Velocity™ Tools

Custom Control UI Setup Guide

Setup Guide

Version 1.0

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Version Information

This section lists document revisions.

Version	Date	Notes
1	June 2018	Initial release
2	May 2020	Updated for Velocity FW version 2.1.0
HR 1.0	October 2026	Converted to the Hall Research document format. Support and web links changed to Hall Research.

Sales & Customer Support

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

Warranty

To view the product warranty, use the following link: https://hallresearch.com/warranty

Setup Guide

Velocity provides a Velocity Tools area within the software for the creation of custom web control interfaces. Log into the Velocity server to view and edit the tools.

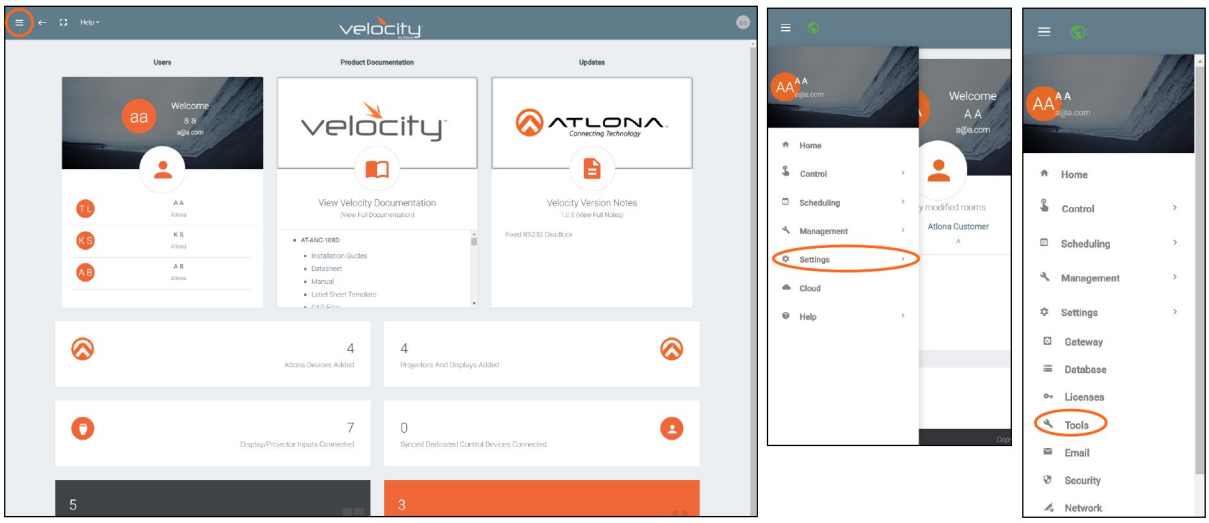
1. Open a browser on the local computer and inter in Velocity's IP address.

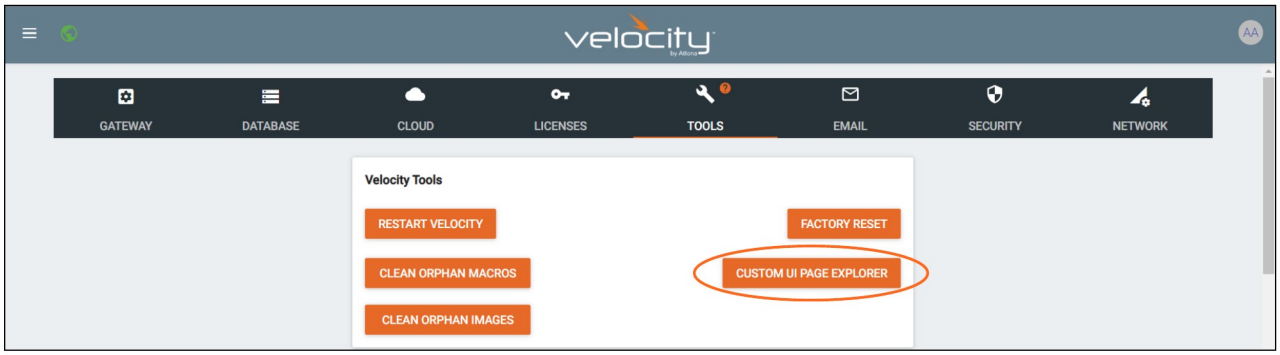


2. Log into Velocity

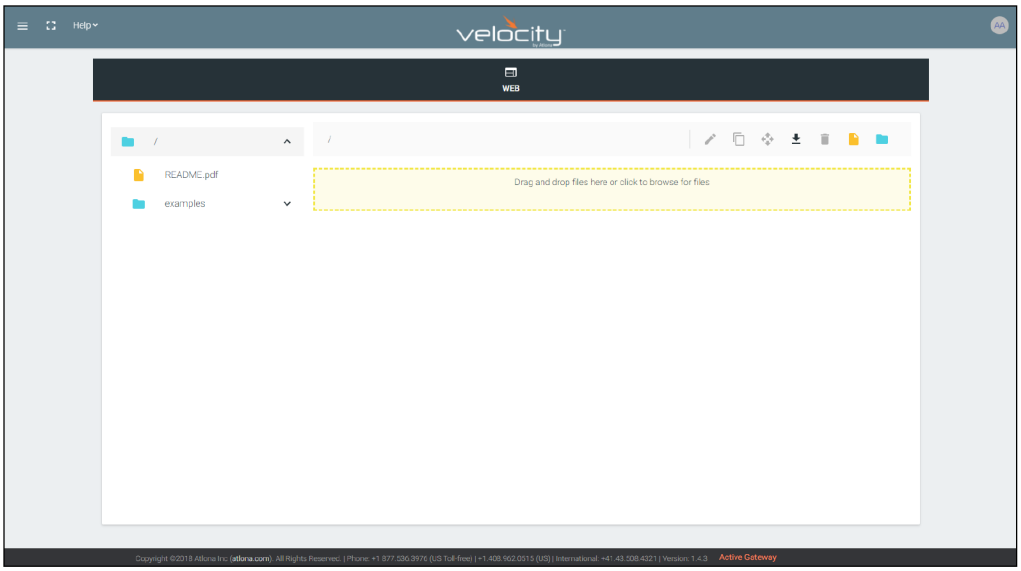


3. Locate the ≡ in the top left corner of the home page and left click to open the menu.
4. Select **Settings** from the menu. New options will appear.
5. Select **Tools**. A new screen will open.



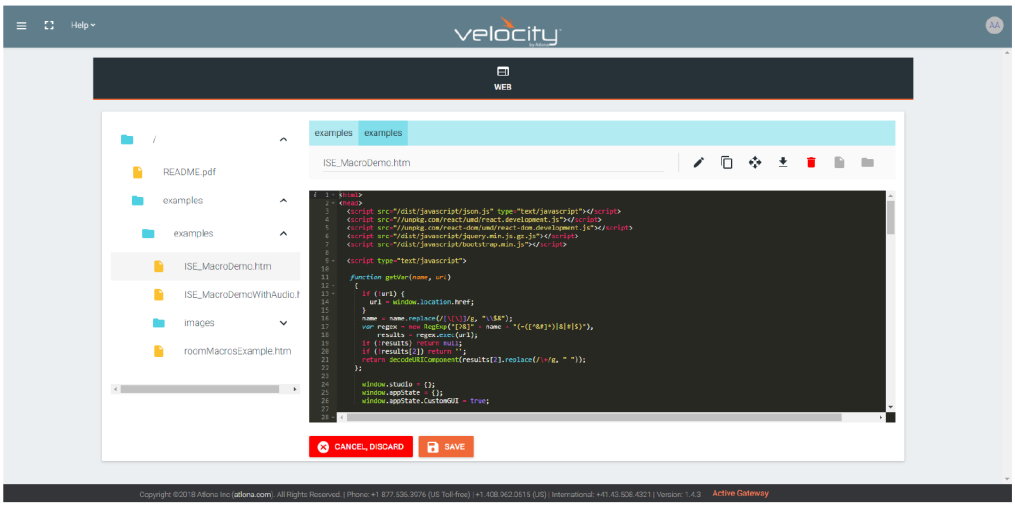


6. Select **CUSTOM UI PAGE EXPLORER**. A new screen will appear.



Examples have been provided to help with customization. Select the examples folder to open up a view of the sample code.

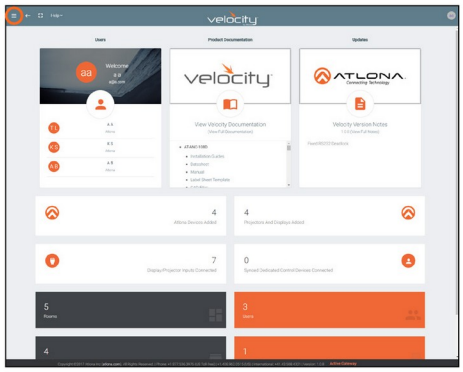
> **NOTE:** Atlona does not provide instructions for coding. The files will use HTML, CSS, and JavaScript. If these languages are unknown, please do not try adjusting them.

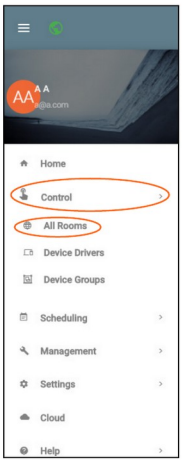


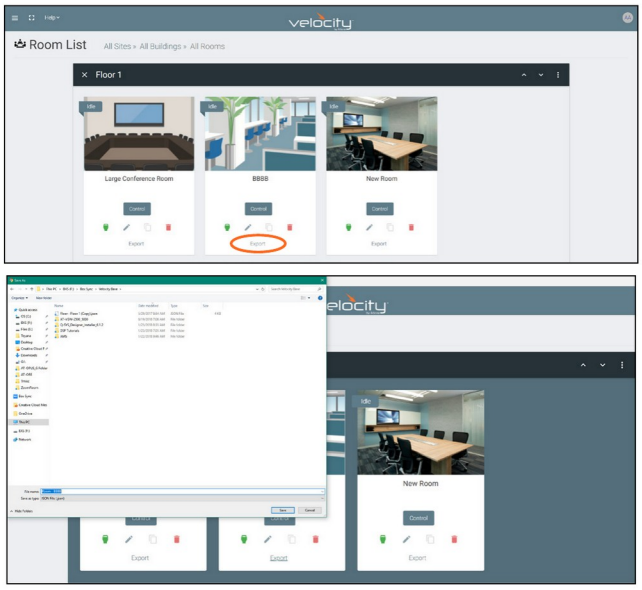
Room Linking

The new custom web control look must be associated to a room before it will be come visible. Before linking a room, it must be exported. This will provide a back up in case the room needs to be reverted back to the original Velocity UI or switched to another custom UI.

1. Locate the ≡ in the top left corner of the home page and left click to open the menu.
2. Select **Control** from the menu.
3. Select **All Rooms** from the menu. A new screen will appear.
4. Select **Export** on the room the new control GUI will be used in.
5. Save the room in an easy to find spot on the local PC for later use.

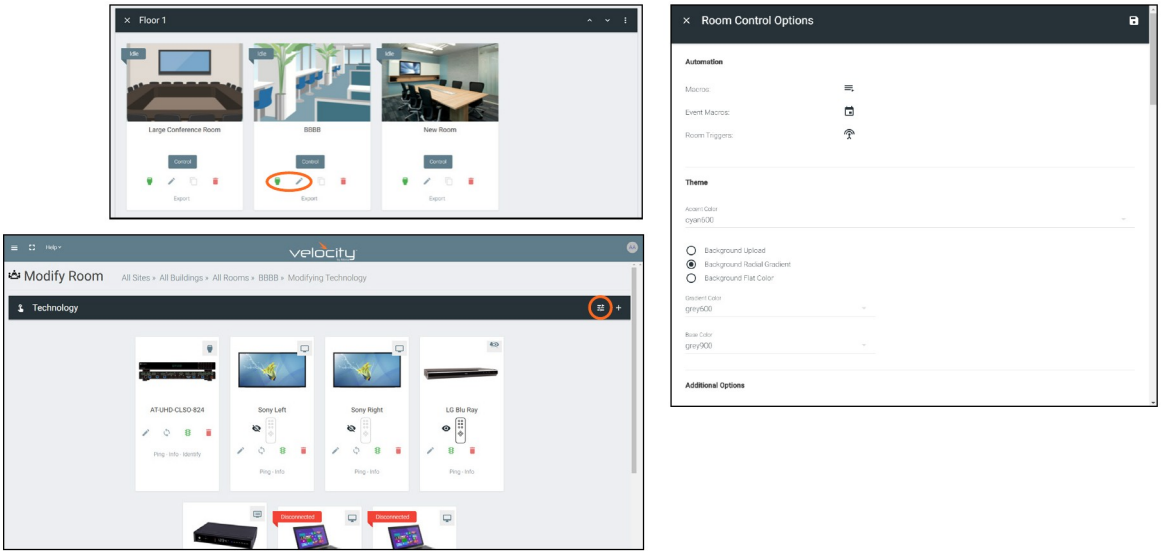




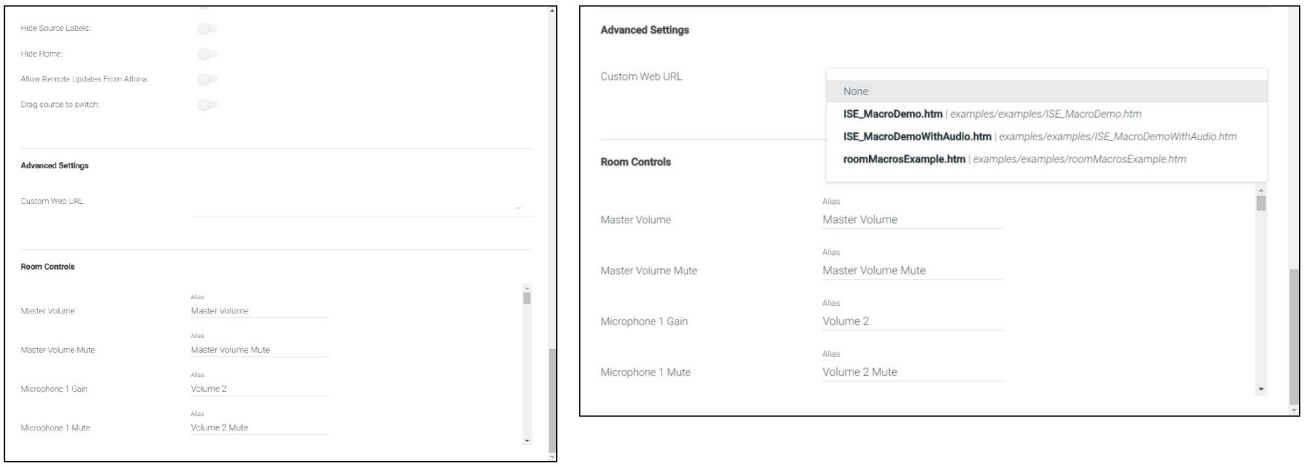


5. Select the Room Controls Options button from the right side of the header bar inside the room controls. A new screen will appear on the left side of the screen.

NOTE: This can also be done from the Edit Room Details screen. Both selections will have the same options list.



6. Scroll down to the bottom of room controls to the Advanced Settings.
7. Select the custom URL file name from the drop down list to associate the new look to the room.



IMPORTANT: DO NOT **launch the control page UI until the correct UI has been selected from the drop down list. Once a UI has been launched, the room** MUST** be deleted before another UI can be selected or the room may become unstable.

8. Launch the control page to view the updated UI.

If another UI has been created or the room is to be reverted back to the original Velocity UI:

1. End any current conference calls or meetings.
2. Close the control UI, if opened.
3. Return to the buildings page.
4. Delete the room.
5. Import the previously saved copy of the room. The room will have the original Velocity UI selected. If loading a new UI, follow the steps for selecting the UI and launch the control page again to view.

API

This sections will provide strings and commands needed for coding a new UI.

Room Inputs

When overriding the default Velocity template the http traffic will redirect to the new file and pass the following url parameters.

roomId: string representing the room you are controlling. version: string representing the current version of Velocity.

These parameters can be in javascript to perform queries by the room and also use the Velocity js library in the new UI application.

POST

All API requests are routed through a single URI POST Request at the following URI:

http://{host}/api?path=API

The POST must be of **contentType: application/json** The body must contain the following json keys:

action: string Represents the function call in the Velocity API state: object Represents the parameters to the function call.

The response will return the following keys:

Redirect: string Internal Velocity Key to redirect http traffic. GlobalMessage: string Message explaining the success, warning, or error. GlobalMessageType: string Constant for success, warning, or error. TransactionId: string An Id for tracking and undoing transactions. Trace: string Stack trace for errors. State: string A JSON encoded string representing the results of an API request.

For the most part GlobalMessageType and State fields will be used.

The differnet types of GlobalMessageTypes are the following:

“” The request was performed successfully. “Warning” The request was performed successfully but indicates a warning. “Error” The request failed and the GlobalMessage and Trace should be analyzed and handled.

To parse the State (Results) use the built in J **SON.parse({string}) function** in javascript. Example:

var results = JSON.parse(response.State);

Get Room Macros

Command:

action: GetRoomMacros state :

RoomId: string

JSON example:

{ action: “GetRoomMacros”, state: {RoomId: “59f0b387ac1a451743c21f6d”}}

State Response:

Errors: {ErrorMessage: string, HasError: bool, ErrorCode: number} RoomId: string Macros: [{MacroId: string, Name: string, Type: string }]

State Response JSON example:

Errors: {ErrorMessage: “”, HasError: false, ErrorCode:0}, RoomId: “59f0b387ac1a451743c21f6d”, Macros: [{MacroId: “59f0b3f2ac1a451743c21fc4”, Name: “Macro 1”, Type:”Macro”}]

Execute Macros

Command:

action: ExecuteMacro state :

MacroId: string

JSON example:

{ action: “ExecuteMacro”, state: {MacroId: “59f0b3f2ac1a451743c21fc4”}}

State Response:

Errors: {ErrorMessage: string, HasError: bool, ErrorCode: number} MacroId: string

State Response JSON example:

Errors: {ErrorMessage: “”, HasError: false, ErrorCode:0}, MacroId: “59f0b3f2ac1a451743c21fc4”

Velocity Javascript Library SDK

To get started and make things easier the Velocity javascript library is available for use in the new UI. The file is located at:

http://{host}/dist/javascript/velocity-{version}.js

SDK Functions:

window.api.post Parameter: object

controller: string Default to “API” action: string state: object callback: func Returns response object

Response:

State: object GlobalMessage: string Trace: string GlobalMessageType: string TransactionId: string

Response:

window.api.post({controller:”API”, action: “ExecuteMacro”, state: {MacroId: “59f0b3f2 ac1a451743c21fc4”}, callback: function(data, message, trace, messageType) {alert(“Macro executed “ + data.MacroId); }});

Room Macros Example

Velocity provides an example of how to load the Velocity javascript js file and interact with the API commands using the Velocity SDK. Link the room to the file located at /examples/roomMacrosExample.htm then open the control page. For the example to work, the browser will need internet access because it will pull from a CDN server for a few react libraries.

> **NOTE:** In order to use the Velocity javascript library the library will load at runtime using the **jQuery$.getScript function** because of the version. Load the DOM elements on the successful callback and NOT onload of the page.

The version can also be hardcoded in the tradition js fetch & call and then updated on any firmware updates from Atlona for Velocity.