



velocityTM

by Atlona

Application Programming Interface

Version Information

Version	Release Date	Notes
1	10/18	Initial release

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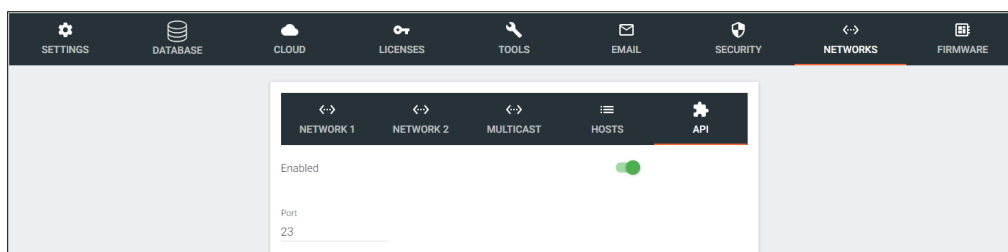
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Getting Started

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

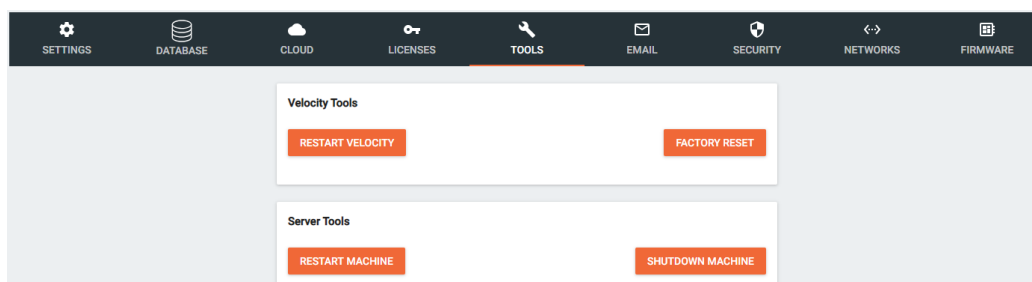
Basic Setup

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.

e.g. Feedback: {Building ID}{09}{Building Name}{09}{Site ID} will actually denote
 {Building ID} {Building Name} {Site ID}

- If a feedback example shows multiple lines, each drop in line denotes a line feed **{0A}**.

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

would appear as:

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

Commands

The following table provides an alphabetical list of commands available on Velocity. The commands break down will appear in the order of best use.

Command	Description
BUILDING LIST	Displays buildings within Velocity sites
MACRO LIST	Displays all macros within Velocity
MACRO RUN	Will run the specified macro
ROOM LIST	Displays rooms within Velocity sites
SITE LIST	Displays sites within Velocity
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

- Every command will be terminated with a carriage return {0D}.
- Every feedback will be terminated with a carriage return {0D} and line feed {0A}.
- In the feedback, {09} denotes the tab delimiter between parameters.

SITE LIST

Displays sites within Velocity.

Syntax

SITE LIST

Example

SITE LIST{0D}

Feedback

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

SITE LIST{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}
```

- Every command will be terminated with a carriage return {0D}.
- Every feedback will be terminated with a carriage return {0D} and line feed {0A}.
- In the feedback, {09} denotes the tab delimiter between parameters.

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}

Feedback

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

BUILDING LIST{0D}

BUILDING LIST{0A}
 5b8834f7ac1a4504bfa13ab9{09}Building 1{09}5b8834f7ac
 1a4504bfa13ab8{0A}
 2c4734f7ac1a4504bfa12ab7{09}Building 1{09}2c3599f7ac
 1b4601bfa02ab1{0A}
 END BUILDING LIST{0A}{0D}

BUILDING LIST 5b8834f7ac1a4504bfa13ab8{0D}

BUILDING LIST 5b8834f7ac1a4504bfa13ab8{0A}
 5b8834f7ac1a4504bfa13ab9{09}Building 1{09}5b8834f7ac
 1a4504bfa13ab8{0A}
 END BUILDING LIST 5b8834f7ac1a4504bfa13ab8{0A}{0D}

- Every command will be terminated with a carriage return {0D}.
- Every feedback will be terminated with a carriage return {0D} and line feed {0A}.
- In the feedback, {09} denotes the tab delimiter between parameters.

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}

Feedback

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

ROOM LIST{0D}

```
ROOM LIST{0A}
5b8834f7ac1a4504bfa13abf{09}Large Conference Room{
09}5b8834f7ac1a4504bfa13ab9{09}5b8834f7ac1a4504bf
a13ab8{0A}
5b8837cbac1a4504bfa13b43{09}New Room{09}5b8834f7
ac1a4504bfa13ab9{09}5b8834f7ac1a4504bfa13ab8{0A}
5b883d6cac1a456389129d71{09}BBBB{09}5b8834f7ac1a
4504bfa13ab9{09}5b8834f7ac1a4504bfa13ab8{0A}
5baa408dac1a456e576aadff{09}Entry Way{09}5baa408ca
c1a456e576aadf9{09}5b8834f7ac1a4504bfa13ab8{0A}
END ROOM LIST{0A}{0D}
```

ROOM LIST 5b8834f7ac1a4504bfa13ab8{0D}

```
ROOM LIST 5b8834f7ac1a4504bfa13ab8{0A}
5b8834f7ac1a4504bfa13abf{09}Large Conference Room{
09}5b8834f7ac1a4504bfa13ab9{09}5b8834f7ac1a4504bf
a13ab8{0A}
5b8837cbac1a4504bfa13b43{09}New Room{09}5b8834f7
ac1a4504bfa13ab9{09}5b8834f7ac1a4504bfa13ab8{0A}
5b883d6cac1a456389129d71{09}BBBB{09}5b8834f7ac1a
4504bfa13ab9{09}5b8834f7ac1a4504bfa13ab8{0A}
END ROOM LIST 5b8834f7ac1a4504bfa13ab8{0A}{0D}
```

- Every command will be terminated with a carriage return {0D}.
- Every feedback will be terminated with a carriage return {0D} and line feed {0A}.
- In the feedback, {09} denotes the tab delimiter between parameters.

MACRO LIST

Displays all macros within Velocity.

Syntax

MACRO LIST

Example

MACRO LIST{0D}

MACRO LIST{0D}

Feedback

MACRO LIST{0A}
 {Macro ID}{09}{Macro Name}{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}
 5b883d6cac1a456389129d7f{09}Just_Push_Play{0A}
 5b883d6cac1a456389129d81{09}Netflix{0A}
 5ba12bc2ac1a4573808939b5{09}Jump{0A}
 5ba2618fac1a457380894bc1{09}Wake_Up{0A}
 5ba266f0ac1a457380894c61{09}Sleep{0A}
 5ba26ae2ac1a457380894ca7{09}Awake{0A}
 5ba26b70ac1a457380894cb2{09}Asleep{0A}
 5ba26b90ac1a457380894cba{09}Play{0A}
 5ba2702eac1a457380894d43{09}Close_Room{0A}
 5ba28b2cac1a457380894f4e{09}Wakey_Wakey{0A}
 5ba28c5dac1a457380894f61{09}Drop{0A}
 5ba3d901ac1a452a916e3764{09}Remote{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}

- Every command will be terminated with a carriage return {0D}.
- Every feedback will be terminated with a carriage return {0D} and line feed {0A}.
- In the feedback, {09} denotes the tab delimiter between parameters.

VIDEOWALL LIST

Displays all the video walls within Velocity sites.

Syntax

```
VIDEOWALL LIST
```

Example

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

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

Feedback

```
VIDEOWALL LIST{0A}
{Video Wall ID}{09}{Video Wall Alias}{09}{Room ID}{09}
{Building ID}{09}{Site ID}{0A}
{Video Wall ID}{09}{Video Wall Alias}{09}{Room ID}{09}
{Building ID}{09}{Site ID}{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}5
b8834f7ac1a4504bfa13abf{09}5b8834f7ac1a4504bfa13ab
9{09}5b8834f7ac1a4504bfa13ab8{0A}
5baa5134ac1a456e576aafa2{09}BarWall{09}5baa5110ac1
a456e576aaf67{09}5baa408cac1a456e576aadf9{09}5b88
34f7ac1a4504bfa13ab8{0A}
END VIDEOWALL LIST{0A}{0D}
```

- Every command will be terminated with a carriage return {0D}.
- Every feedback will be terminated with a carriage return {0D} and line feed {0A}.
- In the feedback, {09} denotes the tab delimiter between parameters.

VIDEOWALL PRESETS LIST

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

Syntax

VIDEOWALL PRESETS LIST

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}
{Index #}{09}{Preset Name}{09}{VideoWall ID}{09}{Room
ID}{09}{Building ID}{09}{Site ID}{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{0D}

```
VIDEOWALL PRESETS LIST{0A}
0{09}4x4{09}5baa3c94ac1a456e576aadb7{09}5b8834f7ac
1a4504bfa13abf{09}5b8834f7ac1a4504bfa13ab9{09}5b88
34f7ac1a4504bfa13ab8{0A}
1{09}1x2{09}5baa3c94ac1a456e576aadb7{09}5b8834f7ac
1a4504bfa13abf{09}5b8834f7ac1a4504bfa13ab9{09}5b88
34f7ac1a4504bfa13ab8{0A}
0{09}2x2x2{09}5baa5134ac1a456e576aafa2{09}5baa5110
ac1a456e576aaf67{09}5baa408cac1a456e576aadf9{09}5
b8834f7ac1a4504bfa13ab8{0A}
1{09}4x2{09}5baa5134ac1a456e576aafa2{09}5baa5110ac
1a456e576aaf67{09}5baa408cac1a456e576aadf9{09}5b8
834f7ac1a4504bfa13ab8{0A}
END VIDEOWALL PRESETS LIST{0A}{0D}
```

- Every command will be terminated with a carriage return {0D}.
- Every feedback will be terminated with a carriage return {0D} and line feed {0A}.
- In the feedback, {09} denotes the tab delimiter between parameters.

VIDEOWALL RUN

Runs the specified macro.

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

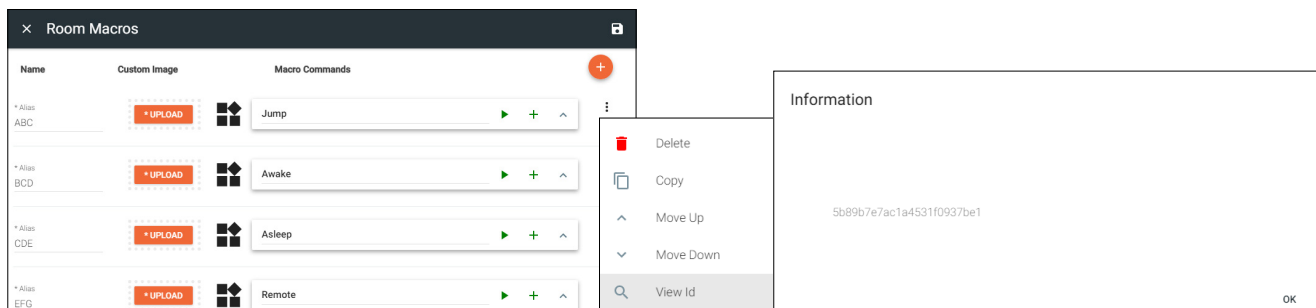
VIDEOWALL RUN 5baa3c94ac1a456e576aadb7 0{0A}
END VIDEOWALL RUN 5baa3c94ac1a456e576aadb7
0{0A}{0D}

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 have been included, to view full instructions on Velocity setup, download the user manual from <https://atlona.com/product/vsg/> or <https://atlona.com/product/at-vgw-250/>.

Macros



Macro instructions:

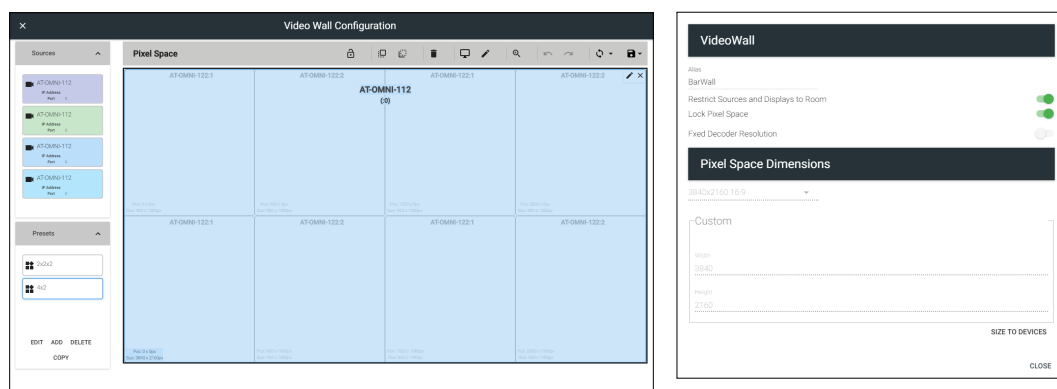
- ◇ Open **Room Settings**.
- ◇ Select the **Macros** button. A new screen will slide open.
- ◇ Use the orange + button on the top right to add a macro.
- ◇ Provide an Alias (*with no spaces, a _ can be used in place of spaces*) for each macro. This name will be what shows in the **MACRO LIST** command.

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.

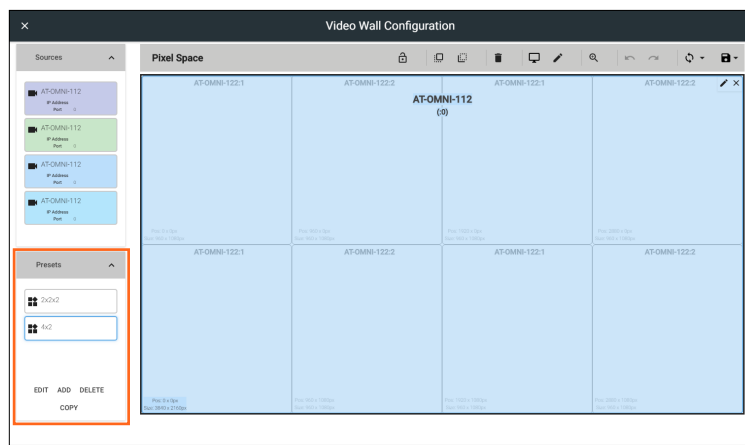
Video Walls



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.

Video Wall instructions:

- ◇ 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.

