AT-VGW-HW-T1

AT-VGW-HW-T2

AT-VGW-SW

Velocity Gateway

API Command Reference

October 2026



Table of Contents

Version Information....3
Sales & Customer Support....3
Introduction....4
Basic Setup....4
Command and Feedback Basics....4
Command Quick Reference....5
Commands....6
Macros & Video Walls....12

Version Information

This document lists the commands for controlling the AT-VGW-HW-T1, AT-VGW-HW-T2, AT-VGW-SW over TCP/IP (Telnet, default port 23). Its version history follows the original command reference.

Version	Date	Notes
1	10/18	Initial release
HR 1.0	October 2026	Converted to the Hall Research document format. No command changes.

Sales & Customer Support

Item	Details
Main Office (US)	Hall Research, 1234 Lakeshore Dr Suite #150, Coppell, TX 75019
Support Hours	Monday – Friday, 8:00 a.m. – 6:00 p.m. (CST)
Website	https://www.hallresearch.com
Product Page (AT-VGW-HW-T1)	https://www.hallresearch.com/product/AT-VGW-HW-T1
Product Page (AT-VGW-HW-T2)	https://www.hallresearch.com/product/AT-VGW-HW-T2
Product Page (AT-VGW-SW)	https://www.hallresearch.com/product/AT-VGW-SW

IMPORTANT: Visit hallresearch.com/product/AT-VGW-HW-T1 or hallresearch.com/product/AT-VGW-HW-T2 or hallresearch.com/product/AT-VGW-SW for the latest firmware updates and documentation.

Introduction

Velocity can be integrated with external control systems for control of rooms and devices using macros and video wall presets.

Basic Setup

To begin integration, API must be enabled in the server settings. API instructions:

- Open Server Settings.
- Select Networks from the top navigation.
- Select API from within the Networks menu.
- Select the Enabled slider. API is enabled when the slider is green.
- *Optional* Set the port to associate to the control system. By default the port is 23.
- Select Tools from the top navigation.
- Select Restart Velocity from within the Velocity tools box.

Once Velocity has restarted, it will be available for control via an external control system.

Command and Feedback Basics

Every command and feedback will have a set format that will need to be followed to be sent and received successfully.

- Every command will be terminated with a carriage return {0D}.
- There must be a 0.5 second (500 milliseconds) delay between each command sent to Velocity.
- Every feedback will be terminated with a carriage return {0D} and line feed {0A}.
- In the feedback, {09} denotes the tab delimiter between parameters. For example, the feedback {Building ID}{09}{Building Name}{09}{Site ID} denotes the three values separated by tabs.
- If a feedback example shows multiple lines, each line ends with a line feed {0A}.

For example, MACRO LIST{0A}{Macro ID}{09}{Macro Name}{0A}{Macro ID}{09}{Macro Name}{0A}END MACRO LIST{0A}{0D} appears as:

```
MACRO LIST{0A}
{Macro ID}{09}{Macro Name}{0A}
{Macro ID}{09}{Macro Name}{0A}
END MACRO LIST{0A}{0D}
```

Command Quick Reference

Select a command name to go to its full description.

Command	Description
SITE LIST	Displays sites within Velocity
BUILDING LIST	Displays buildings within Velocity sites
ROOM LIST	Displays rooms within Velocity sites
MACRO LIST	Displays all macros within Velocity
MACRO RUN	Runs the specified macro
VIDEOWALL LIST	Displays all the video walls within Velocity sites
VIDEOWALL PRESETS LIST	Displays all the video wall presets within all the video walls
VIDEOWALL RUN	Runs the specified video wall preset

Commands

SITE LIST

Displays sites within Velocity.

Syntax

```
SITE LIST
```

This command does not require any parameters.

Example

```
SITE LIST{0D}
```

Feedback

```
SITE LIST{0A}
{Site ID}{09}{Site Name}{09}{Site City}{09}{Site State}{09}{Site Post Code}{0A}
...
END SITE LIST{0A}{0D}

SITE LIST{0A}
5b8834f7ac1a4504bfa13ab8{09}Site A{09}Bay{09}California{09}99999{0A}
2c4734f7ac1a4504bfa12ab7{09}Site B{09}Anchorage{09}Alaska{09}99999{0A}
END SITE LIST{0A}{0D}
```

BUILDING LIST

Displays the buildings within Velocity.

Syntax

```
BUILDING LIST X
```

Parameter	Description	Range
X	Value	Site ID or Site Name (not recommended)

Example

```
BUILDING LIST{0D}
BUILDING LIST 5b8834f7ac1a4504bfa13ab8{0D}
```

Feedback

```
BUILDING LIST{0A}
{Building ID}{09}{Building Name}{09}{Site ID}{0A}
...
END BUILDING LIST{0A}{0D}

BUILDING LIST 5b8834f7ac1a4504bfa13ab8{0A}
5b8834f7ac1a4504bfa13ab9{09}Building 1{09}5b8834f7ac1a4504bfa13ab8{0A}
END BUILDING LIST 5b8834f7ac1a4504bfa13ab8{0A}{0D}
```

ROOM LIST

Displays rooms within Velocity sites.

Syntax

```
ROOM LIST X
ROOM LIST Y
```

Parameter	Description	Range
X	Value	Site ID or Site Name (not recommended)
Y	Value	Building ID or Building Name

Example

```
ROOM LIST{0D}
ROOM LIST 5b8834f7ac1a4504bfa13ab8{0D}
```

Feedback

```
ROOM LIST{0A}
{Room ID}{09}{Room Name}{09}{Building ID}{09}{Site ID}{0A}
...
END ROOM LIST{0A}{0D}

ROOM LIST 5b8834f7ac1a4504bfa13ab8{0A}
5b8834f7ac1a4504bfa13abf{09}Large Conference Room{09}5b8834f7ac1a4504bfa13ab9{09}
5b8834f7ac1a4504bfa13ab8{0A}
5b8837cbac1a4504bfa13b43{09}New Room{09}5b8834f7ac1a4504bfa13ab9{09}
5b8834f7ac1a4504bfa13ab8{0A}
5b883d6cac1a456389129d71{09}BBBB{09}5b8834f7ac1a4504bfa13ab9{09}
5b8834f7ac1a4504bfa13ab8{0A}
END ROOM LIST 5b8834f7ac1a4504bfa13ab8{0A}{0D}
```

MACRO LIST

Displays all macros within Velocity.

Syntax

```
MACRO LIST
```

This command does not require any parameters.

Example

```
MACRO LIST{0D}
```

Feedback

```
MACRO LIST{0A}
{Macro ID}{09}{Macro Name}{0A}
...
END MACRO LIST{0A}{0D}

MACRO LIST{0A}
5b845374ac1a4504bfa0db40{09}Freeze{0A}
5b845374ac1a4504bfa0db42{09}Play{0A}
5b845374ac1a4504bfa0db44{09}Stop{0A}
5b883434ac1a4504bfa138e8{09}Wake{0A}
5b883434ac1a4504bfa138ea{09}Display{0A}
5b883434ac1a4504bfa138ec{09}Projector_On{0A}
5b883d6cac1a456389129d7b{09}Open_Room{0A}
5b883d6cac1a456389129d7d{09}Close_Room{0A}
5ba28b2cac1a457380894f4e{09}Wakey_Wakey{0A}
END MACRO LIST{0A}{0D}
```

MACRO RUN

Runs the specified macro.

Syntax

```
MACRO RUN X
```

Parameter	Description	Range
X	Value	Macro ID or Macro Name

Example

```
MACRO RUN 5ba28b2cac1a457380894f4e{0D}
MACRO RUN Wakey_Wakey{0D}
```

Feedback

```
MACRO RUN 5ba28b2cac1a457380894f4e{0A}
END MACRO RUN 5ba28b2cac1a457380894f4e{0A}{0D}

MACRO RUN Wakey_Wakey{0A}
END MACRO RUN Wakey_Wakey{0A}{0D}
```

VIDEOWALL LIST

Displays all the video walls within Velocity sites.

Syntax

```
VIDEOWALL LIST
```

This command does not require any parameters.

Example

```
VIDEOWALL LIST{0D}
```

Feedback

```
VIDEOWALL LIST{0A}
{Video Wall ID}{09}{Video Wall Alias}{09}{Room ID}{09}{Building ID}{09}{Site ID}{0A}
...
END VIDEOWALL LIST{0A}{0D}

VIDEOWALL LIST{0A}
5baa3c94ac1a456e576aadb7{09}Velocity Video Wall{09}5b8834f7ac1a4504bfa13abf{09}
5b8834f7ac1a4504bfa13ab9{09}5b8834f7ac1a4504bfa13ab8{0A}
5baa5134ac1a456e576aafa2{09}BarWall{09}5baa5110ac1a456e576aaf67{09}
5baa408cac1a456e576aadf9{09}5b8834f7ac1a4504bfa13ab8{0A}
END VIDEOWALL LIST{0A}{0D}
```

VIDEOWALL PRESETS LIST

Displays all the video wall presets within all the video walls.

Syntax

```
VIDEOWALL PRESETS LIST
```

This command does not require any parameters.

Example

```
VIDEOWALL PRESETS LIST{0D}
```

Feedback

```
VIDEOWALL PRESETS LIST{0A}
{Index #}{09}{Preset Name}{09}{VideoWall ID}{09}{Room ID}{09}{Building ID}{09}{Site ID}{0A}
...
END VIDEOWALL PRESETS LIST{0A}{0D}

VIDEOWALL PRESETS LIST{0A}
0{09}4x4{09}5baa3c94ac1a456e576aadb7{09}5b8834f7ac1a4504bfa13abf{09}
5b8834f7ac1a4504bfa13ab9{09}5b8834f7ac1a4504bfa13ab8{0A}
1{09}1x2{09}5baa3c94ac1a456e576aadb7{09}5b8834f7ac1a4504bfa13abf{09}
5b8834f7ac1a4504bfa13ab9{09}5b8834f7ac1a4504bfa13ab8{0A}
0{09}2x2x2{09}5baa5134ac1a456e576aafa2{09}5baa5110ac1a456e576aaf67{09}
5baa408cac1a456e576aadf9{09}5b8834f7ac1a4504bfa13ab8{0A}
1{09}4x2{09}5baa5134ac1a456e576aafa2{09}5baa5110ac1a456e576aaf67{09}
5baa408cac1a456e576aadf9{09}5b8834f7ac1a4504bfa13ab8{0A}
END VIDEOWALL PRESETS LIST{0A}{0D}
```

VIDEOWALL RUN

Runs the specified video wall preset.

Syntax

```
VIDEOWALL RUN X Y
```

Parameter	Description	Range
X	Value	Video Wall ID
Y	Value	Index #

Example

```
VIDEOWALL RUN 5baa3c94ac1a456e576aadb7 0{0D}
VIDEOWALL RUN 5baa5134ac1a456e576aafa2 1{0D}
```

Feedback

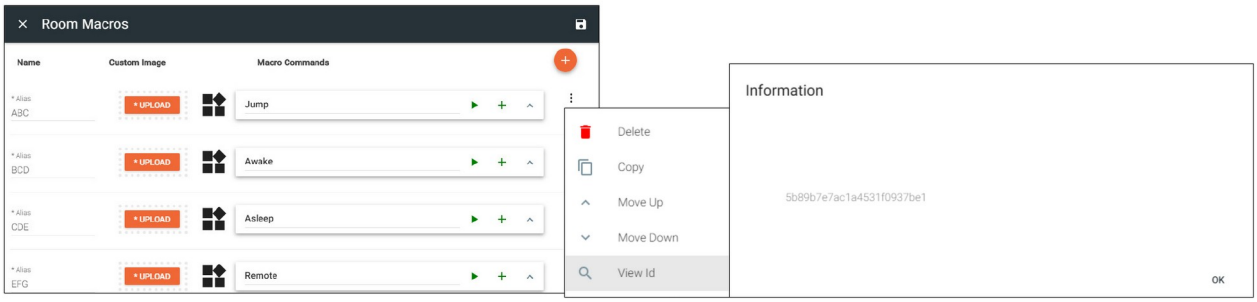
```
VIDEOWALL RUN 5baa3c94ac1a456e576aadb7 0{0A}
END VIDEOWALL RUN 5baa3c94ac1a456e576aadb7 0{0A}{0D}

VIDEOWALL RUN 5baa5134ac1a456e576aafa2 1{0A}
END VIDEOWALL RUN 5baa5134ac1a456e576aafa2 1{0A}{0D}
```

Macros & Video Walls

The basic instructions to set up Macros and Video Walls are included here. For the full Velocity setup instructions, see the Velocity Gateway Instructions for Use at hallresearch.com/product/AT-VGW-HW-T1.

Macros



Macro instructions:

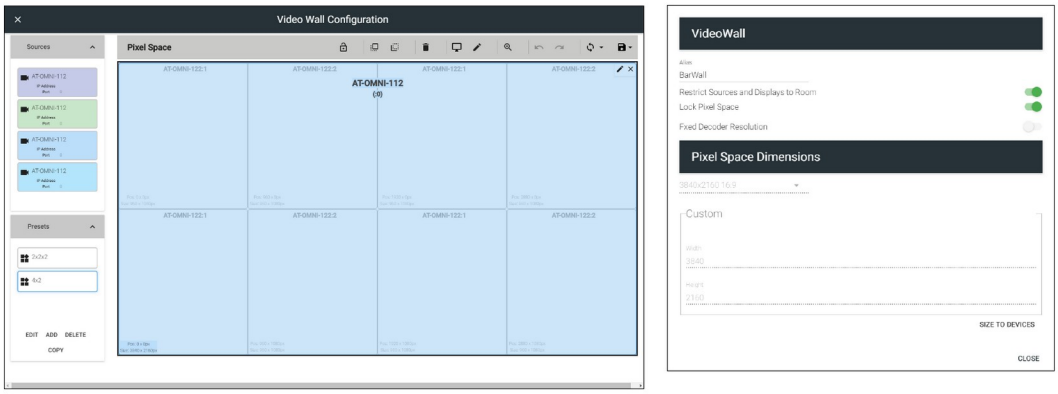
- Open Room Settings.
- Select the Macros button. A new screen will slide open.
- Use the orange + button on the top right to add a macro.
- Provide an Alias (with no spaces, a _ can be used in place of spaces) for each macro. This name will be what shows in the MACRO LIST command.

IMPORTANT: Each alias given to a macro should be completely unique in Velocity as this name will provide a way to differentiate between each macro shown in the macro list.

The macro IDs can be viewed within Velocity for quick reference:

- Press the : icon next to the macro command.
- Select the View Id from the drop down list. A new pop up will appear with the individual macro ID.

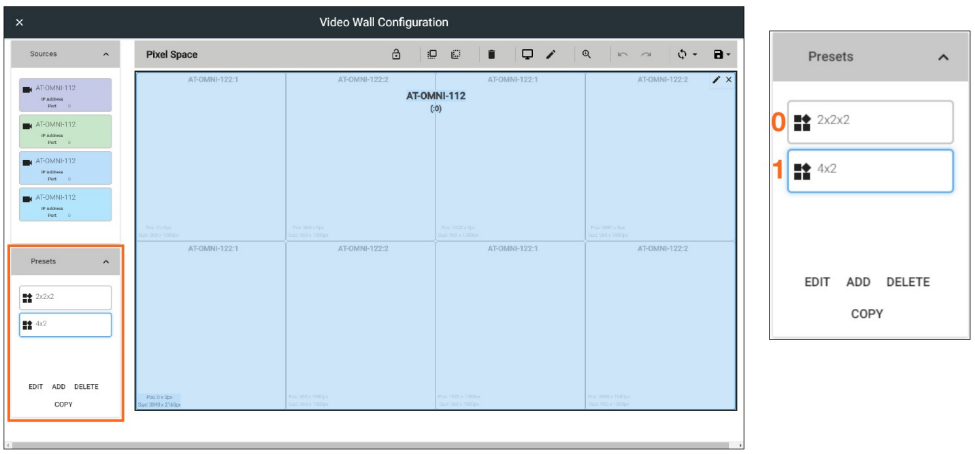
Video Walls



Video Wall instructions:

- Open the Room Technology page.
- Select the + button. A new screen will slide open.
- Add and set up the OmniStream encoders and decoders to the room.
- Select the + button again. Either search for Video Wall within the top search field or select Velocity Video Wall from Atlona within the Miscellaneous section within the technology catalog.
- Select the Edit button in the video wall box. The Video Wall Configuration screen will open.
- Provide an alias for the video wall for a way to differentiate between multiple video walls when using the VIDEOWALL LIST command.

IMPORTANT: Each alias given to a video wall should be completely unique in Velocity as this name will provide a way to differentiate between each video wall shown in the video wall list.



NOTE: Presets will be indexed in the order they are created, starting with 0. In the picture the first preset (named 2x2x2) will be index number 0.

- Set up the Presets for each configuration needed for the selected video wall, providing a unique name for each preset to avoid confusion when using the VIDEOWALL PRESETS LIST command.