    </member>
  </struct>
</value>
```

```
        </value>
      </member>
    <member>
      <name>015:3:streamStatus:Detection Status</name>
      <value>
        <string>Stream detected</string>
      </value>
    </member>
  </struct>
</value>
</data>
</array>
</value>
</param>
</params>
</methodResponse>
```

11. configuration.jitp.profile.add

This method adds a just-in-time packaging (JITP) profile table to *Packager*. JITP profile tables are used to determine whether an output format is allowed for packaging and how that format is handled.

Method Help Text

Help:

This method creates a JITP profile record.

Return Value

Return:

string:Status String.

Parameter Descriptors (3)

Refer to [Table 10](#) for a complete list of parameter descriptors.

Table 10. configuration.jitp.profile.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
profileName	string	n/a	Enter a name up to 255 characters to identify the profile.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.jitp.profile.add</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>all_2second_segments_unencrypt</string>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

12. configuration.jitp.profile.modify

This method allows you to modify either the default JITP profile table or any operator-configured profile tables.

Method Help Text

Help:

This method sets values for JITP profile Tables. Local asset cache will be flushed which may interrupt JITP sessions. Changes should be executed during a maintenance window.

PROMPT_YESNO:WARNING: Changing this table will cause the local asset cache to be flushed and may interrupt JITP sessions. Changes should be executed during a maintenance window! Continue?

Return Value

Return:

int:The DB return code

Parameter Descriptors (13)

Refer to [Table 11](#) for a complete list of parameter descriptors.

Table 11. configuration.jitp.profile.modify API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
profileName	string	n/a	Enter the name of the profile for which to make changes.

Table 11. configuration.jitp.profile.modify API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
packageType	integer	1 = Apple HTTP Live Streaming 3 = MPEG Dash ISO 5 = Adobe HTTP Dynamic Streaming 7 = Microsoft Smooth Streaming	Enter a <i>Numerical Selector</i> representing a package format to configure its JITP settings. Choices for this release include Apple HTTP Live Streaming, MPEG DASH ISO, Adobe HTTP Dynamic Streaming, and Microsoft Smooth Streaming.
allowed	integer	0 = false 1 = true	Enter a <i>Numerical Selector</i> representing whether the package format is available for JITP packaging.
segmentDuration	integer		The time frame (in seconds) for each segment. N/A for MPEG Dash ISO.
audioMap	string		Enter the name of the audio map rule to be used for the profile.
keyServerVendor	integer	0 = None 1 = VerimatrixHLS 2 = BuyDRM 3 = CKM 4 = Nagra 5 = InternalHLS 6 = VerimatrixPlayready 7 = InternalFlashAccess 8 = Latens 9 = SecureMedia 10 = Conax 11 = Irdeto 12 = InternalPlayready 13 = NdsCisco 14 = RgbAPI 15 = Mezzanine 16 = KPN	Optional. Enter the <i>Numerical Selector</i> representing the Key Server to use to manage the encryption key with client players. Choices for JITP in this release include: For Apple HLS — VerimatrixHLS, CKM, Nagra, InternalHLS ^a , InternalFlashAccess, SecureMedia, Conax, NdsCisco, and Mezzanine. For Adobe HDS — CKM, InternalFlashAccess. For Microsoft SS — BuyDRM, CKM, VerimatrixPlayready, Latens, Conax, InternalPlayready, and RgbAPI. <i>Note:</i> the MPEG Dash ISO field does not have key server options.
keyServerUrl	string	n/a	Enter the exact URL of the keyserver.
contentIdType	integer	0 = None 1 = ROVI 2 = MERLIN 3 = PUB 4 = UUID 5 = mediaContentId 6 = recordingId	
policyId	string	n/a	For CKM, enter the name of the key-server policy ID.

Table 11. configuration.jitp.profile.modify API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
keyResourceId	integer		Does not apply for JITP
keyRotation	integer	0 = no rotation	The duration of time (in minutes) that a particular encryption key will be used. After the time period expires, a new encryption key will be used to encrypt content. Enter 0 for no rotation.

a. InternalHLS has been optimized for small-scale deployments such as lab environments, demo systems, etc.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.jitp.profile.modify</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>DEFAULT</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>10</int>
      </value>
    </param>
    <param>
```

```
    <value>
      <string>aac_eng_Prm_all_Alt</string>
    </value>
  </param>
  <param>
    <value>
      <int>1</int>
    </value>
  </param>
  <param>
    <value>
      <string>http://verimatrixkey/test/now</string>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
  <param>
    <value>
      <string/>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
  <param>
    <value>
      <int>30</int>
    </value>
  </param>
</params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

13. configuration.jitp.profile.show

This method displays both the default and operator-configured JITP profile tables.

Method Help Text

Help:

This method displays a JITP profile record.

Return Value

Return:

string:Status String.

Parameter Descriptors (3)

Refer to [Table 12](#) for a complete list of parameter descriptors.

Table 12. configuration.jitp.profile.show API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
profileName	string	n/a	Enter the name of the profile to view.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.jitp.profile.show</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string/>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:profileName:Profile</name>
                  <value>
                    <string>DEFAULT</string>
                  </value>
                </member>
                <member>
                  <name>002:1:Profile Information:Profile Information</name>
                  <value>
                    <array>
                      <data>
                        <value>
                          <struct>
                            <member>
                              <name>001:1:packageType:Package Type</name>
                              <value>
                                <string>Apple HTTP Live Streaming(1)</string>
                              </value>
                            </member>
                            <member>
                              <name>002:1:allowed:Allowed</name>
                              <value>
                                <string>true(1)</string>
                              </value>
                            </member>
                            <member>
                              <name>003:1:segmentDuration:Segment Duration</
name>
                              <value>
                                <i4>2</i4>
                              </value>
                            </member>
                            <member>
                              <name>004:1:AudioMap:AudioMap</name>
                              <value>
                                <string>all</string>
                              </value>
                            </member>
                          </struct>
                        </value>
                      </data>
                    </array>
                  </value>
                </member>
              </struct>
            </value>
          </data>
        </array>
      </value>
    </param>
  </params>
</methodResponse>
```

```
Name</name>
    <name>005:1:keyServerVendor:Key Server Vendor
    <value>
      <string>None(0)</string>
    </value>
  </member>
  <member>
    <name>006:1:keyServerURL:keyServerURL</name>
    <value>
      <string/>
    </value>
  </member>
  <member>
    <name>007:1:keyResourceId:Key Resource ID</name>
    <value>
      <i4>0</i4>
    </value>
  </member>
  <member>
    <name>008:1:contentIdType:Content ID Type</name>
    <value>
      <string>None(0)</string>
    </value>
  </member>
  <member>
    <name>009:1:policyId:Policy ID</name>
    <value>
      <string/>
    </value>
  </member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:packageType:Package Type</name>
      <value>
        <string>Microsoft Smooth Streaming(7)</string>
      </value>
    </member>
    <member>
      <name>002:1:allowed:Allowed</name>
      <value>
        <string>true(1)</string>
      </value>
    </member>
    <member>
      <name>003:1:segmentDuration:Segment Duration</
name>
      <value>
```

```
        <i4>2</i4>
      </value>
    </member>
    <member>
      <name>004:1:AudioMap:AudioMap</name>
      <value>
        <string>all</string>
      </value>
    </member>
    <member>
      <name>005:1:keyServerVendor:Key Server Vendor
Name</name>
      <value>
        <string>None(0)</string>
      </value>
    </member>
    <member>
      <name>006:1:keyServerURL:keyServerURL</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>007:1:keyResourceId:Key Resource ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>008:1:contentIdType:Content ID Type</name>
      <value>
        <string>None(0)</string>
      </value>
    </member>
    <member>
      <name>009:1:policyId:Policy ID</name>
      <value>
        <string/>
      </value>
    </member>
  </struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:packageType:Package Type</name>
      <value>
        <string>Adobe HTTP Dynamic Streaming(5)</
string>
      </value>
```

```
</member>
<member>
  <name>002:1:allowed:Allowed</name>
  <value>
    <string>true(1)</string>
  </value>
</member>
<member>
  <name>003:1:segmentDuration:Segment Duration</
name>

  <value>
    <i4>2</i4>
  </value>
</member>
<member>
  <name>004:1:AudioMap:AudioMap</name>
  <value>
    <string>all</string>
  </value>
</member>
<member>
  <name>005:1:keyServerVendor:Key Server Vendor
Name</name>

  <value>
    <string>None(0)</string>
  </value>
</member>
<member>
  <name>006:1:keyServerURL:keyServerURL</name>
  <value>
    <string/>
  </value>
</member>
<member>
<name>007:1:keyResourceId:Key Resource ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
<name>008:1:contentIdType:Content ID Type</name>
  <value>
    <string>None(0)</string>
  </value>
</member>
<member>
  <name>009:1:policyId:Policy ID</name>
  <value>
    <string/>
  </value>
```

```
        </member>
      </struct>
    </value>
    <value>
      <struct>
        <member>
          <name>001:1:packageType:Package Type</name>
          <value>
            <string>MPEG Dash(3)</string>
          </value>
        </member>
        <member>
          <name>002:1:allowed:Allowed</name>
          <value>
            <string>true(1)</string>
          </value>
        </member>
        <member>
          <name>003:1:segmentDuration:Segment Duration</
name>
          <value>
            <i4>2</i4>
          </value>
        </member>
        <member>
          <name>004:1:AudioMap:AudioMap</name>
          <value>
            <string>all</string>
          </value>
        </member>
        <member>
          <name>005:1:keyServerVendor:Key Server Vendor
Name</name>
          <value>
            <string>None(0)</string>
          </value>
        </member>
        <member>
          <name>006:1:keyServerURL:keyServerURL</name>
          <value>
            <string/>
          </value>
        </member>
        <member>
          <name>007:1:keyResourceId:Key Resource ID</name>
          <value>
            <i4>0</i4>
          </value>
        </member>
      </member>
    </member>
```

```

        <name>008:1:contentIdType:Content ID Type</name>
        <value>
            <string>None(0)</string>
        </value>
    </member>
    <member>
        <name>009:1:policyId:Policy ID</name>
        <value>
            <string/>
        </value>
    </member>
</struct>
</value>
</data>
</array>
</value>
</member>
</struct>
</value>
<value>
    <struct>
        <member>
            <name>001:1:profileName:Profile</name>
            <value>
                <string>all_2second_segments_unencrypt</string>
            </value>
        </member>
        <member>
            <name>002:1:Profile Information:Profile Information</name>
            <value>
                <array>
                    <data>
                        <value>
                            <struct>
                                <member>
                                    <name>001:1:packageType:Package Type</name>
                                    <value>
                                        <string>Apple HTTP Live Streaming(1)</string>
                                    </value>
                                </member>
                                <member>
                                    <name>002:1:allowed:Allowed</name>
                                    <value>
                                        <string>true(1)</string>
                                    </value>
                                </member>
                                <member>
                                    <name>003:1:segmentDuration:Segment Duration</
name>
                                    <value>
```

```
        <i4>2</i4>
      </value>
    </member>
    <member>
      <name>004:1:AudioMap:AudioMap</name>
      <value>
        <string>all</string>
      </value>
    </member>
    <member>
      <name>005:1:keyServerVendor:Key Server Vendor
Name</name>
      <value>
        <string>None(0)</string>
      </value>
    </member>
    <member>
      <name>006:1:keyServerURL:keyServerURL</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>007:1:keyResourceId:Key Resource ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>008:1:contentIdType:Content ID Type</name>
      <value>
        <string>None(0)</string>
      </value>
    </member>
    <member>
      <name>009:1:policyId:Policy ID</name>
      <value>
        <string/>
      </value>
    </member>
  </struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:packageType:Package Type</name>
      <value>
        <string>Microsoft Smooth Streaming(7)</string>
      </value>
    </member>
```

```
<member>
  <name>002:1:allowed:Allowed</name>
  <value>
    <string>>false(0)</string>
  </value>
</member>
<member>
  <name>003:1:segmentDuration:Segment Duration</
name>

  <value>
    <i4>2</i4>
  </value>
</member>
<member>
  <name>004:1:AudioMap:AudioMap</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>005:1:keyServerVendor:Key Server Vendor
Name</name>

  <value>
    <string>None(0)</string>
  </value>
</member>
<member>
  <name>006:1:keyServerURL:keyServerURL</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>007:1:keyResourceId:Key Resource ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>008:1:contentIdType:Content ID Type</name>
  <value>
    <string>None(0)</string>
  </value>
</member>
<member>
  <name>009:1:policyId:Policy ID</name>
  <value>
    <string/>
  </value>
</member>
```



```
<name>008:1:contentType:Content ID Type</name>
  <value>
    <string>None(0)</string>
  </value>
</member>
<member>
  <name>009:1:policyId:Policy ID</name>
  <value>
    <string/>
  </value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:packageType:Package Type</name>
      <value>
        <string>MPEG Dash(3)</string>
      </value>
    </member>
    <member>
      <name>002:1:allowed:Allowed</name>
      <value>
        <string>false(0)</string>
      </value>
    </member>
    <member>
      <name>003:1:segmentDuration:Segment Duration</
name>
      <value>
        <i4>10</i4>
      </value>
    </member>
    <member>
      <name>004:1:AudioMap:AudioMap</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>005:1:keyServerVendor:Key Server Vendor
Name</name>
      <value>
        <string>None(0)</string>
      </value>
    </member>
    <member>
      <name>006:1:keyServerURL:keyServerURL</name>
      <value>
```

```
        <string/>
      </value>
    </member>
    <member>
      <name>007:1:keyResourceId:Key Resource ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>008:1:contentIdType:Content ID Type</name>
      <value>
        <string>None(0)</string>
      </value>
    </member>
    <member>
      <name>009:1:policyId:Policy ID</name>
      <value>
        <string/>
      </value>
    </member>
  </struct>
</value>
</data>
</array>
</value>
</member>
</struct>
</value>
</data>
</array>
</value>
</param>
</params>
</methodResponse>
```

14. configuration.jitp.source.server.add

This method defines the JITP source server where inbound content is stored.

Method Help Text

Help:

This method adds an source server where input content is stored.

PROMPT_YESNO:WARNING: Adding a source server requires a web server reload, potentially interrupting HTTP requests for up to 1 second. Continue?

Return Value

Return:
string:Status String.

Parameter Descriptors (3)

Refer to [Table 13](#) for a complete list of parameter descriptors.

Table 13. configuration.jitp.source.server.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
sourcePattern	string	n/a	Enter an identifier for the source server that contains the inbound content for Just-in-Time packaging. It is used to map to a valid hostname, or a directory ID for a file system mount. - Can be up to 255 characters (a-z, 0-9, - [dash] and . [dot]) - Pattern cannot <i>begin</i> or <i>end</i> with a dash Cannot be the management IP address or host name.
accessType	integer	0 = File system 1 = HTTP 2 = C2 HTTP 3 = DASH HTTP 4 = HLS HTTP	Enter the numeric selector to indicate how files are retrieved from the source server. File System—If this is selected, the <code>sourcePattern</code> must correspond to a provisioned directory mount ID. HTTP / C2 HTTP, DASH HTTP, or HLS HTTP—If any of these options are selected, the <code>sourcePattern</code> must correspond to a valid HTTP web server hostname.
hostname	string	n/a	Configure this when HTTP / C2 HTTP, DASH HTTP, or HLS HTTP is selected from <code>accessType</code>. Enter a URL hostname (domain name or IP address) for an HTTP source server.

Table 13. configuration.jitp.source.server.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
altnhostname	string	n/a	Configure this when HTTP / C2 HTTP , DASH HTTP , or HLS HTTP is selected from <i>accessType</i> . Only used with HLS-HTTP when Stitcher is used (therefore, only used with TransAct <i>Recording Manager</i>). Enter an alternate URL hostname (domain name or IP address) for an HTTP source server (if different from hostname).
mountID	integer		Applies when File System is chosen from <i>accessType</i> Enter a valid mount ID for a valid inbound directory as configured via configuration.input.directory.add
concurrencyLevel	integer	Not available	deprecated
allowOScaching	integer	0 = Disable 1 = Enable	Enables memory caching for faster responses to JITP requests. Enabling increases memory consumption with performance; disabling decreases memory consumption at the expense of performance. <i>For NFS only.</i> CIFS, HTTP and C2 HTTP will ignore this setting.
profileName	string		Enter a JITP profile for which to apply the source server configuration. If no other profiles were created besides DEFAULT, enter "DEFAULT."

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.jitp.source.add</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
  </params>
</methodCall>
```

```
<param>
  <value>
    <string>source-1-east</string>
  </value>
</param>
<param>
  <value>
    <int>4</int>
  </value>
</param>
<param>
  <value>
    <string>http://10.10.30.187</string>
  </value>
</param>
<param>
  <value>
    <string/>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <int>125</int>
  </value>
</param>
<param>
  <value>
    <int>1</int>
  </value>
</param>
<param>
  <value>
    <string>DEFAULT</string>
  </value>
</param>
</params>
</methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
```

```
<struct>
  <member>
    <name>001:1:sourcePattern:Source Server Pattern</name>
    <value>
      <string>source-1-east</string>
    </value>
  </member>
  <member>
    <name>002:1:accessType:Access Type</name>
    <value>
      <string>HLS HTTP(4)</string>
    </value>
  </member>
  <member>
    <name>003:1:hostname:Host Name</name>
    <value>
      <string>http://10.10.30.187</string>
    </value>
  </member>
  <member>
    <name>004:1:althostname:Alternate Host Name</name>
    <value>
      <string/>
    </value>
  </member>
  <member>
    <name>005:1:mountID:Directory Mount ID</name>
    <value>
      <i4>0</i4>
    </value>
  </member>
  <member>
    <name>006:1:cacheRequestsInMemory:Cache Requests In Memory</
name>
    <value>
      <string>Enabled</string>
    </value>
  </member>
  <member>
    <name>007:1:profileName:Profile</name>
    <value>
      <string>DEFAULT</string>
    </value>
  </member>
</struct>
</value>
</param>
</params>
</methodResponse>
```

15. configuration.output.directory.add

This method adds an output directory location for players that require directory publishing for outputs.

Method Help Text

Help:

This method adds an output directory.

Return Value

Return:

struct:Directory object added.

Parameter Descriptors (15)

Refer to [Table 14](#) for a complete list of parameter descriptors.

Table 14. configuration.output.directory.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
dirname	string	n/a	Enter an identifier for the directory, up to 24 characters. Only use alphanumeric characters, periods, underscores, or hyphens.
fsType	integer	0 = cifs 1 = nfs 4 = nfs4 2 = local 3 = davfs 5 = GPFS	Enter the <i>Numeric Selector</i> representing the method to be used to access files in the directory: CIFS ^a , NFS, local, davfs (Webdav), or GPFS.
host	string	n/a	Enter the hostname or IP address of the file system server, up to 254 alphanumeric characters. Note: To use a hostname, you must use a hostname that is not a fully qualified domain name and supply the remaining domain name in a search field for the DNS configuration. For example, if you enter <i>xcoder01</i> in the Host field and want it to resolve to <i>xcoder01.rgbnetworks.com</i> , then the DNS search field must be configured with <i>rgbnetworks.com</i> . For Local: Does not apply. For Webdav: The IP address or fully qualified domain name (FQDN) of the Webdav server.

Table 14. configuration.output.directory.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
remoteDir	string	n/a	For CIFS: Enter the name of the shared directory to mount. This is the share name assigned to the directory when it is configured for sharing on the network. For NFS: Enter the path to the remote directory to mount. <i>Packager</i> supports the ability to add the same output mount point multiple times. This means the Remote Share Name field may be configured with the same directory. A unique path will be automatically configured on the NFS server for each package without having to explicitly specify each path here. For Local: Does not apply. For Webdav: Enter the directory on the Webdav server that is to be mounted.
mountOpts	string	n/a	For CIFS, NFS, NFS4: Mount options for the remote shared directory to mount, up to 127 characters, fields separated by commas. For example: soft,vers=3,acdirmin=0.5,acdirmax=1,acregmin=3,acregmax=60,atime,timeo=1,retrans=3,tcp <i>Note:</i> For NFS and NFS4, you may configure either hard or soft mounts. The example above shows a soft mount configuration.
usage	integer	0 = auto 1 = on-demand	This API has been deprecated.
sourceDelete	integer	0 = none 1 = success 2 = always	This API, while present in output.directory.add, does not apply to output directories; only to input directories.
priority	integer	1 = lowest priority ... 10 = highest priority	This API, while present in output.directory.add, does not apply to output directories; only to input directories.
remoteDomain	string	n/a	For CIFS: Enter the domain or workgroup that has permission to access the shared directory on the remote file server. This optional command line parameter must be preceded by its keyword.
remoteUsername	string	n/a	For CIFS: A username that has permission to access the shared directory on the remote file server. For Webdav: The username to use to connect to the Webdav server.
remotePassword	string	n/a	For CIFS or Webdav: The password associated with the username.

Table 14. configuration.output.directory.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
localDirSize	integer	0 = partition 10 to 2147483647	Enter the mount size (in MB) for a virtual file system, or enter 0 for a partition. This field is used for loop devices and ignored for partitions or if a loop device mount has already been created. Ensure local filesystem has sufficient free space to create the mount. Mount file is created when first Local Mount is added and shared with all subsequent Local Mounts.
loopDevice	integer	300 = localmnt 301 = localmnt2	Enter the <i>Numeric Selector</i> representing the appropriate loop device when using a virtual file system, or a mount partition when using a partition on disk. By default if a partition is present, this field is restricted to only the available partition options. Note: For the AMS r620 platform, localmnt2 is used. For the AMS r610 platform, localmnt is used. For a virtual machine, either localmnt or localmnt2 is used.

- a. For deployment scenarios, RGB recommends the Network File System (NFS) protocol for all external storage mounts. Common Internet File Services (CIFS) can be used but is not recommended due to decreased performance (refer to the Release Notes for this version of software for test data). If used, CIFS should be limited to non-deployment situations.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.output.directory.add</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>nfs10</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
  </params>
</methodCall>
```

```
</param>
<param>
  <value>
    <string>10.10.88.165</string>
  </value>
</param>
<param>
  <value>
    <string>/data/nfs10</string>
  </value>
</param>
<param>
  <value>
    <string>soft,vers=3,acdirmin=1,acdirmax=1,acregmin=3,acreg-
max=60,atime,timeo=5,retrans=3,tcp</string>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <int>1</int>
  </value>
</param>
<param>
  <value>
    <string/>
  </value>
</param>
<param>
  <value>
    <string/>
  </value>
</param>
<param>
  <value>
    <string/>
  </value>
</param>
<param>
  <value>
    <int>10</int>
```

```
        </value>
      </param>
    <param>
      <value>
        <int>300</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <struct>
          <member>
            <name>001:1:dirType:Directory Type</name>
            <value>
              <string>outbound(1)</string>
            </value>
          </member>
          <member>
            <name>002:1:dirID:Directory ID</name>
            <value>
              <i4>1</i4>
            </value>
          </member>
          <member>
            <name>003:1:dirname:Directory Name</name>
            <value>
              <string>nfs10</string>
            </value>
          </member>
          <member>
            <name>004:1:fsType:File System Type</name>
            <value>
              <string>nfs(1)</string>
            </value>
          </member>
          <member>
            <name>005:1:usage:Usage</name>
            <value>
              <string>auto(0)</string>
            </value>
          </member>
          <member>
            <name>006:1:sourceDelete:Source File Deletion</name>
```

```
<value>
  <string>none(0)</string>
</value>
</member>
<member>
  <name>007:1:priority:Priority</name>
  <value>
    <i4>1</i4>
  </value>
</member>
<member>
  <name>008:1:adminState:Administrative State</name>
  <value>
    <string>unlocked(1)</string>
  </value>
</member>
<member>
  <name>009:1:operState:Operational State</name>
  <value>
    <string>unknown(0)</string>
  </value>
</member>
<member>
  <name>010:1:host:Host</name>
  <value>
    <string>10.10.88.165</string>
  </value>
</member>
<member>
  <name>011:1:sharename:Share Name</name>
  <value>
    <string>/data/nfs10</string>
  </value>
</member>
<member>
  <name>012:2:remoteDomain:Remote Domain</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>013:2:remoteUsername:Remote Username</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>014:2:remotePassword:Remote Password</name>
  <value>
    <string>****</string>
```

```

        </value>
      </member>
    <member>
      <name>015:2:mountOpts:Remote Mount Options</name>
      <value>
        <string>soft,vers=3,acdirmin=1,acdirmax=1,acregmin=3,acreg-
max=60,atime,timeo=5,retrans=3,tcp</string>
      </value>
    </member>
  </struct>
</value>
</param>
</params>
</methodResponse>

```

16. configuration.output.directory.remove

This method removes a currently configured output directory from *Packager*.

Method Help Text

Help:

This method removes an output directory.

Return Value

Return:

int:DB return code.

Parameter Descriptors (3)

Refer to [Table 15](#) for a complete list of parameter descriptors.

Table 15. configuration.output.directory.remove API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
dirID	integer		Enter the directory ID you wish to remove.

Sample Request

```

<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.output.directory.remove</methodName>
  <params>
    <param>

```

```
        <value>
          <string>admin</string>
        </value>
      </param>
      <param>
        <value>
          <string>ripcode!</string>
        </value>
      </param>
      <param>
        <value>
          <int>1</int>
        </value>
      </param>
    </params>
  </methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

17. configuration.output.directory.show

This method displays all configured output directories.

Method Help Text

Help:

This method retrieves info for an output directory.

Return Value

Return:

struct:Directory info.

Parameter Descriptors (3)

Refer to [Table 16](#) for a complete list of parameter descriptors.

Table 16. configuration.output.directory.show API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
dirID	integer	0 = all	Enter the directory ID you wish to view, or enter 0 to retrieve all directories.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.output.directory.show</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:dirType:Directory Type</name>
```

```
<value>
  <string>outbound(1)</string>
</value>
</member>
<member>
  <name>002:1:dirID:Directory ID</name>
  <value>
    <i4>1</i4>
  </value>
</member>
<member>
  <name>003:1:dirname:Directory Name</name>
  <value>
    <string>nfs10</string>
  </value>
</member>
<member>
  <name>004:1:fsType:File System Type</name>
  <value>
    <string>nfs(1)</string>
  </value>
</member>
<member>
  <name>005:1:usage:Usage</name>
  <value>
    <string>auto(0)</string>
  </value>
</member>
<member>
  <name>006:1:sourceDelete:Source File Deletion</name>
  <value>
    <string>none(0)</string>
  </value>
</member>
<member>
  <name>007:1:priority:Priority</name>
  <value>
    <i4>1</i4>
  </value>
</member>
<member>
  <name>008:1:adminState:Administrative State</name>
  <value>
    <string>unlocked(1)</string>
  </value>
</member>
<member>
  <name>009:1:operState:Operational State</name>
  <value>
    <string>enabled(2)</string>
```

```
        </value>
      </member>
    <member>
      <name>010:1:host:Host</name>
      <value>
        <string>10.10.88.165</string>
      </value>
    </member>
    <member>
      <name>011:1:sharename:Share Name</name>
      <value>
        <string>/data/nfs10</string>
      </value>
    </member>
    <member>
      <name>012:2:remoteDomain:Remote Domain</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>013:2:remoteUsername:Remote Username</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>014:2:remotePassword:Remote Password</name>
      <value>
        <string>****</string>
      </value>
    </member>
    <member>
      <name>015:2:mountOpts:Remote Mount Options</name>
      <value>
        <string>soft,vers=3,acdirmin=1,acdirmax=1,acreg-
min=3,acregmax=60,atime,timeo=5,retrans=3,tcp</string>
      </value>
    </member>
  </struct>
</value>
</data>
</array>
</value>
</param>
</params>
</methodResponse>
```

18. configuration.output.format.dash.modify

This method allows you to set global configuration parameters that defines how linear MPEG-Dash content is generated for the manifest files.

Method Help Text

Help:

This method modifies the linear MPEG-Dash (HTTP-File-Format) configuration.
 --Changing this table will cause all MPEG-Dash (HTTP-File-Format) outputs generated from input streams to restart!--

NOTE: If package-level redundancy is in use, all configuration parameters in this menu must match on both Packagers in the same N+1 redundancy group.

PROMPT_YESNO:WARNING: Changing this table may cause all HLS outputs to restart! Continue?

Return Value

Return:

nil:

Parameter Descriptors (6)

Refer to [Table 17](#) for a complete list of parameter descriptors.

Table 17. configuration.output.format.dash.modify API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
segmentTimeline	integer	1 = muxed 2 = unmuxed 3 = both muxed and unmuxed	Describes, in the manifest file, whether the type of content being generated is based on the main segment timeline (EBP segment, IDR, or RAI) for a particular package. Choices are: muxed(1) —Audio and video content is being delivered together unmuxed(2) —Audio and video content is being delivered separately both(3) —A mix of muxed and unmuxed audio and video content is being delivered.

Table 17. configuration.output.format.dash.modify API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
trickPlay		0 = none 1 = segment 3 = idr	Describes, in the manifest file, whether the video content will contain IDR frames for the purpose of trick play (fast-forward, rewind, etc.) and which method is being used for I-Frame to IDR-Frame adaptation. Choices are: none(0) —No trick play adaptation will be used segment(1) —Trick play adaptation will contain the starting IDR of each segment fragment(2) — <i>not a valid option</i> idr(3) —Trick play adaptation will contain every IDR frame
adSignaling	integer	0 = false 1 = true	Specifies whether to include ad signaling markers in the manifest file in order to support SCTE-35 ESAM cues. Select true ^a to include ad signaling markers. Select false to exclude ad signaling markers. Default is <i>false</i> .
expiredRetention	integer	0 = delete content immediately 0 to 300	Specifies how long to keep content on the output storage device after it has aged out of the manifest. - Value is in seconds, with a range of 0 to 300. - Default is 12. - Enter 0 to delete content immediately upon aging out.

- a. In order for Packager to perform ad insertion signaling, the relevant input group stream must be enabled to pass data PIDs (configuration.input.group.stream.add or .modify) and the POIS must be enabled on the system (sysconfig.pois.modify). Additionally, the input stream (from the transcoder) must be conditioned with its own interaction to POIS for SCTE-35 and Packager must interact with the same POIS for SCTE-35 manifest markup.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.output.format.dash.modify</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
```

```
    <value>
      <int>3</int>
    </value>
  </param>
  <param>
    <value>
      <int>1</int>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
  <param>
    <value>
      <int>12</int>
    </value>
  </param>
</params>
</methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

19. configuration.output.format.hls.modify

This method allows you to set global configuration parameters that defines how HLS segment file outputs are generated, which versions of HLS are used, and whether to enable trick play when generating HLS.

Method Help Text

Help:

This method modifies the HLS format configuration. --Changing this table may cause all HLS outputs to restart!--

NOTE: If package-level redundancy is in use, all configuration parameters in this menu must match on both Packagers in the same N+1 redundancy group.

PROMPT_YESNO:WARNING: Changing this table may cause all HLS outputs to restart! Continue?

Return Value

Return:
nil:

Parameter Descriptors (15)

Refer to [Table 18](#) for a complete list of parameter descriptors.

Table 18. configuration.output.format.hls.modify API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
version	integer	2 = HLS v2 4 = HLS v4	Select which protocol version of HLS to generate. Default is 2. When Version 4 is selected, <code>trickPlay</code> can be set.
trickPlay	integer	0 = false 1 = true	Specify whether to generate an I-frame-only manifest file. This feature allows players to fast-forward and rewind. Select true to enable generation of I-frame only manifests. Select false to disable generation of I-frame only manifests. Default is false. This field only appears when the <i>Version</i> field is set to 4.
ignoreOutOfSync	integer	0 = false 1 = true	Specify whether the player will keep publishing content even when the content is not IDR-aligned. When this field is false , out-of-sync content will not be published. When this field is true , out-of-sync content will be published. Applies to HLS v2 only.
variantName	string	n/a	Enter the name to assign to the top variant playlist. Leave this field blank to use package names. <i>Note:</i> This feature applies to linear packaging only.

Table 18. configuration.output.format.hls.modify API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
template	string	n/a	Specifies the creation of a template to define how segment file names are constructed. The following keywords are allowed: %ptim% = Segment program time (ISO 8601:2004)^a %stim% = Package start time (ISO 8601:2004)^b %strn% = Stream number (2 digits) %seqn% = Segment sequence number %name% = Package name %mode% = Package mode ("live" or "vod") In addition to the above keywords, any alphanumeric or special character may be added to the syntax, with the exception of the "%" character. Default is set to: %stim%-%strn%-%seqn%%mode%.ts Example of a default filename: 20121101T103824-01-1vod.ts <i>Note:</i> This feature applies to linear packaging only.
timePerChunk	integer	0 = false 1 = true	True or False. When set to true, each segment in the playlist will have a preceding program time tag which displays the approximate wall clock time of the segment's original broadcast. Example: (...) EXT-X-PROGRAM-DATE-TIME:2010-02-19T14:54:23+08:00 EXTINF:6,1 20120309T100226-01-1vod.ts EXT-X-PROGRAM-DATE-TIME:2010-02-19T14:54:29+08:00 EXTINF:6,2 20120309T100226-01-2vod.ts <i>Note:</i> This feature applies to linear packaging only.
keepLiveSegments	integer	0 = false 1 = true	True or False. Specifies whether to delete expired live segments. If set to true, live segments will be kept always. If set to false, live segments will be deleted after an elapsed time period that is equal to twice the playlist duration. <i>Note:</i> This feature applies to linear packaging only.
liveImmediateStop	integer	0 = false 1 = true	When set to true, live content is immediately removed on stop instead of gracefully phasing it out (false).

Table 18. configuration.output.format.hls.modify API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
useSubDir	integer	0 = false 1 = true	Specify whether to store segments for each bitrate in a separate subdirectory. Select true to store segments in separate subdirectories based on bitrate. <i>Note:</i> This feature applies to linear packaging only and will cause the system to restart when changed.
maxChunkPerDir	integer	0 = no limit 1 to 2147483647	Enter the maximum number of segments that will be created per sub-directory so as to avoid having too many entries in a single directory. This field is used in conjunction with the Bit rate sub-dir or the Keep live segments parameter. - This field only appears when useSubDir is set to true. When segments are preserved either by generating VOD content or by enabling the keepLiveSegments field, the configuration for maxChunkPerDir will take effect. - A setting of 0 disables this feature. <i>Note:</i> This feature applies to linear packaging only and will cause the system to restart when changed.
adSignaling	integer	0 = false 1 = true	Specifies whether to include ad signaling markers in the manifest file in order to support SCTE-35 ESAM cues. Select true ^c to include ad signaling markers. Select false to exclude ad signaling markers. Default is <i>false</i> .

Table 18. configuration.output.format.hls.modify API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
<code>muxV4Audio</code>	integer	0 = false 1 = true	When <i>true</i>, all HLS V4 video output will be published with the audio track that matches the highest priority audiomap rule with an <i>Output Publishing Type</i> set to Primary (as long as the video feed contains the specified audio track). When <i>false</i>, HLS V4 video is published as video-only. <u>For example:</u> Assume an audiomap priority 1 rule in which the input audio codec of AAC-LC on any channel, in any language, and in the range of 12000 to 628000 bps is published as the Primary audio output. When the Mux Primary Audio V4 value is set to true, and the input video feed contains the audio track specified above, this track will then be packaged with each HLS V4 video output. This field only appears when the Version field is set to 4.
<code>expiredRetention</code>	integer	0 = delete content immediately 0 to 300	Specifies how long to keep content on the output storage device after it has aged out of the manifest. - Value is in seconds, with a range of 0 to 300. - Default is 22. - Enter 0 to delete content immediately upon aging out.

- Since %ptim% represents the program time of each segment, this number will change per segment.
- Since %stim% represents the package start time, this number *will not* change per segment.
- In order for Packager to perform ad insertion signaling, the relevant input group stream must be enabled to pass data PIDs (configuration.input.group.stream.add or .modify) and the POIS must be enabled on the system (sysconfig.pois.modify). Additionally, the input stream (from the transcoder) must be conditioned with its own interaction to POIS for SCTE-35 and Packager must interact with the same POIS for SCTE-35 manifest markup.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.output.format.hls.modify</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>riptide!</string>
      </value>
    </param>
  </params>
</methodCall>
```

```
</param>
<param>
  <value>
    <int>4</int>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <string/>
  </value>
</param>
<param>
  <value>
    <string>%stim%-%strn%-%seqn%%mode%.ts</string>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
<param>
  <value>
    <int>0</int>
  </value>
</param>
```

```
</param>
<param>
  <value>
    <int>1</int>
  </value>
</param>
<param>
  <value>
    <int>1</int>
  </value>
</param>
<param>
  <value>
    <int>22</int>
  </value>
</param>
</params>
</methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

20. configuration.package.add

This method allows you to create individual packages with specific output sources, audio map names, and other package configuration parameters.

Method Help Text

Help:

This method creates a package.

NOTE: If package-level redundancy is in use, packaging configuration, including the Name, must match on both Packagers in the same N+1 redundancy group.

Return Value

Return:

int:The DB return code

Parameter Descriptors (39)

Refer to [Table 19](#) for a complete list of parameter descriptors.

Table 19. configuration.package.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
name	string	n/a	Enter unique identifier for the package. Must contain only alphanumeric characters; periods, underscores and hyphens are allowed. Up to 90 characters is allowed.
packageType	integer	1 = Apple HLS 2 = MSS - remote 3 = MPEG Dash (ISO) 4 = RGB pkgr asset 5 = Adobe HDS 6 = Adobe RTMP 7 = MSS 8 = Adobe HLS-HTTP 9 = MPEG Dash-HTTP	Enter the <i>Numeric Selector</i> representing the type of distribution to use for the package. Choices for this release include Apple HTTP Live Streaming, Microsoft Smooth Streaming - remote, MPEG Dash, Adobe HTTP Dynamic Streaming, Adobe RTMP, RGB packager asset, Microsoft Smooth Streaming, and Adobe HTTP Dynamic Streaming - HTTP File Format. Note: When <i>MPEG Dash TS - HTTP File Format</i> is used for the <i>Package Type</i> in conjunction with MPEG Dash J1TP ingest and playback, the <i>Segment Duration</i> number in this field must be set to match the playback type. If HLS, HDS, or MSS is the intended playback, the Segment Duration (2 or 4 seconds) should be set to match the transcoder feeding <i>Packager</i>.
packageMode	integer	1 = live 2 = vod 4 = continuous-record	Enter the <i>Numeric Selector</i> representing the mode of distribution to use for the package: either (1) live or (2) vod. Choices depend upon packageType^a entry. - Choose either live or vod: For <i>Apple HTTP Live Streaming</i>, <i>Microsoft Smooth Streaming</i>, <i>Adobe HTTP Dynamic Streaming</i>, and <i>MPEG Dash TS - HTTP File Format</i>. For these modes above, the Segment Life Span field appears for live. - Only choice is live: For <i>Microsoft Smooth Streaming - remote</i>, <i>MPEG Dash ISO</i>, <i>Adobe RTMP</i>, and <i>Adobe HTTP Dynamic Streaming - HTTP File Format</i>. - Only choice is vod: For <i>RGB packager asset</i>

Table 19. configuration.package.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
duration	integer	0 = never stop 1 to 65535	Period in seconds after which the package will stop after being started.
segmentMode	integer	0 = none 1 = IDR 2 = IDR periodic 3 = RAI 4 = RAI periodic 5 = EBP Frag 6 = EBP Frag periodic 7 = EBP Seg 8 = EBP Seg periodic	Enter the <i>Numeric Selector</i> representing the type of segmentation to use for the package. Choices include: • IDR—A segment file is built on each IDR frame. • IDR periodic—A segment file is built on the first IDR frame after the time frame specified in the Segment Duration field. • RAI—A segment file is built on each RAI flag (Random Access Indicator). • RAI periodic—A segment file is built on the first RAI flag after the time frame specified in the Segment Duration field. • EBP Frag—A segment file is built on each EBP (Encoder Boundary Point) fragment.^b • EBP Frag periodic^c—A segment file is built on the first EBP fragment after the time frame specified in the Segment Duration field. • EBP Seg—A segment file is built on each EBP segment. • EBP Seg periodic—A segment file is built on the first EBP segment after the time frame specified in the Segment Duration field.
segmentDuration	integer	0 to 10	Enter the time frame (in seconds) for each segment. • The first frame for each segment is an IDR frame. • The segment duration specified with periodic modes is not an absolute, but a minimum target. • The final duration will be based on how far the IDR frame, RAI flag, or EBP marker is from the segment duration. For example: an IDR periodic segment duration of 3 seconds with incoming IDRs at 2-second intervals will produce 4-second segments.
segmentLifeSpan	integer	0 to 18000	Only for Live mode. The time a live segment will appear in the playlist manifest. This option only appears when live is selected from the Package Mode field (except for Microsoft Smooth Streaming - remote , for which <i>Segment Life Span</i> is controlled by the remote server.).

Table 19. configuration.package.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
redundancyMode	integer	0 = none 1 = single output 2 = duplicate output	When using package-level redundancy, select how the <i>Packagers</i> in the same N+1 redundancy group will handle their output. Choices are: none — the package will not use redundancy. duplicate output — both <i>Packagers</i> will publish their own output synchronized together to separate locations. Option available for <i>live</i> mode. single output^d — in single output mode, only one <i>Packager</i> will output each feed to a single location while the other <i>Packager's</i> corresponding feed will be muted. Option available for <i>VOD</i> and <i>continuous record</i> modes.
redundancyPeer	string	n/a	When using package-level redundancy, enter the IP address or hostname of the redundant <i>Packager's</i> management interface hosting the redundant (and identically configured) package. Up to 72 characters max.
inputType	integer	1 = stream 0 = file	Indicate whether the input media is file- or stream-based.
inputID	integer		The input directory or input group (stream) from which to receive content.

Table 19. configuration.package.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
infileName	string	n/a	You can only configure this when inputType is set to file. Enter the name of the input group file specified with a file path that is relative to the location of the PCK file. The relative file path allows you to move the entire sub-directory without having to change the PCK file. The input group file is a simple text file pointing at the location of each input file part of the group with a few fields. Following is an example of a system auto-generated input group file. <pre># Manifest for Package: NewPCK # Recording Started: Tue May 1 16:38:21 2012 Version:1 SegmentMode:IDR GroupName:NewPCK # (Format: Path from the pck file for each video, Published video bit rate, Published audio bit rate) 01/1.ts 3888951 125680 02/1.ts 1711974 125718</pre> The Version is 1 and the SegmentMode can be either IDR or RAI, depending upon how the material is expected to align. This file can be manually created for externally generated input files, or automatically generated along with an MPEG2TS straight file output session which will create a directory structure as follows in the output directory: <pre><package_name>/<group name>_S1/ /<group name>_S2/ /<group name>_S3/ /<group name>.pck</pre> <group name>.pck is the auto-generated text file to resubmit later for file ingest packaging. If the whole directory structure shown above was copied to an input mount, or if a mount point exists both as an input and an output, specify <package_name>/<group name>.pck as the input file group name.
audioMap	string	n/a	Enter the audio map profile table (set of rules) to apply to the package.

Table 19. configuration.package.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
subDirectory	string	n/a	For Apple HLS , MPEG Dash ISO , RGB packager asset , Adobe HDS , Microsoft Smooth Streaming , Adobe HDS - HTTP File Format , and MPEG Dash TS - HTTP File Format . Enter the name of the output sub-directory (up to 93 alphanumeric characters) after the mount point and preceding the package name. For example: /mount/ sub-dir1 /package-name/video.ts
outContent1	integer	1 = all	Enter the type of content to be output to the primary publishing point. Only option is all .
outputType1	integer	1 = stream 0 = file	Specify whether the output media is file- or stream-based. The value in this field is dependent upon the selection in the Package Type field. For Microsoft Smooth Streaming - remote and Adobe RTMP the output type is automatically stream . For all other package types, the output type is automatically file .
outputID1	integer	1 = 1st stream or dir. 2 = 2nd stream or dir. etc...	Enter the output directory or stream to which to publish content. Only the integer value of the ID number is required for this method call.
outContent2	integer	0 = none 1 = all 2 = media only ^e 3 = manifests only ^f	Enter the <i>Numeric Selector</i> representing the type of content to be output to a secondary publishing point: none , all , manifests only , or media only .
outputType2	integer	1 = stream 0 = file	Specify whether the output media for the secondary (1st alternate) publishing point is file- or stream-based.
outputID2	integer		Enter the output directory or stream to which to publish content for the secondary (1st alternate) publishing point.
outContent3	integer	0 = none 1 = all 2 = media only 3 = manifests only	Enter the <i>Numeric Selector</i> representing the type of content to be output to a tertiary (2nd alternate) publishing point: none , all , manifests only , or media only .
outputType3	integer	1 = stream 0 = file	Specify whether the output media for the tertiary (2nd alternate) publishing point is file- or stream-based.
outputID3	integer		Enter the output directory or stream to which to publish content for the tertiary (2nd alternate) publishing point.

Table 19. configuration.package.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
syncErrorRestart	integer	0 = false 1 = true	Selecting true will re-synchronize stream-based content if the streams are not synchronized. Synchronization of streams is determined using IDR frames. For example, if there are 3 streams and streams #1 and #2 have IDR frames at 0, 2, 4, 6... seconds but stream #3 has IDR frames at 0,2,4,5... seconds, then an out-of-sync stream condition has occurred. Essentially, if a player switches between streams that are not synchronized, then the video will jump because the frames will not be continuous.
thumbnail	integer	0 = false 1 = true	Choose whether to generate thumbnails for this package. (1) true = generate thumbnails for this package; (2) false = do not generate thumbnails If set to <i>true</i>, you must configure global output thumbnail parameters using the <code>configuration.output.format.thumbnail</code> method. Refer to the <i>TransAct Packager User Guide, Release 5.4</i> for detailed thumbnail descriptions and configuration guidelines.
enableLinearTTML	integer	0 = false 1 = true	For Microsoft Smooth Streaming - remote and Microsoft Smooth Streaming only. Select whether to enable subtitles on <i>linear</i> packaging output⁹.

Table 19. configuration.package.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
keyServerVendor	integer	0 = None 1 = VerimatrixHLS 2 = BuyDRM 3 = CKM 4 = Nagra 5 = InternalHLS 6 = VerimatrixPlayready 7 = InternalFlashAccess 8 = Latens 9 = SecureMedia 10 = Conax 11 = Irdeto 12 = InternalPlayready 13 = NdsCisco 14 = RgbAPI 15 = Mezzanine 16 = KPN	Enter the <i>Numeric Selector</i> representing the Key Server to use to manage the encryption key with client players or enter 0 if the package will not use a key server. The following options are available based on Package Type selection: Apple HLS — VerimatrixHLS, CKM, Nagra, Internal HLS, Internal Flash Access, Secure Media, Conax, NdsCisco, rgbAPI, Mezzanine, and KPN. Microsoft SS - remote — Buy DRM, CKM, Verimatrix Playready, Latens, Conax, Irdeto, InternalPlayready, rgbAPI, and KPN. Microsoft SS — BuyDRM, CKM, Verimatrix Playready, Latens, Conax, Irdeto, InternalPlayready, rgbAPI and KPN. Adobe HDS — CKM, Internal Flash Access Adobe HDS - HTTP File — CKM, Internal Flash Access The following Package Types do not have Key Server options: MPEG Dash ISO, MPEG Dash TS - HTTP File Format, RGB packager asset, Adobe HTTP Dynamic Streaming, and Adobe RTMP.
contentId	string	n/a	Used by some key management servers to identify the content. Example: demo:RC001.
contentIdType	integer	0 = None 1 = ROVI 2 = MERLIN 3 = PUB 4 = UUID 5 = mediaContentId 6 = recordingId	Enter the <i>Numeric Selector</i> representing the type of content. This is used by some key management servers to identify the content.
policyId	string	n/a	Enter a string that identifies the policies to be applied to the content. Example: demo:P001:FIXED:EFF:NA:EXP:NA
keyRotation	integer	0 = no rotation	The duration of time (in minutes) that a particular encryption key will be used. After the time period expires, a new encryption key will be used to encrypt content. Enter 0 for no rotation.
keyResourceId	integer		This option, while present in the API, is no longer applicable.

Table 19. configuration.package.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
keyDeletePolicy	integer	0 = Don't delete 1 = Delete on stop	Enter the <i>Numeric Selector</i> representing whether the package will be deleted at the conclusion of packaging, or not deleted. Used by some key management servers.
contentName	string	n/a	Used by some key management servers (Irdeto) to identify the name of content.
contentDescription	string	n/a	Used by some key management servers (Irdeto) to describe content.
subContentType	string	n/a	Used by some key management servers (Irdeto) to identify the content.
policyGroupId	integer		For Irdeto: enter a 32 bit integer that identifies the policy group ID to be applied to the content.

- The option **continuous record** is available when the *Package Type* is set to *Apple HTTP Live Streaming*. This option will record continuous content based on user-defined start and end time. However, the continuous record choice only relates to RGB's nDVR solution, which is configured from the RGB Recording Manager. In other words, this setting should not be chosen from the TransAct *Packager* <Default Font> GUI.
- EBP Frag* mode aligns audio track based on video track timing.
- EBP Frag periodic* mode aligns audio track based on video track timing.
- Single output mode is available for HLS VOD, HLS Continuous Record, and DASH-TS VOD only in this release.
- Applies to HLS or DASH-TS only
- Applies to HLS or DASH-TS only
- To configure subtitles for MSS JITP packaging output, use the `configuration.output.format.subtitle.add` method call..

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.package.add</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>NewPackage</string>
      </value>
    </param>
    <param>
      <value>
```

```
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <int>2</int>
      </value>
    </param>
    <param>
      <value>
        <int>3600</int>
      </value>
    </param>
    <param>
      <value>
        <int>2</int>
      </value>
    </param>
    <param>
      <value>
        <int>5</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <string>10.32.128.109</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
```

```
        <string/>
    </value>
</param>
<param>
    <value>
        <string>aac_eng_Prm_all_Alt</string>
    </value>
</param>
<param>
    <value>
        <string>sub-directory</string>
    </value>
</param>
<param>
    <value>
        <int>1</int>
    </value>
</param>
<param>
    <value>
        <int>0</int>
    </value>
</param>
<param>
    <value>
        <int>1</int>
    </value>
</param>
<param>
    <value>
        <int>0</int>
    </value>
</param>
<param>
    <value>
        <int>0</int>
    </value>
</param>
<param>
    <value>
        <int>0</int>
    </value>
</param>
<param>
    <value>
        <int>0</int>
    </value>
</param>
<param>
    <value>
```

```
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>16</int>
      </value>
    </param>
    <param>
      <value>
        <string>KPN-ContentID</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <string/>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
```

```
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
    <param>
      <value>
        <string/>
      </value>
    </param>
    <param>
      <value>
        <string/>
      </value>
    </param>
    <param>
      <value>
        <string/>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <struct>
          <member>
            <name>001:1:packageID:Package ID</name>
            <value>
              <i4>1</i4>
            </value>
          </member>
          <member>
            <name>002:1:name:Name</name>
            <value>
              <string>NewPackage</string>
            </value>
          </member>
        </struct>
      </value>
    </param>
  </params>
</methodResponse>
```



```
<member>
  <name>002:1:segmentLifeSpan:Segment Life Span</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>003:1:redundancyMode:Redundancy Mode</name>
  <value>
    <string>single output(1)</string>
  </value>
</member>
<member>
  <name>004:1:redundancyPeer:Redundancy Peer</name>
  <value>
    <string>10.32.128.109</string>
  </value>
</member>
<member>
  <name>005:1:duration:Duration</name>
  <value>
    <i4>3600</i4>
  </value>
</member>
<member>
  <name>006:1:inputType:Input Type</name>
  <value>
    <string>stream(1)</string>
  </value>
</member>
<member>
  <name>007:1:inputID:Input ID</name>
  <value>
    <i4>1</i4>
  </value>
</member>
<member>
  <name>008:1:infileName:Input File Name</name>
  <value>
    <string>N/A</string>
  </value>
</member>
<member>
  <name>009:1:audioMap:Audio Map</name>
  <value>
    <string>aac_eng_Prm_all_Alt</string>
  </value>
</member>
<member>
  <name>010:1:subDirectory:Subdirectory Path</name>
```

```
        <value>
          <string>sub-directory</string>
        </value>
      </member>
    <member>
      <name>011:1:outputs:Outputs</name>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:outputID:Output ID</name>
                  <value>
                    <i4>1</i4>
                  </value>
                </member>
                <member>
                  <name>002:1:outputType:Output Type</name>
                  <value>
                    <string>file(0)</string>
                  </value>
                </member>
                <member>
                  <name>003:1:outContent:Content Type</name>
                  <value>
                    <string>all(1)</string>
                  </value>
                </member>
              </struct>
            </value>
            <value>
              <struct>
                </struct>
              </value>
            <value>
              <struct>
                </struct>
              </value>
            <value>
              <struct>
                </struct>
              </value>
          </data>
        </array>
      </value>
    </member>
    <member>
      <name>012:1:thumbnail:Thumbnail</name>
      <value>
        <string>false(0)</string>
      </value>
    </member>
  </member>
```

```
<name>013:1:enableLinearTTML:Enable TTML</name>
<value>
  <string>>false(0)</string>
</value>
</member>
<member>
  <name>014:1:keyServerVendor:Key Server Vendor Name</name>
  <value>
    <string>KPN(16)</string>
  </value>
</member>
<member>
  <name>015:1:keyResourceId:Key Resource ID</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>016:1:contentId:Content ID</name>
  <value>
    <string>KPN-ContentID</string>
  </value>
</member>
<member>
  <name>017:1:contentIdType:Content ID Type</name>
  <value>
    <string>None(0)</string>
  </value>
</member>
<member>
  <name>018:1:policyId:Policy ID</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>019:1:keyRotation:Key Rotation</name>
  <value>
    <i4>0</i4>
  </value>
</member>
<member>
  <name>020:1:keyDeletePolicy:Key Deletion Policy</name>
  <value>
    <string>NoDeletion(0)</string>
  </value>
</member>
<member>
  <name>021:1:contentName:Content Name</name>
  <value>
```

```
        <string/>
      </value>
    </member>
    <member>
      <name>022:1:contentDescription:Content Description</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>023:1:subContentType:Subcontent Type</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>024:1:policyGroupId:Policy Group ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
  </struct>
</value>
</member>
</struct>
</value>
</param>
</params>
</methodResponse>
```

21. configuration.package.remove

This method allows you to delete a currently configured package.

Method Help Text

Help:

This method removes a package.

Return Value

Return:

int:DB return code.

Parameter Descriptors (3)

Refer to [Table 20](#) for a complete list of parameter descriptors.

Table 20. configuration.package.remove API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
packageID	integer		Enter the package ID you wish to remove.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.package.remove</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>riptide!</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

22. configuration.package.show

This methods displays currently configured parameters for the specified package(s).

Method Help Text

Help:

This method shows the configuration of a package.

Return Value

Return:

nil:

Parameter Descriptors (4)

Refer to [Table 21](#) for a complete list of parameter descriptors.

Table 21. configuration.package.show API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
packageID	integer		Enter the package ID you wish to view. 0 to list all.
Display	integer	0 = configuration 2 = status 1 = summary	Enter the <i>Numeric Selector</i> representing the type of information you want to view. You can view package configurations on the <i>Packager</i> (select configuration), status for a particular package (select status), or summarized package information (select summary).

Sample Request - configuration

```
<?xml version="1.0"?>
<methodCall>
```

```
<methodName>configuration.package.show</methodName>
<params>
  <param>
    <value>
      <string>admin</string>
    </value>
  </param>
  <param>
    <value>
      <string>rcode!</string>
    </value>
  </param>
  <param>
    <value>
      <int>5</int>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
</params>
</methodCall>
```

Sample Response - configuration

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:packageID:Package ID</name>
                  <value>
                    <i4>1</i4>
                  </value>
                </member>
                <member>
                  <name>002:1:name:Name</name>
                  <value>
                    <string>NewPackage</string>
                  </value>
                </member>
                <member>
                  <name>003:1:packageType:Package Type</name>
```

```
<value>
  <string>Apple HTTP Live Streaming(1)</string>
</value>
</member>
<member>
  <name>004:1:packageMode:Package Mode</name>
  <value>
    <string>vod(2)</string>
  </value>
</member>
<member>
  <name>005:1:adminState:Administrative State</name>
  <value>
    <string>stopped(0)</string>
  </value>
</member>
<member>
  <name>006:1:operState:Operational State</name>
  <value>
    <string>unknown(0)</string>
  </value>
</member>
<member>
  <name>007:1:outputStream:Output Stream</name>
  <value>
    <array>
      <data>
        <value>
          <string>http://10.10.70.243/hls/1/sub-directory/
NewPackage/index.m3u8</string>
        </value>
      </data>
    </array>
  </value>
</member>
<member>
  <name>008:1:Configuration:Configuration</name>
  <value>
    <struct>
      <member>
        <name>000:1:segmentMode:Segment Mode</name>
        <value>
          <string>IDR periodic(2)</string>
        </value>
      </member>
      <member>
        <name>001:1:segmentDuration:Segment Duration</name>
        <value>
          <i4>5</i4>
        </value>
      </member>
    </struct>
  </value>
</member>
```

```
    </value>
  </member>
  <member>
    <name>002:1:segmentLifeSpan:Segment Life Span</name>
    <value>
      <i4>0</i4>
    </value>
  </member>
  <member>
    <name>003:1:redundancyMode:Redundancy Mode</name>
    <value>
      <string>single output(1)</string>
    </value>
  </member>
  <member>
    <name>004:1:redundancyPeer:Redundancy Peer</name>
    <value>
      <string>10.32.128.109</string>
    </value>
  </member>
  <member>
    <name>005:1:duration:Duration</name>
    <value>
      <i4>3600</i4>
    </value>
  </member>
  <member>
    <name>006:1:inputType:Input Type</name>
    <value>
      <string>stream(1)</string>
    </value>
  </member>
  <member>
    <name>007:1:inputID:Input ID</name>
    <value>
      <i4>1</i4>
    </value>
  </member>
  <member>
    <name>008:1:infileName:Input File Name</name>
    <value>
      <string>N/A</string>
    </value>
  </member>
  <member>
    <name>009:1:audioMap:Audio Map</name>
    <value>
      <string>aac_eng_Prm_all_Alt</string>
    </value>
  </member>
```



```
name>
    </member>
    <member>
      <name>013:1:enableLinearTTML:Enable TTML</name>
      <value>
        <string>>false(0)</string>
      </value>
    </member>
    <member>
      <name>014:1:keyServerVendor:Key Server Vendor Name</
name>
      <value>
        <string>KPN(16)</string>
      </value>
    </member>
    <member>
      <name>015:1:keyResourceId:Key Resource ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>016:1:contentId:Content ID</name>
      <value>
        <string>KPN-ContentID</string>
      </value>
    </member>
    <member>
      <name>017:1:contentIdType:Content ID Type</name>
      <value>
        <string>None(0)</string>
      </value>
    </member>
    <member>
      <name>018:1:policyId:Policy ID</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>019:1:keyRotation:Key Rotation</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>020:1:keyDeletePolicy:Key Deletion Policy</
name>
      <value>
        <string>NoDeletion(0)</string>
      </value>
```

```
name>
    </member>
    <member>
        <name>021:1:contentName:Content Name</name>
        <value>
            <string/>
        </value>
    </member>
    <member>
        <name>022:1:contentDescription:Content Description</
        <value>
            <string/>
        </value>
    </member>
    <member>
        <name>023:1:subContentType:Subcontent Type</name>
        <value>
            <string/>
        </value>
    </member>
    <member>
        <name>024:1:policyGroupId:Policy Group ID</name>
        <value>
            <i4>0</i4>
        </value>
    </member>
</struct>
</value>
</member>
</struct>
</value>
<value>
    <struct>
        <member>
            <name>001:1:packageID:Package ID</name>
            <value>
                <i4>3</i4>
            </value>
        </member>
        <member>
            <name>002:1:name:Name</name>
            <value>
                <string>JaxTest</string>
            </value>
        </member>
        <member>
            <name>003:1:packageType:Package Type</name>
            <value>
                <string>Apple HTTP Live Streaming(1)</string>
            </value>
```

```
</member>
<member>
  <name>004:1:packageMode:Package Mode</name>
  <value>
    <string>continuous-record(4)</string>
  </value>
</member>
<member>
  <name>005:1:adminState:Administrative State</name>
  <value>
    <string>stopped(0)</string>
  </value>
</member>
<member>
  <name>006:1:operState:Operational State</name>
  <value>
    <string>unknown(0)</string>
  </value>
</member>
<member>
  <name>007:1:outputStream:Output Stream</name>
  <value>
    <array>
      <data>

</data>

    </array>
  </value>
</member>
<member>
  <name>008:1:Configuration:Configuration</name>
  <value>
    <struct>
      <member>
        <name>000:1:segmentMode:Segment Mode</name>
        <value>
          <string>IDR periodic(2)</string>
        </value>
      </member>
      <member>
        <name>001:1:segmentDuration:Segment Duration</name>
        <value>
          <i4>5</i4>
        </value>
      </member>
      <member>
        <name>002:1:segmentLifeSpan:Segment Life Span</name>
        <value>
          <i4>0</i4>
        </value>
      </member>
    </struct>
  </value>
</member>
```

```
<member>
  <name>003:1:redundancyMode:Redundancy Mode</name>
  <value>
    <string>single output(1)</string>
  </value>
</member>
<member>
  <name>004:1:redundancyPeer:Redundancy Peer</name>
  <value>
    <string>10.32.128.109</string>
  </value>
</member>
<member>
  <name>005:1:duration:Duration</name>
  <value>
    <i4>1800</i4>
  </value>
</member>
<member>
  <name>006:1:inputType:Input Type</name>
  <value>
    <string>stream(1)</string>
  </value>
</member>
<member>
  <name>007:1:inputID:Input ID</name>
  <value>
    <i4>1</i4>
  </value>
</member>
<member>
  <name>008:1:infileName:Input File Name</name>
  <value>
    <string>N/A</string>
  </value>
</member>
<member>
  <name>009:1:audioMap:Audio Map</name>
  <value>
    <string>aac_eng_Prm_all_Alt</string>
  </value>
</member>
<member>
  <name>010:1:subDirectory:Subdirectory Path</name>
  <value>
    <string/>
  </value>
</member>
<member>
  <name>011:1:outputs:Outputs</name>
```

```
<value>
  <array>
    <data>
      <value>
        <struct>
          <member>
            <name>001:1:outputID:Output ID</name>
            <value>
              <i4>1</i4>
            </value>
          </member>
          <member>
            <name>002:1:outputType:Output Type</name>
            <value>
              <string>file(0)</string>
            </value>
          </member>
          <member>
            <name>003:1:outContent:Content Type</name>
            <value>
              <string>all(1)</string>
            </value>
          </member>
        </struct>
      </value>
      <value>
        <struct>
          </struct>
        </struct>
      </value>
      <value>
        <struct>
          </struct>
        </struct>
      </value>
    </data>
  </array>
</value>
</member>
<member>
  <name>012:1:thumbnail:Thumbnail</name>
  <value>
    <string>false(0)</string>
  </value>
</member>
<member>
  <name>013:1:enableLinearTTML:Enable TTML</name>
  <value>
    <string>false(0)</string>
  </value>
</member>
</member>
```

```
name>                                <name>014:1:keyServerVendor:Key Server Vendor Name</
                                     <value>
                                       <string>None(0)</string>
                                     </value>
                                   </member>
                                   <member>
                                     <name>015:1:keyResourceId:Key Resource ID</name>
                                     <value>
                                       <i4>0</i4>
                                     </value>
                                   </member>
                                   <member>
                                     <name>016:1:contentId:Content ID</name>
                                     <value>
                                       <string/>
                                     </value>
                                   </member>
                                   <member>
                                     <name>017:1:contentIdType:Content ID Type</name>
                                     <value>
                                       <string>None(0)</string>
                                     </value>
                                   </member>
                                   <member>
                                     <name>018:1:policyId:Policy ID</name>
                                     <value>
                                       <string/>
                                     </value>
                                   </member>
                                   <member>
                                     <name>019:1:keyRotation:Key Rotation</name>
                                     <value>
                                       <i4>0</i4>
                                     </value>
                                   </member>
                                   <member>
                                     <name>020:1:keyDeletePolicy:Key Deletion Policy</
name>                                <value>
                                       <string>NoDeletion(0)</string>
                                     </value>
                                   </member>
                                   <member>
                                     <name>021:1:contentName:Content Name</name>
                                     <value>
                                       <string/>
                                     </value>
                                   </member>
                                   </member>
```

```
name>                                <name>022:1:contentDescription:Content Description</
                                     <value>
                                       <string/>
                                     </value>
                                   </member>
                                   <member>
                                     <name>023:1:subContentType:Subcontent Type</name>
                                     <value>
                                       <string/>
                                     </value>
                                   </member>
                                   <member>
                                     <name>024:1:policyGroupId:Policy Group ID</name>
                                     <value>
                                       <i4>0</i4>
                                     </value>
                                   </member>
                                 </struct>
                               </value>
                             </member>
                           </struct>
                         </value>
                       </data>
                     </array>
                   </value>
                 </param>
               </params>
             </methodResponse>
```

23. configuration.package.start

This method starts package processing for the specified package(s).

Method Help Text

Help:

This method starts a package.

Return Value

Return:

nil:

Parameter Descriptors (3)

Refer to [Table 22](#) for a complete list of parameter descriptors.

Table 22. configuration.package.start API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
packageID	integer		Enter the package ID you wish to start.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.package.start</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

24. configuration.package.stop

This method stops processing for the specified package(s).

Method Help Text

Help:

This method stops a packaging session.

Return Value

Return:

nil:

Parameter Descriptors (3)

Refer to [Table 23](#) for a complete list of parameter descriptors.

Table 23. configuration.package.stop API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
packageID	integer		Enter the package ID you wish to stop.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.package.stop</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>riptide!</string>
      </value>
    </param>
    <param>
      <value>
        <int>1</int>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

25. configuration.session.show

This method shows all current segments being generated for *Packager* and the state of each stream associated with the segment (package). You can optionally include to display JITP segments as well.

Method Help Text

Help:

This method returns one or more session information as requested.

Paging only applies when retrieving all sessions.

Dynamic and Paging values are ignored when retrieving a specific session ID.

Return Value

Return:

array:Requested session(s) info

Parameter Descriptors (7)

Refer to [Table 24](#) for a complete list of parameter descriptors.

Table 24. configuration.session.show API parameters

Parm Name	Type	Numeric Selectors (for Int type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
sessionID	integer	0 = retrieve all sessions	Enter the ID assigned to the session by the <i>Packager</i> .
showJITP	integer	0 = false 1 = true	Enter whether to show Just-in-Time packaging sessions in the results: true or false.
pageSize	integer	0 = display on 1 page	Enter how many entries to retrieve and display on one results page. Enter 0 to display all results on one page.
pageSessionStart	integer	0 = retrieve 1st available	Enter the session ID from which to retrieve results. Enter 0 to retrieve results from the first available session ID.
workorderID	integer	0 = retrieve all	Enter the workorder ID from which to retrieve results. Enter 0 to retrieve results from all sessions.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>configuration.session.show</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
```

```
        </value>
      </param>
      <param>
        <value>
          <string>ripcode!</string>
        </value>
      </param>
      <param>
        <value>
          <int>0</int>
        </value>
      </param>
      <param>
        <value>
          <int>0</int>
        </value>
      </param>
      <param>
        <value>
          <int>0</int>
        </value>
      </param>
      <param>
        <value>
          <int>0</int>
        </value>
      </param>
      <param>
        <value>
          <int>0</int>
        </value>
      </param>
      <param>
        <value>
          <int>0</int>
        </value>
      </param>
    </params>
  </methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:state:State</name>
                  <value>
                    <string>inProgress(3)</string>
```

```
        </value>
      </member>
    <member>
      <name>002:1:sessionID:Session ID</name>
      <value>
        <i4>1</i4>
      </value>
    </member>
    <member>
      <name>003:1:workorderID:Workorder ID</name>
      <value>
        <i4>7</i4>
      </value>
    </member>
    <member>
      <name>004:1:timeStarted:Time Started</name>
      <value>
        <string>Fri Jun 27 01:33:16 2014
</string>
        </value>
    </member>
    <member>
      <name>005:1:workflowName:Workflow Name</name>
      <value>
        <string>Package 1/Group 1</string>
      </value>
    </member>
    <member>
      <name>006:1:infileName:Input File Name</name>
      <value>
        <string>hds</string>
      </value>
    </member>
    <member>
      <name>007:1:Input:Input</name>
      <value>
        <i4>1</i4>
      </value>
    </member>
    <member>
      <name>008:1:redundancyMode:Redundancy Mode</name>
      <value>
        <string>Primary</string>
      </value>
    </member>
    <member>
      <name>009:1:redundancyPeer:Redundancy Peer</name>
      <value>
        <string>0.0.0.0</string>
      </value>
```

```

    </member>
    <member>
      <name>009:3:workorderStep:Workorder Step</name>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:3:stepState:Step State</name>
                  <value>
                    <string>inProgress(3)</string>
                  </value>
                </member>
                <member>
                  <name>002:3:stepType:Step Type</name>
                  <value>
                    <string>encode(2)</string>
                  </value>
                </member>
                <member>
                  <name>003:3:transcoderID:Transcoder ID</name>
                  <value>
                    <i4>1</i4>
                  </value>
                </member>
                <member>
                  <name>004:3:totalFramesTranscoded:Total Frames
Transcoded</name>
                  <value>
                    <i4>39421</i4>
                  </value>
                </member>
                <member>
                  <name>005:3:segmentCnt:Segment Generated</name>
                  <value>
                    <i4>245</i4>
                  </value>
                </member>
                <member>
                  <name>006:3:totalFrames:Total Frames</name>
                  <value>
                    <i4>0</i4>
                  </value>
                </member>
                <member>
                  <name>007:3:maxQueueDepth:Maximum Queue Depth</
name>
                  <value>
                    <i4>0</i4>

```

```
name>
    </value>
  </member>
  <member>
    <name>008:3:currQueueDepth:Current Queue Depth</
    <value>
      <i4>0</i4>
    </value>
  </member>
  <member>
    <name>009:3:framesPerSec:Frames Per Second</
    <value>
      <string>29.580 / 29.970</string>
    </value>
  </member>
  <member>
    <name>010:3:bitRateStats:Bit Rate Stats</name>
    <value>
      <string>2299215 / 2904000</string>
    </value>
  </member>
  <member>
    <name>011:3:transport:Transport/Usage</name>
    <value>
      <string>file(1)</string>
    </value>
  </member>
  <member>
    <name>012:3:outfileName:Output File Name</name>
    <value>
      <string>/hds</string>
    </value>
  </member>
  <member>
    <name>013:1:output:Output</name>
    <value>
      <i4>1</i4>
    </value>
  </member>
  <member>
    <name>014:1:inSync:In Sync</name>
    <value>
      <i4>1</i4>
    </value>
  </member>
  <member>
    <name>015:1:retry:Retry Count</name>
    <value>
      <i4>0</i4>
```

```
        </value>
      </member>
    <member>
      <name>016:1:publishing:Publishing</name>
      <value>
        <string>>true(1)</string>
      </value>
    </member>
  </struct>
</value>
</data>
</array>
</value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:state:State</name>
      <value>
        <string>inProgress(3)</string>
      </value>
    </member>
    <member>
      <name>002:1:sessionID:Session ID</name>
      <value>
        <i4>2</i4>
      </value>
    </member>
    <member>
      <name>003:1:workorderID:Workorder ID</name>
      <value>
        <i4>8</i4>
      </value>
    </member>
    <member>
      <name>004:1:timeStarted:Time Started</name>
      <value>
        <string>Fri Jun 27 01:33:17 2014
      </string>
      </value>
    </member>
    <member>
      <name>005:1:workflowName:Workflow Name</name>
      <value>
        <string>Package 2/Group 1</string>
      </value>
    </member>
  </struct>
</member>
```

```
<name>006:1:infileName:Input File Name</name>
<value>
  <string>HLS</string>
</value>
</member>
<member>
  <name>007:1:Input:Input</name>
  <value>
    <i4>1</i4>
  </value>
</member>
<member>
  <name>008:1:redundancyMode:Redundancy Mode</name>
  <value>
    <string>Primary</string>
  </value>
</member>
<member>
  <name>009:1:redundancyPeer:Redundancy Peer</name>
  <value>
    <string>0.0.0.0</string>
  </value>
</member>
<member>
  <name>009:3:workorderStep:Workorder Step</name>
  <value>
    <array>
      <data>
        <value>
          <struct>
            <member>
              <name>001:3:stepState:Step State</name>
              <value>
                <string>InProgress(3)</string>
              </value>
            </member>
            <member>
              <name>002:3:stepType:Step Type</name>
              <value>
                <string>encode(2)</string>
              </value>
            </member>
            <member>
              <name>003:3:transcoderID:Transcoder ID</name>
              <value>
                <i4>2</i4>
              </value>
            </member>
          </struct>
        </value>
      </data>
    </array>
  </value>
</member>
</member>
```

```
Transcoded</name>
    <name>004:3:totalFramesTranscoded:Total Frames
    <value>
        <i4>39199</i4>
    </value>
</member>
<member>
<name>005:3:segmentCnt:Segment Generated</name>
    <value>
        <i4>245</i4>
    </value>
</member>
<member>
    <name>006:3:totalFrames:Total Frames</name>
    <value>
        <i4>0</i4>
    </value>
</member>
<member>
<name>007:3:maxQueueDepth:Maximum Queue Depth</
name>
    <value>
        <i4>0</i4>
    </value>
</member>
<member>
<name>008:3:currQueueDepth:Current Queue Depth</
name>
    <value>
        <i4>0</i4>
    </value>
</member>
<member>
    <name>009:3:framesPerSec:Frames Per Second</
name>
    <value>
        <string>0.000 / 29.970</string>
    </value>
</member>
<member>
    <name>010:3:bitRateStats:Bit Rate Stats</name>
    <value>
        <string>0 / 2904000</string>
    </value>
</member>
<member>
    <name>011:3:transport:Transport/Usage</name>
    <value>
        <string>file(1)</string>
    </value>
```

```
        </member>
        <member>
          <name>012:3:outfileName:Output File Name</name>
          <value>
            <string>/HLS</string>
          </value>
        </member>
        <member>
          <name>013:1:output:Output</name>
          <value>
            <i4>0</i4>
          </value>
        </member>
        <member>
          <name>014:1:inSync:In Sync</name>
          <value>
            <i4>1</i4>
          </value>
        </member>
        <member>
          <name>015:1:retry:Retry Count</name>
          <value>
            <i4>0</i4>
          </value>
        </member>
        <member>
          <name>016:1:publishing:Publishing</name>
          <value>
            <string>true(1)</string>
          </value>
        </member>
      </struct>
    </value>
  </data>
</array>
</value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:state:State</name>
      <value>
        <string>inProgress(3)</string>
      </value>
    </member>
    <member>
      <name>002:1:sessionID:Session ID</name>
      <value>
```

```
        <i4>3</i4>
      </value>
    </member>
    <member>
      <name>003:1:workorderID:Workorder ID</name>
      <value>
        <i4>9</i4>
      </value>
    </member>
    <member>
      <name>004:1:timeStarted:Time Started</name>
      <value>
        <string>Fri Jun 27 01:33:18 2014
</string>
      </value>
    </member>
    <member>
      <name>005:1:workflowName:Workflow Name</name>
      <value>
        <string>Package 3/Group 1</string>
      </value>
    </member>
    <member>
      <name>006:1:infileName:Input File Name</name>
      <value>
        <string>HLS-DO</string>
      </value>
    </member>
    <member>
      <name>007:1:Input:Input</name>
      <value>
        <i4>1</i4>
      </value>
    </member>
    <member>
      <name>008:1:redundancyMode:Redundancy Mode</name>
      <value>
        <string>Primary</string>
      </value>
    </member>
    <member>
      <name>009:1:redundancyPeer:Redundancy Peer</name>
      <value>
        <string>0.0.0.0</string>
      </value>
    </member>
    <member>
      <name>009:3:workorderStep:Workorder Step</name>
      <value>
        <array>
```

```
<data>
  <value>
    <struct>
      <member>
        <name>001:3:stepState:Step State</name>
        <value>
          <string>inProgress(3)</string>
        </value>
      </member>
      <member>
        <name>002:3:stepType:Step Type</name>
        <value>
          <string>encode(2)</string>
        </value>
      </member>
      <member>
        <name>003:3:transcoderID:Transcoder ID</name>
        <value>
          <i4>3</i4>
        </value>
      </member>
      <member>
        <name>004:3:totalFramesTranscoded:Total Frames
Transcoded</name>
        <value>
          <i4>39199</i4>
        </value>
      </member>
      <member>
        <name>005:3:segmentCnt:Segment Generated</name>
        <value>
          <i4>245</i4>
        </value>
      </member>
      <member>
        <name>006:3:totalFrames:Total Frames</name>
        <value>
          <i4>0</i4>
        </value>
      </member>
      <member>
        <name>007:3:maxQueueDepth:Maximum Queue Depth</
name>
        <value>
          <i4>0</i4>
        </value>
      </member>
      <member>
        <name>008:3:currQueueDepth:Current Queue Depth</
name>
```

```
name>
    <value>
      <i4>0</i4>
    </value>
  </member>
  <member>
    <name>009:3:framesPerSec:Frames Per Second</
    <value>
      <string>0.000 / 29.970</string>
    </value>
  </member>
  <member>
    <name>010:3:bitRateStats:Bit Rate Stats</name>
    <value>
      <string>0 / 2904000</string>
    </value>
  </member>
  <member>
    <name>011:3:transport:Transport/Usage</name>
    <value>
      <string>file(1)</string>
    </value>
  </member>
  <member>
    <name>012:3:outfileName:Output File Name</name>
    <value>
      <string>/HLS-DO</string>
    </value>
  </member>
  <member>
    <name>013:1:output:Output</name>
    <value>
      <i4>0</i4>
    </value>
  </member>
  <member>
    <name>014:1:inSync:In Sync</name>
    <value>
      <i4>1</i4>
    </value>
  </member>
  <member>
    <name>015:1:retry:Retry Count</name>
    <value>
      <i4>0</i4>
    </value>
  </member>
  <member>
    <name>016:1:publishing:Publishing</name>
    <value>
```

```
        <string>true(1)</string>
      </value>
    </member>
  </struct>
</value>
</data>
</array>
</value>
</member>
</struct>
</value>
</data>
</array>
</value>
</param>
</params>
</methodResponse>
```

26. sysconfig.database.threshold.set

This method allows you to set high watermark threshold levels for system events, including percent of CPU utilization, percent of memory utilization, percent of disk utilization, percent of network utilization, and UDP error threshold limits.

Method Help Text

Help:

This method sets high watermark threshold levels for system events.

Return Value

Return:

int:Return code.

Parameter Descriptors (6)

Refer to [Table 25](#) for a complete list of parameter descriptors.

Table 25. sysconfig.database.threshold.set API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
cpu	integer	1 to 100	Enter the high threshold for CPU utilization from 1-100 percent.
memory	integer	1 to 100	Enter the high threshold for memory utilization from 1-100 percent.
disk	integer	1 to 100	Enter the high threshold for system disk utilization from 1-100 percent.
network	integer	1 to 100	Enter the high threshold for network utilization from 1-100 percent.
udpErrors	integer	0 to 2147483647	Enter the high threshold for UDP error counts over an interval. The value is an integer designating the number of UDP error counts.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>sysconfig.database.threshold.set</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
```

```
    <value>
      <string>ripcode!</string>
    </value>
  </param>
  <param>
    <value>
      <int>90</int>
    </value>
  </param>
  <param>
    <value>
      <int>85</int>
    </value>
  </param>
  <param>
    <value>
      <int>92</int>
    </value>
  </param>
  <param>
    <value>
      <int>80</int>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
</params>
</methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

27. sysconfig.keyserver.add

This method allows you to configure key servers for *Packager* that manage encryption keys with client players.

Method Help Text

Help:

This method adds a keyserver.

Return Value

Return:

int:DB return code.

Parameter Descriptors (18)

Refer to [Table 26](#) for a complete list of parameter descriptors.

Table 26. sysconfig.keyserver.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
KeyServerUrl	string	n/a	Only applies when BuyDRM, CKM, Verimatrix or Nagra are chosen. The URL where the key server is running.
tcpPort	integer	0 to 65535	Only appears when Verimatrix, CKM, Nagra, NdsCisco, RgbAPI, or KPN are chosen. Enter the port number under which the key server is running on the URL provided.
keyServerVendor	integer	1 = VerimatrixHLS 2 = BuyDRM 3 = CKM 4 = Nagra 5 = InternalHLS 6 = VerimatrixPlayready 7 = InternalFlashAccess 8 = Latens 9 = SecureMedia 10 = Conax 11 = Irdeto 12 = InternalPlayready 13 = NdsCisco 14 = RgbAPI 15 = Mezzanine 16 = KPN	Enter the Numeric Selector representing the name of the vendor for the key server you are adding.

Table 26. sysconfig.keyserver.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
KeyServerUserKey	string	n/a	Only applies when BuyDRM is chosen. Enter an authentication key sent during registration from the key server.
ClientCertFile	string	n/a	Only applies when CKM is chosen. Enter the URL for downloading the key server certificate used for authenticating the client.
ClientKeyFile	string	n/a	Only applies when CKM is chosen. Enter the URL for downloading the private key used for authenticating the client.
ClientKeyPass	string	n/a	Only applies when CKM is chosen. Enter the password for the private key that is used to authenticate the client.
TrustBundleFile	string	n/a	Only applies when CKM is chosen. Enter the URL for downloading the Trust Bundle used with CKM authentication.
accountId	string	n/a	Only applies when Irdeto is chosen. Enter the account ID used in conjunction with the Irdeto key.
UserName	string	n/a	Only applies when Conax, Irdeto, or KPN is chosen. Enter the user name to use for logging in to the key server.
UserPassword	string	n/a	Only applies when Conax, Irdeto, or KPN is chosen. Enter the user password to use for logging in to the key server.
BaseClientKeyURL	string	n/a	Only applies when InternalHLS^a, InternalFlashAccess, or InternalPlayready is chosen. Enter the URL from which the client should request a key. Syntax as follows: http://<hostname or IP address>/<subdirectory> e.g. http://10.10.5.6/HlsKeys -or- http://KeyHost/HlsKeys
outputType	integer	0 = file 1 = stream	Only applies when InternalHLS is chosen. Select file if <i>Packager</i> is serving keys, or if key files are being stored on a remote nfs/cifs mount. Select stream if key files are to be sent to a remote HLS Key Server via Web-dav or edgeware.
outputID	integer		Only applies when InternalHLS is chosen. Enter 0 if <i>Packager</i> is serving keys; otherwise pick the desired output directory. For example, 1 <i>U OutDir</i> .

Table 26. sysconfig.keyserver.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
KeyServerUserKey	string	n/a	Only applies when BuyDRM is chosen. Enter an authentication key sent during registration from the key server.
ClientCertFile	string	n/a	Only applies when CKM is chosen. Enter the URL for downloading the key server certificate used for authenticating the client.
ClientKeyFile	string	n/a	Only applies when CKM is chosen. Enter the URL for downloading the private key used for authenticating the client.
ClientKeyPass	string	n/a	Only applies when CKM is chosen. Enter the password for the private key that is used to authenticate the client.
TrustBundleFile	string	n/a	Only applies when CKM is chosen. Enter the URL for downloading the Trust Bundle used with CKM authentication.
accountId	string	n/a	Only applies when Irdeto is chosen. Enter the account ID used in conjunction with the Irdeto key.
UserName	string	n/a	Only applies when Conax, Irdeto, or KPN is chosen. Enter the user name to use for logging in to the key server.
UserPassword	string	n/a	Only applies when Conax, Irdeto, or KPN is chosen. Enter the user password to use for logging in to the key server.
BaseClientKeyURL	string	n/a	Only applies when InternalHLS^a, InternalFlashAccess, or InternalPlayready is chosen. Enter the URL from which the client should request a key. Syntax as follows: http://<hostname or IP address>/<subdirectory> e.g. http://10.10.5.6/HlsKeys -or- http://KeyHost/HlsKeys
outputType	integer	0 = file 1 = stream	Only applies when InternalHLS is chosen. Select file if <i>Packager</i> is serving keys, or if key files are being stored on a remote nfs/cifs mount. Select stream if key files are to be sent to a remote HLS Key Server via Web-dav or edgeware.
outputID	integer		Only applies when InternalHLS is chosen. Enter 0 if <i>Packager</i> is serving keys; otherwise pick the desired output directory. For example, 1 <i>U OutDir</i> .

Table 26. sysconfig.keyserver.add API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
subDirectory	string	n/a	When Internal is chosen: Enter the subdirectory on the output mount where where <i>Packager</i> will place the key files. When InternalHLS is chosen: Enter the subdirectory in the output mount. This entry should match the subdirectory configured in the <i>Client key request URL</i> field. Syntax as follows: <pre><subdirectory> e.g. <HlsKeys></pre>
keySeed	string	n/a	Only applies when InternalPlayready is chosen. Enter the Playready key seed.

a. InternalHLS has been optimized for small-scale deployments such as lab environments, demo systems, etc.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>sysconfig.keyserver.add</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>http://iisrgbistesting.mytest.com/livedrmservice/
livedrmservice.asmx</string>
      </value>
    </param>
    <param>
      <value>
        <int>0</int>
      </value>
    </param>
    <param>
      <value>
        <int>11</int>
      </value>
    </param>
  </params>
</methodCall>
```

```
    </value>
  </param>
  <param>
    <value>
      <string/>
    </value>
  </param>
  <param>
    <value>
      <string/>
    </value>
  </param>
  <param>
    <value>
      <string/>
    </value>
  </param>
  <param>
    <value>
      <string/>
    </value>
  </param>
  <param>
    <value>
      <string>RGBencrypt</string>
    </value>
  </param>
  <param>
    <value>
      <string>admin@Demo.com</string>
    </value>
  </param>
  <param>
    <value>
      <string>RGBdemo234</string>
    </value>
  </param>
  <param>
    <value>
      <string/>
    </value>
  </param>
  <param>
```

```
    <value>
      <int>0</int>
    </value>
  </param>
  <param>
    <value>
      <int>0</int>
    </value>
  </param>
  <param>
    <value>
      <string/>
    </value>
  </param>
</params>
</methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

28. sysconfig.keyserver.remove

This method removes an existing key server from *Packager's* configuration.

Method Help Text

Help:

This method removes a key server.

Return Value

Return:

int:DB return code.

Parameter Descriptors (3)

Refer to [Table 27](#) for a complete list of parameter descriptors.

Table 27. sysconfig.keyserver.remove API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
KeyServerUrl	string	n/a	Enter the URL of the key server you wish to remove.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>sysconfig.keyserver.remove</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>http://vcas3.rgbnetworks.com/CAB/keyfile</string>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

29. sysconfig.keyserver.show

This method displays all configured key server information for *Packager*.

Method Help Text

Help:

This method shows key server data.

Return Value

Return:

nil:

Parameter Descriptors (3)

Refer to [Table 28](#) for a complete list of parameter descriptors.

Table 28. sysconfig.keyserver.show API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
KeyServerUrl	string	n/a	Enter the URL of the key server whose information you wish to view.

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>sysconfig.keyserver.show</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string/>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <array>
          <data>
            <value>
              <struct>
                <member>
                  <name>001:1:KeyServerUrl:Key Server URL</name>
                  <value>
                    <string>http://74.62.179.10/CAB/keyfile</string>
                  </value>
                </member>
                <member>
                  <name>002:1:tcpPort:TCP port number</name>
                  <value>
                    <i4>12684</i4>
                  </value>
                </member>
                <member>
                  <name>003:1:keyServerVendor:Key Server Vendor Name</name>
                  <value>
                    <string>VerimatrixHLS</string>
                  </value>
                </member>
                <member>
                  <name>004:1:UserKey:UserKey</name>
                  <value>
                    <string/>
                  </value>
                </member>
                <member>
                  <name>005:1:ClientCertFile:Client Certificate</name>
                  <value>
                    <string/>
                  </value>
                </member>
                <member>
                  <name>006:1:ClientKeyFile:Client Key</name>
                  <value>
                    <string/>
                  </value>
                </member>
                <member>
                  <name>007:1:ClientKeyPass:Client Key Password</name>
                  <value>
```

```
        <string>****</string>
    </value>
</member>
<member>
    <name>008:1:TrustBundleFile:Trust Bundle</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>009:1:BaseClientKeyURL:Client key request URL</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>010:1:outputType:Output Type</name>
    <value>
        <i4>0</i4>
    </value>
</member>
<member>
    <name>011:1:outputID:Output ID</name>
    <value>
        <i4>0</i4>
    </value>
</member>
<member>
    <name>012:1:subDirectory:Subdirectory Path</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>013:1:accountId:Account ID</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>014:1:UserName:User Name</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>015:1:UserPassword:User Password</name>
    <value>
        <string>****</string>
    </value>
```

```
</member>
<member>
  <name>016:1:keySeed:Playready key seed</name>
  <value>
    <string/>
  </value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:KeyServerUrl:Key Server URL</name>
      <value>
        <string>http://vcas3.rgbnetworks.com/CAB/keyfile</string>
      </value>
    </member>
    <member>
      <name>002:1:tcpPort:TCP port number</name>
      <value>
        <i4>12684</i4>
      </value>
    </member>
    <member>
      <name>003:1:keyServerVendor:Key Server Vendor Name</name>
      <value>
        <string>VerimatrixHLS</string>
      </value>
    </member>
    <member>
      <name>004:1:UserKey:UserKey</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>005:1:ClientCertFile:Client Certificate</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>006:1:ClientKeyFile:Client Key</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>007:1:ClientKeyPass:Client Key Password</name>
      <value>
```

```
        <string>****</string>
    </value>
</member>
<member>
    <name>008:1:TrustBundleFile:Trust Bundle</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>009:1:BaseClientKeyURL:Client key request URL</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>010:1:outputType:Output Type</name>
    <value>
        <i4>0</i4>
    </value>
</member>
<member>
    <name>011:1:outputID:Output ID</name>
    <value>
        <i4>0</i4>
    </value>
</member>
<member>
    <name>012:1:subDirectory:Subdirectory Path</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>013:1:accountId:Account ID</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>014:1:UserName:User Name</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>015:1:UserPassword:User Password</name>
    <value>
        <string>****</string>
    </value>
```

```
</member>
<member>
  <name>016:1:keySeed:Playready key seed</name>
  <value>
    <string/>
  </value>
</member>
</struct>
</value>
<value>
  <struct>
    <member>
      <name>001:1:KeyServerUrl:Key Server URL</name>
      <value>
        <string>/opt/ripcode/www/pages/HlsKeys</string>
      </value>
    </member>
    <member>
      <name>002:1:tcpPort:TCP port number</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>003:1:keyServerVendor:Key Server Vendor Name</name>
      <value>
        <string>InternalHLS</string>
      </value>
    </member>
    <member>
      <name>004:1:UserKey:UserKey</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>005:1:ClientCertFile:Client Certificate</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>006:1:ClientKeyFile:Client Key</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>007:1:ClientKeyPass:Client Key Password</name>
      <value>
```

```
        <string>****</string>
    </value>
</member>
<member>
    <name>008:1:TrustBundleFile:Trust Bundle</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>009:1:BaseClientKeyURL:Client key request URL</name>
    <value>
        <string>http://10.10.107.31</string>
    </value>
</member>
<member>
    <name>010:1:outputType:Output Type</name>
    <value>
        <i4>0</i4>
    </value>
</member>
<member>
    <name>011:1:outputID:Output ID</name>
    <value>
        <i4>0</i4>
    </value>
</member>
<member>
    <name>012:1:subDirectory:Subdirectory Path</name>
    <value>
        <string>HlsKeys</string>
    </value>
</member>
<member>
    <name>013:1:accountId:Account ID</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>014:1:UserName:User Name</name>
    <value>
        <string/>
    </value>
</member>
<member>
    <name>015:1:UserPassword:User Password</name>
    <value>
        <string>****</string>
    </value>
```

```
        </member>
        <member>
            <name>016:1:keySeed:Playready key seed</name>
            <value>
                <string/>
            </value>
        </member>
    </struct>
</value>
<value>
    <struct>
        <member>
            <name>001:1:KeyServerUrl:Key Server URL</name>
            <value>
                <string>http://10.10.88.145:8080/flashaccessserver/
rgbtest</string>
            </value>
        </member>
        <member>
            <name>002:1:tcpPort:TCP port number</name>
            <value>
                <i4>0</i4>
            </value>
        </member>
        <member>
            <name>003:1:keyServerVendor:Key Server Vendor Name</name>
            <value>
                <string>InternalFlashAccess</string>
            </value>
        </member>
        <member>
            <name>004:1:UserKey:UserKey</name>
            <value>
                <string/>
            </value>
        </member>
        <member>
            <name>005:1:ClientCertFile:Client Certificate</name>
            <value>
                <string/>
            </value>
        </member>
        <member>
            <name>006:1:ClientKeyFile:Client Key</name>
            <value>
                <string/>
            </value>
        </member>
        <member>
            <name>007:1:ClientKeyPass:Client Key Password</name>
```

```
        <value>
          <string>****</string>
        </value>
      </member>
    <member>
      <name>008:1:TrustBundleFile:Trust Bundle</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>009:1:BaseClientKeyURL:Client key request URL</name>
      <value>
        <string>http://10.10.88.145:8080/flashaccessserver/
rgbtest</string>
      </value>
    </member>
    <member>
      <name>010:1:outputType:Output Type</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>011:1:outputID:Output ID</name>
      <value>
        <i4>0</i4>
      </value>
    </member>
    <member>
      <name>012:1:subDirectory:Subdirectory Path</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>013:1:accountId:Account ID</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>014:1:UserName:User Name</name>
      <value>
        <string/>
      </value>
    </member>
    <member>
      <name>015:1:UserPassword:User Password</name>
      <value>
```

```
        <string>****</string>
      </value>
    </member>
    <member>
      <name>016:1:keySeed:Playready key seed</name>
      <value>
        <string/>
      </value>
    </member>
  </struct>
</value>
</data>
</array>
</value>
</param>
</params>
</methodResponse>
```

30. sysconfig.license.update

This method updates the configured license server for *Packager* with a new license key. You can enter either the key itself or the location where the license key file is stored.

Method Help Text

This method updates the Licenses on the currently active License Server using TFTP, HTTP, local file, or copied key strings.

When copying key strings, select all of the strings in the file and paste into the File URL box.

NOTE: Internal file URL only works for License files accessible on the local filesystem of the host running this TransAct software.

NOTE: Verify the currently configured or active License Server to ensure you are updating the desired Server!

Return Value

Result:

string:Result of License update request.

Parameter Descriptors

Refer to [Table 29](#) for a complete list of parameter descriptors.

Table 29. sysconfig.license.update API parameters

Parm Name	Type	Numeric Selectors	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password
licenseFileUrl	string	n/a	Enter the full HTTP or TFTP URL to the remote license key file. For example: http://remotehost/path/to/licenseFile.key tftp://remotehost/path/to/licenseFile.key Notes: - This field can also accept a path to a file located on the local host. - Format should be: file://<full_path_to_file> For example: file:///tmp/file.key The easiest method of updating a license is to copy and paste the entire license key strings from the key file you received from RGB Customer Support

Sample Request

```
<?xml version="1.0"?>
<methodCall>
  <methodName>sysconfig.license.update</methodName>
  <params>
    <param>
      <value>
        <string>admin</string>
      </value>
    </param>
    <param>
      <value>
        <string>ripcode!</string>
      </value>
    </param>
    <param>
      <value>
        <string>*D
mL7jQqIp,Yvap0xluEidLlSirh,r1IgZPokemanBAVBP3GwC314QEGolqI0QYlWi3gL-
Hi105YhMcX v2tUBgC2Lnxf9XESFaImCrushingYouBbdediSIpesbRGTfTbQA-
Hyg,vD4YU:g7bLIyILikeCheeseKhAOeaxIAqDX-vTaPN3O# "TAP" version "Packager",
expires Midnight of Aug 24, 2015, exclusive##AID=8e300d7d-a53c-420-af68-
5319009c5a596405</string>
      </value>
    </param>
  </params>
</methodCall>
```

Sample Response

```
<?xml version="1.0"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>Operation successful.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

31. sysconfig.restart

This method restarts the *Packager* application. All current packaging operations for the device will terminate.

Method Help Text

Help:

This method causes an immediate restart of the TransAct Application.

Help:

WARNING: This command will terminate all outstanding jobs!

PROMPT_YESNO:WARNING: This operation causes an immediate restart of the TransAct Application! Continue?

Return Value

Return:

string:Result of the command request.

Parameter Descriptors (2)

Refer to [Table 30](#) for a complete list of parameter descriptors.

Table 30. sysconfig.restart API parameters

Parm Name	Type	Numeric Selectors (for <i>Int</i> type)	Description
username	string	n/a	Enter user name
password	string	n/a	Enter user password

Sample Request

```
<?xml version="1.0"?>
<methodCall>
```

```
<methodName>sysconfig.restart</methodName>
<params>
  <param>
    <value>
      <string>admin</string>
    </value>
  </param>
  <param>
    <value>
      <string>ripcode!</string>
    </value>
  </param>
</params>
</methodCall>
```

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>
        <string>TransAct Applications are being restarted.  Web Interface
connection to this device will be unresponsive for several seconds until the
restart is complete.</string>
      </value>
    </param>
  </params>
</methodResponse>
```

Contacting RGB Customer Support

This chapter provides information on how to contact RGB Customer Support.

Contacting RGB Customer Support

RGB Customer Support is available 24x7. If after reviewing this section you still require assistance, please contact RGB Customer Support via any of the following methods:

Table 31. Contacting RGB Customer Support

Method	Contact Information
E-mail	support@rgbnetworks.com
Internet	http://www.rgbnetworks.com/support/rgb-customer-portal.php
Inside North America	1.877.RGB.NETW // (1.877.742.6389)
Outside the North America	+1.408.701.2800

Information Required for Troubleshooting

Prior to contacting customer support, it will be useful to gather debug information using the following API methods:

```
sysconfig.debug.info.execute  
sysconfig.debug.info.retrieve
```

Issuing these commands will create a `debuginfo.tgz` file which can be downloaded from a URL.