



# Web API Specifications for Projectors

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Seiko Epson Corporation

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[Summary](#)

[Summary](#)

[Application](#)

[Type of Web API](#)

[Content Playback](#)

[For controlling projector](#)

[Operating Conditions](#)

[Content Playback Web API](#)

[Projector Control Web API](#)

[Security](#)

[Enable API Authentication](#)

[Authentication Information](#)

[Content-Type](#)

[Request](#)

[Response](#)

[Developer's Menu](#)

[Content Playback Sample](#)

[Content Playback Sample](#)

[Windows 10 Command Prompt](#)

[Projector Control Sample](#)

[Projector Control Sample](#)

[Windows 10 Command Prompt](#)

[List of Supported Models](#)

[List of Supported Models 1](#)

[List of Supported Models 2](#)

[List of Supported Models 3](#)

[Content Playback V01](#)

[Content Playback V01](#)

[Remote Functions](#)

[Power on](#)

[Power off](#)

[Content Playback Function](#)

[Start Playlist for Specified ID](#)

[Stop Playlist](#)

[Error Response](#)

[Series 400 Error](#)

[Series 500 Error](#)

[Content Playback V02](#)

[Content Playback V02](#)

[Remote Functions](#)

[Power control](#)

[Switch Source](#)

[A/V Mute Control](#)

[Content Playback Function](#)

[Content Playback Control](#)

[Error Response](#)

[General Errors](#)

[Content Playback V03](#)

[Content Playback V03](#)

[Data Management Function](#)

[Acquire Data Information List](#)

[Upload data](#)

[Delete data](#)

[Content Playback Function](#)

[Acquire playlist information list](#)

## Contents

[Register a New Playlist](#)

[Edit Playlist](#)

[Acquire data ID from playlist](#)

[Delete Playlist](#)

[Acquire playlist information \(for playlist being played\)](#)

[Acquire maximum number of data entries that can be registered to the playlist](#)

[Acquire information about Overlay Effects for Sources](#)

[Setting Overlay Effects for Sources](#)

[Acquire Setting Range for Overlay Effects](#)

[Time Table](#)

[Acquire Time Table information \(for that day only\)](#)

[Enable/Disable Time Table Settings](#)

[Upload Time Table \(by file\)](#)

[Delete Time Tables](#)

[Reload project data](#)

[Error Response](#)

[General Errors](#)

[Projector Control V01](#)

[Projector Control V01](#)

[Projector Control Function](#)

[Execute ESCVP21 Commands](#)

[Error Response](#)

[General Errors](#)

[Appendix](#)

[Appendix](#)

[Trademarks](#)

## Application

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This document applies to the Web API used between Seiko Epson projectors and external control devices.  
This outlines the URI format of the Web API and the corresponding operation.

## Type of Web API

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### Content Playback

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This is the Web API for controlling the content playback function, which operates only when the content playback function is turned on.  
The URI Path is: `/api/v**/contentmgr`  
For supported models, see the List of Supported Models page.

### For controlling projector

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This is the Web API for controlling the projector itself.  
The ESC/VP21 commands are used as the parameters. For details on the ESC/VP21 commands, see the "ESC/VP21 Commands User's Guide".  
The URI Path is: `/api/v**/control/escvp21`  
For supported models, see the List of Supported Models page.

## Operating Conditions

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### Content Playback Web API

---

You can use the content playback Web API when the following three conditions are met.

1. The Web API is On

Setting type: Network Settings

Turn on the Web API from the projector's [Network Settings] menu. For the details, see the User's Guide for the model you are using.

Setting type: Developer's Menu

Open the [Developer's Menu] (see below) in your web browser, and then set Enable API to On.

The setting type varies depending on your projector model. See the List of Supported Models page.

2. The projector is on or in standby mode and ready to communicate

The following are the standby modes in which communication is possible.

The Standby Mode is set to Communication On, and communication is being performed with the specified communication port (wireless LAN/wired LAN).

3. Content Playback is set to On

Turn on Content Playback from the projector's [Settings] menu.

### Projector Control Web API

---

You can use the Projector Control Web API when the following two conditions are met.

1. The Web API is On

Turn on the Web API from the projector's [Network Settings] menu. For the details, see the User's Guide for the model you are using.

2. The projector is on or in standby mode and ready to communicate

The following are the standby modes in which communication is possible.

The Standby Mode is set to Communication On, and communication is being performed with the specified communication port (wireless LAN/wired LAN).

## Security

---

You can enable Digest authentication for all Web APIs.

### Enable API Authentication

---

Setting type: Network Settings

Turn on the API authentication from the projector's [Network Settings] menu. For the details, see the User's Guide for the model you are using.

Setting type: Developer's Menu

Open the [Developer's Menu] (see below) in your web browser, and then set API Authentication to On.

The setting type varies depending on your projector model. See the List of Supported Models page.

### Authentication Information

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#### Digest authentication

Username	Password
EPSONWEB	Epson Web Control Password

## Content-Type

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### Request

---

Content-Type:application/json

However, if the API has a Content-Type specification, that should be used.

### Response

---

Content-Type:application/json

However, if the API has a Content-Type specification, that should be used.

## Developer's Menu

---

When Content Playback is On, you can access the [Developer's Menu] by opening the following URL in a web browser.

`http://<ip address>/lighting/developer-menu`

Where <ip address> is the projector's IP address.

Example: When the projector's IP address is 192.168.88.1.

`http://192.168.88.1/lighting/developer-menu`

You can check the projector's IP address from the [Network settings] menu.

## Windows 10 Command Prompt

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### Prerequisites and Preparations

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#### Prerequisites

In the following example, change "192.168.88.1" to the IP address or host name of the projector you want to use.  
Check the IP address in the projector's [Network] menu.

In the following example, you can change the "http://" section to "https://" if secure HTTP is enabled.

#### Preparing the Projector

Open the command prompt.(Open the start menu, type "cmd", and then press Enter.)  
If your company network uses proxy settings, you need to enter *--noproxy 192.168.88.1* to communicate directly.

### Execute

---

Playlist ID: Play 1 (V01)

```
curl http://192.168.88.1/api/v01/contentmgr/playlist/play/1
```

Stop playlist (V01)

```
curl "http://192.168.88.1/api/v01/contentmgr/playlist/stop"
```

Playlist ID: Play 1 (V02)

```
curl -X PUT -H "Content-Type:application/json" -d '{"playback": "start", "mode": "normal", "playlist_id": 1}' "http://192.168.88.1/api/v02/contentmgr/playlists/playback"
```

Turn on the projector

```
curl "http://192.168.88.1/api/v01/contentmgr/remote/power/on"
```

For the conditions under which this command can be issued, see Operating Conditions in the Summary.

Turn off the projector

```
curl "http://192.168.88.1/api/v01/contentmgr/remote/power/off"
```

Play playlist ID:1 (V01) (API authentication: On)

```
curl --digest --user EPSONWEB:admin "http://192.168.88.1/api/v01/contentmgr/playlist/play/1"
```

For the **admin** section, specify the Web Control Password set in the [Network] menu.

Play the playlist (V01) (API authentication: On) (Secure HTTP: Enabled)

```
curl -k --digest --user EPSONWEB:admin "https://192.168.88.1/api/v01/contentmgr/playlist/play/1"
```

*If you have installed a trusted certificate on the projector*, you do not need to use the -k option.

Turn on A/V Mute

```
curl -X PUT -H "Content-Type:application/json" -d '{"mute": "on"}' "http://192.168.88.1/api/v02/contentmgr/remote/mute"
```

Enter the following to use Power Shell instead of the command prompt.

```
curl.exe -X PUT -H "Content-Type:application/json" -d '{"mute": "on"}' "http://192.168.88.1/api/v02/contentmgr/remote/mute"
```

Source Select

```
curl -X PUT -H "Content-Type:application/json" -d '{"source_id": "32"}'
"http://192.168.88.1/api/v02/contentmgr/remote/source"
```

Acquire Data Information List

```
curl "http://192.168.88.1/api/v03/contentmgr/medias?offset=0&limit=1000&order=desc"
```

Upload data

```
curl -X POST -H "Content-Type:application/octet-stream" --data-binary "@./test.avi"
"http://192.168.88.1/api/v03/contentmgr/medias?filename=test.avi"
```

Execute the command with the file test.avi converted by Epson Projector Content Manager in the current folder.

Delete data

```
curl -X DELETE "http://192.168.88.1/api/v03/contentmgr/medias/15"
```

Acquire playlist information list

```
curl "http://192.168.88.1/api/v03/contentmgr/playlists"
```

Register a New Playlist

```
curl -X POST -H "Content-Type:application/json" -d
'{"playlist":{"name":"test","doLoop":true,"contents":[1,2],"interval":10,"effect":3,"doFilter":true,"filter":{"
resolution":"WXGA","colorId":"06","colorR":70,"colorG":90,"colorB":100,"brightness":90,"shapeId":"04",
"alphaPattern":"01","shapeHeight":100,"shapeWidth":100,"shapeRectX":30,"shapeRectY":3}}}'
"http://192.168.88.1/api/v03/contentmgr/playlists"
```

Execute data ID:1 and data ID:2 in the projector's storage.

Edit Playlist

```
curl -X PUT -H "Content-Type:application/json" -d
'{"playlist":{"name":"test","doLoop":true,"contents":[1,2],"interval":10,"effect":3,"doFilter":true,"filter":{"
resolution":"WXGA","colorId":"06","colorR":70,"colorG":90,"colorB":100,"brightness":90,"shapeId":"04",
"alphaPattern":"01","shapeHeight":100,"shapeWidth":100,"shapeRectX":30,"shapeRectY":3}}}'
"http://192.168.88.1/api/v03/contentmgr/playlists/11"
```

Acquire data ID from playlist

```
curl "http://192.168.88.1/api/v03/contentmgr/playlists/11/medias"
```

Delete Playlist

```
curl -X DELETE "http://192.168.88.1/api/v03/contentmgr/playlists/10"
```

Acquire playlist information (for playlist being played)

```
curl "http://192.168.88.1/api/v03/contentmgr/playlists/current"
```

Acquire maximum number of data entries that can be registered to the playlist

```
curl "http://192.168.88.1/api/v03/contentmgr/playlists/medias/max"
```

Acquire information about Overlay Effects for Sources

```
curl "http://192.168.88.1/api/v03/contentmgr/filters/sources/current"
```

Setting Overlay Effects for Sources

```
curl -X PUT -H "Content-Type:application/json" -d
{"doFilter":true,"shapeId":"","01","alphaPattern":"","01","shapeWidth":600,"shapeHeight":600,"shapeRectX":64
0,"shapeRectY":400,"colorId":"","00","colorR":100,"colorG":100,"colorB":100,"brightness":100}
"http://192.168.88.1/api/v03/contentmgr/filters/sources/current"
```

Acquire Time Table information (for that day only)

```
curl "http://192.168.88.1/api/v03/contentmgr/timetable"
```

Upload Time Table

1 Upload Time Table (by file)

```
curl -X POST -H "Content-Type:application/octet-stream" --data-binary "@./202002.xml"
"http://192.168.88.1/api/v03/contentmgr/timetable?filename=202002.xml"
```

2 Reload project data

```
curl -X PUT -H "Content-Type:application/json" -d {"reload":true}
"http://192.168.88.1/api/v03/contentmgr/config/reload"
```

Execute the command with the Time Table file 202002.xml created by Epson Projector Content Manager in the current folder.

Execute the command with the Time Table created by Epson Projector Content Manager in the projector's storage.

Disable Time Table

```
curl -X PUT -H "Content-Type:application/json" -d {"enabled":false} "http://192.168.88.1/api/v03/contentmgr/timetable"
```

Clear All Time Tables + Upload Time Table

0 Preparing the Projector

Create a project with a Time Table set in Epson Projector Content Manager.

Export this project to a storage device (SD card or USB memory), and then connect it to the projector.

(You can also upload this project to the projector over a network.)

1 Clear All Time Tables

```
curl -X DELETE -H "Content-Type:application/json" "http://192.168.88.1/api/v03/contentmgr/timetable/all"
```

2 Upload a monthly Time Table (calendar)

```
curl -X POST -H "Content-Type:application/octet-stream" --data-binary "@./202002.xml"
"http://192.168.88.1/api/v03/contentmgr/timetable?filename=202002.xml"
```

3 Upload a calendar list

```
curl -X POST -H "Content-Type:application/octet-stream" --data-binary "@./CalendarLists.xml"
"http://192.168.88.1/api/v03/contentmgr/timetable?filename=CalendarLists.xml"
```

4 Upload the playlist information used in the Time Table

```
curl -X POST -H "Content-Type:application/octet-stream" --data-binary "@./PlaylistUsedInTimetable.xml"
"http://192.168.88.1/api/v03/contentmgr/timetable?filename=PlaylistUsedInTimetable.xml"
```

5 Reload project data

```
curl -X PUT -H "Content-Type:application/json" -d {"reload":true}
"http://192.168.88.1/api/v03/contentmgr/config/reload"
```

Upload the PlaylistUsedInTimetable.xml, CalendarLists.xml, and monthly Time Tables (202002.xml, and so on) stored in the following folder created by Epson Projector Content Manager.

```
<storage root>/EPSON_PROJECTOR/CONFIG/TIMETABLE/
```

## Windows 10 Command Prompt

---

### Prerequisites and Preparations

---

#### Prerequisites

In the following example, change "192.168.88.1" to the IP address or host name of the projector you want to use.  
Check the IP address in the projector's [Network] menu.

#### Preparing the Projector

Open the command prompt. (Open the start menu, type "cmd", and then press Enter.)

When API authentication is Off

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd={cmd}+{param1}[+{param2}]
```

When API authentication is On

```
curl --digest --user EPSONWEB:{password} http://192.168.88.1/api/v01/control/escvp21?cmd={cmd}+{param1}[+{param2}]
```

For **{password}**, specify the Web Control Password set in the [Network] menu.

For the **{cmd}**, **{param1}** and **{param2}** sections, specify ESC/VP21 commands. Connect multiple parameters by using "+"

When secure HTTP is enabled, you can also specify the following.

```
curl -k https://192.168.88.1/api/v01/control/escvp21?cmd={cmd}+{param1}[+{param2}]
```

```
curl -k --digest --user EPSONWEB:{password} https://192.168.88.1/api/v01/control/escvp21?cmd={cmd}+{param1}[+{param2}]
```

If you have installed a trusted certificate on the projector, you do not need to use the **-k** option.

If your company network uses proxy settings, you need to enter **--noproxy 192.168.88.1** to communicate directly.

### Control

---

#### Power On/Off

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd=PWR?
```

(Check the current power status)

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd=PWR+ON
```

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd=PWR+OFF
```

#### Switch Sources

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd=SOURCE+30
```

(HDMI source)

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd=SOURCE+80
```

(HDBaseT source)

For the source number, see the ESC/VP21 command list in the "Specifications" for the model you are using.

#### A/V Mute Function

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd=MUTE+ON
```

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd=MUTE+OFF
```

#### On-Screen Display Settings

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd=ONSCREEN+00
```

(Do not display any menus or messages)

```
curl http://192.168.88.1/api/v01/control/escvp21?cmd=ONSCREEN+01
```

(Display menus and messages as normal)

## Configuration Menu

---

For available commands and settings, see the ESC/VP21 command list in the "Specifications" for the model you are using.

### Color mode

***curl http://192.168.88.1/api/v01/control/escvp21?cmd=CMODE+1A***  
(Change to Multi-Projection)

### Aspect

***curl http://192.168.88.1/api/v01/control/escvp21?cmd=ASPECT+10***  
(Change to 4:3)

***curl http://192.168.88.1/api/v01/control/escvp21?cmd=ASPECT+20***  
(Change to 16:9)

You cannot make settings when no signal is being received.

### Light Source Mode

***curl http://192.168.88.1/api/v01/control/escvp21?cmd=LUMINANCE+05***  
(Custom)

***curl http://192.168.88.1/api/v01/control/escvp21?cmd=LUMLEVEL+0***  
(Change the Brightness level to minimum)

### Screen

***curl "http://192.168.88.1/api/v01/control/escvp21?cmd=SCFORMAT+01+02***  
(Change screen type setting to 16:9)

***curl http://192.168.88.1/api/v01/control/escvp21?cmd=SCFORMAT+02+3C***  
(Move screen type position by +60)

***curl http://192.168.88.1/api/v01/control/escvp21?cmd=SCFORMAT+02+FFF***  
(Move screen type position by -1)

***curl http://192.168.88.1/api/v01/control/escvp21?cmd=SCFORMAT+02+FC4***  
(Move screen type position by -60)

***curl "http://192.168.88.1/api/v01/control/escvp21?cmd=SCFORMAT+INIT***  
(Reset screen type)

The screen type position is set in terms of the amount of movement, and is set as a 3-byte complementary representation.

Model number				EB(CB)-X52, EB(CB)-W55,EX7290,PowerLite W55+, EB(CB)-FH08, EB(CB)-FH54,EB- FH18,EX9270,PowerLite FH54+,PowerLite 1290, EH-TW850,Home Cinema 1100, EH-TW840,Home Cinema 980, EB(CB)-994F, PowerLite 994F, EB-W56S, PowerLite W56S+	EH-QS100W EH-QS100B	EB(CB)- L890E,L895E,L690E .L790SE,L795SE,L8 90U,L895U,L790U,L 690U,L790SU,L690 SU,L695SU,L690SE, L695SE, EB-L790G,CB- L590SE	EH-QL3000W/EH- QL3000B/CH- QL3000W/CH- QL3000B, EH-QL7000W/EH- QL7000B	EB (CB)- PQ2008W,PQ2008B .PQ2010W,PQ2010 B,PQ2213B,PQ2216 W,PQ2216B,PQ222 0B	EB-810E, 815E	EB(CB)- L770U,L775U, L570U	EB(CB)- L210W,770FL, 760W,760W	
Minimum firmware version				V100	V100	V100	V100	V100	V100	V100	V100	
Setting type (Web API On/Off, and so on)				Network Settings	Network Settings	Network Settings	Network Settings	Network Settings	Network Settings	Network Settings	Network Settings	
Type	URI Path & Query	Summary	API Ver.									
Content Playback	/api/v01/contentmgr/remote/power/on	Power on	V01	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v01/contentmgr/remote/power/off	Power off	V01	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v01/contentmgr/playlist/play/[id]	Start Playlist for Specified ID	V01	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v01/contentmgr/playlist/stop	Stop Playlist	V01	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
Content Playback	/api/v02/contentmgr/remote/power	Power control	V02	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v02/contentmgr/remote/source	Switch Source	V02	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v02/contentmgr/remote/mute	A/V Mute Control	V02	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v02/contentmgr/playlists/playback	Content Playback Control	V02	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
Content Playback	/api/v03/contentmgr/medias?offset={offset}&limit={limit}&border={order}	Acquire Data Information	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/medias?fileName={fileName}	Upload data	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/medias/{id}	Delete data	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/playlists	Acquire playlist information list	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/playlists	Register a New Playlist	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/playlists/{id}	Edit Playlist	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/playlists/{id}/medias	Acquire data ID from playlist	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/playlists/{id}	Delete Playlist	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/playlists/{id}/current	Acquire playlist information (for playlist being played)	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/playlists/medias/max	Acquire maximum number of data entries that can be registered to the playlist	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/filters/sources/current	Acquire information about Overlay Effects for Sources	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/filters/sources/current	Setting Overlay Effects for Sources	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/filters/range	Acquire Setting Range for Overlay Effects	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/timetable	Acquire Time Table information (for that day only)	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/timetable	Enable/Disable Time Table Settings	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/timetable?fileName={filename}	Upload Time Table (by file)	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/timetable/all	Clear Batch of Time Tables	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	/api/v03/contentmgr/config/reload	Reload project data	V03	No	Yes	Yes	Yes	Yes	Yes	Yes	No	
	For controlling projector	/api/v01/control/escvp21	Execute ESCVP21 Commands	V01	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Model number				EB(CB)-L260F,L265F,L2105F,L2105W,770F,775F	EB(CB)-PU2120W,PU2116W,PU2113W,PU2220B,PU2216B,PU2213B	EB(Pro/CB)-L3000U,L3000Z	EB(Pro/CB)-L2000U,L2000ZU,L12000Q,L12002Q	EB(Pro/CB)-L1710S,L1715S,L1510S,L1515S,L1750U,L1755U,L1500UH,L1505UH,L1490U,L1495U
Minimum firmware version				V100	V100	V410	V410	V410
Setting type (Web API On/Off, and so on)				Network Settings	Network Settings	Network Settings	Network Settings	Network Settings
Type	URI Path & Query	Summary	API Ver.					
Content Playback	/api/v01/contentmgr/remotes/power/on	Power on	V01	Yes	Yes	No	No	No
	/api/v01/contentmgr/remotes/power/off	Power off	V01	Yes	Yes	No	No	No
	/api/v01/contentmgr/playlists/play/{id}	Start Playlist for Specified ID	V01	Yes	Yes	No	No	No
	/api/v01/contentmgr/playlists/stop	Stop Playlist	V01	Yes	Yes	No	No	No
Content Playback	/api/v02/contentmgr/remotes/power	Power control	V02	Yes	Yes	No	No	No
	/api/v02/contentmgr/remotes/source	Switch Source	V02	Yes	Yes	No	No	No
	/api/v02/contentmgr/remotes/mute	A/V Mute Control	V02	Yes	Yes	No	No	No
	/api/v02/contentmgr/playlists/playback	Content Playback Control	V02	Yes	Yes	No	No	No
Content Playback	/api/v03/contentmgr/medias?offset={offset}&limit={limit}&order={order}	Acquire Data Information	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/medias?fileName={fileName}	Upload data	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/medias/{id}	Delete data	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/playlists	Acquire playlist information list	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/playlists	Register a New Playlist	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/playlists/{id}	Edit Playlist	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/playlists/{id}/medias	Acquire data ID from playlist	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/playlists/{id}	Delete Playlist	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/playlists/current	Acquire playlist information (for playlist being played)	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/playlists/medias/max	Acquire maximum number of data entries that can be registered to the playlist	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/filters/sources/current	Acquire information about Overlay Effects for Sources	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/filters/sources/current	Setting Overlay Effects for Sources	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/filters/range	Acquire Setting Range for Overlay Effects	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/timetable	Acquire Time Table information (for that day only)	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/timetable	Enable/Disable Time Table Settings	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/timetable?filename={filename}	Upload Time Table (by file)	V03	Yes	Yes	No	No	No
	/api/v03/contentmgr/timetable/all	Clear Batch of Time Tables	V03	Yes	Yes	No	No	No
/api/v03/contentmgr/config/reload	Reload project data	V03	Yes	Yes	No	No	No	
For controlling projector	/api/v01/control/escvp21	Execute ESCVP21 Commands	V01	Yes	Yes	Yes	Yes	Yes

Model number				EB (CB)- PU1008B,PU1008W, PU1007B,PU1007W, PU1006W, PU2010B,PU2010W	EB(Pro/CB)- L730U,L735U, L630U,L530U, L630W,L630SU, L635SU,L720U, L520U,L520W	EV-110, EV-115	EB (PowerLite/CB)- L250F,L255F, L200SW,L200SX, 750F,755F, 800F,805F	EB (PowerLite/CB)- U50,W50,X50	EB (Pro/CB)- L1070U,L1075U, L1060U,L1065U, L1050U,L1070W, L1060W,L1070	EB (PowerLite/CB)- L610U,L615U, L510U,L610W, L610L,400U, L500W,L500	EV-100, EV-105
Minimum firmware version				V100	V100	V100	V100	V100	V100	V102	V101
Setting type (Web API On/Off, and so on)				Network Settings	Developer's Menu	Developer's Menu	Developer's Menu	Developer's Menu	Developer's Menu	Developer's Menu	Developer's Menu
Type	URI Path & Query	Summary	API Ver.								
Content Playback	/api/v01/contentmgr/remote/power/on	Power on	V01	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	/api/v01/contentmgr/remote/power/off	Power off	V01	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	/api/v01/contentmgr/playlist/play/{id}	Start Playlist for Specified ID	V01	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	/api/v01/contentmgr/playlist/stop	Stop Playlist	V01	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Content Playback	/api/v02/contentmgr/remote/power	Power control	V02	Yes	Yes	Yes	Yes	Yes	Yes	No	No
	/api/v02/contentmgr/remote/source	Switch Source	V02	Yes	Yes	Yes	Yes	Yes	Yes	No	No
	/api/v02/contentmgr/remote/mute	A/V Mute Control	V02	Yes	Yes	Yes	Yes	Yes	Yes	No	No
	/api/v02/contentmgr/playlists/playback	Content Playback Control	V02	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Content Playback	/api/v03/contentmgr/medias?offset={offset}&limit={limit}&order={order}	Acquire Data Information	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/medias?fileName={fileName}	Upload data	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/medias/{id}	Delete data	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/playlists	Acquire playlist information list	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/playlists	Register a New Playlist	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/playlists/{id}	Edit Playlist	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/playlists/{id}/medias	Acquire data ID from playlist	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/playlists/{id}	Delete Playlist	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/playlists/current	Acquire playlist information (for playlist being played)	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/playlists/medias/max	Acquire maximum number of data entries that can be registered to the playlist	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/filters/sources/current	Acquire information about Overlay Effects for Sources	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/filters/sources/current	Setting Overlay Effects for Sources	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/filters/range	Acquire Setting Range for Overlay Effects	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/timetable	Acquire Time Table information (for that day only)	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/timetable	Enable/Disable Time Table Settings	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/timetable?filename={filename}	Upload Time Table (by file)	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/timetable/all	Clear Batch of Time Tables	V03	Yes	Yes	Yes	No	No	No	No	No
	/api/v03/contentmgr/config/reload	Reload project data	V03	Yes	Yes	Yes	No	No	No	No	No
For controlling projector	/api/v01/control/escvp21	Execute ESCVP21 Commands	V01	Yes	No	No	No	No	No	No	No

## Remote Functions

---

### Power on

---

#### Function Description

Turns on the projector.

#### Request

---

##### Format

	Method
URL	/api/v01/contentmgr/remote/power/on
Method	GET/POST/PUT
Body	None

##### Parameters

None

#### Response

---

##### Format

	Method
Status Code	200 OK
Body	{}

##### Parameters

None

### Power off

---

#### Function Description

Turning Off the Projector

#### Request

---

##### Format

	Method
URL	/api/v01/contentmgr/remote/power/off
Method	GET/POST/PUT
Body	None

##### Parameters

None

#### Response

---

##### Format

	Method
Status Code	200 OK
Body	{}

##### Parameters

None

## Content Playback Function

### Start Playlist for Specified ID

#### Function Description

Play the playlist with the specified ID.

Check the playlist ID in the [Developer's Menu].

Open the [Developer's Menu] by entering <http://192.168.88.1/lighting/developer-menu> in a web browser.

Specify the projector's IP address instead of the 192.168.88.1 section.

Check the projector's IP address from the [Network] menu.

#### Request

##### Format

	Method
URL	<a href="#">/api/v01/contentmgr/playlist/play/{id}</a>
Method	GET/POST/PUT
Body	None

\*Specify the playlist ID as the {id}. Check the playlist ID in the [Developer's Menu].

For more information about the [Developer's Menu], see the Summary in these specifications.

##### Parameters

None

#### Response

##### Format

	Method
Status Code	200 OK
Body	{}

##### Parameters

None

### Stop Playlist

#### Function Description

Stop the playlist that is now playing.

#### Request

##### Format

	Method
URL	<a href="#">/api/v01/contentmgr/playlist/stop</a>
Method	GET/POST/PUT
Body	None

##### Parameters

None

#### Response

##### Format

	Method
Status Code	200 OK

Body	{ }
------	-----

**Parameters**

None

## Error Response

### Series 400 Error

**Response****Format**

	Method
Status Code	Except for 200 OK
Body	Not defined

**Parameters**

None

**Error Table**

Status Code		Description
401	Unauthorized	Authentication failure (*1)
403	Forbidden	API disabled (*1)
404	NotFound	Specified playlist ID does not exist

(\*1) The Enable API and API Authentication (Digest Authentication) settings follow the settings in the [Developer's Menu].

### Series 500 Error

**Response****Format**

	Method
Status Code	Except for 200 OK
Body	{ "code": 5002 }

**Parameters**

Name	Type	Description	Required
code	number	Error Code (*1)	✓

(\*1) See the error table below for the reason for the failure indicated by each error code.

**Error Table**

Status Code		code	Description
500	InternalServerError	5000	Other server error
500	InternalServerError	5001	Projector power off
500	InternalServerError	5002	External storage not recognized

## Remote Functions

### Power control

#### Function Description

Turns the projector on or off.

#### Request

##### Format

	Method
URL	/api/v02/contentmgr/remote/power
Method	PUT
Body	{ "power": "on" }

##### Parameters

Name	Type	Description	Required
power	string	Projector's power on/off status on: Power is on off: Power is off	✓

#### Response

##### Format

	Method
Status Code	200 OK
Body	{ "power": "on" }

##### Parameters

Same as the request parameter.

### Switch Source

#### Function Description

Switches the source.

#### Request

##### Format

	Method
URL	/api/v02/contentmgr/remote/source
Method	PUT
Body	{ "source_id": "32" }

##### Parameters

Name	Type	Description	Required
source_id	string	Specify the ID for the source. Check the source ID in the [Developer's Menu]. [Developer's Menu]: <a href="http://192.168.88.1/lighting/developer-menu">http://192.168.88.1/lighting/developer-menu</a> Specify the projector's IP address instead of the 192.168.88.1 section.	✓

## Response

### Format

	Method
Status Code	200 OK
Body	{ "source_id": "32" }

### Parameters

Same as the request parameter.

## A/V Mute Control

### Function Description

Executes/releases A/V Mute.

## Request

### Format

	Method
URL	/api/v02/contentmgr/remote/mute
Method	PUT
Body	{ "mute": "on" }

### Parameters

Name	Type	Description	Required
mute	string	Executed/released status for the projector's A/V Mute function. on: A/V Mute executed off: A/V Mute released	✓

## Response

### Format

	Method
Status Code	200 OK
Body	{ "mute": "on" }

### Parameters

Same as the request parameter.

## Content Playback Function

### Content Playback Control

### Function Description

Plays/stops the playlist.

Plays the Time Table or the playlist with the specified ID.

Check the playlist ID in the [Developer's Menu].

Open the [Developer's Menu] by entering <http://192.168.88.1/lighting/developer-menu> in a web browser.

Specify the projector's IP address instead of the 192.168.88.1 section.

Check the projector's IP address from the [Network] menu.

## Request

### Format

	Method
URL	/api/v02/contentmgr/playlists/playback
Method	PUT
Body	<pre>{   "playlist_id": 1,   "mode": "normal",   "playback": "start" }</pre>

### Parameters

Name	Type	Description	Required
playback	string	Start/stop status for Content Playback start: Starts the playlist stop: Stops the playlist	✓
mode	string	Content Playback Method normal: Plays the playlist by specifying the ID. timetable: Plays the Time Table.	✓ (*1)
playlist_id	number	Playlist ID	✓ (*2)

(\*1) Only required when "playback" is set to "start", otherwise it is ignored.

(\*2) Only required when "playback" is set to "start" and "mode" is set to "normal", otherwise it is ignored.

Examples:

If "playback" is set to "stop", then "mode" and "playlist\_id" are ignored.

```
{"playback": "stop", "mode": "normal", "playlist_id": 1} = {"playback": "stop"}
```

If "mode" is set to "timetable", "playlist\_id" is ignored.

```
{"playback": "start", "mode": "timetable", "playlist_id": 2} = {"playback": "start", "mode": "timetable"}
```

## Response

### Format

	Method
Status Code	200 OK
Body	<pre>{   "status": "normal",   "playlist_id": 1 }</pre>

### Parameters

Name	Type	Description
status	string	Content Playback Status normal: During normal playback (playing specified ID) timetable: During Time Table playback stop: Stopping operation
playlist_id	number	Playlist ID being played (*1) null while playlist is stopped null while a Time Table is playing and no playlist is registered

(\*1) When Time Table playback is indicated, the playlist ID is also returned if a playlist is registered at that time.

## Error Response

### General Errors

#### Response

##### Format

Format	Method
Status Code	Except for 200 OK (*1)
Body	<pre>{   "code": 4041,   "message": "No such playlist ID." }</pre>

##### Parameters

Name	Type	Description
code	number	Error Code (*1)
message	string	Reason for failure (*1)

(\*1) See the error table below for the correlation between the Status Code and the Error Code and the reason for the failure.  
If there are multiple errors in a single request, notify for any one item.

##### Error Table

Status Code	code	message	Description
400	BadRequest	4000	Bad request. Other request error
400	BadRequest	4004	"{0}" is empty. (*2) Required items have not been entered
400	BadRequest	4005	"{0}" has invalid value. (*2) Value is not valid
400	BadRequest	4006	"{0}" has invalid type (expected "{1}"). (*2)(*3) Type is not valid
400	BadRequest	4007	Time table is not set. Time Table has not been registered
403	Forbidden	4031	API is currently disabled. API disabled (*1)
404	NotFound	4041	No such playlist ID. Specified playlist ID does not exist
405	MethodNotAllowed	4050	Method not allowed. The Method is not permitted
500	InternalServerError	5000	System error. Other server error
500	InternalServerError	5001	Projector is off. Projector power off
500	InternalServerError	5002	Failed to detect external storage. External storage not recognized

(\*1) The Enable API and API Authentication (Digest Authentication) settings follow the settings in the [Developer's Menu].

(\*2) Where {0} is the member's name that was incorrectly entered/not entered.  
Examples: "power" is empty.  
"power" has invalid value.

(\*3) {1} is replaced by the normal type member's name that was incorrectly entered.  
Examples: "source\_id" has invalid type (expected "string").

## Data Management Function

### Acquire Data Information List

#### Function Description

Acquires a list of uploaded data information.

#### Request

##### Format

	Method
URL	/api/v03/contentmgr/medias?offset={offset}&limit={limit}&order={order}
Method	GET
Body	None

##### Parameters

Name	Type	Description	Required
offset	number	Position of the first data to be acquired. If this is omitted, it is assumed to be offset = 0.	
limit	number	Number of data items to be acquired (0 to 1000). If this is omitted, it is assumed to be limit =	
order	string	asc: ascending order, desc: descending order. If this is omitted, it is assumed to be order = asc.	

#### Response (Normal: Without Data)

##### Format

	Method
Status Code	200 OK
Body	{ "total":0, "datas":[ ] }

\* This response is returned even if the offset value is invalid.

##### Parameters

Name	Type	Description
total	number	Total number of registered data items
datas	array	List

#### Response (Normal: With Data)

##### Format

	Method
Status Code	200 OK
Body	{ "total":2, "datas":[ { "mediaId": 5, "filePath": "/lighting/resources/5.avi", "filePath2": "/lighting/resources/5.mp4", "fileType": "Movie", "thumbnailPath": "/lighting/resources/5.jpg", "playTime": 4, "originalName":"original.mp4", "usedInPlaylist": false }, { } }

```

        "mediald": 6,
        "filePath": "/lighting/resources/6.jpg",
        "fileType": "Picture",
        "thumbnailPath": "/lighting/resources/6.jpg",
        "playTime": 0,
        "originalName": "original.jpg",
        "usedInPlaylist": true
    }
]
}

```

**Parameters**

Name	Type	Description
total	number	Total number of registered data items
datas	array	Data list, up to 1000 items
mediald	number	Data ID
filePath	string	Data file path
filePath2	string	Data file path (for two-file configuration)
fileType	string	Data format - Picture: still image, Movie: movie
thumbnailPath	string	Data thumbnail path
playTime	number	Data movie playback time
originalName	string	Data file original file name
useInPlaylist	boolean	true: used in the playlist, false: not used in the playlist

**Upload data****Function Description**

Uploads the data to storage.

**Request****Format**

	Method
URL	/api/v03/contentmgr/medias?filename={filename}
Method	POST
Body	Binary
Content-Type	application/octet-stream

\*The {Filename} is URL-encoded. The character code must be UTF-8.

**Parameters**

Name	Type	Description	Required
filename	string	Date file name	✓

**Response****Format**

	Method
Status Code	200 OK
Body	{ <pre>             "mediald":2,             "thumbnailPath" : "/lighting/thumbnail/movie/20200818_0947_315953.jpg"           </pre> }

**Parameters**

Name	Type	Description
mediald	number	Data ID
thumbnailPath	string	Data thumbnail path

## Delete data

### Function Description

Deletes data from storage.

### Request

#### Format

Method	
URL	/api/v03/contentmgr/medias/{id}
Method	DELETE
Body	None

\*To delete everything, specify 'all' as the {id}.

\*Specify the data ID as the {id}. Check the data ID using the API for acquiring the data information list.

#### Parameters

None

### Response

#### Format

Method	
Status Code	204
Body	None

#### Parameters

None

## Content Playback Function

### Acquire playlist information list

### Function Description

Acquires the playlist information list.

### Request

#### Format

Method	
URL	/api/v03/contentmgr/playlists
Method	GET
Body	None

#### Parameters

None

### Response (Normal: When Blank)

#### Format

Method	
Status Code	200 OK
Body	{ "total":0, "datas":[ ] }

**Parameters**

Name	Type	Description
datas	array	List

**Response (Normal: When Content is Available)****Format**

	Method
Status Code	200 OK
Body	<pre>{   "total":2,   "datas":[     {       "playlistId":1,       "name":"closed",       "totalTime" : 30,       "filterId": 1,       "thumbnailPath": "/lighting/thumbnail/movie/sample.jpg",       "doFilter" : true,       "doLoop" : false,       "remoconNumber": 5     },     {       "playlistId":2,       "name":"open",       "totalTime" : 30,       "filterId": 2,       "thumbnailPath": "/lighting/thumbnail/movie/sample.jpg",       "doFilter" : true,       "doLoop" : true,       "remoconNumber": null     }   ] }</pre>

**Parameters**

Name	Type	Description
total	number	Number of registered playlists
datas	array	List
playlistId	number	Playlist ID
name	string	Playlist name
totalTime	number	The total playback time of the playlist (seconds)
filterId	number	ID to identify the setting for the Color Filter, Shape Filter, and Lightness.
thumbnailPath	string	Playlist thumbnail path
doFilter	boolean	true: Overlay Effect On; false: Overlay Effect Off
doLoop	boolean	true: Continuous Play On; false: Continuous Play Off
remoconNumber	number	Assigned Favorite Playlists number (null if none assigned)

**Register a New Playlist****Function Description**

Adds a new playlist.

**Request****Format**

	Method
URL	/api/v03/contentmgr/playlists
Method	POST

```

Body      {
    "playlist": {
        "name": "test",
        "doLoop" : true,
        "contents": [
            1,
            2
        ],
        "interval" : 10,
        "effect" : 3,
        "doFilter" : true
    },
    "filter": {
        "resolution" : "WXGA",
        "colorId" : "06",
        "colorR" : 170,
        "colorG" : 190,
        "colorB" : 255,
        "brightness" : 90,
        "shapeld" : "04",
        "alphaPattern" : "01",
        "shapeHeight" : 100,
        "shapeWidth" : 100,
        "shapeRectX" : 30,
        "shapeRectY" : 3
    }
}

```

#### Parameters

Name	Type	Description	Required
name	string	Playlist name	✓
doLoop	boolean	true: Continuous Play On; false: Continuous Play Off	✓
contents	array	Data ID used in the playlist	✓
interval	number	Still image switching time (seconds) (1 to 60)	✓
effect	number	Still image Overlay Effect 0: None, 1: Fade, 2: Wipe Right, 3: Wipe Left 4: Cross Fade, 5: Cross Wipe, 6: Random	✓
doFilter	boolean	true: Overlay Effect On; false: Overlay Effect Off	✓
resolution	string	"WXGA" fixed and not used	
colorId	string	Color Filter 00: Off, 01: Warm White, 02: Cool White 03: Red, 04: Blue, 05: Green, 06: Custom	✓
colorR	number	Color Filter Custom Settings_Red (0 to 255)	✓
colorG	number	Color Filter Custom Settings_Green (0 to 255)	✓
colorB	number	Color Filter Custom Settings_Blue (0 to 255)	✓
brightness	number	Lightness (0 to 100)	✓
shapeld	string	Shape of the Shape Filter 00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3 07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4	✓
alphaPattern	string	Filter Effect of the Shape Filter 01: Black Mask, 02: Black Mask Inverted, 03: White Mask, 04: White Mask Inverted	✓
shapeHeight	number	Height of Shape Filter (*1)	
shapeWidth	number	Width of Shape Filter (*1)	
shapeRectX	number	Zoom Position of Shape Filter (Horizontal) (*1)	
shapeRectY	number	Zoom Position of Shape Filter (Vertical) (*1)	

(\*1) Check the range of values that can be set in "Acquire Setting Range for Overlay Effects".

#### Response

##### Format

Method
--------

Status Code	200 OK
Body	<pre>{   "playlistId":8,   "name":"test",   "totalTime" : 40,   "filterId": 8,   "doFilter" : true,   "doLoop" : true,   "thumbnailPath": "/lighting/thumbnail/movie/20200325_1029_774502.jpg",   "interval": 10,   "effect" : 3 }</pre>

**Parameters**

Name	Type	Description
playlistId	number	Playlist ID
name	string	Playlist name
totalTime	number	The total playback time of the playlist (seconds)
filterId	number	ID to identify the setting for the Color Filter, Shape Filter, and Lightness.
doFilter	boolean	true: Overlay Effect On; false: Overlay Effect Off
doLoop	boolean	true: Continuous Play On; false: Continuous Play Off
thumbnailPath	string	Playlist thumbnail path
interval	number	Still image switching time (seconds) (1 to 60)
effect	number	Still image Overlay Effect 0: None, 1: Fade, 2: Wipe Right, 3: Wipe Left 4: Cross Fade, 5: Cross Wipe, 6: Random

**Edit Playlist****Function Description**

Edits the playlist.

**Request****Format**

	Method
URL	/api/v03/contentmgr/playlists/{id}
Method	PUT
Body	<pre>{   "playlist": {     "name":"modified",     "doLoop" : true,     "contents": [       1,       3     ],     "interval" : 10,     "effect" : 0,     "doFilter" : false   },   "filter": {     "resolution":"WXGA",     "colorId" : "06",     "colorR" : 70,     "colorG" : 90,     "colorB" : 100,     "brightness" : 90,     "shapeld" : "04",     "alphaPattern" : "01", </pre>

```

        "shapeHeight" : 100,
        "shapeWidth" : 100,
        "shapeRectX" : 30,
        "shapeRectY" : 3
    }
}

```

\*Specify the playlist ID as the {id}.

Check the playlist ID in the [Developer's Menu]. For more information about the [Developer's Menu], see the Summary in these specifications.

#### Parameters

Name	Type	Description	Required
name	string	Playlist name	
doLoop	boolean	true: Continuous Play On; false: Continuous Play Off	
contents	array	Data ID used in the playlist	
interval	number	Still image switching time (seconds) (1 to 60)	
effect	number	Still image Overlay Effect 0: None, 1: Fade, 2: Wipe Right, 3: Wipe Left 4: Cross Fade, 5: Cross Wipe, 6: Random	
doFilter	boolean	true: Overlay Effect On; false: Overlay Effect Off	
resolution	string	"WXGA" fixed and not used	
colorId	string	Color Filter 00: Off, 01: Warm White, 02: Cool White 03: Red, 04: Blue, 05: Green, 06: Custom	
colorR	number	Color Filter Custom Settings_Red (0 to 255)	
colorG	number	Color Filter Custom Settings_Green (0 to 255)	
colorB	number	Color Filter Custom Settings_Blue (0 to 255)	
brightness	number	Lightness (0 to 100)	
shapeId	string	Shape of the Shape Filter 00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3 07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4	
alphaPattern	string	Filter Effect of the Shape Filter 01: Black Mask, 02: Black Mask Inverted, 03: White Mask, 04: White Mask Inverted	
shapeHeight	number	Height of Shape Filter (*1)	
shapeWidth	number	Width of Shape Filter (*1)	
shapeRectX	number	Zoom Position of Shape Filter (Horizontal) (*1)	
shapeRectY	number	Zoom Position of Shape Filter (Vertical) (*1)	

(\*1) Check the range of values that can be set in "Acquire Setting Range for Overlay Effects".

#### Response

##### Format

	Method
Status Code	200 OK
Body	<pre> {   "playlistId":9,   "playlist": {     "name":"modified",     "doLoop" : true,     "contents": [       1,       3     ],     "interval" : 10,     "effect" : 0,     "doFilter" : false   },   "filter": {     "resolution":"WXGA",     "colorId" : "06",     "colorR" : 70,     "colorG" : 90,     "colorB" : 100, </pre>

```

        "brightness" : 90,
        "shapelId" : "04",
        "alphaPattern" : "01",
        "shapeHeight" : 100,
        "shapeWidth" : 100,
        "shapeRectX" : 30,
        "shapeRectY" : 3
    }
}

```

**Parameters**

The same as registering a new playlist.

**Acquire data ID from playlist****Function Description**

Acquires the data ID used in the playlist.

**Request****Format**

	Method
URL	/api/v03/contentmgr/playlists/{id}/medias
Method	GET
Body	None

\*Specify the playlist ID as the {id}.

Check the playlist ID in the [Developer's Menu]. For more information about the [Developer's Menu], see the Summary in these specifications.

**Response****Format**

	Method
Status Code	200 OK
Body	<pre> {   "playlistId": "11",   "contents": [16, 3],   "medias": [     {       "mediaId": 16,       "fileType": "Picture",       "thumbnailPath": "/lighting/thumbnail/picture/20200819_0106_968700.jpg",       "playTime": 0     },     {       "mediaId": 3,       "fileType": "Movie",       "thumbnailPath": "/lighting/thumbnail/movie/20200328_0504_920948.jpg",       "playTime": 15     }   ] } </pre>

**Parameters**

Name	Type	Description
playlistId	string	Playlist ID
contents	array	List of data IDs used in the playlist
medias	array	List of data information used in the playlist
mediaId	number	Data ID
fileType	string	Data format - Picture: still image, Movie: movie
thumbnailPath	string	Data thumbnail path

playTime	number	Length of the playlist (seconds)
----------	--------	----------------------------------

## Delete Playlist

### Function Description

Deletes the specified playlist.

### Request

#### Format

	Method
URL	/api/v03/contentmgr/playlists/{id}
Method	DELETE
Body	None

\*To delete everything, specify 'all' as the {id}.

\*Specify the playlist ID as the {id}.

Check the playlist ID in the [Developer's Menu]. For more information about the [Developer's Menu], see the Summary in these specifications.

### Response

#### Format

	Method
Status Code	204
Body	None

#### Parameters

None

## Acquire playlist information (for playlist being played)

### Function Description

Acquires the id for the playlist that is Now Playing.

### Request

#### Format

	Method
URL	/api/v03/contentmgr/playlists/current
Method	GET
Body	None

### Response

#### Format

	Method
Status Code	200 OK
Body	{ <pre> "playlistId":11, "name":"modified", "totalTime":25, "doFilter":false, "doLoop":true, "thumbnailPath" : "/lighting/thumbnail/picture/20200819_0106_968700.jpg", "status" : "normal", "filter":{ </pre>

```

        "filterId":11,
        "resolution":"WXGA",
        "colorId":"06",
        "colorR":70,
        "colorG":90,
        "colorB":100,
        "brightness":90,
        "shapeId":"04",
        "alphaPattern":"01",
        "shapeHeight":100,
        "shapeWidth":100,
        "shapeRectX":30,
        "shapeRectY":3
    }
}

```

### Parameters

Name	Type	Description
playlistId	number	Playlist ID
status	string	"normal": During normal playback, "Preview": During a preview, "timetable": During Time Table playback, "Stop": Nothing is being played
name	string	Playlist name
totalTime	number	The total playback time of the playlist (seconds)
thumbnailPath	string	Playlist thumbnail path
doFilter	boolean	true: Overlay Effect On; false: Overlay Effect Off
doLoop	boolean	true: Continuous Play On; false: Continuous Play Off
filterId	number	ID to identify the setting for the Color Filter, Shape Filter, and Lightness.
resolution	string	"WXGA" fixed and not used
colorId	string	Color Filter 00: Off, 01: Warm White, 02: Cool White 03: Red, 04: Blue, 05: Green, 06: Custom
colorR	number	Color Filter Custom Settings_Red (0 to 255)
colorG	number	Color Filter Custom Settings_Green (0 to 255)
colorB	number	Color Filter Custom Settings_Blue (0 to 255)
brightness	number	Lightness (0 to 100)
shapeId	string	Shape of the Shape Filter 00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3 07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4
alphaPattern	string	Filter Effect of the Shape Filter 01: Black Mask, 02: Black Mask Inverted, 03: White Mask, 04: White Mask Inverted
shapeHeight	number	Height of Shape Filter
shapeWidth	number	Width of Shape Filter
shapeRectX	number	Zoom Position of Shape Filter (Horizontal)
shapeRectY	number	Zoom Position of Shape Filter (Vertical)

## Acquire maximum number of data entries that can be registered to the playlist

### Function Description

Acquires the maximum number of data entries that can be registered to the playlist.

### Request

#### Format

	Method
URL	/api/v03/contentmgr/playlists/medias/max
Method	GET
Body	None

**Response****Format**

	Method
Status Code	200 OK
Body	{ "max": 100 }

**Parameters**

Name	Type	Description
max	number	Maximum number of data entries that can be registered to the playlist

**Acquire information about Overlay Effects for Sources****Function Description**

Acquires the Overlay Effect settings for the current source.

Since USB sources or SD card sources have Overlay Effects for each playlist, you cannot acquire Overlay Effects for the source.

**Request****Format**

	Method
URL	/api/v03/contentmgr/filters/sources/current
Method	GET
Body	None

**Response****Format**

	Method
Status Code	200 OK
Body	{ "doFilter":false, "shapeld":"01", "alphaPattern":"01", "shapeWidth":600, "shapeHeight":600, "shapeRectX":640, "shapeRectY":400, "colorId":"00", "colorR":100, "colorG":100, "colorB":100, "brightness":100 }

**Parameters**

Name	Type	Description
doFilter	boolean	Set whether or not Overlay Effects are used
shapeld	string	Shape of the Shape Filter 00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3 07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4
alphaPattern	string	Filter Effect of the Shape Filter 01: Black Mask, 02: Black Mask Inverted, 03: White Mask, 04: White Mask Inverted
shapeHeight	number	Height of Shape Filter
shapeWidth	number	Width of Shape Filter

shapeRectX	number	Zoom Position of Shape Filter (Horizontal)
shapeRectY	number	Zoom Position of Shape Filter (Vertical)
colorId	string	Color Filter 00: Off, 01: Warm White, 02: Cool White 03: Red, 04: Blue, 05: Green, 06: Custom
colorR	number	Color Filter Custom Settings_Red (0 to 255)
colorG	number	Color Filter Custom Settings_Green (0 to 255)
colorB	number	Color Filter Custom Settings_Blue (0 to 255)
brightness	number	Lightness (0 to 100)

## Setting Overlay Effects for Sources

### Function Description

Edits the Overlay Effect settings for the current source.

Since USB sources or SD card sources have Overlay Effects for each playlist, you cannot set Overlay Effects for the source.

### Request

#### Format

	Method
URL	/api/v03/contentmgr/filters/sources/current
Method	PUT
Body	<pre>{   "doFilter":true,   "shapeld":"01",   "alphaPattern":"01",   "shapeWidth":600,   "shapeHeight":600,   "shapeRectX":640,   "shapeRectY":400,   "colorId":"00",   "colorR":255,   "colorG":255,   "colorB":250,   "brightness":100 }</pre>

#### Parameters

Name	Type	Description	Required
doFilter	boolean	Set whether or not Overlay Effects are used	✓
shapeld	string	Shape of the Shape Filter 00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3 07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4	✓
alphaPattern	string	Filter Effect of the Shape Filter 01: Black Mask, 02: Black Mask Inverted, 03: White Mask, 04: White Mask Inverted	✓
shapeHeight	number	Height of Shape Filter (*1)	✓
shapeWidth	number	Width of Shape Filter (*1)	✓
shapeRectX	number	Zoom Position of Shape Filter (Horizontal) (*1)	✓
shapeRectY	number	Zoom Position of Shape Filter (Vertical) (*1)	✓
colorId	string	Color Filter 00: Off, 01: Warm White, 02: Cool White 03: Red, 04: Blue, 05: Green, 06: Custom	✓
colorR	number	Color Filter Custom Settings_Red (0 to 255)	✓
colorG	number	Color Filter Custom Settings_Green (0 to 255)	✓
colorB	number	Color Filter Custom Settings_Blue (0 to 255)	✓
brightness	number	Lightness (0 to 100)	✓

(\*1) Check the range of values that can be set in "Acquire Setting Range for Overlay Effects".

### Response

**Format**

	Method
Status Code	200 OK
Body	{ <pre> "doFilter" : true, "shapeld" : "01", "alphaPattern" : "01", "shapeWidth" : 600, "shapeHeight" : 600, "shapeRectX" : 640, "shapeRectY" : 400, "colorId" : "00", "colorR" : 98, "colorG" : 98, "colorB" : 98, "brightness" : 100           </pre>

**Parameters**

Name	Type	Description
doFilter	boolean	true: Overlay Effect On; false: Overlay Effect Off
colorId	string	Color Filter 00: Off, 01: Warm White, 02: Cool White 03: Red, 04: Blue, 05: Green, 06: Custom
colorR	number	Color Filter Custom Settings_Red (0 to 255)
colorG	number	Color Filter Custom Settings_Green (0 to 255)
colorB	number	Color Filter Custom Settings_Blue (0 to 255)
brightness	number	Lightness (0 to 100)
shapeld	string	Shape of the Shape Filter 00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3 07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4
alphaPattern	string	Filter Effect of the Shape Filter 01: Black Mask, 02: Black Mask Inverted, 03: White Mask, 04: White Mask Inverted
shapeHeight	number	Height of Shape Filter
shapeWidth	number	Width of Shape Filter
shapeRectX	number	Zoom Position of Shape Filter (Horizontal)
shapeRectY	number	Zoom Position of Shape Filter (Vertical)

**Acquire Setting Range for Overlay Effects****Function Description**

Acquires the maximum and minimum values for each setting item for the Overlay Effects.

**Request****Format**

	Method
URL	/api/v03/contentmgr/filters/range
Method	GET
Body	None

**Response****Format**

	Method
Status Code	200 OK
Body	{

```

    "shapeHeight":{
      "min":150,
      "max":800
    },
    "shapeWidth":{
      "min":150,
      "max":1280
    },
    "shapeRectX":{
      "min":0,
      "max":1279
    },
    "shapeRectY":{
      "min":0,
      "max":799
    }
  }
}

```

**Parameters**

Name	Type	Description
shapeHeight	object	Height of Shape Filter
shapeWidth	object	Width of Shape Filter
shapeRectX	object	Zoom Position of Shape Filter (Horizontal)
shapeRectY	object	Zoom Position of Shape Filter (Vertical)
min	number	Minimum value
max	number	Maximum value

## Time Table

### Acquire Time Table information (for that day only)

**Function Description**

Acquires Time Table information.

**Request****Format**

	Method
URL	/api/v03/contentmgr/timetable
Method	GET
Body	None

**Response****Format**

	Method
Status Code	200 OK
Body	<pre> {   "enabled":true,   "status":"enabled",   "date":"2017/07/26",   "time":"09:48",   "events": [     {       "name":"p11",       "startTime":"08:00",       "endTime":"09:00",       "playlistId":1     }   ] } </pre>

```

    },
    {
      "name": "pl2",
      "startTime": "10:00",
      "endTime": "10:45",
      "playlistId": 50
    }
  ]
}

```

**Parameters**

Name	Type	Description
enabled	boolean	Enable/disable Time Table playback true: Time Table playback is enabled false: Time Table playback is disabled
status	string	Time Table function status "disabled": Temporarily disabled (turned off using the toggle button in the GUI) "enabled": Enabled status "unavailable": Time Table has not been set
date	string	Current date and time set in the projector
time	string	Current time set in the projector
events	array	List of events registered for the current date and time (in ascending order by startTime)
name	string	Playlist name
startTime	string	Event start time
endTime	string	Event end time
playlistId	number	Playlist ID to be played in the event

**Enable/Disable Time Table Settings****Function Description**

Temporarily enables/disables the Time Table.  
Turn the power off and then back on to return to enabled status.

**Request****Format**

	Method
URL	/api/v03/contentmgr/timetable
Method	PUT
Body	{ "enabled": true }

**Parameters**

Name	Type	Description	Required
enabled	boolean	Enable/disable Time Table playback true: Time Table playback enabled false: Time Table playback disabled	✓

**Response****Format**

	Method
Status Code	200 OK
Body	{ "enabled": true, "status": "enabled", "date": "2017/07/26", }

```

    "time": "09:48",
    "events": [
      {
        "name": "pl1",
        "startTime": "08:00",
        "endTime": "09:00",
        "playlistId": 1
      },
      {
        "name": "pl2",
        "startTime": "10:00",
        "endTime": "10:45",
        "playlistId": 50
      }
    ]
  }

```

**Parameters**

Name	Type	Description
enabled	boolean	Enable/disable Time Table playback true: Time Table playback is enabled false: Time Table playback is disabled
status	string	Time Table function status "disabled": Temporarily disabled (turned off using the toggle button in the GUI) "enabled": Enabled status "unavailable": Time Table has not been set
date	string	Current date and time set in the projector
time	string	Current time set in the projector
events	array	List of events registered for the current date and time (in ascending order by startTime)
name	string	Playlist name
startTime	string	Event start time
endTime	string	Event end time
playlistId	number	Playlist ID to be played in the event

**Upload Time Table (by file)****Function Description**

Uploads the specified files related to Time Tables to storage.

Time Table related files are the files created by Epson Projector Content Manager in the following folder.

<storage root>/EPSON\_PROJECTOR/CONFIG/TIMETABLE/

Execute the command with the Time Table created by Epson Projector Content Manager in the projector's storage beforehand.

Data is not reflected by only executing this API.

To reflect the data, reload the project data or restart the projector.

**Request****Format**

	Method
URL	/api/v03/contentmgr/timetable?filename={filename}
Method	POST
Body	Binary
Content-Type	application/octet-stream

\*The {Filename} is URL-encoded. The character code must be UTF-8.

**Parameters**

Name	Type	Description	Required
filename	string	Time Table File Name	✓

**Response****Format**

	Method
Status Code	200 OK
Body	{ "fileName":"201901.xml", }

**Parameters**

Name	Type	Description
fileName	string	File name of the uploaded file

**Delete Time Tables****Function Description**

Deletes Time Tables.

Delete all of the files in the following folder.

<storage root>/EPSON\_PROJECTOR/CONFIG/TIMETABLE/

When uploading Time Table data after performing a batch deletion, you need to upload the configuration files (CalendarLists.xml, PlaylistUsedInTimetable.xml) as well as the monthly timetable data (for example, 202008.xml).

**Request****Format**

	Method
URL	/api/v03/contentmgr/timetable/all
Method	DELETE
Body	None

**Response****Format**

	Method
Status Code	204 OK
Body	None

**Parameters**

Name	Type	Description
None		

**Reload project data****Function Description**

Reloads project data from storage.

**Request****Format**

	Method
URL	/api/v03/contentmgr/config/reload
Method	PUT
Body	{ "reload":true }

**Parameters**

Name	Type	Description	Required
reload	boolean	true: Reloads data	✓

## Response

### Format

	Method
Status Code	200 OK
Body	{ "reload":true }

## Error Response

### General Errors

#### Response

##### Format

	Method
Status Code	Except for 200 OK (*1)
Body	{ "code": 4041, "message": "No such playlist ID." }

##### Parameters

Name	Type	Description	Required
code	number	Error Code (*1)	✓
message	string	Reason for failure (*1)	✓

(\*1) See the error table below for the correlation between the Status Code and the Error Code and the reason for the failure. If there are multiple errors in a single request, notify for any one item.

##### Error Table

Status Code	code	message	Description
400	BadRequest	4000	Bad request.
			Other request error
400	BadRequest	4001	Invalid file format.
			Incorrect file format
400	BadRequest	4002	Invalid resolution.
			Incorrect movie/still image resolution
400	BadRequest	4003	Invalid file.
			Other errors related to files
400	BadRequest	4004	"{0}" is empty. (*2)
			Required items have not been entered
400	BadRequest	4005	"{0}" has invalid value. (*2)
			Value is not valid
400	BadRequest	4006	"{0}" has invalid type (expected "{1}"). (*2)(*3)
			Type is not valid
400	BadRequest	4007	Time table is not set.
			Time Table has not been registered
403	Forbidden	4031	API is currently disabled.
			API disabled (*1)
404	NotFound	4041	No such playlist ID.
			Specified playlist ID does not exist
405	MethodNotAllowed	4050	Method not allowed.
			The Method is not permitted
500	InternalServerError	5000	System error.
			Other server error
500	InternalServerError	5001	Projector is off.
			Projector power off
500	InternalServerError	5002	Failed to detect external storage. (*4)
			External storage not recognized
500	InternalServerError	5003	Cannot write to the external storage. (*4)
			External storage is write-protected
500	InternalServerError	5004	Reached playlists limit.
			Maximum number of playlists
500	InternalServerError	5005	Cannot modify the playlist in playing.
			Playlist is currently playing
500	InternalServerError	5006	Cannot delete the playlist in timetable.
			This playlist cannot be deleted because it is included in a Time Table.

---

500	InternalServerError	5007	Reached contents limit.	Maximum data entries
-----	---------------------	------	-------------------------	----------------------

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- (\*1) The Enable API and API Authentication (Digest Authentication) settings follow the settings in the [Developer's Menu].
- (\*2) Where {0} is the member's name that was incorrectly entered/not entered.  
Examples: "power" is empty.  
"power" has invalid value.
- (\*3) {1} is replaced by the normal type member's name that was incorrectly entered.  
Examples: "source\_id" has invalid type (expected "string").
- (\*4) When uploading data larger than 64 KB, the cause cannot be identified and code:5000 may be returned.

## Projector Control Function

### Execute ESCVP21 Commands

#### Function Description

Execute the ESCVP21 command using the Web API.

#### Request

##### Format

	Method
URL	/api/v01/control/escvp21?cmd=:cmd+:p1+:p2+:p3+:p4+:p5+:p6+:p7+:p8
Method	GET
Body	None

##### Parameters

Name	Type	Description	Required
cmd	string	For supported ESC/VP21 commands, see the "Specifications" for the model you are using. ✓	
p1	string	Command parameters. Add as needed for each command.	
p2	string	Command parameters. Add as needed for each command.	
p3	string	Command parameters. Add as needed for each command.	
p4	string	Command parameters. Add as needed for each command.	
p5	string	Command parameters. Add as needed for each command.	
p6	string	Command parameters. Add as needed for each command.	
p7	string	Command parameters. Add as needed for each command.	
p8	string	Command parameters. Add as needed for each command.	

#### Response (Normal)

##### Content-Type

text/plain

##### Format

	Method
Status Code	200 OK
Body	{response}

##### Parameters

Name	Type	Description
response	string	Response value for ESC/VP21 commands

## Error Response

### General Errors

#### Response

##### Content-Type

text/plain

##### Format

	Method
Status Code	Except for 200 OK
Body	None

##### Error Table

Status Code	Description
400 BadRequest	Other request error
403 Forbidden	API disabled
405 MethodNotAllowed	The Method is not permitted
500 InternalServerError	Other server error/projector power off

## Trademarks

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