

# CTVista+ Controller Data Upload APIs document

Version 1.0 – 12/11/2020

Prepared by Wing

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## Change log

<b>Name</b>	<b>Version</b>	<b>Date</b>	<b>Notes</b>
Wing	1.0	12/11/2020	Initial Draft

# 1. Authentication

CTVista+ using OAuth 2.0 as authentication method. Below are the OAuth 2.0 URLs for CTVista+ test site(<https://develop.ctvistaplus.com>).

Endpoint of OAuth 2.0 authorization address:

<https://develop.ctvistaplus.com/oauth/v2/auth>

Token address:

<https://develop.ctvistaplus.com/oauth/v2/token>

Below are the OAuth 2.0 App ID and App Secret for CTVista+ test site.

App ID: 4\_1z0wyzsnd4lc84ckkkggco848ggo0ksggkgwccg4wwcooo8wg8

App Secret: 5doomdxwcu0wgkkgks4cc8gkw448wsokco4oc4c4sgsww8ckkc

Grant Type: client\_credentials

For final deployment, we will provide new production App ID, App Secret and end point address for authorization and token.

## 2. API List:

### 2.1. Upload controller data to CTVista+

URL: <https://develop.ctvistaplus.com/oapi/controller/data>

METHOD: POST

Parameters:

Name	Type	Notes
data	String	A JSON encoded string. The JSON data struct is a controller data object

Fields in controller data object:

Name	Type	Notes
controller	Object	Controller information object
data	Array	A sensor data object array.

Controller Information object.

Name	Type	Notes
name	String	The name of this controller
serialnumber	String	The serial number of this controller

Sensor data object.

Name	Type	Notes
timestamp	DateTime	A datetime string with YYYY-MM-DD hh:mm:ss format. YYYY – Year of date. MM – Month of date, with leading zero. DD – Day of date, with leading zero. hh – Hour of time, with leading zero (24 hours format). mm – Minutes of time, with leading zero. ss – Seconds of time, with leading zero.
sensor	Array	Sensor reading object array.

Sensor reading object.

Name	Type	Notes
type	String	Type of sensor, hardware name of this sensor, cannot be empty.
customname	String	Custom name of this sensor, can be empty.
value	String	Reading of this sensor, cannot be empty.
unit	String	Unit of measure of this sensor.

Return HTTP response 200, means uploaded successfully.

HTTP response 400, means upload parameters were wrong.

HTTP response 404, means cannot find matched controller in CTVista+.

And with a JSON data, below are field in that JSON data.

Name	Type	Notes
status	String	success, means uploaded successfully. failed, means uploaded fail.
message	String	The message of upload action.