



# **Cyviz Easy Controller**

**API commands**

**Version 2.19**

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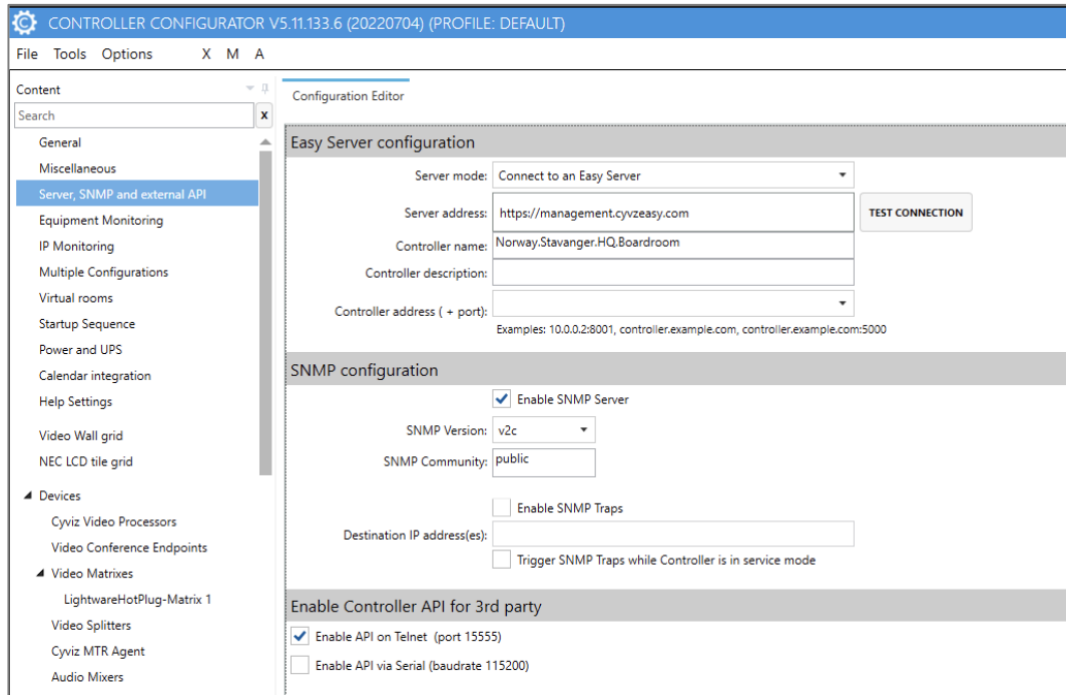
# 1 Cyviz Easy Controller – 3<sup>rd</sup> party API

## 1.1 Introduction

The Cyviz Easy Controller offers an ASCII API over IP for interaction with other control system.

## 1.2 Enabling the telnet API on a Controller

In the Controller Configuration Tool, under section “Server, SNMP and external API”, check the option named “Enable API on Telnet” under section “Enable Controller API for 3<sup>rd</sup> party”.



The API is available on port 15555 when enabled.

To open port 15555 in the Firewall on the Controller:

- Exit the Controller and enter the AdminTool.
- Start a Windows terminal as Administrator and right click on cmd.exe in windows\system32 and choose “Run as administrator”.

Enter the following command:

```
netsh advfirewall firewall add rule name=CDCEexternalAPI dir=in action=allow protocol=TCP localport=15555
```

## 1.3 Easy Controller Version

The API described in this document is available from version 5.11.142

## 1.4 General guidelines

Avoid calling the API with more that 2 calls per second.

## 2 Command overview

### 2.1 System

#### 2.1.1 Get power status

Returns power status as ON or OFF.

**Syntax**

`power status`

**Response**

`Power is off`

#### 2.1.2 Turn power on

Turns the display wall ON.

**Syntax**

`power on`

**Response**

`Power is on`

#### 2.1.3 Turn power off

Turns the display wall OFF.

**Syntax**

`power off`

**Response**

`Power is off`

#### 2.1.4 Clean system

Cleans (resets) the system for the next session. This will clear the display wall, clear targets, hang up VC calls and return to the Controller start page.

**Syntax**

`system clean`

**Response**

`System is cleaned.`

## 2.2 Display wall

### 2.2.1 Set primary source

Activate primary source. Id 0 is used for no source.

#### Syntax

```
primary source <Name or id of primary source>
```

#### Response

```
Primary source <Name of primary source> loaded.  
or
```

```
ERROR:Could not find primary source named <Name of primary source>
```

#### Example

```
primary source Windows10
```

#### Response

```
Primary source Windows10 loaded.
```

### 2.2.2 Get stereo status

Returns status of stereo mode as ON or OFF.

#### Syntax

```
stereo status
```

#### Response

```
stereo is off|on
```

### 2.2.3 Turn stereo on

Turns stereo mode ON.

#### Syntax

```
stereo on
```

#### Response

```
stereo is on
```

### 2.2.4 Turn stereo off

Turns stereo mode OFF.

#### Syntax

```
stereo off
```

#### Response

```
stereo is off
```

### 2.2.5 Get list of PiPs on display wall

Will return a list of PiPs shown on the display wall.

The PiP Id will reflect the sequence of when the PiP was added to the video wall. If a PiP is changed by the intelligent PiP handler, the sequence (and the Id) will change.

#### Syntax

```
getpiplist
```

#### Response

```
*r start - getpiplist
*r amount of pips: <quantity>
*r pip <id>, <pos X>, <pos Y>, <width>, <height>, <visible|hidden>, <source name>
*r end
```

#### Example

```
getpiplist
```

#### Response

```
*r start - getpiplist
*r amount of pips: 2
*r pip 1, 0, 0, 1920, 1080, visible, ClickShare
*r pip 2, 1920, 0, 1280, 768, hidden, Workstation
*r end
```

### 2.2.6 Get list of PiPs on display wall v2

Will return a list of PiPs shown on the display wall, where the source is identified by its external name.

```
getpiplistv2
```

#### Response

```
*r start - getpiplistv2
*r amount of pips: <quantity>
*r pip <id>, <pos X>, <pos Y>, <width>, <height>, <visible|hidden>, <external source name>
*r end
```

#### Example

```
getpiplistv2
```

#### Response

```
*r start - getpiplistv2
*r amount of pips: 2
*r pip 1, 0, 0, 1920, 1080, visible, cs1
*r pip 2, 1920, 0, 1280, 768, hidden, ws2
*r end
```

## 2.2.7 Replace PiP source and change size and position

Will change content, size and position of a PiP identified by PiP Id returned from `getpiplist`.

### Syntax

```
replacepip <id>, <name of source>, [<pos X>, < pos Y>, <width>, <height>]
```

- `<id>` Id of PiP, which is returned in `getpiplist`
- `<name of source>` Name of Source to replace current source
- `<pos X>` Position of PiP in X coordinate
- `<pos Y>` Position of PiP in Y coordinate
- `<width>` PiP Width
- `<height>` PiP Height

Size and position are optional, when not specified, the PiP will inherit size & position from existing PiP. Position 0,0 is upper left corner. Aspect of PiP will not adjust to aspect of video source and content will be stretch to fit PiP size.

### Response

```
*r start - replacepip
*r replacepip success
*r end
*e <additional information>
or
*r start - replacepip
*r replacepip error (<error message>)
*r end
```

### Example

```
replacepip 1, workstation, 0, 0, 1280, 1024
or
replacepip 1, workstation
```

### 2.2.8 Replace PiP source and change size and position v2

Will change content, size and position of a PiP identified by PiP Id returned from `getpiplist`, and the source is identified by its external name.

#### Syntax

```
replacepipv2 <id>, <external source name>, [<pos X>, < pos Y>, <width>, <height>]
```

#### Response

```
*r start - replacepipv2
*r replacepipv2 success
*r end
*e <additional information>
or
*r start - replacepipv2
*r replacepipv2 error (<error message>)
*r end
```

#### Example

```
Replacepipv2 1, ws2, 0, 0, 1280, 1024
or
replacepipv2 1, ws2
```

### 2.2.9 Set visibility of a PiPs

Will set the visibility of a PiP identified by the Id.

#### Syntax

```
setpipvisible <id>, <1|0>
```

```
1 for visible
0 for hidden
```

#### Response

```
*r start - setpipvisible
Sat pip <id>visibility to <True|False>
*r end
```

#### Example

```
setpipvisible 2, 0
```

#### Response

```
*r start - setpipvisible
Sat PiP 1visibility to False
*r end
```

## 2.3 Sources

### 2.3.1 Get list of sources

Will return a list over secondary sources, with a GUID, name and confidentiality level.

- The source name can be used in combination with the "**replacepip**" function.
  - The source GUID can be used in combination with the "**source set**" function.
  -

#### Syntax

```
getsourcelist
```

#### Response

```
*r start - getsourcelist
*r Name: "NUC#1 - Left" GUID: "10d817e1-ded6-41a9-b645-cfa254878114"
Confidentiality: 0
*r Name: "NUC#1 - Right" GUID: "ed5619cc-8580-4056-9242-0e67a3c82bbf"
Confidentiality: 0
*r end
```

### 2.3.2 Get list of sources v2

Will return a list over secondary sources, with the GUID, name, external name and confidentiality level.

- The source name and external name can be used in combination with the "**replacepip**" function.
- The source GUID can be used in combination with the "**source set**" function.

```
getsourcelistv2
```

#### Response

```
*r start - getsourcelistv2
*r Name: "NUC#1 - Left" Confidentiality: 0 GUID: "10d817e1-ded6-41a9-b645-cfa254878114" Confidentiality: 0 ExtName: "OpStatOneLeft"

*r Name: "NUC#1 - Right" Confidentiality: 0 GUID: "10d817e1-ded6-41a9-b645-cfa254837614" Confidentiality: 1 ExtlName: "OpStatOneRight"

*r end
```

### 2.3.3 Change source

Will change the name and/or the confidentiality level of the secondary source identified by the GUID.

#### Syntax

```
source set GUID: "<GUID>" Name:"<New name>"  
or  
source set GUID: "<GUID>" ConfidentialityLevel:<New level>  
or  
source set GUID: "<GUID>" Name:"<New name>" ConfidentialityLevel:<New level>
```

#### Response

```
*r start - source set name  
*r source set name success  
*r end  
and/or  
*r start - source set name  
*r source set name error (No videosource with "GUID")  
*r end
```

#### Example

```
source set GUID: "5d96cf53-7691-4cf2-9e70-b4c334f16cda" Name:"MapManager PC"
```

#### Response

```
*r start - source set name  
*r source set name success  
*r end
```

### Example

```
source set GUID: "5d96cf53-7691-4cf2-9e70-b4c334f16cda" ConfidentialityLevel:2
```

### Response

```
*r start - source set confidentiality
*r source set confidentiality success
*r end
```

### Example

```
source set GUID: "5d96cf53-7691-4cf2-9e70-b4c334f16cda" Name:"Secret PC"
ConfidentialityLevel:2
```

### Response

```
*r start - source set confidentiality
*r source set confidentiality success
*r end
*r start - source set name
*r source set name success
*r end
```

## 2.4 Targets

### 2.4.1 Get list of targets

Returns a list of targets identified with the GUID.

#### Syntax

```
gettargetlist
```

#### Response

```
*r start - gettargetlist
*r Room: "<Room name>" Name: "<Target name>" GUID: "<Target GUID>"
...
*r end
```

### 2.4.2 Get list of targets v2

Returns a list of targets with a set of target identifiers and information about the source routed to the target.

The target external name and the source external name are defined in the Easy Controller configuration.

#### Syntax

```
gettargetlistv2
```

#### Response

```
*r start - gettargetlistv2
*r Room: "<Room name>" Name: "<Target name>" GUID: "<Target GUID>" ExtName:
"<External Target Name>" SourceName: "<Source Name>" SourceGUID: "<Source GUID>"
SourceExtName: "<External Source Name>"
...
*r end
```

### 2.4.3 Clear target

Returns a list of targets.

#### Syntax

```
target clear "<TARGET GUID>"
or
target clear ExtName: "<External Target Name>"
```

#### Response

```
*r start - target clear
*r target clear success
*r end
or
*r start - target clear
*r target clear error (No target with GUID <specified target guid>)
*r end
```

#### Example

```
target clear "10d817e1-ded6-41a9-b645-cfa254878114"
```

#### Response

```
*r start - target clear
*r target clear success
*r end
```

### 2.4.4 Route a source to a target

Route a source to a target, both identified by their GUIDs.

#### Syntax

```
target route source: "<Source GUID>" target: "<Target GUID>"
or
target route sourceExtName: "<External Source Name>" target: "<TARGET GUID>"
or
target route sourceExtName: "<External Source Name>" targetExtName: "<External Target Name>"
```

#### Response

```
*r start - target route
*r target route success
*r end
or
*r start - target route
*r target route error (No source with GUID "<SOURCE GUID<" and/or no target with GUID "<TARGET GUID>")
*r end
```

### Example

```
target route source: "3a8ac903-144e-4d11-be83-ba77bfbf62d5" target: "10d817e1-ded6-41a9-b645-cfa254878114"
```

### Response

```
*r start - target route  
*r target route success  
*r end
```

## 2.5 Audio

### 2.5.1 Get master audio level

Get the master audio level, values 0 – 100.

#### Syntax

```
audio master
```

#### Response

```
*r start - Audio Master Level
*r Level: <current level>
*r end
```

#### Example

```
audio master
```

#### Response

```
*r start - Audio Master Level
*r Level: 50
*r end
```

### 2.5.2 Set master audio level

Set the master audio level, values 0 – 100.

#### Syntax

```
audio master level:<level>
```

#### Response

```
*r start - Set Audio Master Level
*r Level: <current level>
*r end
```

#### Example

```
Audio master level: 30
```

#### Response

```
*r start - Set Audio Master Level
*r Level: 30
*r end
```

### 2.5.3 Mute master audio

Mutes the master volume

#### Syntax

```
mute master on
```

#### Response

```
Master volume muted.
*e AudioPort ID: "7473614d-7265-6262-4253-53426c752031" Muted: True
```

### 2.5.4 Unmute master audio

Unmutes the master volume

#### Syntax

```
mute master off
```

#### Response

```
Master volume unmuted.
*e AudioPort ID: "7473614d-7265-6262-4253-53426c752031" Muted: False
```

### 2.5.5 Get master audio mute state

Get the master volume mute state.

#### Syntax

```
getmastermute
```

#### Response

```
Master volume unmuted|muted
```

```
*e AudioPort ID: "7473614d-7265-6262-4253-53426c752031" Muted: False|True
```

### 2.5.6 Get PiP audio status

Will return the audio status of the PiPs shown on the display wall.

#### Syntax

```
getpipaudio
```

#### Response

```
*r start - getpipaudio
*r amount of pips: <quantity>
*r pip <id>, <muted | unmuted>
*r end
```

#### Example

```
getpipaudio
```

#### Response

```
*r start - getpipaudio
*r amount of pips: 2
*r pip 1, muted
*r pip 2, unmuted
*r end
```

### 2.5.7 Mute PiP audio

Mutes the audio on a PiP.

#### Syntax

```
mute pip <pip Id> on
```

#### Response

```
pip <pip Id> audio muted.
*e AudioPort ID: "<audio port GUID>" Muted: True
```

#### Example

```
Mute pip 2 on
```

#### Response

```
pip 2 audio muted.
*e AudioPort ID: "7473614d-7265-6262-8732-ad426c7520ef" Muted: True
```

### 2.5.8 Unmute PiP audio

Unmutes the audio on a PiP.

#### Syntax

```
mute pip <pip Id> off
```

#### Response

```
pip <pip Id> audio unmuted.
*e AudioPort ID: "<audio port GUID>" Muted: False
```

#### Example

```
Mute pip 2 off
```

#### Response

```
pip 2 volume unmuted.
*e AudioPort ID: "7473614d-7265-6262-8732-ad426c7520ef" Muted: False
```

### 2.5.9 Mute the microphone

Mute the microphone.

#### Syntax

```
mute mic on
```

#### Response

```
mute mic is on
```

### 2.5.10 Unmute the microphone

Unmutes the microphone.

#### Syntax

```
mute mic off
```

#### Response

```
mute mic is off
```

### 2.5.11 Get list of audio inputs

Will return list of all audio inputs

#### Syntax

```
getlistofaudioinputs
```

#### Response

```
*r start - getlistofaudioinputs
*r Audio port - id: <input source id 1> - name: <input source name 1>
*r Audio port - id: <input source id 2> - name: <input source name 2>
*r end
```

#### Example

```
getlistofaudioinputs
```

#### Response

```
*r start - getlistofaudioinputs
*r Audio port - id: 08a7418c-dbe7-af3d-6d17-622648b56816 - name: Main Source
*r Audio port - id: 55ebdgd6-fa11-fbbd-8e60-e7fb0a548cdb - name: Room 1
*r Audio port - id: 36ecfhd6-1w25-fbbd-8e60-e7fb0a54848b - name: Room 2
*r end
```

### 2.5.12 Get list of audio outputs

Will return list of all audio outputs

**Syntax**

```
getlistofaudiooutputs
```

**Response**

```
*r start - getlistofaudiooutputs
*r Audio port - id: <input source id 1> - name: <input source name 1>
*r Audio port - id: <input source id 2> - name: <input source name 2>
*r end
```

**Example**

```
getlistofaudioinputs
```

**Response**

```
*r start - getlistofaudiooutputs
*r Audio port - id: 7453644c-7365-6262-4253-52326c752021 - name: Master
*r end
```

**2.5.13 Set audio level**

Set the input/output audio level, values 0 – 100.

**Syntax**

```
Audioport Name:"<audio input/output name>|ID:<audio input/output id>" Level:<level>
```

**Response**

```
*r AudioPort ID:"<audio name>|ID:<audio id>" Level:<level>
```

**Example**

```
Audioport ID:"05b5418b-tcq3-af6d-4w19-312648b52816" Level:25
```

**Response**

```
*r AudioPort ID: "05b5418b-tcq3-af6d-4w19-312648b52816" Level: 25
```

**2.5.14 Get audio level**

Get the input/output audio level.

**Syntax**

```
Audioport Name:"<audio input/output name>|ID:<audio input/output id>" Level
```

**Response**

```
*r AudioPort ID:"<audio name>|ID:<audio id>" Level:<level>
```

**Example**

```
Audioport ID:"05b5418b-tcq3-af6d-4w19-312648b52816" Level
```

**Response**

```
*r AudioPort ID: "05b5418b-tcq3-af6d-4w19-312648b52816" Level: 25
```

## 2.6 Light control

### 2.6.1 Get light preset list

Returns list of stored light presets

#### Syntax

```
light preset list
```

### 2.6.2 Load light preset by Name or ID

Load light preset by its preset name or by its id.

#### Syntax

```
light preset recall ID: "<ID>"
```

or

```
light preset recall Name: "<Name>"
```

### **2.6.3 Load the default light preset**

Loads “default” preset as defined in light events in the Controller preferences

**Syntax**

```
light preset default
```

### **2.6.4 Load the light preset used when display wall is on**

Loads the “displayon” preset as defined in light events in the Controller preferences.

**Syntax**

```
light preset displayon
```

## 2.7 Video conference

### 2.7.1 Set the outgoing video source

Change the outgoing main video channel from codec

#### Syntax

```
outgoing main <name of source>
```

#### Response

```
Source <name of source> set as outgoing main.
```

or

```
Valid source names: <list of valid sources>
```

#### Example

```
outgoing main front camera
```

#### Response

```
Source front camera set as outgoing main.
```

### 2.7.2 Load a camera preset

Load camera a preset defined in the Cyviz Easy Controller.

#### Syntax

```
load camera preset <cameranumber, presetname>
```

#### Response

```
Camera preset loaded
```

or

```
No such preset and/or camera
```

#### Example

```
load camera preset 1, front
```

#### Response

```
Camera preset loaded
```

### 2.7.3 Get video conference status

Get information about video conference.

#### Syntax

`getvcstatus`

#### Response

Undefined

or

NotActive

or

Active

or

ActiveAndSharing

#### Example

`getvcstatus`

#### Response

Active

### 2.7.4 Recall camera preset and change outgoing camera source

Change outgoing camera source and recall a saved camera preset with single command

#### Syntax

Outgoing camera with preset <camera number>,<preset name>

#### Response

Camera preset loaded

Source <camera name> set as outgoing main.

#### Example

Outgoing camera with preset 1,mypreset

#### Response

Camera preset loaded

Source MyCamera set as outgoing main.



## 2.8 Presets

### 2.8.1 Get list of Presets

Will return a list over available presets, these preset names can be used by the `load preset` functions.

#### Syntax

```
getpresetlist
```

#### Response

```
*r start - getpresetlist
*r Morning meeting
*r Overview Sea
*r end
```

### 2.8.2 Get list of Presets v2

Will return a list over available presets, with GUID and external name.

The external name can be defined in the Controller Preferences page.

#### Syntax

```
getpresetlistv2
```

#### Response

```
*r start - getpresetlistv2

*r Name: "Morning meeting" GUID: "10d817e1-ded6-41a9-b645-gfc254878114"
ExternalName: "MornMeeting1"
*r Name: "Overview Sea" GUID: "10d818e1-ced6-41a9-b647-gfc254878184" ExtName:
"OverviewSea"
*r end
```

### 2.8.3 Load a preset

Will load first preset which contains a name with closest match to the name given, or exact match of GUID or external preset name.

There are two implementations: `load preset` and `cleanandloadpreset`

`cleanandloadpreset` will remove all PiPs before the preset is loaded which will ensure that the PiP Ids returned by the `getpiplist` reflects the sequence of when the Preset PiPs where added.

#### Syntax

```
cleanandloadpreset <name of preset>
or
cleanandloadpreset GUID: "<preset GUID>"
or
cleanandloadpreset ExtName: "<external preset name>"
```

```
load preset <name of preset>
or
load preset GUID: "<preset GUID>"
or
load preset ExtName: "<external preset name>"
```

**Response**

```
*r start - load preset
*r load preset success (Preset <Name of preset> loaded.)
*r end
or
*r start - load preset
*r load preset error (<Could not find preset named <Preset specified>)
*r end
```

**Example**

```
load preset Overview Sea
```

**Response**

```
*r start - load preset
*r load preset success (Preset Overview Sea loaded.)
*r end
*e AudioPort ID: "6f656469-4d20-5854-4253-53426c752031" Muted: False
*e Preset Current Active: True
*e Preset Current Name: "Overview Sea"
*e Preset Current Number: 1
```

**2.8.4 Get active preset**

Will return the name of the active preset.

**Syntax**

```
preset active
```

**Response**

```
*r start - preset active
*r Preset Current Active: False
*r Preset Current Number: -1
*r Preset Current Name: ""
*r end
or
*r start - preset active
*r Preset Current Active: True
*r Preset Current Number: 1
*r Preset Current Name: "Overview Sea"
*r end
```

**2.8.5 Get active preset v2**

Will return the name, GUID and external name of the active preset.

**Syntax**

```
preset activev2
```

**Response**

```
*r start - preset activev2
*r Preset Current Active: True
*r Preset Current Number: 1
*r Preset Current Name: "Overview Sea"
*r Preset Current GUID: "e3078b2e-2fdd-4412-84b9-27e4cc6e3c3f"
*r Preset Current ExternalName: "OverviewSea"
*r end
```

## 2.9 Configuration profiles

### 2.9.1 Get the current configuration profile name

Returns the name of the current controller configuration profile.

#### Syntax

```
Room profile get
```

#### Response

```
Current profile is [Default]
```

### 2.9.2 Change the configuration profile

Change configuration profile by specifying the name of a configuration Profile. Password is optional. Changing the configuration profile will result in a Controller soft restart.

#### Syntax

```
room profile set Name:"<Profile name>" Password:"<Optional password>"
```

#### Response

```
*r start - room profile set  
*r room profile set success  
*r end
```

or

```
*r start - room profile set  
*r room profile set error (No such profile, valid profiles are [Default, [Suspended mode]])  
*r end
```

#### Example

```
room profile set Name:"Combined room" Password:"CyvizPW"
```

#### Response

```
*r start - room profile set  
*r room profile set success  
*r end
```

## 2.10 Alarms

### 2.10.1 Get list of alarms

Will return a list over Alarms defined on the Controller.

#### Syntax

```
getalarmlist
```

#### Response

```
*r start - getalarmlist  
*r Name: "Fire alarm" State: "On"  
*r Name: "Man with gun alarm" State: "Off"  
*r end
```