



# Delta Media Server

## Stack HTTP API

Specification



## Stack HTTP API : Specification

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## Introduction

The Stack web interface includes a fully documented HTTP API for discovering and interacting with Delta Media Servers over a local network. It contains a PHP SDK library to integrate control of Delta Media Server directly into PHP applications with hosting capabilities on the server, and provides an add-on framework for developing fully customisable web extensions including user interfaces and interactive web resources.

## Stack API Operations

### In this document: Sample Return for True/False responses

Where no Sample Response is given it should be assumed that the command returns only a true/false value in the following format:

```
{
  "status": 0,
  "msg": "Function: [commandName] called OK",
  "data": true
}
```

Interactive examples of all operations is also available embedded within the API:

GET Set the playhead location of a timeline by frame

GET Set the playhead location of a timeline by time

GET Set the playhead location of a timeline to a set marker

**Parameters**

Parameter	Value	Description	Parameter Type	Data Type
marker	<input type="text" value="(required)"/>	<b>Marker Name</b>	query	string
andPlay	<input type="checkbox"/>	Play from marker (Default: false)	query	boolean
t1	<input type="text"/>	Timeline ID	query	integer

Try it out!

GET Clear all auto delete movies on a timeline

GET Dynamically insert a media resource

GET Insert a Movie resource onto the timeline

**Parameters**

Parameter	Value	Description	Parameter Type	Data Type
resourceName	<input type="text" value="(required)"/>	<b>Pool resource name</b>	query	string
newName	<input type="text"/>	New timeline resource name	query	string
ctrlName	<input type="text"/>	New external control name	query	integer
frame	<input type="text"/>	Frame number	query	integer
layer	<input type="text"/>	Layer, 1-255 or "background"	query	string
length	<input type="text"/>	Length in frames	query	integer
inpoint	<input type="text"/>	Inpoint is the frame of the movie it will start on	query	integer
outpoint	<input type="text"/>	Outpoint is the frame of the	query	integer

## Network Discovery

<b>Route</b>	/network/deltas
<b>Summary</b>	Find all Delta Servers on the local network
<b>Sample URL</b>	http://192.168.0.1/api/network/deltas
<b>Sample Response</b>	<pre>{   "status": 0,   "msg": "Network discovery OK",   "data": [     {       "version": "2.0:5",       "ip": "10.100.101.101",       "tcpport": "23",       "name": "Delta1",       "udpporttx": "7780",       "udpportrx": "7781",       "group": "9",       "leader": "1",       "multicastport": "7776"     },     {       "version": "2.0:5",       "ip": "10.100.101.102",       "tcpport": "23",       "name": "Delta2",       "udpporttx": "7780",       "udpportrx": "7781",       "group": "9",       "leader": "0",       "multicastport": "7776"     }   ] }</pre>



## externalControl

<b>Route</b>	/delta/rpc/externalControl			
<b>Summary</b>	Sends raw external control strings to the Delta Server			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/externalControl?msg=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	msg	External Control Command	Required	string
<b>Sample Response</b>	<pre>{   "status": 0,   "msg": "Function: externalControl called OK",   "data": true }</pre>			

## getHelloData

<b>Route</b>	/delta/rpc/getHelloData			
<b>Summary</b>	Returns the data used when the Delta Server was discovered			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getHelloData			
<b>Sample Response</b>	<pre>{   "status": 0,   "msg": "Function: getHelloData called OK",   "data": {     "version": "2.0:5",     "ip": "10.100.101.114",     "tcpport": "23",     "name": "Delta1",     "udpporttx": "7780",     "udpportrx": "7781",     "group": "9",     "leader": "1",     "multicastport": "7776"   } }</pre>			

## getName

---

<b>Route</b>	/delta/rpc/getName
<b>Summary</b>	Returns the Delta Server's name
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getName
<b>Sample Response</b>	<pre>{   "status": 0,   "msg": "Function: getName called OK",   "data": "Delta1" }</pre>

## getIP

---

<b>Route</b>	/delta/rpc/getIP
<b>Summary</b>	Returns the Delta Server's IP address
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getIP
<b>Sample Response</b>	<pre>{   "status": 0,   "msg": "Function: getIP called OK",   "data": "10.100.101.114" }</pre>

## getGroup

---

<b>Route</b>	/delta/rpc/getGroup
<b>Summary</b>	Returns the Delta Server's group
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getGroup
<b>Sample Response</b>	<pre>{   "status": 0,   "msg": "Function: getGroup called OK",   "data": "9" }</pre>

## setGroup

<b>Route</b>	/delta/rpc/setGroup			
<b>Summary</b>	Set a Delta Server's group			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/setGroup?group=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Group	New group number	Required	integer

## isLeader

<b>Route</b>	/delta/rpc/isLeader			
<b>Summary</b>	Check if Delta Server is a Leader server			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/isLeader			

## isMaster (legacy)

**Please note:** From 2020 7thSense deprecated the terms master and slave for the dependencies between devices. We now refer throughout to 'Leader' and 'Follower' in our products.

To maintain functionality, both terminologies continue to work internally, but our documentation no longer uses the former terms. Users of pre-2020 products will need to observe the equivalence and continue to use the previous legacy terms.

<b>Route</b>	/delta/rpc/isMaster			
<b>Summary</b>	Check if Delta Server is a master server			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/isMaster			

## setLeader

---

<b>Route</b>	/delta/rpc/setLeader
<b>Summary</b>	Set the Delta Server to be a Leader server
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/setLeader

## setMaster (legacy)

---

<b>Route</b>	/delta/rpc/setMaster
<b>Summary</b>	Set the Delta Server to be a master server
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/setMaster

## setFollower

---

<b>Route</b>	/delta/rpc/setFollower
<b>Summary</b>	Set the Delta Server to be a Follower server
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/setFollower

## setSlave (legacy)

---

**Please note:** From 2020 7thSense deprecated the terms master and slave for the dependencies between devices. We now refer throughout to 'Leader' and 'Follower' in our products.

To maintain functionality, both terminologies continue to work internally, but our documentation no longer uses the former terms. Users of pre-2020 products will need to observe the equivalence and continue to use the previous legacy terms.

<b>Route</b>	/delta/rpc/setSlave
<b>Summary</b>	Set the Delta Server to be a slave server
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/setSlave

## getStatus

<b>Route</b>	/delta/rpc/getStatus
<b>Summary</b>	Returns status information
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getStatus

## getShortStatus

<b>Route</b>	/delta/rpc/getShortStatus			
<b>Summary</b>	Returns short status information			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getShortStatus?tl=[integer]&smpte=[boolean]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer
	SMPTE	True: Return time as SMPTE, False: Return time in frames		boolean
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getShortStatus called OK",   "data": {     "time": "273",     "mode": "Stopped"   } }</pre>			

## getAudioLevel

<b>Route</b>	/delta/rpc/getAudioLevel
<b>Summary</b>	Returns the global audio level
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getAudioLevel
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getAudioLevel called OK",   "data": "100" }</pre>

## getVideoLevel

<b>Route</b>	/delta/rpc/getVideoLevel
<b>Summary</b>	Returns the global video level
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getVideoLevel
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getVideoLevel called OK",   "data": "100" }</pre>

## setAudioLevel

<b>Route</b>	/delta/rpc/setAudioLevel			
<b>Summary</b>	Set the global audio level			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/setAudioLevel?value=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Value	Percentage	Required	integer

## setVideoLevel

<b>Route</b>	/delta/rpc/setVideoLevel			
<b>Summary</b>	Set the global video level			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/setVideoLevel?value=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Value	Percentage	Required	integer

## getFrameRate

<b>Route</b>	/delta/rpc/getFrameRate			
<b>Summary</b>	Returns the timeline framerate			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getFrameRate			
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getFrameRate called OK",   "data": "30.0" }</pre>			

## getResourceXML

<b>Route</b>	/delta/rpc/getResourceXML			
<b>Summary</b>	Returns current server resources in XML format			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getResourceXML			

## enableReserve

---

<b>Route</b>	/delta/rpc/enableReserve
<b>Summary</b>	Enable the reserve timeline
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/enableReserve

## disableReserve

---

<b>Route</b>	/delta/rpc/disableReserve
<b>Summary</b>	Disable the reserve timeline
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/disableReserve

## getShowList

---

<b>Route</b>	/delta/rpc/getShowList
<b>Summary</b>	Returns a list of available show files
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getShowList
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getShowList called OK",   "data": [     "blank.xml",     "demo show.xml",     "test show.xml"   ] }</pre>



## loadShow

<b>Route</b>	/delta/rpc/loadShow			
<b>Summary</b>	Load a show file			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/loadShow?show=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Show	Show file name	Required	string

## getGlobalVarList

<b>Route</b>	/delta/rpc/getGlobalVarList
<b>Summary</b>	Returns all global variables
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getGlobalVarList
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getGlobalVarList called OK",   "data": [     {       "key": "\$var1",       "value": "test",       "type": "STRING"     }   ] }</pre>

## getGlobalVar

<b>Route</b>	/delta/rpc/getGlobalVar			
<b>Summary</b>	Returns a specified global variable			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getGlobalVar?key=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Key	Global variable key	Required	string
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getGlobalVar called OK",   "data": "test" }</pre>			

## setGlobalVar

<b>Route</b>	/delta/rpc/setGlobalVar			
<b>Summary</b>	Set the value of a global variable			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/setGlobalVar?key=[string]&value=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Key	Global variable key	Required	string
	Value	Global variable value	Required	string

## deleteGlobalVar

<b>Route</b>	/delta/rpc/deleteGlobalVar			
<b>Summary</b>	Delete a global variable			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/deleteGlobalVar?key=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	key	Global variable key	Required	string

## getMarkers

<b>Route</b>	/delta/rpc/getMarkers
<b>Summary</b>	Lists all markers
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getMarkers
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getMarkers called OK",   "data": [     {       "name": "Start Marker",       "frame": "68",       "tl": "1"     },     {       "name": "Stop Marker",       "frame": "119",       "tl": "1"     }   ] }</pre>

## getAvailableSequences

---

<b>Route</b>	/delta/rpc/getAvailableSequences
<b>Summary</b>	Returns available sequences
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getAvailableSequences
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getAvailableSequences called OK",   "data": [     "start of day",     "end of day",     "show start",     "house lights up"   ] }</pre>

## getActiveSequences

---

<b>Route</b>	/delta/rpc/getActiveSequences
<b>Summary</b>	Returns currently running sequences
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getActiveSequences
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getActiveSequences called OK",   "data": [     "start of day"   ] }</pre>

## startSequence

<b>Route</b>	/delta/rpc/startSequence			
<b>Summary</b>	Start a new instance of a sequence			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/startSequence?sequenceName=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	sequenceName	Sequence name	Required	string

## pauseSequence

<b>Route</b>	/delta/rpc/pauseSequence			
<b>Summary</b>	Pause a currently running sequence instance			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/pauseSequence?sequenceName=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	sequenceName	Sequence name	Required	string

## resumeSequence

<b>Route</b>	/delta/rpc/resumeSequence			
<b>Summary</b>	Resume a paused sequence instance			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/resumeSequence?sequenceName=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	sequenceName	Sequence name	Required	string

## cancelSequence

<b>Route</b>	/delta/rpc/cancelSequence			
<b>Summary</b>	Cancel a currently running sequence instance			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/cancelSequence?sequenceName=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	sequenceName	Sequence name	Required	string

## cancelAllSequences

<b>Route</b>	/delta/rpc/cancelAllSequences			
<b>Summary</b>	Cancel all currently running sequence instances			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/cancelAllSequences			

## getPoolResources

<b>Route</b>	/delta/rpc/getPoolResources			
<b>Summary</b>	Returns pool resources by a specified type			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/getPoolResources?pool=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Pool	Resource Type (movies, images, audio)	Required	string
<b>Sample response</b>	<pre>{   "status": 0,   "msg": "Function: getPoolResources called OK",   "data": [     "4kJenga_",     "LineAnimation_"   ] }</pre>			

## refreshResources

---

<b>Route</b>	/delta/rpc/refreshResources
<b>Summary</b>	Refreshes the resource pool
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/refreshResources

## reloadImages

---

<b>Route</b>	/delta/rpc/reloadImages
<b>Summary</b>	Forces reloading of all images on the timeline
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/reloadImages

## reloadImage

---

<b>Route</b>	/delta/rpc/reloadImage			
<b>Summary</b>	Forces reloading of a single image on the timeline			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/reloadImage?ctrlName= <i>[string]</i>			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	ctrlName	Image resource name	Required	string

## play

<b>Route</b>	/delta/rpc/play			
<b>Summary</b>	Play a timeline			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/play?tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer

## stop

<b>Route</b>	/delta/rpc/stop			
<b>Summary</b>	Stop a timeline			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/stop?tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer

## rewind

<b>Route</b>	/delta/rpc/rewind			
<b>Summary</b>	Rewind a timeline			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/rewind?tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer



## advance

<b>Route</b>	/delta/rpc/advance			
<b>Summary</b>	Advance a timeline by number of frames			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/advance?tl=[integer]&noFrames=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	tl	Timeline ID		integer
	noFrames	Number of frames	Required	integer

## stepback

<b>Route</b>	/delta/rpc/stepback			
<b>Summary</b>	Stepback a timeline by number of frames			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/stepback?tl=[integer]&noFrames=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	tl	Timeline ID		integer
	noFrames	Number of frames	Required	integer

## gotoFrame

<b>Route</b>	/delta/rpc/gotoFrame			
<b>Summary</b>	Set the playhead location of a timeline by frame			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/gotoFrame?frameNo=[string]&tl=[integer]&andPlay=[boolean]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	frameNo	Frame number	Required	string
	tl	Timeline ID		integer
	andPlay	Play from frame (Default: false)		boolean

## gotoTime

<b>Route</b>	/delta/rpc/gotoTime			
<b>Summary</b>	Set the playhead location of a timeline by time			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/gotoTime?time=[string]&frameRate=[integer]&andPlay=[boolean]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Time	Time (in format HH:MM:SS:FF)	Required	string
	framerate	Frame Rate of the time value given	Required	integer
	andPlay	Play from time (Default: false)		Boolean
	tl	Timeline ID	integer	

## gotoMarker

<b>Route</b>	/delta/rpc/gotoMarker			
<b>Summary</b>	Set the playhead location of a timeline to a set marker			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/gotoMarker?marker=[string]&andPlay=[boolean]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	marker	Marker Name	Required	string
	andPlay	Play from marker (Default: false)		Boolean
	tl	Timeline ID		integer

## mediaClearAutoDeletes

<b>Route</b>	/delta/rpc/mediaClearAutoDeletes			
<b>Summary</b>	Clear all auto delete movies on a timeline			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/mediaClearAutoDeletes			

## mediaInsert

<b>Route</b>	/delta/rpc/mediaInsert			
<b>Summary</b>	Dynamically insert a media resource			
<b>Sample URL</b>	<pre>http://192.168.0.1/api/delta/rpc/mediaInsert?resourceType=[string] &amp;resourceName=[string]&amp;frame=[integer]&amp;layer=[integer]&amp;x=[integer]&amp;y=[integer] &amp;w=[integer]&amp;h=[integer]&amp;ctrlname=[string]&amp;length=[integer]&amp;mapping=[string] &amp;channel=[integer]&amp;cropping=[string]&amp;fullscreen=[boolean]&amp;autoDelete=[boolean] &amp;tl=[integer]</pre>			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	resourceType	Resource type	Required	string
	resourceName	Resource name	Required	string
	frame	Frame Number		integer
	layer	Layer Number		integer
	x	X Position		integer
	y	Y Position		integer
	w	Width		integer
	h	Height		integer
	ctrlname	External Control Name		string
	length	Length in Frames of new timeline resource		integer
	mapping	"channel" or "flat"		string
	channel	Channel number if channel mapped		integer
	cropping	L% R% T% B%		string
	fullscreen	Fullscreen (true, false)		Boolean
	autodelete	Autodelete (true, false)		Boolean
	tl	Timeline ID		integer

## insertMovie

<b>Route</b>	/delta/rpc/insertMovie			
<b>Summary</b>	Insert a Movie resource onto the timeline			
<b>Sample URL</b>	<pre>http://192.168.0.1/api/delta/rpc/insertMovie?resourceName=[string] &amp;newName=[string]&amp;ctrlName=[integer]&amp;frame=[integer]&amp;layer=[string] &amp;length=[integer]&amp;mapping=[string]&amp;x=[integer]&amp;y=[integer]&amp;w=[integer]&amp;h=[integer] &amp;channel=[integer]&amp;cropping=[string]&amp;feather=[integer]&amp;autoDelete=[boolean] &amp;autoPlay=[boolean]&amp;parentCtrlName=[string]&amp;itemEnabled=[boolean] &amp;containerOverrides=[string]&amp;duration=[float]&amp;fadeUp=[float]&amp;fadeDown=[float] &amp;crossFade=[boolean]&amp;playMode=[string]&amp;noLoop=[boolean] &amp;repeatCount=[integer]&amp;tl=[integer]</pre>			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	resourceName	Pool resource name	Required	string
	newname	New timeline resource name		string
	ctrlName	New external control name		integer
	frame	Frame number		integer
	layer	Layer, 1-255 or "background"		string
	length	Length in frames		integer
	mapping	"channel", "flat" or "fullscreen"		string
	x	X Position		integer
	y	Y Position		integer
	w	Width		integer
	h	Height		integer
	channel	Channel number if channel mapped		integer
	cropping	Percentage crop "L% R% T% B%"		string
	feather	Percentage edge feather		integer
	autodelete	Set autodelete		Boolean
	autoPlay	Set autoplay		Boolean

parentCtrlName	External control name of the parent container (container items only)	string
itemEnabled	Set container item enabled state (container items only)	Boolean
containerOverrides	Comma separated list of property keys. Options: duration, general, features, location, animation, keying, colour, mesh, fade, playmode (containers and container items only)	string
duration	Set the item duration in seconds (requires duration override) (containers and container items only)	float
fadeUp	Set fade up time in seconds (requires fade override) (containers and container items only)	float
fadeDown	Set fade down time in seconds (requires fade override) (containers and container items only)	float
crossFade	Set crossfade (requires fade override) (containers and container items only)	Boolean
playMode	Set the item play mode. Options: playntimes or trigger (requires playmode override) (containers and container items only)	string
noLoop	Set item to not loop (requires playmode override) (containers and container items only)	Boolean
repeatCount	Set item repeat count (requires playmode override) (containers and container items only)	integer
tl	Timeline ID	integer

## insertImage

<b>Route</b>	/delta/rpc/insertImage			
<b>Summary</b>	Insert an Image resource onto the timeline			
<b>Sample URL</b>	<pre>http://192.168.0.1/api/delta/rpc/insertImage?resourceName=[string] &amp;newName=[string]&amp;ctrlName=[integer]&amp;frame=[integer]&amp;layer=[string] &amp;length=[integer]&amp;mapping=[string]&amp;x=[integer]&amp;y=[integer]&amp;w=[integer]&amp;h=[integer] &amp;channel=[integer]&amp;cropping=[string]&amp;feather=[integer]&amp;autoDelete=[boolean] &amp;autoPlay=[boolean]&amp;parentCtrlName=[string]&amp;itemEnabled=[boolean] &amp;containerOverrides=[string]&amp;duration=[float]&amp;fadeUp=[float]&amp;fadeDown=[float] &amp;crossFade=[boolean]&amp;playMode=[string]&amp;noLoop=[boolean] &amp;repeatCount=[integer]&amp;tl=[integer]</pre>			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	ResourceName	Pool resource name	Required	string
	newname	New timeline resource name		string
	ctrlName	New external control name		integer
	frame	Frame number		integer
	layer	Layer, 1-255 or "background"		string
	length	Length in frames		integer
	mapping	"channel", "flat" or "fullscreen"		string
	x	X Position		integer
	y	Y Position		integer
	w	Width		integer
	h	Height		integer
	channel	Channel number if channel mapped		integer
	cropping	Percentage crop "L% R% T% B%"		string
	feather	Percentage edge feather		integer
	autodelete	Set autodelete		Boolean
	autoPlay	Set autoplay		Boolean

parentCtrlName	External control name of the parent container (container items only)	string
itemEnabled	Set container item enabled state (container items only)	Boolean
containerOverrides	Comma separated list of property keys. Options: duration, general, features, location, animation, keying, colour, mesh, fade, playmode (containers and container items only)	string
duration	Set the item duration in seconds (requires duration override) (containers and container items only)	float
fadeUp	Set fade up time in seconds (requires fade override) (containers and container items only)	float
fadeDown	Set fade down time in seconds (requires fade override) (containers and container items only)	float
crossFade	Set crossfade (requires fade override) (containers and container items only)	Boolean
playMode	Set the item play mode. Options: playntimes or trigger (requires playmode override) (containers and container items only)	string
noLoop	Set item to not loop (requires playmode override) (containers and container items only)	Boolean
repeatCount	Set item repeat count (requires playmode override) (containers and container items only)	integer
tl	Timeline ID	integer



## insertCapture

<b>Route</b>	/delta/rpc/insertCapture			
<b>Summary</b>	Insert a Capture resource onto the timeline			
<b>Sample URL</b>	<pre>http://192.168.0.1/api/delta/rpc/insertCapture?resourceName=[string] &amp;newName=[string]&amp;ctrlName=[integer]&amp;frame=[integer]&amp;layer=[string] &amp;length=[integer]&amp;mapping=[string]&amp;x=[integer]&amp;y=[integer]&amp;w=[integer]&amp;h=[integer] &amp;channel=[integer]&amp;cropping=[string]&amp;feather=[integer]&amp;autoDelete=[boolean] &amp;autoPlay=[boolean]&amp;parentCtrlName=[string]&amp;itemEnabled=[boolean] &amp;containerOverrides=[string]&amp;duration=[float]&amp;fadeUp=[float]&amp;fadeDown=[float] &amp;crossFade=[boolean]&amp;playMode=[string]&amp;noLoop=[boolean] &amp;repeatCount=[integer]&amp;tl=[integer]</pre>			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	resourceName	Pool resource name	Required	string
	newname	New timeline resource name		string
	ctrlName	New external control name		integer
	frame	Frame number		integer
	layer	Layer, 1-255 or "background"		string
	length	Length in frames		integer
	mapping	"channel", "flat" or "fullscreen"		string
	x	X Position		integer
	y	Y Position		integer
	w	Width		integer
	h	Height		integer
	channel	Channel number if channel mapped		integer
	cropping	Percentage crop "L% R% T% B%"		string
	feather	Percentage edge feather		integer
	autodelete	Set autodelete		Boolean
	autoPlay	Set autoplay		Boolean

parentCtrlName	External control name of the parent container (container items only)	string
itemEnabled	Set container item enabled state (container items only)	Boolean
containerOverrides	Comma separated list of property keys. Options: duration, general, features, location, animation, keying, colour, mesh, fade, playmode (containers and container items only)	string
duration	Set the item duration in seconds (requires duration override) (containers and container items only)	float
fadeUp	Set fade up time in seconds (requires fade override) (containers and container items only)	float
fadeDown	Set fade down time in seconds (requires fade override) (containers and container items only)	float
crossFade	Set crossfade (requires fade override) (containers and container items only)	Boolean
playMode	Set the item play mode. Options: playntimes or trigger (requires playmode override) (containers and container items only)	string
noLoop	Set item to not loop (requires playmode override) (containers and container items only)	Boolean
repeatCount	Set item repeat count (requires playmode override) (containers and container items only)	integer
tl	Timeline ID	integer

## insertContainer

<b>Route</b>	/delta/rpc/insertContainer			
<b>Summary</b>	Insert a Container resource onto the timeline			
<b>Sample URL</b>	<pre>http://192.168.0.1/api/delta/rpc/insertContainer?resourceName=[string] &amp;newName=[string]&amp;ctrlName=[integer]&amp;frame=[integer]&amp;layer=[string] &amp;length=[integer]&amp;mapping=[string]&amp;x=[integer]&amp;y=[integer]&amp;w=[integer]&amp;h=[integer] &amp;cropping=[string]&amp;feather=[integer]&amp;channel=[integer]&amp;parentCtrlName=[string] &amp;itemEnabled=[boolean]&amp;startFromLastItem=[boolean] &amp;containerOverrides=[string]&amp;duration=[float]&amp;fadeUp=[float]&amp;fadeDown=[float] &amp;crossFade=[boolean]&amp;playMode=[string]&amp;noLoop=[boolean] &amp;repeatCount=[integer]&amp;tl=[integer]</pre>			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	ResourceName	Pool resource name	Required	string
	newname	New timeline resource name		string
	ctrlName	New external control name		integer
	frame	Frame number		integer
	layer	Layer, 1-255 or "background"		string
	length	Length in frames		integer
	mapping	"channel", "flat" or "fullscreen"		string
	x	X Position		integer
	y	Y Position		integer
	w	Width		integer
	h	Height		integer
	cropping	Percentage crop "L% R% T% B%"		string
	feather	Percentage edge feather		integer
	channel	Channel number if channel mapped		integer
	parentCtrlName	External control name of the parent container (container items only)		string
	itemEnabled	Set container item enabled state (container items only)		Boolean

startFromLastItem	Set container start from the last played item (containers only)	Boolean
containerOverrides	Comma separated list of property keys. Options: duration, general, features, location, animation, keying, colour, mesh, fade, playmode (containers and container items only)	string
duration	Set the item duration in seconds (requires duration override) (containers and container items only)	float
fadeUp	Set fade up time in seconds (requires fade override) (containers and container items only)	float
fadeDown	Set fade down time in seconds (requires fade override) (containers and container items only)	float
crossFade	Set crossfade (requires fade override) (containers and container items only)	Boolean
playMode	Set the item play mode. Options: playtimes or trigger (requires playmode override) (containers and container items only)	string
noLoop	Set item to not loop (requires playmode override) (containers and container items only)	Boolean
repeatCount	Set item repeat count (requires playmode override) (containers and container items only)	integer
tl	Timeline ID	integer

## insertAudio

<b>Route</b>	/delta/rpc/insertAudio			
<b>Summary</b>	Insert an Audio resource onto the timeline			
<b>Sample URL</b>	<pre>http://192.168.0.1/api/delta/rpc/insertAudio?resourceName=[string] &amp;newName=[string]&amp;ctrlName=[integer]&amp;frame=[integer]&amp;layer=[string] &amp;length=[integer]&amp;audioChannels=[string]&amp;audioLevels=[string] &amp;autoDelete=[boolean]&amp;autoPlay=[boolean]&amp;parentCtrlName=[string] &amp;itemEnabled=[boolean]&amp;containerOverrides=[string]&amp;duration=[float] &amp;fadeUp=[float]&amp;fadeDown=[float]&amp;crossFade=[boolean]&amp;playMode=[string] &amp;noLoop=[boolean]&amp;repeatCount=[integer]&amp;tl=[integer]</pre>			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	ResourceName	Pool resource name	Required	string
	newname	New timeline resource name		string
	ctrlName	New external control name		integer
	frame	Frame number		integer
	layer	Layer, 1-255 or "background"		string
	length	Length in frames		integer
	audioChannels	Comma separated list of audio channel numbers, all if not specified, e.g: "1,2,3"		string
	audioLevels	Comma separated list of audio levels (percent), corresponds with audioChannels or all channels if only one value is given. eg: "25,50,75"		string
	autodelete	Set autodelete		Boolean
	autoPlay	Set autoplay		Boolean
	parentCtrlName	External control name of the parent container (container items only)		string
	itemEnabled	Set container item enabled state (container items only)		Boolean

containerOverrides	Comma separated list of property keys. Options: duration, general, features, location, animation, keying, colour, mesh, fade, playmode (containers and container items only)	string
duration	Set the item duration in seconds (requires duration override) (containers and container items only)	float
fadeUp	Set fade up time in seconds (requires fade override) (containers and container items only)	float
fadeDown	Set fade down time in seconds (requires fade override) (containers and container items only)	float
crossFade	Set crossfade (requires fade override) (containers and container items only)	Boolean
playMode	Set the item play mode. Options: playntimes or trigger (requires playmode override) (containers and container items only)	string
noLoop	Set item to not loop (requires playmode override) (containers and container items only)	Boolean
repeatCount	Set item repeat count (requires playmode override) (containers and container items only)	integer
tl	Timeline ID	integer

## insertControl

<b>Route</b>	/delta/rpc/insertControl			
<b>Summary</b>	Insert a Control resource onto the timeline			
<b>Sample URL</b>	<pre>http://192.168.0.1/api/delta/rpc/insertControl?resourceName=[string] &amp;newName=[string]&amp;ctrlName=[integer]&amp;frame=[integer]&amp;layer=[string] &amp;gotoFrame=[integer]&amp;gotoAction=[string]&amp;markerAction=[string] &amp;markerName=[string]&amp;markerHotkey=[string]&amp;autoDelete=[boolean]&amp;tl=[integer]</pre>			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	resourceName	Pool resource name	Required	string
	newname	New timeline resource name	string	
	ctrlName	New external control name		integer
	frame	Frame number		integer
	layer	Layer, 1-255 or "background"		string
	gotoFrame	Frame number to go to (goto only)		integer
	gotoAction	Action to take after going to new position, "play" or "stop" (default) (goto only)		string
	markerAction	Action to take on playing into marker, "play" (default) or "stop" (marker only)		string
	markerName	Unique name for marker (marker only)		string
	markerHotkey	Hotkey to link with this marker using keys ctrl, shift, f1-12 or 0-9, format example: "f1", "shift2", "ctrlshiftf3" (marker only)		string
	autodelete	Set autodelete		Boolean
	tl	Timeline ID		integer

## insertEffect

<b>Route</b>	/delta/rpc/insertEffect			
<b>Summary</b>	Insert an Effect resource onto the timeline			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/insertEffect?resourceName=[string]&newName=[string]&ctrlName=[integer]&frame=[integer]&layer=[string]&length=[integer]&direction=[string]&autoDelete=[boolean]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	resourceName	Pool resource name	Required	string
	newname	New timeline resource name	string	
	ctrlName	New external control name		integer
	frame	Frame number		integer
	layer	Layer, 1-255 or "background"		string
	length	Length in frames		integer
	direction	Transition direction for fade or transparency effects, "up" or "down"		string
	autodelete	Set autodelete		Boolean
	tl	Timeline ID		integer



## insertGeometry

<b>Route</b>	/delta/rpc/insertGeometry			
<b>Summary</b>	Insert a Geometry resource onto the timeline			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/insertGeometry?resourceName=[string]&newName=[string]&ctrlName=[integer]&frame=[integer]&layer=[string]&channel=[integer]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	resourceName	Pool resource name	Required	string
	newname	New timeline resource name		string
	ctrlName	New external control name		integer
	frame	Frame number		integer
	layer	Layer, 1-255 or "background"		string
	channel	Channel number if channel mapped		integer
	tl	Timeline ID		integer

## insertBlend

<b>Route</b>	/delta/rpc/insertBlend			
<b>Summary</b>	Insert a Blend resource onto the timeline			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/insertBlend?resourceName=[string]&newName=[string]&ctrlName=[integer]&frame=[integer]&channel=[integer]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	resourceName	Pool resource name	Required	string
	newname	New timeline resource name		string
	ctrlName	New external control name		integer
	frame	Frame number		integer
	channel	Channel number if channel mapped		integer
	tl	Timeline ID		integer

## insertSerialEvent

<b>Route</b>	/delta/rpc/insertSerialEvent			
<b>Summary</b>	Insert a Serial Event resource onto the timeline			
<b>Sample URL</b>	<pre>http://192.168.0.1/api/delta/rpc/insertSerialEvent?resourceName=[string] &amp;newName=[string]&amp;ctrlName=[integer]&amp;frame=[integer]&amp;layer=[string] &amp;ipAddress=[string]&amp;port=[integer]&amp;repeatEnable=[boolean]&amp;repeatCount=[integer] &amp;repeatFrames=[integer]&amp;command=[string]&amp;addFrame=[boolean] &amp;autoDelete=[boolean]&amp;tl=[integer]</pre>			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	resourceName	Pool resource name	Required	string
	newname	New timeline resource name		string
	ctrlName	New external control name		integer
	frame	Frame number		integer
	layer	Layer, 1-255 or "background"		string
	ipAddress	Set ip address		string
	port	Set port		integer
	repeatEnable	Enable repetitions		Boolean
	repeatCount	Set number of repetitions		integer
	repeatFrames	Set repetition interval in frames		integer
	command	Set the command string to be sent by event		string
	addFrame	Append the current frame no. to the command string		Boolean
	autodelete	Set autodelete		Boolean
	tl	Timeline ID		integer

## mediaEnable

<b>Route</b>	/delta/rpc/mediaEnable			
<b>Summary</b>	Enable a media resource			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/mediaEnable?ctrlName=[string]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	ctrlName	External Control name	Required	string
	tl	Timeline ID		integer

## mediaMove

<b>Route</b>	/delta/rpc/mediaMove			
<b>Summary</b>	Move a media resource			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/mediaMove?ctrlName=[string]&x=[integer]&y=[integer]&w=[integer]&h=[integer]&r=[integer]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	ctrlName	External Control name	Required	string
	x	X Position	Required	integer
	y	Y Position	Required	integer
	w	Width	Required	integer
	h	Height	Required	integer
	r	Roll		integer
	tl	Timeline ID		integer

## mediaDisable

<b>Route</b>	/delta/rpc/mediaDisable			
<b>Summary</b>	Disable a media resource			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/mediaDisable?ctrlName=[string]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	ctrlName	External Control name	Required	string
	tl	Timeline ID		integer

## mediaRemove

<b>Route</b>	/delta/rpc/mediaRemove			
<b>Summary</b>	Remove a media resource from a timeline			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/mediaRemove?ctrlName=[string]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	ctrlName	External Control name	Required	string
	tl	Timeline ID		integer

## setTextParams

<b>Route</b>	/delta/rpc/setTextParams			
<b>Summary</b>	Set <b>Parameters</b> of a text resource			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/setTextParams?resourceName=[string]&newText=[string]&fontSize=[string]&r=[integer]&g=[integer]&b=[integer]&tl=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	resourceName	Resource Name	Required	string
	newText	New Text Value	Required	string
	fontSize	Font Size	Required	string
	r Red	(0-255)		integer
	g Green	(0-255)		integer
	b Blue	(0-255)		integer
	tl	Timeline ID		integer

## globalFadeUp

<b>Route</b>	/delta/rpc/globalFadeUp			
<b>Summary</b>	Timed global video fade up			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/globalFadeUp?duration=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Duration	Duration of fade	Required	string

## globalFadeDown

<b>Route</b>	/delta/rpc/globalFadeDown			
<b>Summary</b>	Timed global video fade down			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/globalFadeDown?duration=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	Duration	Duration of fade	Required	string

## layerFade

<b>Route</b>	/delta/rpc/layerFade			
<b>Summary</b>	Set the opacity of a timeline layer			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/layerFade?tl=[integer]&layer=[integer]&opacity=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer
	Layer	Layer ID	Required	integer
	Opacity	Opacity %	Required	integer

## layerFadeTimed

<b>Route</b>	/delta/rpc/layerFadeTimed			
<b>Summary</b>	Start a timed fade of opacity of a timeline layer			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/layerFadeTimed?tl=[integer]&layer=[integer]&direction=[string]&duration=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer
	Layer	Layer ID	Required	integer
	Direction	Direction of fade (up, down)	Required	string
	Duration	Duration of fade	Required	string

## layerFadeTimedAll

<b>Route</b>	/delta/rpc/layerFadeTimedAll			
<b>Summary</b>	Start a timed fade of opacity of a timeline layer on all group servers			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/layerFadeTimedAll?tl=[integer]&layer=[integer]&direction=[string]&duration=[string]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer
	Layer	Layer ID	Required	integer
	Direction	Direction of fade (up, down)	Required	string
	Duration	Duration of fade	Required	string



## layerEnable

<b>Route</b>	/delta/rpc/layerEnable			
<b>Summary</b>	Enable a timeline layer			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/layerEnable?tl=[integer]&layer=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer
	Layer	Layer ID	Required	integer

## layerDisable

<b>Route</b>	/delta/rpc/layerDisable			
<b>Summary</b>	Disable a timeline layer			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/layerDisable?tl=[integer]&layer=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer
	Layer	Layer ID	Required	integer

## layerEnableAll

<b>Route</b>	/delta/rpc/layerEnableAll			
<b>Summary</b>	Enable a timeline layer on all servers in a group			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/layerEnableAll?tl=[integer]&layer=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer
	Layer	Layer ID	Required	integer

## layerDisableAll

<b>Route</b>	/delta/rpc/layerDisableAll			
<b>Summary</b>	Disable a timeline layer on all servers in a group			
<b>Sample URL</b>	http://192.168.0.1/api/delta/rpc/layerDisableAll?tl=[integer]&layer=[integer]			
<b>Parameters</b>	<b>Name</b>	<b>Description</b>	<b>Required</b>	<b>Data Type</b>
	TI	Timeline ID		integer
	Layer	Layer ID	Required	integer

## Document Information

Date	Document edition	Software version	Revision Details	Author/Editor
November 2015	1	HTTP API v. 2.1	New release	Andy Briggs
May 2017	2	HTTP API v. 2.1	Reformatted	Andie Davidson
July 2020	3	HTTP API v. 2.1	Revised server terminology	Andie Davidson

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