EPSON

# Web API Specifications for Projectors

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## Contents


- 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 Command Prompt
- Projector Control Sample
  - Projector Control Sample
  - Windows 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


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**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


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# Application

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

## Content Playback

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

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

## 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).

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# 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

**Digest authentication**

| Username | Password |
|---|---|
| EPSONWEB | Epson Web Control Password |

# Content-Type

## 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.

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# Windows 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.

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

In the following example, after the IP address "192.168.88.1", you need to specify the port listed in the List of Supported Models in the form of ":80".
The port differs depending on whether you are using "http://" or "https://"

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://192.168.88.1:80/api/v01/contentmgr/playlist/play/1*

Stop playlist (V01)

*curl "http://192.168.88.1:80/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://192.168.88.1:80/api/v02/contentmgr/playlists/playback"*

Turn on the projector

*curl "http://192.168.88.1:80/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://192.168.88.1:80/api/v01/contentmgr/remote/power/off"*

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

*curl --digest --user EPSONWEB:admin "http://192.168.88.1:80/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://192.168.88.1:443/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://192.168.88.1:80/api/v02/contentmgr/remote/mute"*

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

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*curl.exe -X PUT -H "Content-Type:application/json" -d '{""mute"": ""on""}' "http://192.168.88.1:80/api/v02/contentmgr/remote/mute"*

Source Select

*curl -X PUT -H "Content-Type:application/json" -d "{""source_id"": ""32""}" "http://192.168.88.1:80/api/v02/contentmgr/remote/source"*

Acquire Data Information List

*curl "http://192.168.88.1:80/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://192.168.88.1:80/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://192.168.88.1:80/api/v03/contentmgr/medias/15"*

Acquire playlist information list

*curl "http://192.168.88.1:80/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://192.168.88.1:80/api/v03/contentmgr/playlists"*

Execute the command with data IDs 1 and 2 present 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://192.168.88.1:80/api/v03/contentmgr/playlists/11"*

Acquire data ID from playlist

*curl "http://192.168.88.1:80/api/v03/contentmgr/playlists/11/medias"*

Delete Playlist

*curl -X DELETE "http://192.168.88.1:80/api/v03/contentmgr/playlists/10"*

Acquire playlist information (for playlist being played)

*curl "http://192.168.88.1:80/api/v03/contentmgr/playlists/current"*

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

*curl "http://192.168.88.1:80/api/v03/contentmgr/playlists/medias/max"*

Acquire information about Overlay Effects for Sources

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*curl "http://192.168.88.1:80/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://192.168.88.1:80/api/v03/contentmgr/filters/sources/current"*

Acquire Time Table information (for that day only)

*curl "http://192.168.88.1:80/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://192.168.88.1:80/api/v03/contentmgr/timetable?filename=202002.xml"*
2 Reload project data
*curl -X PUT -H "Content-Type:application/json" -d "{""reload"":true}"*
*"http://192.168.88.1:80/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://192.168.88.1:80/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://192.168.88.1:80/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://192.168.88.1:80/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://192.168.88.1:80/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://192.168.88.1:80/api/v03/contentmgr/timetable?filename=PlaylistUsedInTimetable.xml"*
5 Reload project data
*curl -X PUT -H "Content-Type:application/json" -d "{""reload"":true}"*
*"http://192.168.88.1:80/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/

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# Windows 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.
In the following example, after the IP address "192.168.88.1", you need to specify the port listed in the List of Supported Models in the form of ":80".
The port differs depending on whether you are using "http://" or "https://"

Preparing the Projector

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

When API authentication is Off
***curl http://192.168.88.1:80/api/v01/control/escvp21?cmd={cmd}+{param1}[+{param2}]***

When API authentication is On
***curl --digest --user EPSONWEB:{password} http://192.168.88.1:80/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://192.168.88.1:443/api/v01/control/escvp21?cmd={cmd}+{param1}[+{param2}]***
***curl -k --digest --user EPSONWEB:{password} https://192.168.88.1:443/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://192.168.88.1:80/api/v01/control/escvp21?cmd=PWR?***
(Check the current power status)

***curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=PWR+ON***

***curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=PWR+OFF***

Switch Sources

***curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=SOURCE+30***
(HDMI source)

***curl http://192.168.88.1:80/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://192.168.88.1:80/api/v01/control/escvp21?cmd=MUTE+ON***

***curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=MUTE+OFF***

On-Screen Display Settings

***curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=ONSCREEN+00***

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(Do not display any menus or messages)

*curl http://192.168.88.1:80/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://192.168.88.1:80/api/v01/control/escvp21?cmd=CMODE+1A*
(Change to Multi-Projection)

Aspect

*curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=ASPECT+10*
(Change to 4:3)

*curl http://192.168.88.1:80/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://192.168.88.1:80/api/v01/control/escvp21?cmd=LUMINANCE+05*
(Custom)

*curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=LUMLEVEL+0*
(Change the Brightness level to minimum)

Screen

*curl "http://192.168.88.1:80/api/v01/control/escvp21?cmd=SCFORMAT+01+02*
(Change screen type setting to 16:9)

*curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=SCFORMAT+02+3C*
(Move screen type position by +60)

*curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=SCFORMAT+02+FFF*
(Move screen type position by -1)

*curl http://192.168.88.1:80/api/v01/control/escvp21?cmd=SCFORMAT+02+FC4*
(Move screen type position by -60)

*curl "http://192.168.88.1:80/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.

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| Model number | | | | EB-G890E,EB-G790SE,EB-G890U,EB-G790G | EB(CB)-XQ2030B | 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,L890U,L895U,L790U,L690U,L790SU,L690SU,L695SU,L690SE,L695SE, EB-L790G,CB-L590SE | EH-QL3000W/EH-QL3000B/CH-QL3000W/CH-QL3000B, EH-QL7000W/EH-QL7000B | EB (CB)-PQ2008W,PQ2008B,PQ2010W,PQ2010B,PQ2213B,PQ2216W,PQ2216B,PQ2220B | EB-815E,810E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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** |
| **Port (http/https)** | | | | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** |
| Type | URI Path & Query | Summary | API Ver. | | | | | | | | |
| Content Playback | /api/v01/contentmgr/remote/power/on | Power on | V01 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v01/contentmgr/remote/power/off | Power off | V01 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v01/contentmgr/playlist/play/{id} | Start Playlist for Specified ID | V01 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v01/contentmgr/playlist/stop | Stop Playlist | V01 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| Content Playback | /api/v02/contentmgr/remote/power | Power control | V02 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v02/contentmgr/remote/source | Switch Source | V02 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v02/contentmgr/remote/mute | A/V Mute Control | V02 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v02/contentmgr/playlists/playback | Content Playback Control | V02 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| Content Playback | /api/v03/contentmgr/medias?offset={offset}&limit={limit}&order={order} | Acquire Data Information | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/medias?filename={filename} | Upload data | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/medias/{id} | Delete data | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/playlists | Acquire playlist information list | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/playlists | Register a New Playlist | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/playlists/{id} | Edit Playlist | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/playlists/{id}/medias | Acquire data ID from playlist | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/playlists/{id} | Delete Playlist | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/playlists/current | Acquire playlist information (for playlist being played) | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/playlists/medias/max | Acquire maximum number of data entries that can be registered to the playlist | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/filters/sources/current | Acquire information about Overlay Effects for Sources | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/filters/sources/current | Setting Overlay Effects for Sources | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/filters/range | Acquire Setting Range for Overlay Effects | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/timetable | Acquire Time Table information (for that day only) | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/timetable | Enable/Disable Time Table Settings | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/timetable?filename=filename | Upload Time Table (by file) | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/timetable/all | Clear Batch of Time Tables | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| | /api/v03/contentmgr/config/reload | Reload project data | V03 | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes |
| For controlling projector | /api/v01/control/escvp21 | Execute ESCVP21 Commands | V01 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

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| Model number | | | | EB(CB)-L775U,L770U,L570U | EB(CB)-L210W,770Fi,760Wi,760W | EB(CB)-L260F,L265F,L210SF,L210SW,770F,775F,L270F | EB (CB)-PU2120W,PU2116W,PU2113W,PU2220B,PU2216B,PU2213B | EB(Pro/CB)-L30000U,L30002 | EB(Pro/CB)-L20000U,L20002U,L12000Q,L12002Q | EB(Pro/CB)-L1710S,L1715S,L1510S,L1515S,L1750U,L1755U,L1500UH,L1505UH,L1490U,L1495U | EB (CB)-PU1008B,PU1008W,PU1007B,PU1007W,PU1006W,PU2010B,PU2010W |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum firmware version | | | | V100 | V100 | V100 | V100 | V410 | V410 | V410 | 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** |
| **Port (http/https)** | | | | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** |
| Type | URI Path & Query | Summary | API Ver. | | | | | | | | |
| Content Playback | /api/v01/contentmgr/remote/power/on | Power on | V01 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v01/contentmgr/remote/power/off | Power off | V01 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v01/contentmgr/playlist/play/{id} | Start Playlist for Specified ID | V01 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v01/contentmgr/playlist/stop | Stop Playlist | V01 | Yes | No | Yes | Yes | No | No | No | Yes |
| Content Playback | /api/v02/contentmgr/remote/power | Power control | V02 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v02/contentmgr/remote/source | Switch Source | V02 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v02/contentmgr/remote/mute | A/V Mute Control | V02 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v02/contentmgr/playlists/playback | Content Playback Control | V02 | Yes | No | Yes | Yes | No | No | No | Yes |
| Content Playback | /api/v03/contentmgr/medias?offset={offset}&limit={limit}&order={order} | Acquire Data Information | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/medias?filename={filename} | Upload data | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/medias/{id} | Delete data | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/playlists | Acquire playlist information list | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/playlists | Register a New Playlist | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/playlists/{id} | Edit Playlist | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/playlists/{id}/medias | Acquire data ID from playlist | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/playlists/{id} | Delete Playlist | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/playlists/current | Acquire playlist information (for playlist being played) | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/playlists/medias/max | Acquire maximum number of data entries that can be registered to the playlist | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/filters/sources/current | Acquire information about Overlay Effects for Sources | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/filters/sources/current | Setting Overlay Effects for Sources | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/filters/range | Acquire Setting Range for Overlay Effects | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/timetable | Acquire Time Table information (for that day only) | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/timetable | Enable/Disable Time Table Settings | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/timetable?filename=filename | Upload Time Table (by file) | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/timetable/all | Clear Batch of Time Tables | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| | /api/v03/contentmgr/config/reload | Reload project data | V03 | Yes | No | Yes | Yes | No | No | No | Yes |
| For controlling projector | /api/v01/control/escvp21 | Execute ESCVP21 Commands | V01 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

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| Model number | | | | 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,L610,L400U,L500W,L500 | EV-100,EV-105 |
|---|---|---|---|---|---|---|---|---|---|---|
| Minimum firmware version | | | | V100 | V100 | V100 | V100 | V100 | V102 | V101 |
| **Setting type (Web API On/Off, and so on)** | | | | **Developer's Menu** | **Developer's Menu** | **Developer's Menu** | **Developer's Menu** | **Developer's Menu** | **Developer's Menu** | **Developer's Menu** |
| **Port (http/https)** | | | | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** | **80/443** |
| 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 |
| | /api/v01/contentmgr/remote/power/off | Power off | V01 | 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 |
| | /api/v01/contentmgr/playlist/stop | Stop Playlist | V01 | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Content Playback | /api/v02/contentmgr/remote/power | Power control | V02 | Yes | Yes | Yes | Yes | No | No | No |
| | /api/v02/contentmgr/remote/source | Switch Source | V02 | Yes | Yes | Yes | Yes | No | No | No |
| | /api/v02/contentmgr/remote/mute | A/V Mute Control | V02 | Yes | Yes | Yes | Yes | No | No | No |
| | /api/v02/contentmgr/playlists/playback | Content Playback Control | V02 | Yes | Yes | 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 | No | No |
| | /api/v03/contentmgr/medias?filename={filename} | Upload data | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/medias/{id} | Delete data | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/playlists | Acquire playlist information list | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/playlists | Register a New Playlist | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/playlists/{id} | Edit Playlist | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/playlists/{id}/medias | Acquire data ID from playlist | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/playlists/{id} | Delete Playlist | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/playlists/current | Acquire playlist information (for playlist being played) | V03 | 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 | No | No | No | No | No |
| | /api/v03/contentmgr/filters/sources/current | Acquire information about Overlay Effects for Sources | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/filters/sources/current | Setting Overlay Effects for Sources | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/filters/range | Acquire Setting Range for Overlay Effects | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/timetable | Acquire Time Table information (for that day only) | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/timetable | Enable/Disable Time Table Settings | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/timetable?filename=filename | Upload Time Table (by file) | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/timetable/all | Clear Batch of Time Tables | V03 | Yes | Yes | No | No | No | No | No |
| | /api/v03/contentmgr/config/reload | Reload project data | V03 | Yes | Yes | No | No | No | No | No |
| For controlling projector | /api/v01/control/escvp21 | Execute ESCVP21 Commands | V01 | No | No | No | No | No | No | No |

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# 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

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# 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://192.168.88.1:80/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.
The" :80" part specifies the port number based on the List of Supported Models.

### Request

**Format**

| | Method |
|---|---|
| URL | /api/v01/contentmgr/playlist/play/{id} |
| 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 | /api/v01/contentmgr/playlist/stop |
| Method | GET/POST/PUT |
| Body | None |

**Parameters**

None

### Response

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |

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| | |
|---|---|
| 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 | {<br>"code": 5002<br>} |

**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 |

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# Remote Functions

## Power control

### Function Description

Turns the projector on or off.

### Request

**Format**

| | Method |
|---|---|
| URL | /api/v02/contentmgr/remote/power |
| Method | PUT |
| Body | {<br>"power": "on"<br>} |

**Parameters**

| Name | Type | Description | Required |
|---|---|---|---|
| power | string | Projector's power on/off status<br>on: Power is on<br>off: Power is off | ✓ |

### Response

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |
| Body | {<br>"power": "on"<br>} |

**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 | {<br>"source_id": "32"<br>} |

**Parameters**

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

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### Response

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |
| Body | {<br>"source_id": "32"<br>} |

**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 | {<br>"mute": "on"<br>} |

**Parameters**

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

### Response

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |
| Body | {<br>"mute": "on"<br>} |

**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://192.168.88.1:80/lighting/developer-menu in a web browser.

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

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Check the projector's IP address from the [Network] menu.
The" :80" part specifies the port number based on the List of Supported Models.

## Request

**Format**

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

**Parameters**

| Name | Type | Description | Required |
|---|---|---|---|
| playback | string | Start/stop status for Content Playback<br>start: Starts the playlist<br>stop: Stops the playlist | ✓ |
| mode | string | Content Playback Method<br>normal: Plays the playlist by specifying the ID.<br>timetable: Plays the Time Table. | ✓<br>(*1) |
| playlist_id | number | Playlist ID | ✓<br>(*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 | {<br>"status": "normal",<br>"playlist_id": 1<br>} |

**Parameters**

| Name | Type | Description |
|---|---|---|
| status | string | Content Playback Status<br>normal: During normal playback (playing specified ID)<br>timetable: During Time Table playback<br>stop: Stopping operation |
| playlist_id | number | Playlist ID being played (*1)<br>null while playlist is stopped<br>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.

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# Error Response

## General Errors

### Response

**Format**

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

**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 expected type name that was incorrectly entered.
Examples: "source_id" has invalid type (expected "string").

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# 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 = 1000. | |
| 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 }, |

```
        {
          "mediaId": 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 |
| mediaId | 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 | { "mediaId":2, "thumbnailPath" : "/lighting/thumbnail/movie/20200818_0947_315953.jpg" } |

**Parameters**

| Name | Type | Description |
|---|---|---|
| mediaId | number | Data ID |
| thumbnailPath | string | Data thumbnail path |

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### 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 | {<br>"total":0,<br>"datas":[<br>]<br>} |

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**Parameters**

| Name | Type | Description |
|---|---|---|
| datas | array | List |

### Response (Normal: When Content is Available)

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |
| Body | { "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 } ] } |

**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 |

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

**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<br>0: None, 1: Fade, 2: Wipe Right, 3: Wipe Left<br>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<br>00: Off, 01: Warm White, 02: Cool White<br>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<br>00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3<br>07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4 | ✓ |
| alphaPattern | string | Filter Effect of the Shape Filter<br>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 | {<br>"playlistId":8;<br>"name":"test",<br>"totalTime" : 40,<br>"filterId": 8,<br>"doFilter" : true,<br>"doLoop" : true,<br>"thumbnailPath": "/lighting/thumbnail/movie/20200325_1029_774502.jpg",<br>"interval": 10,<br>"effect" : 3<br>} |

**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<br>0: None, 1: Fade, 2: Wipe Right, 3: Wipe Left<br>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 | {<br>"playlist": {<br>"name":"modified",<br>"doLoop" : true,<br>"contents": [<br>1,<br>3<br>],<br>"interval" : 10,<br>"effect" : 0,<br>"doFilter" : false<br>},<br>"filter": {<br>"resolution":"WXGA",<br>"colorId" : "06",<br>"colorR" : 70,<br>"colorG" : 90,<br>"colorB" : 100,<br>"brightness" : 90,<br>"shapeId" : "04", |

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```
                "alphaPattern" : "01",
                "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<br>0: None, 1: Fade, 2: Wipe Right, 3: Wipe Left<br>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<br>00: Off, 01: Warm White, 02: Cool White<br>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<br>00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3<br>07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4 | |
| alphaPattern | string | Filter Effect of the Shape Filter<br>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 | { |

```
    "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,
                "brightness" : 90,
                "shapeId" : "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 | { |

```
    "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
        }
    ]
}
```

**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 |

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| | | |
|---|---|---|
| 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 | { |


```
"playlistId":11,
"name":"modified",
"totalTime":25,
"doFilter":false,
"doLoop":true,
"thumbnailPath" : "/lighting/thumbnail/picture/20200819_0106_968700.jpg",
"status" : "normal",
```


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```
    "filter":{
      "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,<br>“Preview”: During a preview,<br>“timetable”: During Time Table playback,<br>“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<br>00: Off, 01: Warm White, 02: Cool White<br>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<br>00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3<br>07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4 |
| alphaPattern | string | Filter Effect of the Shape Filter<br>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 |

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| | |
|---|---|
| Body | None |

### Response

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |
| Body | {<br>"max": 100<br>} |

**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 | {<br>"doFilter":false,<br>"shapeId":"01",<br>"alphaPattern":"01",<br>"shapeWidth":600,<br>"shapeHeight":600,<br>"shapeRectX":640,<br>"shapeRectY":400,<br>"colorId":"00",<br>"colorR":100,<br>"colorG":100,<br>"colorB":100,<br>"brightness":100<br>} |

**Parameters**

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

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| | | |
|---|---|---|
| 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<br>00: Off, 01: Warm White, 02: Cool White<br>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 | {<br>"doFilter":true,<br>"shapeId":"01",<br>"alphaPattern":"01",<br>"shapeWidth":600,<br>"shapeHeight":600,<br>"shapeRectX":640,<br>"shapeRectY":400,<br>"colorId":"00",<br>"colorR":255,<br>"colorG":255,<br>"colorB":250,<br>"brightness":100<br>} |

**Parameters**

| Name | Type | Description | Required |
|---|---|---|---|
| doFilter | boolean | Set whether or not Overlay Effects are used | ✓ |
| shapeId | string | Shape of the Shape Filter<br>00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3<br>07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4 | ✓ |
| alphaPattern | string | Filter Effect of the Shape Filter<br>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<br>00: Off, 01: Warm White, 02: Cool White<br>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".

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### Response

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |
| Body | {<br>"doFilter" : true,<br>"shapeId" : "01",<br>"alphaPattern" : "01",<br>"shapeWidth" : 600,<br>"shapeHeight" : 600,<br>"shapeRectX" : 640,<br>"shapeRectY" : 400,<br>"colorId" : "00",<br>"colorR" : 98,<br>"colorG" : 98,<br>"colorB" : 98,<br>"brightness" : 100<br>} |

**Parameters**

| Name | Type | Description |
|---|---|---|
| doFilter | boolean | true: Overlay Effect On; false: Overlay Effect Off |
| colorId | string | Color Filter<br>00: Off, 01: Warm White, 02: Cool White<br>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<br>00: Off, 01: Circle 1, 02: Circle 2, 03: Circle 3, 04: Rectangle 1, 05: Rectangle 2, 06: Rectangle 3<br>07: Custom 1, 08: Custom 2, 09: Custom 3, 0A: Custom 4 |
| alphaPattern | string | Filter Effect of the Shape Filter<br>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 |

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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 | { |

```
  "enabled":true,
  "status":"enabled",
  "date":"2017/07/26",
  "time":"09:48",
  "events": [
    {
      "name":"pl1",
      "startTime":"08:00",
      "endTime":"09:00",
```

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```
        "playlistId":1
      },
      {
        "name":"pl2",
        "startTime":"10:00",
        "endTime":"10:45",
        "playlistId":50
      }
    ]
}
```


**Parameters**

| Name | Type | Description |
|---|---|---|
| enabled | boolean | Enable/disable Time Table playback<br>true: Time Table playback is enabled<br>false: Time Table playback is disabled |
| status | string | Time Table function status<br>“disabled”: Temporarily disabled (turned off using the toggle button in the GUI)<br>“enabled”: Enabled status<br>“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 | {<br>"enabled":true<br>} |

**Parameters**

| Name | Type | Description | Required |
|---|---|---|---|
| enabled | boolean | Enable/disable Time Table playback<br>true: Time Table playback enabled<br>false: Time Table playback disabled | ✓ |

### Response

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |
| Body | {<br>"enabled":true,<br>"status":"enabled", |

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```
  "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<br>true: Time Table playback is enabled<br>false: Time Table playback is disabled |
| status | string | Time Table function status<br>“disabled”: Temporarily disabled (turned off using the toggle button in the GUI)<br>“enabled”: Enabled status<br>“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 | ✓ |

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### Response

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |
| Body | {<br>"fileName":"201901.xml",<br>} |

**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 |
| 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 | {<br>"reload":true<br>} |

**Parameters**

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| Name | Type | Description | Required |
|---|---|---|---|
| reload | boolean | true: Reloads data | ✓ |

### Response

**Format**

| | Method |
|---|---|
| Status Code | 200 OK |
| Body | {<br>"reload":true<br>} |

## Error Response

### General Errors

### Response

**Format**

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

**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. |

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

(*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 expected type 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.

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# 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**

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| 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 |

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