RELEASE NOTES

Crestron HTML5 User Interface (CH5)

Version 2.8.0

Product or Content Description

Crestron® HTML5 User Interface is a project for creating a JavaScript® programming library that is compatible with HTML5. This library allows web application developers to create UI projects that communicate to Crestron control systems instead of normal HTTP servers.

Notes and Recommendations

As of Version 2.5.0, the mobility license is no longer required when using a Web Xpanel CH5 projects with Crestron control systems.

A mobility license is still required when using a CH5 project with the Crestron One App. The next Crestron One App update will remove the mobility license check.

Please update existing projects to CH5 Version 2.5.0 or later to take advantage of this change.

In order for the video component to work properly on your touch panel, the x60, x70 and TST-1080 touch panels must use the following firmware version:

- TST-1080: 1.001.0061 or later.
- x70 Series: 2.004.0032 or later.
- X60 Series: 3.003.xxxx or later.

System Requirements and Dependencies

https://sdkcon78221.crestron.com/sdk/Crestron_HTML5UI/Content/Topics/QS-System-Requirements.htm

Operational Installation/Upgrade Instructions

https://sdkcon78221.crestron.com/sdk/Crestron_HTML5UI/Content/Topics/QS-Installation.htm

Version History

Version	Date
CH5 Release 2.8.0	**January 8th, 2024**

Changes since Last Version

New Features

- **Web Xpanel Auth Token Support**
  - Added support for passing an authorization token as part of the Web Xpanel URL.
  - To generate the web socket token, issue the follow command using a text console to the control system: “websockettoken generate”.
  - To use the web socket token with a CH5 Web Xpanel project, append the URL with this parameter: “?authToken=”.
  - The initial release officially supports 4-Series and VC-4-PC-3 control systems.

- **CH5 Keypad Updates**
  - Added support for hiding the miscellaneous buttons individually using digital joins.

- **CH5 D-Pad Update**
  - Added support for hiding the center button using a digital join.

- **CH5 Toggle Updates**
  - Added support for CSS styling.
  - Added support for custom sizing.
  - Added support for standard sizing values: Regular, X-Small, Small, Large and X-Large.

- **CH5 Text Input Updates**
  - Addes support for Fill Color, Border Color and Border Thickness.

- **Shell Template Updates**
  - Added support for a diagnostic window that can be used with widgets and pages.
  - Added support for changing themes during runtime using a serial join.

Bug fixes

- Fixed issue on CH5 Ranged Slider where tick values no longer in range throw an uncaught exception.
- Fixed issue where CH5 Text Input error icons were not rendering properly.
- Fixed issue where CH5 Text Input in the disabled state would still allow a focus event to be sent to the control system.
- Fixed issue where CH5 WiFi Siganal gauge was not getting added to a modal dialog/overlay panel when noshowtype is removed after a program start.
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Known Issues

- **Zoom ZRC**
  - When the Zoom Room application switches between idle and in-meeting states, users must “swipe down” to refresh the Ch5 Web Xpanel project in order to load the appropriate CH5 resolution breakpoint. This is a known issue with the Zoom Room application and will be fixed by Zoom at a later date.
  - The button style “text” has a fill color that does not work well with the default text color. UI Designers should override the default text color using custom CSS when using the button style “text”.
  - When using a Poly TC-10 and leaving the CH5 Web Xpanel project open for long periods of time (4+ days), the project may disappear requiring the page to be closed and re-opened.
- **CH5 Video**
  - Only one active video stream per page is supported.
  - Using the component inside the modal dialog or overlay panel is not recommended.
  - Must use the stretch attribute when the component is used under a parent div.
  - Video may stop and restart when vertical scrolling is occurring on the touch panel.
  - Transitioning the video to full screen using a page flip is not smooth.
  - Runtime resizing of the component is not supported.
  - 2N door station video does not work during call progression.
  - Switching the input source to an invalid type (HDMI or DM) will cause the component to stop working and require a project restart.
  - Camera snapshots requiring authentication do not work with the CH5 Image component.

- **CH5 Advanced Slider**
  - Dealer may observe previously pressed upper/lower join is getting triggered for first time when on/off button is clicked (CH5C-6192).
  - Dealer may observe slider is ramping to 100% when repeated taps are carried out on upper join and vice versa (CH5C-6190). *Dealers are not recommended to use advanced slider on iOS device*

Version Date

CH5 Release 2.7.0 **December 4th, 2023**

Changes since Last Version

New Features

- **Zoom ZRC Support**
  - Added support for CH5 Web Xpanel projects to be rendered within the Zoom Room application.
  - Please use this guide for information on setting up the Zoom Room environment: https://docs.crestron.com/en-us/9421/Content/Topics/Home.htm.
  - The initial release officially supports TS-1070, Mercury Mini (UC-2), Poly TC-10 used with 4-Series and VC-4-PC-3 control systems.
  - Zoom Room Version must be 5.16.1 or higher.

    - Zoom Room Controller Version must be 5.16.0 or higher.
    - Please see the Known Issues list below.

Bug fixes

- Fixed issue where projects compiled using CH5 2.5 or lower without Node 20.x were failing on compile.
    - This patch locks the versions for CH5 to address future node upgrades by removing the carat (^) symbol that proceeds the version number value for the following components: @crestron/ch5-crcomlib, @crestron/ch5-theme, @crestron/ch5-webxpanel, and @crestron/ch5-shell-utilities-cli.

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Version	Date
CH5 Release 2.6.1	**October 26th, 2023**

Changes since Last Version

New Features

- **None**

Bug fixes

- Fixed issue where projects compiled using CH5 2.5 or lower without Node 20.x were failing on compile.
    - This patch locks the versions for CH5 to address future node upgrades by removing the carat (^) symbol that proceeds the version number value for the following components: @crestron/ch5-crcomlib, @crestron/ch5-theme, @crestron/ch5-webxpanel, and @crestron/ch5-shell-utilities-cli.

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Version Date

CH5 Release 2.6.0 **October 22nd, 2023**

Changes since Last Version

New Features

- **NodeJS & NPM Version Update**: The version of NPM & NodeJS used with the Shell Template has been updated from NPM v8.10.0 / NodeJS v16.130 to NPM v9.7.2 / NodeJS v20.4.0.

- **CH5 Text Input:** Added support for digital join on enter or escape press.

- **CH5 List:** Added support to disable scrollbar when endless list is true.

- **JS CSS Cache**: Udpated CH5 CSS and Javascript so that files are not cached in the browser when changes are made to the CH5 library.

Bug fixes

- Fixed issue where jointotext-numeric offset values were not being considered in widgets at runtime.
- Fixed issue where CH5 List endless = “false” was not working correctly.
- Fixed issue where centering was not happening in a widget list.
- Fixed issue where “ch5-shell-cli create:project” was allowing upper and mixed case characters where only lower case is supposed to be allowed.
- Fixed issue where VS Code extension was not throwing an error if you provided a size >40 for a CH5 Spinner.
- Fixed issue where CH5 Text Input used as Right-To-Left was not providing enough padding for the icon.
- Fixed issue where VS Code extension was not throwing an error when unsupported attributes were used on the CH5 Template.
- Fixed issue where VS Code extension was not throwing an error when size for CH5 Select was >30.

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Version	Date
CH5 Release 2.5.0	**September 1st, 2023**

Changes since Last Version

New Features

- **Mobility License Check Removal**: The CH5 library has removed the check for a mobility license in the control system.

- **CH5 Date/Time:** Added support for a Date/Time component.

- **CH5 Formatted Text:** Added support for a Formatted Text component.

- **CH5 Button List**: Added support for setting the selected item using an analog value.

- **CH5 Tab Button**: Added support for setting the selected item using an analog value.

Bug fixes

- Fixed issue where CH5 Toggle label was not supporting language translations.

Known Issues

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Version	Date
CH5 Release 2.4.1	**July 31st, 2023**

Changes since Last Version

New Features

- **CH5 Video**: Existing CH5 video component has been improved and refined.
    - Supported RTSP protocols: H.264, H.265, MJPEG
    - HTTP/HTTPS video streams are not supported.

- **CH5 Advanced Slider Enhancements:** The advanced slider has been enhanced to support the following properties: Type, Shade, IconUrlFillType, Alignment, Selected, Pressed.

- **CH5 Buttons List and Tab Button Enhancements:** The button list and tab button has been enhanced to support the following properties: IconUrlFillType

Bug fixes

- Fixed various video component stability issues.

Known Issues

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Version	Date
CH5 Release 2.4.0	**June 28th, 2023**

Changes since Last Version

New Features

- **CH5 Advanced Slider**: Existing CH5 Slider is now enhanced with new HTML child elements to support Advanced Slider features. If custom css classes are written for ch5-slider, any project that is being upgraded to 2.4 version will require testing the UI. There have been many improvements in the UI for slider to make it uniform and cleaner.

- **CH5 Button List and Subpage Reference List loaditems attribute:** This attribute allows for buttons to be created and loaded on demand. It will determine if buttons are removed or not after they are no longer in visibility.

Bug fixes

None

Known Issues

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