



## VisionTools® Pro-e v4.2

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### **I. VisionTools® Pro-e version history**

#### **version 4.2.18**

- Source List property for Video Objects is now sorted.
- Fixed Signed Feedback property not being copied correctly between different projects.

#### **version 4.2.17**

- Fixed Signed Feedback property not being saved for Crestron Mobile panels.
- Fixed Transparent flag property not being enabled for some panels that support it.
- Fixed problem when double-byte systems have fonts that use single-byte names.
- Fixed issue with support for TPMC panels' Multi-Language Pack where some font charsets were not being added in properly and/or language pack requirement was not being correctly flagged in compiler output.

#### **version 4.2.16**

- Fixed Crestron Mobile projects not supporting Signed Touch for Slider objects.
- Fixed Indicator Graphic not being compiled for Gauge and Slider objects on Crestron mobile panels.
- Fixed issue with Video objects not showing as available when panel supports Navigation.

#### **version 4.2.15**

- Added support for Digital Press Join to Slider object for Crestron Mobile panels.
- Added support for Digital Press Join to Video objects for TPMC panels.
- Added support for 16-level fonts to TPMC panels.
- Added project size calculation improvements when compiling for PTX3, TPMC-3X and MTX-3 panels.
- Added support for new pre-render project size calculation when compiling for TPMC-4SM/4SMD and TPMC-9/9L. This won't be enabled until the new firmware that supports it is released.
- Fixed problem with Video image when using a URL in Crestron Mobile projects.

- Fixed Crestron Mobile compiler problem with ‘&’ character in filenames.
- Restored Reserved Join Selection dropdown to Hard Button Manager with crash fixed.
- Fixed missing Video Source property for DVPHD projects.
- Fixed install/registration issue that was preventing projects from being loaded by double-clicking the .VTP files in explorer.
- Fixed crash when saving Crestron Mobile projects as AMS-AIP-OSD.
- Fixed help for TPS-12G-QM not going to the proper place in the help file.

#### **version 4.2.14**

- Fixed some issues with accuracy in the new size calculations used for TPMC-4SM, TPMC-4SMD and TPMC-9 panels.
- Temporarily removed Reserved Join Selection Dropdown list from the Hard Button Manager since it is causing crashes later on when OK button is clicked. This feature will be returned once the problem is resolved in a future version. For now, a Reserved Join needs to be entered manually by typing the join number into the Join field for the desired hard button.
- Added a compile warning message when Page Groups are used and page-level Hard Button settings are altered to turn off “Use Project-level Settings”.
- Fixed issue with multi-mode Image objects for APAD panel.
- Removed compiler warning about Firmware Language Pack being required.
- Added Graphic Fill Mode property to Gauge and Slider objects for Crestron Mobile panels.
- Fixed object sizing issue for Crestron Mobile G panels.

#### **version 4.2.13**

- Added ability to cache compiled font files in order to reduce the time it takes to compile a project. For most panels, once a non-built-in font is compiled it is stored in the cache and reused in any subsequent compiles for any project of that panel family. This should make repeated compiles significantly faster. Also added option to user interface for user to manually clear the font cache. If necessary, with the Active Project selected, select “Clear Font Cache” from the Edit menu.
- Added support for new Pad Area for DVPHD panels, “Absolute HID Mouse”.
- Added support for analog gauge objects (Gauge, Slider, Digital Gauge, Hex Gauge, Percent, Timer) to Crestron Mobile panels.
- Added support for Video object to Crestron Mobile Pro G panel.
- Added support for new compiled project size calculations for TPMC-4SM, TPMC-4SMD and TPMC-9 panels. These panels pre-render pages the first time they are displayed, thus requiring more run-time memory. Because of this and the fact that 32-bit graphics are now being correctly calculated, estimates for the maximum project size will be significantly larger than in the past.
- Fixed issue with default Text Style not being retrieved properly from database.
- Fixed SaveAs issue with Navigation support in Themes.
- Fixed issue with compiler not creating font file for certain TPMC panels that use Language Pack Firmware option. This was reported as a TPMC-4XG issue with a Russian font.
- Fixed possible crash when panel uses a default theme.
- Fixed possible lockup with some TPS-G panel projects when objects have multiple modes and use Text Fringe.
- Fixed incorrect properties being “synchronized” in Property Grid on TPMC-4X, TPMC-4SM and TPMC-9 panels.

**version 4.2.12**

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- Fixed issue with programmable property data containing too many parameters when sent to SystemBuilder. This caused problems when SystemBuilder would attempt to program some devices (i.e. APAD & SWAMP).
- Changed internal timestamp generated by compiler for Crestron Mobile projects to report in seconds instead of milliseconds. This should not affect user projects.

**version 4.2.11**

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- Fixed possible crash when compiling fonts for TPMC Language Pack support.
- Changed wording, and reversed meaning, of the “Don’t enforce firmware language pack requirement” Compile option. It is now “Assume Firmware Language Pack installed”, is checked/on by default, and has the opposite effect from previous versions. Previous projects will function correctly with this new setting.
- Fixed crash when attempting to drag & drop from within Hard Button Manager.
- Fixed issue when horizontal Line objects are placed off bottom of page.
- Fixed problem with APAD Scrolling List object not reporting that it supports Page Flips to SystemBuilder.

**version 4.2.10**

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- Fixed issue with D-Nav objects being saved with incorrect item counts, causing a project that couldn’t be loaded again.
- Fixed “Don’t enforce firmware Language Pack requirement” compile option so that setting it should make the compile similar to before the Language Pack was supported. This fix will require an updated Device Database.
- Fixed issue where Line object changes orientation after being selected with the mouse and/or positioned diagonally.
- Fixed issue where no warning was displayed about a Line object positioned off the bottom of the Page.
- XPanel: The PC-Exe Application Launcher was fixed so that correct window size is used at run-time. The new version of XPanel will be available after installing Device Database version 31.00 or later.

**version 4.2.09**

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- Fixed issue with built-in images for Crestron Mobile panels where file path information was retained with image name.
- Change Crestron Mobile compiler warning about page size being too large to an error and compile failure.
- Fixed incorrect fill mode being used for Page background image on Crestron Mobile panels.
- Added manifest file to install to get VTPro to run as administrator level. This is only really necessary for D-Nav right now. Continuing to work on a better solution.
- **Note:** Many new built-in graphics in the Crestron Mobile applications were added in the new versions now available in the Apple iTunes App Store. Some built-in graphics were also modified in these new versions. In order to properly see the built-in graphics, both at design-time and run-time, you will need the new Device Database (29.00.008 or later) and Crestron Mobile application (2.00.09.31 or later) as well as VTPro-e v4.2.09.02.

**If you use any of these newer versions but don't update the Crestron Mobile Application, you will be missing many graphics and it will not look good.**

#### version 4.2.08

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- Fixed issue with graphic fill mode being set incorrectly when “Keep Aspect Ratio on Rotations” is set.
- Fixed crash when attempting to display Property dialog for Image objects. This crash was caused by a change introduced in the previous version.
- Fixed crash when attempting to access a style for Image objects in the Theme Manager. This crash was caused by a change introduced in the previous version.
- Fixed “Open referring Pages” not working for Crestron Mobile built-in images.
- Fixed Property Grid not persisting “Use Project Settings” value.
- Added ability to hide certain built-in graphics. Used to maintain backwards compatibility.
- Fixed issue with Page Flip Effect not being initialized when using older database where Page Flip Effects aren't listed.

#### version 4.2.07

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- Fixed issue when setting additional outputs for DVPHD.
- Added “Keep Aspect Ratio on Rotations” property for graphic images used with Button, Image, and Animation objects on Crestron Mobile panels. This replaces Fill Mode Effect which was introduced with 4.2 and removed in the previous build.
- Added Transparent color support for Crestron Mobile panels.
- Added ability to distinguish between Subpages and Popup Windows when presenting Transition Effect Property values.
- Added run-time Debug support for Crestron Mobile panels.
- Fixed Duration property for Page Flip Transition Effect on Crestron Mobile panels.
- Fixed Property Grid not committing change to Page Flip Effect for Buttons on Crestron Mobile panel projects.
- Fixed crash on project load introduced around 4.2.04 build.
- Fixed crash when double-click on a Theme Style in Theme Manager.
- Changed Object Shape Style for objects to get initial default value from Device Database for new projects. This was initially always set to Radius-2 by default but some new panels are not going to support the Radius style.
- **Note:** Up until now, Text Style would always default to “Embossed” unless that was not supported on the specified panel. Many panels will soon default to “Anti-Aliased” for new projects or new objects drawn in existing projects. Existing objects in existing projects will not be affected.

#### version 4.2.06

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- Added SaveAs feature to save VTP project file as a previous version. Note: unsupported features/changes will be lost in the process.
- Fixed file name issues for Crestron Mobile panels when characters in file names need to be escaped for XML rules/formatting.
- Fixed problem where anchor properties were linked together in Property Grid.
- Fixed Navigation state with multi-mode objects.
- Fixed issue with setting anchor properties for multiply selected objects.

**version 4.2.05**

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- Fixed crash in Crestron Mobile project if it was originally created from an XPanel For Mac project using Save As.
- Fixed crash when no image is selected in the Additional Backgrounds window for Pages.
- Fixed Property Grid issues for new Crestron Mobile properties along with discrepancies between the Grid and the Object Properties dialog window.
- Fixed issues with Page Flip Effects for Crestron Mobile projects.
- Fixed “Use Project Settings” not being retained for Page Flip Effects in Crestron Mobile projects.
- Added support for updated List object for Crestron Mobile panels.

**version 4.2.04**

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- Added support for Image Fill Mode for Crestron Mobile panels.
- Added support for Object Anchoring for Crestron Mobile panels.
- Added Page Transition support for Crestron Mobile Pro panels.
- Added support for List object for Crestron Mobile panels.
- Added character set support for built-in fonts for TPMC panels that have new firmware that supports the Language Pack.

**version 4.1.11**

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- Fixed various issues with Copy & Paste for D-Nav objects, some of which caused crashes later on.
- Changed Help->Release Notes to display new HTML release notes file.
- Changed GetProjectCompiledFilename to report new location for XPanel-PC EXE targets to SystemBuilder, D3Pro, and Toolbox.

**version 4.1.10**

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- Added ability to preserve adjusted column sizes in Hard Button Manager.
- Fixed crashes in Hard Button Manager (See Known Bugs/Issues for information about a remaining issue).
- Fixed Compile Log window to support new 64-bit XPanel when double-clicking on output filename to open folder.
- Fixed issue where incorrect text was displayed at run-time in Video object for TPS-6X.
- Fixed text synchronization issues with Video objects on TPS-6X panels.

**version 4.1.09**

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- TPMC-V12 and TPMC-V15 panels only support rectangular objects and aliased text.

**version 4.1.08**

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- Fixed incorrect file being copied when compiling 64-bit version of XPanel.
- Fixed incorrect file extension on output file when compiling ADMS projects.
- Fixed compiled output file name not being reported to Toolbox correctly.
- Fixed crash in Hard Button Manager due to too really long button names exceeding internal buffer

size.

- Fixed possible crash in Hard Button Manager when accidentally using drag & drop within it even though it doesn't support that.
- Fixed possible crash in Hard Button Manager on close of window.
- Undid previous fix for copying Keyboard D-Nav object since it seems to cause problems for other objects. Will revisit later.
- Changed the way Object Shape properties are displayed so that they check to see if the shape is supported by that panel type.
- Fixed incorrect Grid size for pages when listed in Property Grid.
- Fixed Property Grid showing unsupported properties for Video inputs.

#### **version 4.1.07**

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- Various fixes for double-byte fonts and International support.
- Added compile options to control how non-western charsets are handled when fonts are generated.
- Fixed Page Size issue when using SaveAs.
- Added compile-time check for internal project info size in addition to the overall project size when compiling Crestron Mobile-type projects.
- Fixed possible crash in object Properties Dialog.
- Fixed memory leak in XPanel compiler.
- For ADMS projects, a Subpage Reference can now be marked as the default object for Navigation.

#### **version 4.1.03**

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- Fixed Font Manager not updating correctly when objects are deleted.
- Fixed issue in Font Manager when replacing symbol fonts.
- Corrected issues with object visibility for D-Nav items.
- Fixed some internal issues for 64-bit support in the new XPanel (v1.9.0.0).
- Fixed issue when importing TPMC-8X projects within D3 Pro.

#### **version 4.1.02**

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- Changes to support new XPanel (v1.9.0.0).
- Fixed problem with Template Data popup in Property Grid for Windows Vista.
- Fixed issue with Shadow text style.

#### **version 4.1.01**

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- Fixed various issues with four display outputs for DVPHD-CUSTOM\_GB.
- updated to include fixes from 4.0.17 & 4.0.18.
- new update to help file.

#### **version 4.1.00**

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- Added support to DVPHD-CUSTOM-GB for display outputs #3 & 4.
- Fixed crash after copy & paste and property changes in Property Grid for NavListHorizontal D-Nav object.
- Fixed Property Grid not respecting maximum Digital Join for panel type.

- Fixed Property Grid not correctly unloading properties after an Undo action.
- Fixed issue in Property Grid with setting RGB values.

#### **version 4.0.21**

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- Fixed image resources appearing to be lost or hidden for D-Nav objects when opening projects that were saved with versions prior to 4.0.20.
- Fixed possible crash in ML-500/600 projects when Pageflip lists become empty or cleared.
- Fixed possible crash when doing a SaveAs to the same name.
- Added support for Crestron Mobile G & Crestron Mobile Pro G panel types (Apple iPad).
- Fixed font sizing issue for Japanese projects.
- Fixed minor bug in Navigation support for ADMS project.
- Fixed installer not installing certain fonts for Windows Vista and Windows 7.
- Added Automation methods to get and set Dither in Theme properties for SystemBuilder and D3 Pro.

#### **version 4.0.20**

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- Fixed issues with duplicate System Bars and/or losing the "Show System Bar" setting when saving a TPMC-3X project as another type.
- Fixed problem when substituting Arial for unsupported fonts but Arial was not available on panel.
- Fixed loss of Default Object in projects for panels that support Navigation.
- Fixed initialization of Default Object focus for ADMS.
- Fixed various corruption and crash issues when using D-Nav objects.
- Fixed crash when using Click Assign Digital Join.
- Fixed missing Simulation Mode option in Compile properties.
- Fixed issues with Font Manager when replacing some symbol fonts.
- Fixed crash in Font Manager if attempting to open font referring page but that page was closed without saving some of the objects.
- Adjusted text size in Font Manager for high DPI screens.
- Fixed crash in Hard Button Manager after clicking Autojoin numerous times and the OK.
- Fixed Hard Button Manager allowing very large numbers to be entered as Joins.
- Changed Hard Button Manager so it will no longer show Pages marked as "Don't Compile".
- Fixed possible crash and project corruption when changing styles in a Template and/or Theme.
- Fixed Line objects not displaying warnings when off page.
- Fixed Effect property value showing as 0% instead of correct value.
- Fixed Synchronize icon not going away when Sync State is off.
- Fixed Template Data entry not working in Property Grid.
- Fixed Property Grid showing blank data when a D-Nav object is cloned.
- Fixed Property Grid not setting Compile status correctly when the Page is also the First Page.
- Fixed display issue with value sliders in Property Grid appearing too low or high.
- Fixed issue with background & transparent color properties missing for Popup Windows.
- Fixed Window Close button to correctly show as disabled when in Print Preview mode.
- Corrected misspelled button text in Navigation property dialog.
- Fixed issue with GetPanelType for D3 Pro.
- Fixed issue where a TPMC-3X project would be marked as modified after it was just loaded.
- Fixed issue when in SystemBuilder where Page Group Indicator was getting copied in even though

it isn't used in SystemBuilder projects.

- Fixed problem where SystemBuilder would think Dynamic Graphics were supported on a panel that didn't support that feature.
- Changed COM SetTheme call to return information when Theme file not found to SystemBuilder.
- Note: The internal naming for the ADMS was changed in a recent release of the Device Database. If a project is unable to be uploaded to the device because it is still using the older name, simply recompile the project in VTPro-e. The newly compiled .VTZ file should now be updated to use the new name.

#### **version 4.0.19**

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- Fixed missing sound file issue at compile-time with XPanel.
- Fixed Depth and Contrast values unexpectedly popping into other fields in Property Grid.
- Fixed issue when setting "Don't Compile" property in Property Grid.
- Fixed possible crash with Hardbutton Manager when using ST-1700C panel project.
- Fixed possible crash with Theme Resources when running within SystemBuilder.
- Fixed Font Manager reporting a font for Active State on a Slider even though that state doesn't exist.
- Fixed Copy/Paste selection issues with D-Nav objects.
- Fixed issue when a font is missing from system. Compiler should substitute for it.
- Fixed not reporting join assignment on Hard Buttons correctly to D3 Pro.
- Fixed crash after copy & paste and property changes in Property Grid for NavListHorizontal D-Nav object.
- Fixed Property Grid not respecting maximum Digital Join for panel type.
- Fixed Property Grid not correctly unloading properties after an Undo action.
- Fixed issue in Property Grid with setting RGB values.

#### **version 4.0.18**

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- Fixed possible data corruption using D-Nav NAVBar or NAVList.
- Fixed issue with Subpages that have an Ampersand '&' in the name not compiling correctly for an XPanel for Mac project.
- Fixed issue with ADMS OSD navigation not persisting the Exit to Default Object.
- Fixed potential crash after using "Delete Project(s)" feature
- Fixed "Delete Project(s)" not working unless project was currently loaded.
- Fixed Subpages being created with one less space in the name while in Folder Mode.
- Fixed spaces being removed from Subpage names when they are created inside a folder in folder mode.
- Fixed issues with Subpage Transition Effects between Property Grid and Property Dialogs.
- Fixed issue in Property Grid where Template data was not updating immediately.
- Fixed issue with Video object not displaying video properly for DGE-1.
- Fixed issue with Project's correct Theme name being returned truncated to SystemBuilder and D3 Pro.
- New help file added.

#### **version 4.0.17**

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- Fixed SaveAs issue when converting panel from one resolution to another.
- Backed out change to "object sized to fit graphic" when scaling a page. This could cause headaches



for some when going from a larger resolution to a smaller one since some objects may now be off the page and thus not compiled. This is the proper behavior however so this will be introduced again in the next major version.

- Fixed crash after copy & paste and property changes in Property Grid for NavListHorizontal D-Nav object.
- Fixed Property Grid not respecting maximum Digital Join for panel type.
- Fixed Property Grid not correctly unloading properties after an Undo action.
- Fixed issue in Property Grid with setting RGB values.
- Fixed 8-bit Floyd Stein dithering not being applied correctly for TPMC projects.

#### **version 4.0.16**

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- Included new XPanel, v1.8.1.0. The following issues were addressed with this version:
  - Gauges and animations now correctly positioned.
  - Anti-aliased text now bounded by object edges.
- Added support for the TPMC-4SM panel.
- Added support for the XPanel for Mac panel-type.
- Fixed issue where subpage reference could be lost when copy pages in from another project.
- Fixed issue where "Size button to fit graphic" is not correct when you copy a page from another project.

#### **version 4.0.15**

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- Changed TPMC-12 compiler to not adjust RGB color for Inactive State of Video objects. This causes issue with displaying video at run-time.
- Fixed font problems when converting projects between Mobile Pro and other panel types.
- Fixed issue with selecting graphics in Theme styles for Gauges and Sliders.
- Fixed crash in Theme Library.
- Fixed problem when accessing device data that would sometimes cause the Windows Database Connection Dialog to display.

#### **version 4.0.14**

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- Fixed crash in Hard Button Manager when within SystemBuilder and clicking on another button's row while the Template Data editor is displayed.
- Fixed TPMC-4SM projects reporting 0 for compiled size when too large.
- Fixed Click Assign Text Style showing unsupported styles for TPMC-3X and TPMC-4SM.
- Fixed issues when using images as Graphic or Indicator Graphic for Gauge/Slider.
- Adjust RGB value for object colors at compile time for TPMC-12 in order to avoid run-time problem that causes banding.
- Fixed missing fonts issue when doing SaveAs from Mobile Pro to a different panel type (i.e. TPS).
- Fixed Property Grid not setting Transition Effect properties correctly for Pop-up Windows on DVPHD.
- Fixed error message about missing "Crestron Database" when it should be "Device Database".
- Included new XPanel, v1.8.0.9. The following issues/features were addressed with this version:
  - D-Nav support (Browser & PC versions only; requires new Device Database to enable).
  - Host name resolution by auto-discovery.
  - Fixed: Signed gauge/slider ramp does not work.

- Made changes so the clock control will follow the control system's clock as opposed to the PC's clock.
- Fixed: Black bar shows up on every page when running e-control 2 browser.
- Refreshing IE webpage no longer crashes XPANEL in IE.
- Progress bar no longer persists in XPanel Web.
- Fixed redraw on reconnect issue.
- Fixed: Indirect text append doesn't work.
- Speed up anti-aliased text rendering.
- Speed up dynamic graphics downloading and rendering from HTTP sites.

#### **version 4.0.12**

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- Fixed problems when displaying Korean fonts and text.
- Fixed crash with D-Nav Animated Button when modifying the Graphics Locked property and using Undo/Redo.
- Fixed Message Log window getting lost due to changes made in the previous version.
- Added Video Source defaults to Device Database. Previously first in list would be the default.
- Added ability to limit amount of Video objects allowed on a page since some panels have restrictions.
- Added Compiler check for invalid Text Style values. The TPMC-3X no longer allows Text Style to be Embossed, Raised or Shadow. If a project already exists that uses these, they will be "fixed" at compile-time and a warning will be displayed.

#### **version 4.0.11**

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- Fixed crash when adding frames to an Animation object in a TPMC-12 project.
- Fixed Simulation setting not being displayed in Compile tab of Project Properties.
- Changed behavior of Snap-to-Grid. Objects will now snap when moved, not when they are only selected.
- Fixed open/displayed Pages not being adjusted when resolution is changed in Project Properties.
- Fixed Page size not being adjusted when copying between projects of different resolutions.
- Fixed XOR color setting being lost when copying Text objects in APAD, AMS, and AES projects.
- Fixed issue where some invalid properties were getting brought in when copying objects between projects of different panel types.
- Fixed Font Manager reporting Crestron Mobile built-in fonts as missing.
- Fixed incorrect RF ID value being saved with MT-1000 projects.
- Fixed Subpage Reference z-order changes not being reflected in the Workspace Tree and not setting Project Changed flag.
- Fixed Analog Mode Joins not being included in Project and/or Page counts by Join Manager.
- Fixed issue with Copy & Paste in Workspace Tree when in Folder Mode (introduced in previous version).
- Fixed issue where renaming a page when in Folder Mode allowed the names to become too large.
- Fixed compiler so it cleans up temporary files if cancel is clicked.
- Fixed Message Log window not saving its current size when application is closed.
- Fixed focus issues in Hard Button Manager when within SystemBuilder and a join number is manually typed in.
- Fixed issue where Redefine Theme Style would fail to change edited graphics.
- Fixed Theme issues when having more than one template open at the same time.

- Fixed graphic issues in Theme Styles for Gauge and Slider objects.
- Fixed loss of graphics when new Theme Styles are created through Theme Library.
- Fixed Property Grid not being displayed when running within SystemBuilder after returning from launched mode.
- Fixed issue with Theme Manager causing error messages to display when within SystemBuilder.

#### **version 4.0.10**

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- Fixed crash when save Project property dialog.
- Added support to open explore when double click output file in compiler dialog.
- Fixed text tab did not show for Video/RGB objects.
- Fixed save as DVPHD panel to DVPHD changed the project size.

#### **version 4.0.09**

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- Added support for DVPHD-CUSTOM-GB panel.
- Added database support for page grouping.

#### **version 4.0.07-4.0.08**

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- Fixed "Space Evenly Across Page" Alignment tools when applied to 3 or more object groups.
- Added support for additional display outputs on DVPHD.
- Fixed missing programming icon in Hard Button Manager.
- Fixed Rename issue when using keyboard up/down arrows in Project Workspace.
- Fixed issue where iPhone & iPod Touch default Page Theme gets overwritten when copying page from another project.

#### **version 4.0.05-4.0.06**

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- Fixed issue where any file type was allowed to be dragged and dropped onto VTPro-e causing it to crash.
- Fixed issue with Theme styles overwriting Dynamic Graphic settings when applied to Buttons.
- Fixed problem in Theme Manager where styles using PNG graphics were not being exported correctly.
- Added Page Group feature support to MLX-2 and PLX-2.
- Fixed issue on MLX-2 & PLX-2 with new Next/Previous indicators not being properly programmable in SystemBuilder.

#### **version 4.0.04**

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- Redesigned Hard Button Manager. Now uses a grid-based editor, scales panel images, and provides many new editing features.
- Added Page Template feature.
- Added Object Grouping feature.
- Added support for TPMC-3X.
- Added Page Group feature (currently TPMC-3X only)
- Added Next/Previous Indicator feature to MLX-2 & PLX-2 Page Footer properties.
- Adjusted infrared repeat rate for ML-500/600 to eliminate pulse on press & hold.

- Fixed issue where pageflips on page-level Hard Buttons would not function unless an object was also on that page.
- Fixed incorrect labeling for Subpage Transition Effect in TPMC projects.
- Fixed crash in Property Dialog window for APAD Scrolling List objects.
- Fixed Copy & Paste within Property Grid.
- Fixed issue when copying Modes in Property Grid.
- Fixed issue in Property Grid where Height and Width properties were disabled incorrectly.
- Fixed issue with copying folders and pages to the clipboard causing SystemBuilder to crash.
- Fixed issue when within SystemBuilder where Project was not displaying folders even though folder mode was enabled.
- Fixed issue where no information window appeared after project documentation was generated when within SystemBuilder.
- Fixed 16-level fonts not compiling correctly for D-Nav objects.
- Fixed visible indicator artifact displayed at run-time for Gauge objects that use a graphic as their background.
- Fixed naming issues when copying pages between projects.
- Fixed issue where no warning was being displayed when attempting to open pre-4.0 projects in 4.0 version.
- Fixed issue where user was allowed to add more than one Scrolling List object to a page in an APAD project.
- Fixed Graphic overlapping Frame when an Object's Face color is Transparent.
- New help file added.

#### **version 3.9.41**

- Fixed improper initialization of some Hard Button Manager settings which may have resulted in corrupt Hard Button data for SystemBuilder.
- Fixed Slider using Indicator color and graphic showing thin line/artifact at run-time.
- Fixed issue when object's Navigation Name is empty.
- Fixed Property Grid text fields being deactivated incorrectly when in edit mode.
- Changed Property Grid Pageflip dropdown lists to be sorted alphabetically.
- Fixed possible crash when copying theme styles into project.
- Adjust theme for changed panel name if necessary.
- Changed to load newest help file if more than one is found.

#### **version 3.9.40**

- Fixed issue with subpages being resized incorrectly when UPX project's resolution was changed.
- Fixed crash when multi-selecting Animation objects and attempting to edit frames in the Property Grid. Frames will no longer be considered common properties.
- Fixed Property Grid dependency issues with the Translucency property.
- Backed out change made in 3.9.36 for ML-500/600 panels to prevent join pulse since it caused other issues and original problem was later determined to be a firmware issue.
- Fixed issue where "Feedback and Logic" was added to context menu twice.
- Fixed some minor issues when running within SystemBuilder 3.07.

#### **version 3.9.39**

- Fixed issue with missing frames on objects when displaying on TPS panels with new firmware revision.
- Will now generate additional font files at compile time if a different character set is used (i.e. the script value in the font chooser dialog).
- Fixed resource allocation issue after SystemBuilder adds and/or removes hundreds of images when using animation objects.
- Changed SystemBuilder progress events to ignore built-in projects and templates.
- Fixed issue with property changes when running within SystemBuilder 3.07.

### **version 3.9.37 - 3.9.38**

- Fixed issue for iPhone and iPod Touch compiled projects where images had incorrect size specified in output files.
- Fixed issue on TPS-4L with Page-level Hard Buttons not working when Page had no objects.
- Fixed issue where Black Bar Ratio setting was not initialized correctly for Video Source property in Property Dialog window.
- Fixed issue with Line object Property Dialog window not showing properties correctly.
- Fixed issue where it was possible to add more than 1 Scrolling List object to a page when within SystemBuilder.
- Fixed updating of an object's project name when copied between projects within SystemBuilder 3.07 so the proper resources are used.
- Added ability for SystemBuilder 3.07 to cancel project loads via its progress event.
- Fixed Theme Style "None" being copied and applied from source project after a Page is copied when in SystemBuilder.
- Backed out changes made for SystemBuilder 3.07 that seemed to cause issues when copying images within Animation objects. These were unnecessary for the issue that was being fixed anyway.
- Added notification to SystemBuilder about being busy while performing long operations.
- Fixed issue when within SystemBuilder 3.07 where pages were not being correctly set when hard buttons were being modified.

### **version 3.9.36**

- Fixed ML-500/600 IR mode pulsing button presses.
- Fixed crash when setting item properties for an APAD Scrolling List object from SystemBuilder. The empty page flip was not being interpreted correctly.
- Fixed issue with SystemBuilder closing Hard Button Manager.
- Now reporting more information to SystemBuilder about project being loaded.

### **version 3.9.34 - 3.9.35**

- Changed the way Styles are handled when a Page, Subpage or Object is copied between projects. If the Page, Subpage or Object uses a Theme Style that is not available in the target project, the Style will be copied in as well.
- Optimizations and fixes to image resource handling when within SystemBuilder 3.07.
- Optimizations and fixes to Animation object modification when within SystemBuilder 3.07.
- Other changes for internal use only.

**version 3.9.33**

- 
- Fixed issue on TPS panels when a PNG graphic is used as the background image on a transparent Subpage. The Subpage's last set Background Color is used as the Subpage background. This is only a problem if the PNG graphic has transparent or translucent pixels that would allow the color to show through instead of what is behind the Subpage. This issue was introduced in 3.9.30 when the Page Background Color was fixed.
- Fixed issue where TPMC-12/15/17 project pages would be recompiled even though nothing was changed in the project.
- Corrected algorithm used by the compiler to calculate prerender size of projects for TPMC-10, TPMC-4X & TPMC-4XG panels. It was not correctly accounting for compressed image file formats (PNG & JPEG). This meant the compiler didn't warn when projects were too big for the panel to load.
- Fixed an issue for SystemBuilder when projects were converted to panels that had more hard keys than the source panel type.
- Fixed SystemBuilder issue where Hard Button changes were being ignored.
- Fixed SystemBuilder 3.07 issue where Animation frames were reversed.

**version 3.9.32**

- 
- Fixed crash when copying a folder that contains pages from a panel type that supports navigation to a panel type that does not.
- Fixed issue with application exit when running within SystemBuilder 3.07.
- Further optimization of image resources when within System Builder 3.07.

**version 3.9.31**

- 
- Fixed crash when using undo after changing project's page size (originally reported as an issue in XPanel projects).
- Fixed issue in Property Grid where height and width properties remained disabled when no image is assigned to the object.
- Added optimization for SystemBuilder 3.07 when replacing multiple image resources on objects.

**version 3.9.30**

- 
- Changed behavior of APAD Scrolling List Property Dialog window. If text is assigned to a list item but not a join, the dialog can now still be closed. A warning about this will now be displayed and the user will be given a choice to go back and edit the list properties or close the dialog and continue. If close and a join is not assigned, an error will now be generated at compile-time.
- Fixed Page background color not showing at run-time on TPS panels when using a transparent PNG graphic as the background image.
- Fixed Button Face not showing at run-time on TPS panels when a transparent PNG graphic is assigned to the button's graphic property.
- Fixed keyboard shortcut for Paste Special so it can be used while Workspace Tree has focus.
- Fixed issues with pasting Pages/Subpages in Workspace Tree messing up the new name of the Page.
- Fixed AMS-AIP OSD Navigation Joins not saving correctly when they are set by manually typing in the value.
- Fixed crash when saving project to a file with same name but different case (upper case vs. lower).

- Fixed Button theme style properties not being set in the Theme Manager Properties Dialog window for MT-1000 and TPS-6IR project themes.
- Compiling a project for the IPAC control system will now generate a .BIN file instead of .HEX since the panel is unable to load Hex format files.
- Fixed issue when APAD Scrolling List items are renamed to "(1)" when within SystemBuilder.

### **version 3.9.29**

- 
- The compiler for iPhone and iPod Touch projects will show an error when the generated XML file, included in the .ZIP output file, exceeds the maximum size. That size is currently 256000 bytes. The only way to resolve this error is to reduce the amount of pages and/or objects used within the project.
- Fixed Translucency property for graphic images on objects not being compiled correctly for iPhone and iPod Touch projects.
- Fixed Animation Frames being off by 1 in iPhone and iPod Touch projects.
- Ensure subpage reference icons are up-to-date when within SystemBuilder.

### **version 3.9.28**

- 
- Fixed crash with Auto-Assign Join, introduced in last build version.
- Fixed crash in APAD Scrolling List Property Dialog when selecting an empty item and attempting to move it using the Up or Down arrow buttons.
- Fixed Property Grid not correctly clearing graphic property when None is selected (originally reported as a run-time issue for TPMC panels).
- Fixed issue with folders causing duplicate "First Page" markers in Workspace Tree.
- Fixed run-time issues with Font settings (italics, bold, etc) not being followed in iPhone and iPod Touch projects.
- Fixed issue where certain Fonts do not display at run-time on iPhone and iPod Touch.
- Fixed Browse Image window causing SystemBuilder to become inactive and hung.
- Added keyboard shortcut for Paste Special, Ctrl-Shift-V.
- Fixed Copy/Paste of Folders ending up in the wrong location.
- Fixed Theme Styles for Pages not showing Dithering properties.
- Fixed Multi-line text (text with a carriage return) being truncated at run-time for iPhone and iPod Touch.
- In the Property Dialog Window, a number of features/properties are enabled/supported for projects using the "iPhone and iPod Touch" Panel type but may not yet function on the device itself using the initial release of the firmware. These features are currently disabled in the Property Grid however. Known run-time issues at the time of this release are as follows:
  - Dynamic Graphics do not display on Page and Subpage backgrounds.
  - Transition Effects do not work for Page and Subpage References.
  - Scrolling Text does not work.
  - Bleed Color does not work.
  - If a Default Path is specified for a dynamic graphic, the graphic does not show.
  - Dynamic Graphic's Refresh Rate and Aspect Ratio Join properties are not followed.
  - Dynamic Graphic's Maintain Aspect Ratio property for Button objects is not followed.

### **version 3.9.27**

- 
- Fixed issue when a button is deleted, all navigation on all objects on the page is deleted.

- Fixed not being able to type "=" into Property Grid text fields.
- Fixed crash when using Save As to smaller resolution panel and project uses D-Nav NavList and/or NavListHorizontal.
- Fixed crash after changing NavListHorizontal "Style" then doing a Save As.
- Fixed Window -> Close All prompting user to save project after all windows are closed.
- Fixed Theme Manager not saving Animation Logic settings.
- Fixed issue with Theme Style Graphics missing and displaying warnings if the same graphic was used in multiple styles but replaced or cleared in one of those styles.
- Fixed TMPC-4X/TPMC-8X Popup Windows' images not being displayed when built from within SystemBuilder.
- Fixed not being able to change the Font "style" in iPhone and iPod Touch projects.
- Fixed Hard Button joins not being cleared when using Clear All Joins. They will now be reset to their default values.
- The current Frame number displayed in the Animation object's Property Dialog will now be displayed as 0-based instead of 1-based (in other words, first frame = 0). This was changed to match the frame number with the analog value required to display it.
- Fixed object navigation using the Tab key so that cycling through objects on a page does not get stuck on a Subpage Reference that is set "Not Visible".
- Template Data validation will no longer happen unless the Template Editor is enabled.
- Fixed Template Data not being saved when using Hard Button Manager within SystemBuilder.

### **version 3.9.26**

- 
- Fixed incorrect compilation and display of PNG images when used as indicator line of slider.
- Fixed font run-time display issue on TPS panels when using Chinese or Japanese.
- Fixed memory leak when using mouse-over preview for iPhone Built-in images.
- Fixed various issues with iPhone Built-in images in ResourceView.
- Added Font compilation progress to compile progress dialog.
- Fixed duplicate pages in Workspace Tree after combinations of pasting multiple pages and using Undo.
- Fixed loss of graphics in Theme Manager.
- Fixed Auto-Join for digital joins for TPS-4L and similar panels where Hard Buttons have fixed, non-assignable joins.
- Fixed issues when using Undo after moving pages to another folder in WorkSpace Tree.
- Added Template Data property to Property Grid for MLX-2 Subpage References.
- Fixed Font Manager not reporting/updating changes to fonts used in D-NAV objects and sometimes causing the Fonts folder to disappear from the Resource View.
- Fixed Undo/Redo sequence leaving unused fonts in Fonts Manager.
- Fixed crash when using PNG image files in a MT-500 project.
- Changes made to COM interfaces for Toolbox to Upload iPhone projects.
- Fixed Dither and related properties being disabled in Property Dialog window.
- Fixed being allowed to set a First Page to not compile in Property Dialog window.
- Fixed Close All in Window menu so user is no longer prompted to save project after windows are closed.
- Fixed issue with Click-Assign Graphic holding onto a resource after document is closed.
- Fixed SystemBuilder issues with 2-D Gauges/Sliders.



**version 3.9.25**

- 
- Added support for iPhone and iPod Touch.
- Fixed issue when Animation Objects having no frame images are not compiled but still added to the Page's object count by the compiler. This was causing a failure to load the display list on TPMC-4X/4XG panels but could also have affected other TPMC panels.
- Corrected behavior when automatically repositioning an object that is larger than the page size. Will now readjust width or height when possible.
- Fixed Return Pageflips not working at runtime when set from Property Grid.
- Fixed Property Grid allowing Subpages referenced on a Page to be set to 'Not Compiled'.
- Fixed crash when previewing a Pop-up Window.
- Fixed Rename Page causing "<Main Page>" to be literal and not a place holder name.
- Fixed issue where PNG image previews in Property Grid are cut off or affected by page magnification setting.
- Fixed Font Manager so it refreshes the sorting after a font is replaced.
- Fixed Save As between different panel sizes incorrectly scaling the size of DNAV objects.
- Fixed issue with "Clear All Joins" for pages messing up folder display in the Workspace Tree and not setting the undo action correctly for any serial joins.
- Fixed "New Folder" name dialog window not displaying project path name correctly. It will now only display the project name, no file path information.
- Fixed incorrect reporting of return join when within SystemBuilder.
- Fixed ML-500/600 IR setting reverting back to RF when Project Properties is closed after no changes were made.
- Changed behavior of the Template Data Validation routine for Pages. This will now only kick in if the Template Editor Tools are enabled via the secret registry key.

**version 3.9.24**

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- Fixed crash when selecting Click-Assign Text Style tool.
- Fixed crashes when trying to create interlock group.
- Fixed Page/Subpage name not being appended properly after copy and paste on top of another Page/Subpage when in Folder mode.
- Fixed Paste Special not pasting folder along with its contents.
- Fixed Undo/Redo not working when copying folders between projects.
- Fixed Dynamic Graphic Join Property being reset in Property Grid after typing a new value.
- Fixed Workspace Tree not displaying Subpage References correctly when in Folder mode.
- Fixed possible crash when opening Subpages within a Folder.
- Fixed issue causing Feedback And Logic feature to be missing in last release.
- Fixed Property Grid expanding all property trees after assigning a join to a D-NAV item.
- Fixed Property Grid not setting Return Pageflips correctly.

**version 3.9.23**

- 
- Added preview image popup window to fonts listed in the Font Manager tree.
- Fixed Theme Manager issue that caused properties on the Appearance tab of the Properties dialogs to be disabled and unable to be edited.
- Fixed issue when using Upload Project where a modified project would ask to be recompiled twice.

- Fixed Property Grid not enabling Top and Left properties after "Lock Position and Size" is turned off using Undo.
- Fixed memory leak when an object uses a theme style.
- Fixed memory leak when modifying buttons for a page within the Hard Button Manager.
- Fixed issues with page data being lost after hitting Cancel in the Hard Button Manager.
- Fixed issue with Object Shape property value names and mismatches between Property Dialog and Property Grid.
- Fixed issue with Clear All Joins on the Project-level that may result in crash.

### **version 3.9.22**

- 
- Fixed issue where files were being completely regenerated at compile-time and thus forcing Toolbox to send the entire project.
- Fixed Gauge/Slider objects displaying a line around the indicator bar when at 2x or 4x.
- Fixed Gauges on MLX-2 not setting Face Color correctly when Indicator Color is changed.
- Fixed MLX-2 Clock Properties Dialog window not initializing the offset settings correctly.
- Fixed Subpage Reference not displaying Subpage's Header/Footer over the Page's at design time.
- Fixed issues with Clock object for MLX-2.
- Fixed issues with Timer object for MLX-2.
- Disabled Copy & Paste of objects between MLX-2 and other Panel types.
- Fixed MLX-2 not correctly copying Signed feedback property.
- Fixed being allowed to move objects to invalid positions and widths that exceed the MLX-2 Page size.
- Fixed horizontal alignment issues for text on MLX-2.
- Fixed Property Grid incorrectly copying Mode properties to MLX-2 projects from other panel types.
- Fixed Property Grid not locking position values for MLX-2 when Lock Position and Size is set to Yes.
- Fixed Property Grid resetting Indirect Text Joins after setting value and then clicking on them.

### **version 3.9.21**

- 
- Fixed Auto-Join when using "Control (Digital) Join" for Scrolling Text.
- Fixed some Join reporting issues that caused Auto-Join to get used joins.
- Support added for MLX-2.

### **version 3.9.20**

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- Fixed issue causing Page dirty flag to be reset resulting in not being prompted to save the project when closing.

### **version 3.9.19**

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- Fixed issues when moving Pages and Subpages within folders.

### **version 3.9.18**

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- Fixed Legend not retaining Face color correctly between Active and Inactive States when copied.

### **version 3.9.17**

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- Fixed TPMC-8X Embedded Applications failing to load in SystemBuilder Programming View.
- Fixed Animation Objects losing association to Theme style once template is closed.
- Changed Property Grid behavior so that the expanded/collapsed state of the property tree is maintained across all object selections. Previously, this was stored per object.

### **version 3.9.14-3.9.16**

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- Fixed issues with Hard Button not reporting join information correctly to SystemBuilder.
- Fixed issue with Property Grid when undocked within SystemBuilder.
- Fixed issue when switching between projects within SystemBuilder and reporting wrong project's information.
- Fixed errors when compiling AMS-AIP Front Panel while launched from SystemBuilder.
- Fixed Animation Theme Styles not handling frames correctly.
- Fixed Crash after changing output resolution for a TPS-GA-TPI project.
- Fixed Property Grid so that changing properties for a Digital Gauge does not make other unexpected changes.
- Fixed Hard Button Manager displaying 0 instead of None for unassigned joins.
- Fixed a compiler issue with APAD and AMS-AIP Front Panel.
- Fixed issues with new Font Chooser dialog window.
- Fixed issue with font names being corrupted when copying pages between projects of doing a SaveAs.
- Fixed issues with Properties not being enabled and set properly on supported panels. This was also causing problems when applying theme styles.

### **version 3.9.10**

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- Fixed Height & Width not being disabled in Property Grid correctly when "Lock Position & Size" is set and an graphic image is used on the object.
- Fixed Property Grid not allowing joins to be set to 0 after a Reserved Join was used.
- Fixed Property Grid positioning when multiple monitors are used.
- Auto-Save has been changed to only save if necessary. This was the cause of significant slow downs when embedded within SystemBuilder.
- Miscellaneous changes to support new SystemBuilder functionality.

### **version 3.9.09**

- 
- Fixed critical error when compiling within SystemBuilder due to page names being too long.
- Fixed Auto-Assign Join for TPS-6L RGB & Video objects' Scrolling Text. Was not assigning a join the first time Properties were opened.
- Fixed crash with closing project from right-click context menu in Workspace Tree when large number of pages are open.
- Fixed "Preview Popup Windows" missing in right-click context menu for DVPHD.
- Fixed Copy/Paste of a page will "duplicate" the page name.

- Fixed object state information ToolTip repeatedly flickering if too many lines present in Template Data.
- Fixed flashing when "Show Mouse Over Object Tooltips" is set, was making difficult to read.
- Fixed Property Grid being unable to copy/paste modes.
- Fixed Popup Window properties not being displayed correctly in Property Grid.
- Fixed Template Data edit fields in Property Grid
- Fixed inconsistency between Property Grid and object property for "Position and size".
- Fixed Esc key assigning the property value in Property Grid after keyboard is used to scroll through drop-down lists.
- Fixed possible crash in Property Grid when objects are multi-selected and modes are added or deleted.
- Fixed "Position and Size" values in Property Grid for Line objects not being updated in real time when moving object with keyboard arrows.
- Fixed Property Grid still showing an object's properties after Page window is closed.
- Fixed Property Grid allowing fractional values for Animation Logic Run Speed property.
- Fixed Indicator Graphic properties not being disabled in Property Grid for a 2D Gauge/Slider.
- Fixed Undo/Redo issue in Property Grid after font settings are changed.

### **version 3.9.08**

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- Fixed potential loss of SystemBuilder programming on Hard Buttons.
- Fixed incorrect joins being reported to SystemBuilder when multiple projects are loaded.
- Fixed synchronization issues in Property Grid with multi-selected objects.
- Fixed Property Grid issue with Undo/Redo and synchronized states.
- Fixed Property Grid issue with properties for Popup Windows.
- Fixed issue when a Popup Window contains a SubPage Reference.

### **version 3.9.07**

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- Fixed various problems in the Property Grid with multi-selection of objects.
- Fixed TPS-6IR RGB Object incorrectly allowing Modes in Inactive State and showing more than 2 in Active.
- Fixed TPS-6IR panel logic missing for joins assigned only to page-level Hard Buttons.
- Fixed Property Grid allowing First Page to be marked as "Don't Compile".
- Fixed crash and/or problems after previewing Popup Windows on a Page.
- Fixed issue with blank Page names such as <Main Page> not showing any Property Grid Values
- Fixed Property Grid not updating when "Clear Joins" used.
- Fixed issues with 2 color images for Slider/Gauge Graphic; Indicator Graphic 2-color properties get enabled even if no graphic is set (and vice versa).
- Fixed object properties still being shown in Property Grid after Unselect All.
- Fixed 2nd join for 2-D Slider/Gauge not updated in real time in Property Grid.
- Fixed issues with SubPage References on popup windows.
- Fixed crash after using Click-Assign Graphic on an Animated object, then adding a blank frame.
- Fixed Click-Assign causing focus issues in Property Grid.
- Fixed Top/Left values not being updated in Property Grid when moving object using keyboard arrow keys.
- Fixed Property Grid issues between Animation object's Digital Press Join and Logic dependent

properties.

- Fixed Property Grid issues pasting "Frames" on the parent tree for Animation objects.
- Fixed issue when "Lock Position & Size" enabled and attempting to copy/paste "Position & Size" in Property Grid.
- Fixed Property Grid not making all shape properties available after choosing "Extruded" Style setting.
- Fixed Property Grid not updating correctly when copy & paste of "Synchronize States" property.
- Fixed Property Grid Image Preview remaining on screen after Property Grid is closed
- Fixed TPS-6IR Animation object incorrectly displaying "Enable Animation Logic" in Property Grid.

### **version 3.9.06**

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- Fixed possible crash when setting joins in the Theme style properties of an Animation object.
- Fixed Font Manager not updating when page is closed without saving or entire project is closed.
- Fixed issues with Font Manager not updating correctly when Undo or Redo is used.
- Fixed issue where Property Grid allowed entry of join numbers larger than maximum for panel.
- Fixed Modes being out of sync between Property Grid and Property Dialogs.
- Fixed miscellaneous issues with editing properties in Property Grid.

### **version 3.9.05**

- 
- New Font Manager added to Resource Manager tree. This will display all the fonts being used throughout the project, identify if any are not installed on the system and allow the user to easily replace or change them.
- New Property Grid available for editing the properties of Pages, Subpages and Objects. The CT, LC, ST, STX, VT-3500/4000, DVP4, and AMS-AIP panel types are not currently supported but may be added at a later date. The ML-500/600 and C2N-IIF (Sound only) panel types will not be supported.
- XPanel now has 2 new features, a Kiosk mode and support for additional Gateways. Properties for these features can be set in the Project Properties dialog.
- The e-Control 1 (Browser) panel type is no longer supported.
- Navigation Dialogs for the AMS-AIP OSD have been consolidated and redesigned.
- Hard Button Manager now has the ability to set individual hard buttons for a page to follow the project-level settings.
- New internal functionality added to support new SystemBuilder v3.07.
- Fixed Sound Files folder missing from Resource Manager.
- Fixed being able to create a Page or SubPage in the Popup Windows folder.
- Fixed .VTZ files being created even though project contained compile errors.
- Fixed issues with "Supports Navigation" checkbox that can lead to broken navigation.
- Fixed crash when moving pages.
- Fixed not being able to change an AMS-AIP OSD object's digital join in its property dialog page when embedded in SystemBuilder.
- Fixed crash when selecting "set theme style" option from right click menu.
- Fixed "Image already exists" messages when drawing DNAV objects.
- Fixed "16 bit" option for Gauge and Slider Graphics not persisting.
- Fixed Click-Assign Join starting at a reserved join.

- Fixed crash when using CTRL-F4 to close a project.
- Fixed objects being erased from page or crash after clicking Cancel in Hard Button Manager.
- Fixed crash after re-importing image used in an Animation object.
- Fixed D3 Pro Theme Preview images or descriptions not being found when SystemBuilder templates have not been installed.
- Fixed Theme styles for Animation objects.
- Fixed Theme styles for Pages not applying Background Graphic.
- Fixed delete prompt not going away when user specifies "No" to cancel the deletion of an object on AMS-AIP OSD.
- Fixed page flips being lost when using an AADS-XM with TPMC-4XG and moving panel to different rooms.
- Fixed crash when pressing SHIFT+A in the Property Dialog window.
- SubPages set to "Don't Compile" can no longer be added to active pages.
- Workspace Search will now include Window Layouts and Popup Windows in the search.
- Fixed screen being painted green after an AES template page is opened.
- Fixed crash after a combination of new folder creation and Undo.
- Fixed failure to copy graphics into the SystemBuilder Gel Green Theme.
- Fixed crash during Sound Manager join assignment.
- Fixed APAD Scrolling List not detecting changed page names.
- Fixed being allowed to draw unsupported objects in a project when multiple projects open.
- Fixed Slider object not rescaling line indicator width when converting from a large panel to a small one.
- Fixed Rename dialog being titled "Rename Folder" when renaming pages.
- Fixed "Edit Navigation" not being disabled if object is "protected".
- Fixed "Center Vertically" not working properly for some object groupings.
- Fixed Serial Join Offsets for subpages being wrong when a huge number is used.
- Display Object Join Numbers will now affect all pages instead of just the currently active page.
- Fixed ML-500 Add Group button allowing the entry of a null group name.
- Fixed all backgrounds being changed when changing an MT-1000 Page Theme background image.
- Fixed join number not being shown for the Hard Button Manager.
- Fixed Indicator thickness being larger than Analog Gauge height when a TPS-12 project is converted to a TPS-4L or TPS-6L.
- Password Dialog for Protection feature is now a modal dialog.
- Fixed not being able to select multiple Pages in folder mode.
- Fixed leading spaces being added to folder names when pages are moved.
- Fixed confirmation message window not being shown when using "Generate Project Document" from within SystemBuilder.
- Fixed issues when Navigation Name field is left blank or completely deleted; breaking runtime navigation.
- Fixed fonts not rendering correctly in an APAD Scrolling List.
- Fixed Cancel being ignored when user is asked to confirm the deletion of a folder containing subpages being referenced.
- Fixed Window Layout sizes not staying in sync with Output Resolution.
- Fixed Navigation Items drop down list not being refreshed correctly.
- Fixed not being able to open an AMS-AIP OSD Window Layout with right click or enter.
- Fixed APAD Scrolling List Activation Indicator property sometimes allowing more than a single character.

- Fixed Stretch to fit is not working correctly for Image.
- Fixed Print To File producing invalid GIF files.
- Fixed moving pages to folders in project not refreshing page list.
- Fixed Folders not being moved when dragging Pages and Folders together.
- Fixed Page join being cut off in tree when Page is renamed to maximum character size.
- Fixed being allowed to type in more characters when renaming a Page, SubPage or Folder and the existing name is already at maximum.
- Fixed Translucency setting not being saved in an Animated Object for TPMC-8X projects.
- Fixed Undo problems in RGB/Video Object.
- Fixed TPS-12 not displaying tiled background images correctly on SubPages.
- Fixed symbol fonts not being used correctly in a D-Nav control object.
- Fixed crash after replacing a graphic that is used in an Animation object.
- Fixed crash when pressing Enter + Arrow Key simultaneously on an object.
- Fixed crash if D-NAV is not installed and user tries to create D-NAV object.
- The return of the Hard Button Manager's OK and cancel buttons within SystemBuilder.
- Fixed Page Background Dithering not working during design-time.
- Fixed Colors & Fonts toolbar not being disabled when projects are closed (possible crash).
- Fixed TPS-6X not having "RGB" as a color option.
- TPS-6IR does not support Dynamic Graphics.
- Fixed RGB Object on TPS-6IR having its Active State Mode enabled but with no numbers.
- Fixed Join Offset not being disabled on TPS-6IR.
- Fixed negative numbers showing in the Serial Join path # drop down for TPS-6IR.
- Fixed Animation Logic for TPS-6IR.
- Fixed issues on TPS-6IR with Video Object.
- Fixed Undo/Redo not being available after drawing D-NAV NavList or NavBar objects.
- Fixed Drawing crosshairs being "stuck" after drawing a D-NAV object.
- Fixed issue for TPMC-17-QM in SystemBuilder new Pages added to the "Adagio" Folder are not removed if no changes are made and the window is closed via the title bar.
- Fixed auto-join in Sound Manager to be aware of joins assigned to other sounds.
- Fixed double-clicking in the Workspace tree not expanding certain folders (i.e. Embedded Applications, Popup Windows, etc.).
- Removed Search feature from ML-500/600 workspace context menu.
- Added display of currently active frame to Animation Property dialog.
- Modified Help menu and About Database dialog to use newer Device Database naming.

### **version 3.8.2.9**

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- Fixed possible project corruption if clicking Draw Tool on an existing D-Nav object and/or drawing tiny D-Nav object.
- Fixed deleting unused images removing those still in use by D-Nav objects.
- Fixed Property Grid not updating after deleting images in Resource Manager.
- Fixed RunReverse join action in Logic tab of Animation properties dialog. Was originally tied to Ru action value.

### **version 3.8.2.8**

- 
- Fixed crash when assigning joins in Sound Manager.

- Fixed crash for DVP-4/DI panels when opening Video properties.
- Fixed crash in Video and RGB objects when source name too long.
- Fixed deleting images in resource manager causing problem in D-Nav objects.
- Fixed issue preventing use of Symbol-based fonts in properties for a D-Nav object.
- Fixed possible crash when closing a customer's project that has bad page data.
- Fixed crash after F12 pressed when in Embedded Mode within SystemBuilder.

#### **version 3.8.2.7**

- 
- Fixed crash and possible data corruption after copy and paste when within SystemBuilder.
- Fixed issue with System Bar appearing when saving a TPMC-4X project as TPMC-4XG.

#### **version 3.8.2.6**

- 
- Fixed being able to drag AMS-AIP OSD Window Layouts to buttons creating invalid pageflips.
- Fixed "an unnamed file has a bad format." error being displayed when dragging subpages from SystemBuilder AMS-AIP OSD Project to projects of a different panel type.
- Fixed some characters not appearing for the Activation Indicator in an APAD Scrolling List.
- Fixed crash after an object is Cloned with "Revert to Select Tool after drawing" option set then click Escape key.
- Fixed crosshair cursor remaining after cloning an object and then moving it outside the visible Page .
- Fixed APAD Scrolling List editor not auto-scrolling up.
- Fixed Print To File not saving JPG backgrounds correctly.
- Fixed issue with setting theme style on a newly copied object causing the Theme Manager to display possibly corrupting project.
- Fixed the sorting of images in the D-Nav graphic selection dialog.
- Fixed copying pages containing D-Nav objects and then pasting to project type that does not support resulting in orphaned child objects.
- When doing copy & paste of pages from one panel type to another, objects not supported by target p show up in a dialog to let the user know.
- Fixed About Database showing Crestron Database install path in area for version number.
- Fixed issue with double-click handler. Will now ignore double-clicks while the Control key is down opening an object's Properties window (and sometimes still allowing clicks behind that window).

#### **version 3.8.2.5**

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- Fixed Copy & Paste not copying an object's resources correctly when in embedded mode of SystemBuilder.
- Fixed APAD Scrolling List not drawing scrollbar correctly for 20 items.
- Added notifications to SystemBuilder when properties changed in Property Grid.
- Added busy notification for SystemBuilder when decompressing D-Nav controls.
- Fixed default docked positioning of the toolbars when newly installed.
- Added new help file.

#### **version 3.8.2.4**

- 
- Fixed notify SystemBuilder of property changes when performed via the right-click properties menu.



- Fixed Hard Keys Tab from Project or Page Properties dialogs Auto-Assigning Duplicate Joins.
- Fixed AMS-AIP OSD: Window Layouts shouldn't allow for custom dimensions.
- Fixed AMS-AIP OSD resolution change causing all buttons to be set as Default.
- Fixed AMS-AIP OSD not allowing for different refresh rates.
- Fixed AMS-AIP OSD setting more than one Window Layout to be marked as default when created in SystemBuilder.
- Fixed missing PNG images when applying or reapplying theme styles.
- Fixed APAD Scrolling List scrollbar position indicator being drawn incorrectly.
- Fixed APAD Scrolling List missing "Feedback and Logic" in right-click context menu.
- Fixed Subpage references on existing pages changing when subpages are copied.
- Fixed "Space Evenly" feature so that it will work with only 2 objects selected.
- Fixed issue with "Align" feature not aligning objects correctly.
- Fixed loss of folder path when a subpage is copied.
- Fixed pages / Subpages created in Pop-up Windows folder if "Show Folders" enabled.
- Fixed Folder Mode to not affect ML-500/600 projects since they cannot use them.
- Fixed "Always Show Folders" option affecting ability to create new folders.
- Fixed joins being reset to 0 after hitting ESC key while Join Selector drop-down list is open.
- Added notifications to SystemBuilder when properties change via right-click menu.
- Fixed join assignment to a new, unprogrammed button not causing the programming portion of the v update to that new join.

### **version 3.8.2.3**

- Fixed crash when create TPMC-8X/L panel with new database.

### **version 3.8.2.2**

- Removed changes for Page view maximize button fix because it changes the existing behavior of the view windows.

### **version 3.8.2.1**

- Fixed file date comparison issue on Windows Vista that caused application to constantly think the project needed to be recompiled.
- Fixed crash when renaming a new page, closing that page and then doing an undo.
- Fixed text display issues on Gauge objects for an APAD project.
- Fixed Pages not being listed alphabetically by name on Assign Page Flip Name dialog.
- Fixed Theme does not preserve Graphic size setting.
- Fixed Graphic Size properties for a button theme style not being applied correctly to other button objects that also use that theme style.
- Fixed Xpanel Animation Translucent setting always reverts to 0%.
- Fixed "Always Show Folders" application preference not always being obeyed.
- Fixed AMS-AIP OSD Navigation to a subpage not working if that subpage reference uses logic and a digital feedback join is assigned.
- Fixed AMS-AIP OSD: CTRL+F shouldn't be allowed on Window Layout.
- Fixed AMS-AIP OSD: Window Layout pages should not be able to be locked.
- Removed Attributes tab from AMS-AIP OSD Subpage Properties dialog.

- Fixed AMS-AIP OSD Navigation item names not being limited in size. Limit is now 64 characters.

### version 3.8.2.0

- Fixed Copy & Paste changing object Z-order.
- Fixed crash when pressing delete key and enter key very quickly on pages.
- Fixed Ctrl-Copy of Legend object not functioning the same each time.
- Fixed Properties dialogs getting lost off edge of screen.
- Fixed APAD Scrolling List: Scroll Items listing does not auto Scroll.
- Fixed Graphic filename not being updated when switching from Inactive to Active states.
- Fixed crash when using APAD Scrolling List and pasting into Join number field.
- Fixed crash when using APAD Scrolling List and quickly copy and pasting of items from properties dialog.
- Fixed being unable to delete items from APAD Scrolling List properties when item number or select all locations are clicked.
- Fixed issues with remembering last folders used when browsing for projects, graphics, etc.
- Fixed View Window so that it now uses the subpage icon when editing subpages instead of the page icon.
- Fixed Search for object in Workspace Tree not removing previous search results.
- Fixed Search so it is no longer case sensitive.
- Fixed Editor Bar so it displays Bold/Italic/Underline in a more logical way during multiple selection of objects.
- Fixed Print File printing incorrectly when display is set to zoom size other than 1X.
- Fixed Help button in the Enter New Folder Name dialog not displaying help about folders.

### version 3.8.1.9

- Fixed AMS-AIP OSD: unable to change Video window Transition Effect property.
- Fixed AMS-AIP OSD: Slider's opposite directions triggering joins when in modify mode.
- Fixed AMS-AIP OSD Subpage forwarding rules not followed if Subpages hidden using Subpage logic.
- Fixed AMS-AIP OSD compiler displaying incorrect message for when Subpage forwarding causes a loop.
- Fixed crash in project page after SaveAs to AMS-AIP OSD.
- Fixed crash after saving as a CT-1000 project and compiling with several PNG images.
- Fixed Paste Special using Digital value to offset Analog joins.
- Fixed tool tips for XPANEL projects so they show URL page flips instead of "None".
- Fixed Esc key not closing Join Manager.
- Fixed Font size on toolbar sometimes showing incorrect size.
- Fixed compile being disabled for ML-500/600 in 3.8.1.8 version.
- Fixed Line objects being flipped when realigned because they are off the page.
- Fixed hang within SystemBuilder after modifying a join in the Hard Button Manager.
- Added update to help file.

### version 3.8.1.8

- Fixed crash in AMS-AIP OSD project after renaming navigation object to a name that already exists on that page.

- Fixed Clear All Digital Joins so it won't remove analog joins from Sliders.
- Fixed Wipe Transition Effects for DVPHD using the wrong direction.
- Fixed "unsupported operation" error when setting a style on a Page or Subpage.
- Changed AMS-AIP OSD Video windows to use black as their default color.
- Fixed AMS-AIP OSD Sliders that use digital press joins not going low after a page flip.
- Fixed AMS-AIP OSD Buttons/Sliders not triggering digital join on navigation press if additional navigation is also a movement into a subpage with join.
- Fixed Copy/Clone Subpage References on AMS-AIP OSD not incrementing the object navigation name.
- Fixed "supports navigation" checkbox being disabled after cloning a Slider/Button in a Subpage.
- Fixed Properties dialog losing page flip changes when switching between states or modes.
- Fixed crash when previewing a custom Popup Window.
- Fixed clearing the preview image in Theme Manager layout causing loss of other images.
- Fixed being allowed to compile when project is empty.
- Changed tab order slightly in Nav Props dialog to make it easier for editing.

### version 3.8.1.7

- Fixed issue with ability to import audio files that are 16-bit, mono, 16 kHz. (requires new Crestron Database).
- Fixed PNG graphics data getting corrupted when applying a theme style to object.
- Prevent corrupt images in an AMS-AIP OSD project from causing panel to crash.
- Fixed Click-Assign Graphic causing crash on Buttons/Gauges/Sliders.
- Fixed various issues with Subpage navigation on AMS-AIP OSD.
- Fixed crash when doing "Edit Navigation" on a Subpage Reference if parent Subpage has no navigation objects (AMS-AIP OSD).
- Fixed Undo after property changes to new states on AMS-AIP OSD Buttons/Sliders.
- Fixed Undo after Click-Assign to new states on AMS-AIP OSD Buttons/Sliders.
- Fixed page flip triggered from AMS-AIP OSD Subpage object leaving "Selected" state when returning to the page.
- Fixed AMS-AIP OSD "Auto-Assign Navigation" causing weird results when objects use page flips.
- Fixed being able to copy & paste an APAD Scrolling List object to an AMS-AIP front panel and/or OSD.
- Fixed dragging an image from Resource Manager onto new AMS-AIP OSD states.
- Fixed Join 1 not indicating in-use under AMS-AIP OSD Video object properties.
- Changed XPanel-Web HTML code for improved loading error checking/diagnostics.
- Added Scrolling List tags to Template Editor validation.

### version 3.8.1.6

- Various fixes to the AMS-AIP navigation support and, more specifically, Subpage navigation.
- A Subpageref navigation exit point has been designated as a "forwarding exit", used to continue navigation if the Subpage is not visible. The remaining user-definable exit points have been renumbered 1 - 14.
- The AMS-AIP auto-navigate feature has been improved to handle overlapping objects.
- Fixed Search for Object feature not finding objects correctly.
- Fixed unused images not being removed if they are part of an animation on a Subpage copied from

another project.

- Fixed Join Manager incorrectly showing a Project and Page count of 0 for serial joins.
- Fixed Join Manager incorrectly showing "Not Used" when hovering the pointer over the assigned join numbers.
- Fixed issue in Print to file when not currently viewing upper left corner of page.
- Changed APAD Scrolling List object's Wrap Selector property to be off by default.
- Fixed Resource Manager changing the case in the name of an image resource.
- Fixed crash while renaming a page/folder when user clears/backspaces over the pending new name
- Fixed notification to external apps (SystemBuilder & D3 Pro) when pages are added, deleted, or renamed.

#### **version 3.8.1.4/3.8.1.5**

- File format changes were made to the VTP files in order to support the Navigation features for Subpage References. Bringing projects forward from previous 3.8 versions will work fine but projects saved in 3.8.1.4 or later cannot be loaded by earlier versions. Doing so will result in possible loading errors.
- Fixed Hard Button Manager to not process join entry until user presses Enter, focus is lost, or user clicks the join selector.
- Various fixes to properly notify SystemBuilder when page/button properties changed.

#### **version 3.8.1.3**

- Fixed TPMC-4X SystemBar not appearing.
- Fixed projects still showing "Default Focus" Flag after saving from an AMS-AIP OSD to another type of panel.
- Fixed issues for certain AMS-AIP OSD projects where navigation would stop working after compiling and uploading.
- Fixed Slider "Design" settings not following between the different states for AMS-AIP OSD.
- Fixed crash when compiling projects containing corrupt PNG files.
- Fixed issues with "Supports Navigation" checkbox that can lead to broken navigation.
- Added multi-line capability to text fields in D-Nav Property grid.

#### **version 3.8.1.2**

- Fixed errors and possible crash when doing Save As from an AMS-AIP OSD project.
- Fixed AMS-AIP OSD: Default Focus no longer allowed to be set to "none".
- Increased size of Navigation Options join drop-down for AMS-AIP OSD.
- Added support for page-level hard buttons on TPS panels.
- Removed Digital Feedback Join from Video objects on AMS-AIP OSD Window Layouts. Panel firmware does not currently support it.
- Fixed RGB object not displaying video on TPS panels.
- Fixed keyboard shortcuts when used in SystemBuilder.
- Fixed problems when switching between projects and Hard Button Manager is displayed.
- Fixed problem while embedded in SystemBuilder where user was able to click behind a property window after the Join Selector was used.
- Fixed crash when Copy/Paste of D-Nav data.
- Fixed problem in Join Selector control when using the mouse wheel.

- Fixed crash in Theme Manager when selecting styles for D-Nav objects.

#### version 3.8.1.1

- Fixed multiple Hard Button Managers causing VTPro and/or SystemBuilder crash.
- Fixed minor issue where Resource Tree selected project did not stay in-sync with Project tree
- Fixed crash in AMS-AIP projects when using Synchronize States for buttons.
- Fixed crash when compiling an AMS-AIP project set to DEBUG.
- Fixed Clear All Joins not removing joins used in AMS-AIP navigation.
- Fixed AMS-AIP OSD Sliders not operating as specified at runtime.
- Fixed Save As from AMS-AIP OSD project type still allowing navigation keyboard shortcuts to work and leaving navigation properties still present.
- Added support to Theme Manager for new AMS-AIP states for Buttons & Sliders.
- Fixed some issues with AMS-AIP OSD Slider Slew-rate property.
- Fixed AMS-AIP OSD Window Layout - Don't Compile setting was not working correctly.
- Fixed AMS-AIP OSD: Digital Press Join for Sliders was not providing feedback.

#### version 3.8.1.0

- Fixed crash when using Destiny-640x480 template and deleting SW-WMC subpage.
- Fixed TPS-17 local logic join control not working correctly.
- Fixed crash when compiling XPanel and using DHCP for Control System or Gateway.
- Fixed minor TPS-2000 image issue in Hard Button Manager window.
- Starting with this release, names used for object navigation are unique to the page instead of the project.

#### version 3.8.0.6-3.8.0.9

- miscellaneous fixes to preliminary support for AMS-AIP features (both navigation, layout, & compilation).
- miscellaneous fixes to D-Nav objects.
- Fixed missing fonts during installation.
- Fixed crash when launched from SystemBuilder.

#### version 3.8.0.2 - 3.8.0.5

- preliminary support for AMS-AIP features (both navigation and layout).
- cleaned up & optimized D-Nav support as well as fixed many miscellaneous issues.

#### version 3.8.0.0 - 3.8.0.1

- Optimized internal searches for Page items. This should result in a some speed increase when selecting objects and modifying their properties.
- D-Nav Control support added (TPMC, TPS & DVPHD). Requires newer Crestron Database to enable and appropriate panel firmware to use.

#### Known Issues:

- Pressing the cancel button while a D-Nav control is being loaded can sometimes put VTPro in a state where it thinks the control is loaded and ready but isn't. To avoid problems when a

load is cancelled, do not attempt to draw the D-Nav control. Either select a different object or select a D-Nav control again and let it finish loading.

- preliminary support for APAD Day 2 features (including Scrolling List object).

### **version 3.7.2.8**

- Fixed project file version check when within SystemBuilder or D3 Pro. It was allowing files from newer major versions to be loaded, thus reading in data incorrectly and possibly corrupting the file.
- Backed out Undo optimization from last build. Appears to cause some internal problems. Will revisit later in next major version release.
- Fixed Terminate code when running within SystemBuilder or D3 Pro. This was not allowing a full cleanup before shutting down and would sometimes cause a crash on exit.

### **version 3.7.2.6/3.7.2.7**

- Fixed random crash when loading a template file for SystemBuilder and the currently registered CmDeviceData.ocx is not up to date.
- Fixed problem with handling of panels that support multiple resolutions. This was causing random crashes later when building single resolution panels.
- Added optimization to building for SystemBuilder. Undo actions for non-user-initiated operations are now ignored which should result in a speed increase for builds.
- Fixed crash when using undo after object cloned with draw tool instead of select tool.
- Changed installer so the Microsoft GDI Hotfix warning only displays for Windows XP and Server 2003.

### **version 3.7.2.5**

- Fixed crash when loading SystemBuilder template.
- Fixed crash when compiling an XPanel project that uses DHCP names for both Host and Gateway settings.
- Fixed crash when switching between SystemBuilder's Gel and Destiny templates.
- Fixed display of error dialog when running within SystemBuilder and attempting to load a template for an unknown Panel type.
- Fixed SystemBuilder Programming Window not closing when double-clicking an object.
- Fixed failure to install certain font files on Windows Vista.

### **version 3.7.2.4**

- Fixed possible crash when deleting a Video object from a Page.

### **version 3.7.2.3**

- Fixed Subpage size changed when copying and pasting in DVPHD projects.
- Fixed crash when compiling MT-1000 project and existing HEX file is marked read-only.
- Fixed issue with UPX Project Properties Dialog window (appear as varying symptoms: controls in wrong place, window very wide, extra tab with garbled label, etc.).
- Fixed issue with Video object Property Dialog clipping radio buttons in bottom section.
- Fixed crash when converting TPS-12 projects to BROWSER type.

- Fixed UPX projects not displaying correct Popup Window position in Workspace Tree after being scaled/changed when doing a SaveAs to a different resolution.
- Fixed warning message displaying about PNG support when in SystemBuilder.
- Fixed Reserved KB joins are not displayed in properties dialog when properties are re-opened.
- Added information to help file about built-in, native fonts for TPMC, UPX & MT-1000.
- Added new font "Crestron mono for XM" to installation.
- Fixed Join 0 being reported as reserved to SystemBuilder for Hard Buttons.
- Fixed modified flag being incorrectly set when SystemBuilder deletes unused resources or compresses them.
- removed MT-1000 driver installation. Will now be installed by Crestron Toolbox.

### **version 3.7.2.2**

- Fixed Error join for dynamic graphics on Image objects not working.
- Fixed crash when changing "Theme Style" from within Text Properties dialog.
- Fixed Pad Area initialization/compilation (reported as "Touch The PC" not working).
- Fixed scroll bars always being visible for panel pages in Windows Vista.
- Fixed Transition Effect being available to objects that do not support it.
- Fixed File Memory Usage not working for APAD & AES panels.
- Fixed issue in folder mode where a "<Main Page>" is copied or moved to the root without changing the name, making it a nameless page.
- Fixed creation of duplicate Wallmount Release Popup Windows after SaveAs TPMC-8X.
- Support added for upcoming changes in new version of Crestron Toolbox.

### **version 3.7.2.1**

- Fixed crash in Hard Button Manager when used in SystemBuilder and closed before operation is complete.
- Disabled "Delete Projects" feature when within SystemBuilder. Deleting the interface project causes problems for SystemBuilder and may crash VTPro-e.

### **version 3.7.2.0**

- Fixed crash when creating a new mode for Slider objects.
- Fixed TPMC-10 "Display List is too large" loading issue.
- Fixed duplicate System Bar page issue in SystemBuilder.
- Fixed autosave issue in SystemBuilder.
- When loading a VTP project file that was saved from a previous version of VTPro-e, a backup copy of the original file is made since any saves will update the file to the current version.

### **version 3.7.1.9**

- Reversed change for SystemBuilder that caused Subpage Refs to always become visible.
- Fixed Subpage Refs disappearing from Workspace Tree when source Subpage missing.
- Added TPMC-8X-DSW popup window support.

### **version 3.7.1.8**

- Fixed Hard Button Manager not preserving join assignments when moving between pages.
- Fixed TPMC-8L not using built-in fonts when compiled.
- Internal changes to support SystemBuilder.

#### **version 3.7.1.5 - 3.7.1.7**

- Fixed crash when creating new theme in Theme Library dialog.
- Rebuilt CMVPT32.DLL to no longer require CMCTRLS.DLL (was preventing older versions of VTPro-e from running)
- Fixed crashes after several SystemBuilder projects are compiled.
- Fixed Hard Button Manager showing joins when none are set.
- Fixed video object for older TPS panels.
- Fixed crash when using MT-1000c object Properties dialog and Join Manager at same time.
- Fixed stand-alone VTPro-e being able to be launched while SystemBuilder is using it in embedded mode.
- Fixed various issues with SystemBuilder.

#### **version 3.7.1.4**

- Fixed issue with Legend objects on the AMS front panel and APAD displaying both the inactive and active text when no join is assigned.
- Fixed Video objects not displaying QM video signals.
- Fixed crash when compiling TPS and DVPHD projects (introduced in 3.7.1.3).

#### **version 3.7.1.3**

- Fixed crash when copying or pasting an object mode.
- Fixed problem with loading projects to TPMC panels if the default sound file is missing.
- Fixed incomplete text size warning message (originally reported for APAD).
- Removed extra font height check that was added in 3.7.0.7 since TPS firmware has been fixed.
- Fixed crash within SystemBuilder after replacing project with a TPMC-8X panel.

#### **version 3.7.1.1**

- Fixed extremely slow saves when saving SystemBuilder XPanel template files.
- Fixed memory leak when accessing VTZ & ZIP files.

#### **version 3.7.1.0**

- Fixed crash when Embedded Application Preview is enabled on a Subpage or Popup Window. This is not a valid feature and will no longer be allowed.
- Fixed crash when starting Click Assign Graphic and selecting "both" option then clicking between "active" and "inactive" buttons.
- Fixed crash if a user-defined Popup Window is dragged to a panel that does not support the Popup Window feature.

#### **version 3.7.0.9**



- Fixed old-style Anti-Aliased font files becoming slightly larger in size when compiled using version 3.7 (they should be the same as when compiled using v3.6).
- New-style Anti-Aliased font files have been optimized and should now result in a smaller file size when compiled (possibly as much as 25% smaller).
- Fixed update of Preview placeholder when modifying Left and/or Top properties for Embedded Applications.
- Fixed crash when converting an MT-1000 project to an XPanel and the project contains theme styles for the Battery, Date, or RF Indicator objects.
- Fixed TPMC-8X Hard Buttons sending default join when the assigned join is "None". Will require Panel Firmware v1.00.00.41 or newer.
- Eliminated certain accelerator keys when running in embedded mode under SystemBuilder to avoid conflicts with SystemBuilder's functionality.

### **version 3.7.0.8**

- Fixed AES & APAD projects missing information at runtime when compiled using v3.7.0.7.
- Added internal functionality to support embedded mode within SystemBuilder.

### **version 3.7.0.7**

- Fixed possible crash when converting TPS-6000 project to TPS-12.
- When compiling, text size is now checked against object size using the max character height in the font instead of the actual text height. If the font height is too big for the object a compiler warning is displayed in the message log. This was necessary in order to warn about a possible issue in the latest TPS firmware that causes the panel to crash and continuously reboot.
- Added project-level Transparency support for TPS-6L.

### **version 3.7.0.6**

- Fixed problem with SystemBuilder generated projects missing assigned joins and failing to compile correctly.
- Fixed problem with TPS projects losing their remap file when recompiled.
- Fixed problem where a remap file, inserted by SIMPL Windows into a TPS project, can't be uploaded to the panel.

### **version 3.7.0.5**

- Changes made to application and installer to support Microsoft Windows Vista.
- Added support for DVPHD. (new Crestron Database required to enable)
- Added support for TPS-6L. (new Crestron Database required to enable)
- Added compile option to maintain Subpage Z-order on TPMC & UPX panels. (new Crestron Database required to enable)
- Added ability to maintain aspect ratio for dynamic graphics at runtime for TPMC panels.
- Added support for new embedded application, VNC Client, for TPMC-15/17/8X.
- Added Auto-Start flag to Internet Explorer Embedded App on TPMC panels.
- Added support for a new anti-alias font format for TPS & TPS-B panels. New fonts are now generated with more gray-scale information so will appear smoother (less jagged) on the panel. (requires appropriate panel firmware to support)
- Added new Template Data editing features.

- Report Generator has been completely redone.
- Fixed MJPEG viewer properties not setting IP join correctly.
- Fixed position and size changes being lost when switching between active & inactive states.
- Fixed Left & Top values in Widget properties not being correctly disabled when setting an Analog Join to control the Widget's position.
- Fixed incorrect hex file generation when D3pro changes an ML-600 RFID to a new RFID.
- Fixed Rename dialog still allowing invalid characters.
- Fixed Undo after a folder is renamed.
- Fixed Search feature so that search by page name is no longer case sensitive.
- Fixed logic file issues for ST-1700C.
- Fixed Join Manager not showing joins correctly when they are used for Hard Buttons.
- Fixed Graphic not changing when a theme which has an updated version of that graphic is applied.
- Fixed possible crash when copying a corrupt theme style.
- Fixed a typo in RGB video properties dialog.

### **version 3.6.1.8**

- Added ability to reassign joins for hard buttons on the MT-1000 panel.

### **version 3.6.1.7**

- Fixed problem with Clear All Joins & Clear Serial Joins causing objects to lose any assigned graphic. This issue only occurred in projects using panel types that supported Dynamic Graphics.
- Fixed crash when compiling very large projects. (Originally reported as a TPS-GA-TPI issue)
- Added support for Sirius in AES Built-in template. This was previously available as an external patch.
- Cleaned up and corrected TOC issues in new help file.

### **version 3.6.1.6**

- Fixed Installer problem in 3.6.1.5 installing the wrong exe file.

### **version 3.6.1.5**

- Fixed MJPEG Viewer problem with default data when a join is assigned.
- Fixed corrupted menu text on ML-500/600 after page flip.
- Fixed problem with some Bleed colors not working with BMP files on TPMC-8X.
- Fixed Digital Gauge always showing as black on CT-1000.
- Optimized Copy & Paste when building projects within SystemBuilder.
- Fixed problem with join action that would sometimes cause SystemBuilder to hang.
- Fixed Paste Special offsetting joins that are set to None.
- Fixed Paste Special adjusting Mode joins using the digital offset instead of the analog.
- Fixed VT-4000 missing from New Project and Save As lists.
- Fixed Theme Style preview issue with TPS-1700.
- Fixed updated theme files being overwritten by old theme backup files, causing changes to be lost.
- Fixed PNG file issues in Theme Library and Theme Manager.
- Added ability to Click Assign different graphics to active and inactive states when "Both" option selected.

- Fixed Theme library/Manager "Save as/Export" adding style1 as default to all folders containing no styles.
- Fixed \*!\* indicator being incorrectly shown for buttons that have programming.
- Fixed Paste putting pages in the wrong spot.
- Fixed problems with copying Folders.
- Fixed "Always show folders" preference not changing open project.
- Fixed Click Assign Join not updating the "no action" indicator.
- Fixed child page showing duplicate join info when the parent folder is renamed.
- Fixed Object Search not clearing previously performed search.
- Fixed duplicate page names in Workspace Tree after folder deletion.
- Fixed not being able to rename page in a folder.
- Fixed Subpage References being lost when saving a TPS-4L project as a C2N-FT-TPS4.
- Fixed Rename Popup Window adding "Popup Windows" to name.
- Fixed problem with 2 System Bar pages after using "Replace With..." in SystemBuilder.
- Updated help file.

#### **version 3.6.1.4**

- Fixed not being able to set Video Source Join or Default Input on TPS B Panels.
- Added support for "Return" button as pageflip for MT-1000C.
- Fixed crash in TPS-4500 video properties dialog.
- Fixed problem when static text has same font as indirect text and project is set to use native font; the static and indirect text show garbage. This was reported as an issue with Japanese fonts.
- Fixed problem when entering very high join numbers in objects properties.
- Fixed loss of dither setting when copy/pasting Button/Gauge/Slider/Image objects on TPS-12 (or any panel type that supports "16 Bits" option for objects).
- Fixed Click Assign Transparent Color assigning for PNG images when not supported.
- Fixed incorrect default size for embedded apps in TPMC & UPX projects.
- Fixed Clear All Joins not clearing Page joins nor those used for Dynamic Graphics.
- Fixed Graphic width and height properties being set to 0 by default.
- Fixed Keep Aspect Ratio in Graphic properties not working as expected.
- Fixed Click Assign Graphic so "Both" is the default instead of "Inactive State".
- Fixed problem when attempting to load theme complains about resource linked to another project even though that resource is no longer used in project.
- Fixed being allowed to drag incompatible sound files to TPS15.
- Fixed Paste Special not incrementing digital join for Animation objects.
- Fixed "Redefine theme style" not updating theme style if the resource has same name as an already existing resource.
- Fixed being allowed to rename a folder to an existing name.
- Fixed rename not showing page name when the page's name contains parent folder name.
- Fixed folder shown in Workspace Tree when folder mode is not set.
- Fixed using Undo several times possibly crashing the application.
- Fixed page name showing duplicate join info after renaming parent folder.
- Fixed dragging subpage references in Workspace Tree no longer adjusting z-order.
- Added message when no matching objects found using Search feature.
- Change sort rules so that <Main Page> is the first page item in a folder.
- Added New Folder to the File menu.

- Fixed leading/trailing spaces being allowed in page names and possibly causing crash.
- Fixed Undo issues with Rename Folder.
- Fixed various problems when copying Folders.
- Fixed uniqueness check for user-defined Popup Window names.
- Fixed "Always Show Folders" in Application Preferences not changing all open projects.
- Fixed possible crash after delete & undo in Resource Manager.
- Fixed issues in Animation Logic Properties dialog when enabling/disabling items.
- Fixed issues in Subpage Logic Properties dialog when enabling/disabling items.
- Changed Click-Assign default to "First Unused "Greater Than Largest". This will only affect fresh installs since the last used setting is preserved in the INI file.
- Added "Object on Page" option to Search feature in Workspace Tree.

### **version 3.6.1.3**

- Fixed Hard Button Manager crashing when used through SystemBuilder.
- Fixed problem when building from SystemBuilder caused an infinite loop and hang.
- Fixed cloned slider not copying digital press join.
- Fixed slider retaining bar indicator type after being set to 2D, which only supports line.
- Fixed button graphic size in Themes becoming 0x0 for "normal" graphic mode.
- Fixed Paste Special not offsetting joins for dynamic graphics.
- Fixed not being able to reuse a deleted sound's join within Sound Manager.
- Fixed Click-Assign Graphic not assigning the dynamic graphic properties.
- Fixed rename allowing a folder to use same name as an already existing folder.
- Fixed deleted folders reappearing even after project is saved.
- Fixed page names being garbled in compiler/message log.
- Fixed upload prompt not displaying after compiling a TPMC-4X project.

### **version 3.6.1.2**

- Fixed compile problem with XPanel projects resulting in empty data file and thus causing XPanel to crash (Message Log displays "Compile size = -1" when this occurs).
- Fixed crash when right-clicking on folder marked as holding First page.
- Added a small optimization in compiler for TPMC & XPanel projects to speed things up.
- Added compile option to force use of OS fonts in order to better support international indirect text.
- Disabled Annotation join selection on Status Report tab of Project Properties for TPMC-8X projects since annotation is not currently supported.
- Fixed Page Properties and Hard Button Manager not in synch when changes are not saved.
- Fixed crash due to corrupted font file in Windows.
- Fixed crash when right-clicking on object after multiple selection using shift click.
- Fixed miscellaneous issues with Undo/Redo and folder operations.
- Removed 1st Page marker on folders until some issues can be resolved.
- Fixed 0 sometimes being reported as a reserved join to SystemBuilder.

### **version 3.6.1.1**

- Added IR support for ML-500/600 panels.
- Added error message when compiling a page, font, or image that results in a file with a name that is

too long.

- Add Project Level option to Hard Button Manager PageFlip list.
- Fixed crash when moving Subpages within folders.
- Fixed crash when right-clicking on the first of two duplicate folders in the Workspace Tree.
- Fixed being unable to paste pages into the desired folder.
- Fixed Subpageref with no source not showing on Workspace Tree.
- Fixed rename issue when page name contains parent folder name.
- Fixed issue when renaming pages moves the pages to the root and renames the folder.
- Fixed Hard Button issues when converting a project.
- Added Search feature to Workspace Tree to locate and highlight pages.

### **version 3.6.1.0**

- Add support for subpage Z-order for TPS-G/B panels.
- Fixed compiler issue for certain APAD & AES projects that prevented panel loading.
- Fixed Hard Button Manager not preserving page flips & template data.
- Fixed Hard Button Manager not responding after setting the join.
- Fixed Hard Button Manager so that join list should reflect current join.
- Fixed problem with auto join selection displaying "Out of digital joins" when not true.
- Fixed problem displaying RF ID for MT-1000 panel after changing it to 20 or greater and then changing to IR.
- Fixed MT-1000 specific toolbar buttons being enabled at the same time after the Date object is used.
- Fixed Video serial join not being preserved after closing the properties dialog for a TPS-G-TPI.
- No longer allowed to use leading/trailing spaces when naming pages.
- Fixed Copy/Paste & Create Popup allowing a page name with invalid characters.
- Fixed Copy allowing a page with the same name as another page.
- Fixed Folders being shown in Workspace Tree when "Show Folders" is not checked.
- Fixed names not being checked for uniqueness for Popup Windows.
- Fixed problem moving subpageref to a folder and the reference does not show the folder location.

### **version 3.6.0.9**

- Fixed problem with cancelling a project compile causing subsequent compiles to be incomplete.
- Fixed missing Subpage graphics when generating projects from SystemBuilder.
- Fixed grid settings being disabled for AES page properties.
- Fixed crash when opening TPMC-8X Project Properties dialog.
- Fixed crash during APAD compile for certain SystemBuilder projects.
- Fixed being unable to open Toolbox address book after AES compile.
- Removed Media Marker from TPMC-8X since it does not support annotation.
- Removed subpage transitional effects for TPMC-8X.
- TPMC-8X/15/17 & UPX can now configure Keyboard Embedded App width and height.
- Changed default size for Keyboard Embedded App in a TPMC-8X project.
- Fixed Popup preview tooltip window not showing correct "show/hide" join information.
- Fixed Popup preview tooltip window showing "sub page reference" instead of "popup"
- Added two new graphic sizing modes: "Crop" and "Fit Button to Graphic".
- Added Click-Assign Graphics feature.

- Fixed "Compress" graphic option to only display for supported image types.
- Fixed Sort by Join Number in Workspace Tree.
- Fixed GDI resource leak when "Open All Pages" is used.
- Fixed "Always Show Folders" in Application Preferences to update any open projects.
- Fixed Folders being shown in Project when "Show Folders" is not checked.
- Fixed being unable to move a folder to root level.
- Fixed message dialog text showing SystemBuilder when it should be D3 Pro.
- Added a warning message about firmware versions for the TPMC-15/17 when using international static text.

### **version 3.6.0.8**

- Added TPMC-8X support.
- Fixed problem when doing a Save As to the same file name and compiler still prompting to save project again.
- Fixed graphic resource import displaying "already exists" error message for new graphics.
- Fixed cloned object not preserving description or template data
- Fixed bleed color not showing transparent after uploading to panels.
- Fixed conversion of a TPS-12 project to a TPS-G-TPI resulting in incorrect page size.
- Fixed preview not showing changed object style in Theme Manager for MT-1000.

### **version 3.6.0.2 - 3.6.0.7**

- Fixed Shadow appearing rectangular for oval objects in certain TPMC panel modes.
- Fixed major GDI object handle leak when dragging & dropping pages/subpages within the Workspace Tree.
- Added Folder feature support.
- Added ability to drag & drop pages on to Button objects for setting page flip.
- Added Hard Button Manager tool.
- Added Yahoo Widget support.
- Added Skype support.

### **version 3.5.1.7**

- Fixed memory leak when displaying graphic images that use bleed color.
- Fixed TPMC-4X System Bar: Crestron logo button had incorrect analog join for mode.
- Fixed TPMC-4X System Bar: Adjusted position of lightning bolt so it displays properly.
- Fixed naming issues when saving an ML-500 project as an ML-600.
- Fixed Text Alignment setting not sticking for APAD projects.
- Fixed problem uploading projects to an APAD using Upload Project menu option.

### **version 3.5.1.6**

- Added TPMC-4X support (requires appropriate Crestron Database to enable).
- Fixed Button objects designated as momentary remaining in active state once pressed.
- Added Template Data field to Animation objects.
- Animation objects are now supported for ST-1700C and ST-1700CIR projects.

- Fixed crash caused by corrupted theme resources after PNG graphics files were added using Theme Manager.
- Transparent/Bleed color may be adjusted to match current project's display ability. This is to correct projects that were saved using version 3.4.2.9 where it incorrectly assumed the display used 24-bit color.

### **version 3.5.1.5**

- Fixed project not being marked as modified when using auto-join feature in SystemBuilder.
- Fixed crash when adding pages to some APAD projects.
- Fixed crash when dragging from Draw Toolbar onto an open page.
- Fixed MJPEG Viewer property page only allowing numbers to be entered in the HTTP Command field.
- Fixed MJPEG Viewer property page to disable fields when joins are assigned.
- Fixed MT-1000 Battery and RF objects being allowed to be copied to other panel types.

### **version 3.5.1.4**

- Fixed "does not support Subpage Reference" warning being incorrectly displayed when compiling. (this problem was introduced in the previous version, 3.5.1.3)
- Fixed Clear All Joins operations causing project workspace to lose all items.

### **version 3.5.1.3**

- Fixed Open Resource dialog displaying behind SystemBuilder Application.
- Fixed crash when accessing video object properties on VT-3500.
- Fixed compiler incorrectly warning that the TPMC-10 does not support embedded apps.
- Fixed TPS-12/15/17 Composite Video Object so the assigned digital join is now placed in its accompanying Legend object.
- Fixed compile option "show tool tips at run time" being exposed for other panels when it should only be available for XPanel, UPX, and TPMC-10/12/15/17 projects.
- Fixed ML-500/600 panels allowing theme creation even though they don't support themes.
- Fixed problem when exporting layout image and SystemBuilder displayed no image.
- Fixed some minor issues with Embedded Apps properties dialog for UPX panels.

### **version 3.5.1.2**

- Fixed APAD programs displaying odd text when compiled from SystemBuilder.
- Modified Embedded App properties for UPX and TPMC-15/17 to eliminate "Disable Minimize" option. It will now always be set to disabled by compiler.
- Changed "Target:" label in Embedded App properties to "File:" to avoid confusion.
- Fixed errors in logic.vtlogic file for ST1700 & ST1700CIR.

### **version 3.5.1.1**

- Fixed Page resize when changing resolution in Project properties for UPX panels.
- Fixed MT-500 allowing "Return" page flip when converting from another panel type.
- Fixed Page Flip reference not working due to case-sensitivity.

- Fixed Subpageref duplication in Workspace Tree after closing a page without saving changes.
- Fixed Workspace Tree not being refreshed after Clear Join Numbers operation.
- Added additional context-sensitive links for panel & project topics in help.
- Fixed analog and serial joins not being assignable when within same range of locked digital joins.
- Fixed Click-Assign Face/Frame/Text Colors to show "XOR" option for APAD.
- Fixed Workspace Tree losing items after deleting a page or reloading the project.

#### version 3.5.1.0

- Fixed problem with transparency for 8-bit graphics on TPS-12.
- Fixed corruption of compiled MT-500C projects.
- Fixed crash when compiling TPMC-17 panels that use Japanese fonts.
- Optimized compiler to increase speed when compiling UPX panels with signed analog joins.

#### version 3.5.0.9

- Fixed copied page not being resized when converting to target project.
- Fixed Sound object returning garbage join information through COM interface causing SimplWindows to hang.

#### version 3.5.0.8

- Fixed crash when compiling an object with text that is all spaces.
- Fixed being unable to un-assign (set to none) a Join number for a page in an APAD panel project.
- Fixed Gauge with horizontal line indicator type appearing as vertical line indicator type on the APAD.
- Fixed default graphic being rendered outside the object boundary when set to use dynamic graphics.
- Fixed Signed Feedback setting being cleared on gauge when touchpanel is built using SystemBuilder Templates.
- Fixed problem when changing sort order in workspace tree would only change first project.
- Fixed local KB joins still showing as used in Join Manager after converting project from TPS-15 to TPMC-17.

#### version 3.5.0.7

- Fixed Home icon in SystemBuilder projects no longer displayed as centered within the button.
- Fixed "Upload..." in Options->Preferences menu not displaying dialog.
- Fixed Video window serial join not persisting after closing the properties dialog.
- Fixed problem where Reserved Joins are unable to be assigned for UPX2-1GB and UPX2-MSO.
- Fixed loss of Indirect Text join when cloning a Slider.
- Fixed graphic size being reset when cloning a Button.
- Fixed Cloning a Subpage reference not preserving serial offset.
- Fixed "Suppress Don't Compile Warnings" option so it correctly suppresses when checked, not unchecked.

#### version 3.5.0.6

- Fixed tiled images not rendering correctly for TPMC-10 panel.



- Fixed TPS-15 panel Video object not working.
- Moved "Suppress warnings when marking pages as "Don't Compile" check box from Page properties dialog to Application Preferences since it is a global setting.

#### **version 3.5.0.5**

- Added ability to launch Crestron Toolbox from within VTPro-e.
- Subpagerefs with no source Subpage now generate compile errors.
- Fixed problems with SystemBuilder iMedia project where items on a Subpage are removed and Subpage resized.
- Fixed local logic join control for Animation objects.
- Fixed crash when attempting to open a corrupt ML-500 project.
- Fixed hourglass cursor not appearing when doing long paste operations.
- Fixed Sort by Page Type sorting like-types in a case-sensitive way.
- Workspace tree now reflects which Page is currently being viewed.
- Fixed crash when displaying page properties for an AES panel project from SystemBuilder.
- Fixed "Theme None doesn't exist!" message being displayed when run from SystemBuilder.
- Fixed Click-Assign Page Flip being incorrectly disabled for CT-1000.
- Fixed Auto button not being correctly disabled when setting a reserved serial join.

#### **version 3.5.0.4**

- Found issue with GDI memory leak on Windows XP SP2. See "Known Bugs/Issues" below for more information.
- Fixed crash when compiling a TPS-12/15/17 project and using both Text fringe and multiple modes.
- Fixed inability to display text on an APAD gauge.
- Fixed local subpage logic behavior so that it doesn't affect the states of buttons that drive subpage references. Only the subpage reference behavior is affected.
- Fixed local logic for Animation objects to match change for subpage logic.
- Fixed crash when using Undo after changing APAD page properties.
- Fixed Transparent color on analog gauges for APAD.
- Fixed object context menu not showing multi-mode options for APAD.
- Fixed Auto Join not work with Hard Keys for APAD.
- Fixed object tool tips not always displaying for APAD projects when page zoom is anything other than 1x.
- Fixed TPS-17 Video window frame contrast being modified after the object is cloned.
- Fixed crash after selecting "All properties" in an object theme style.
- Changed subpageref objects to not draw subpage name if there is not enough room.
- Fixed renamed subpage not showing up in subpageref list.
- Fixed problem where deleting a subpage puts the mouse cursor in a state where it will keep snapping to the view window. This was also causing memory leaks.
- Fixed memory leak when attempting to open the source subpage on a subpageref that has source subpage.
- Fixed new subpage with same name as a deleted one not getting its references.
- Fixed new subpage being listed at top of tree instead of obeying current sort order.
- Fixed Alpha sort in workspace tree so that it is case insensitive.
- Fixed deleted subpages only updating first subpageref in workspace tree.

- Fixed crash when showing AES page properties through SystemBuilder.
- Fixed errors being shown when creating brand new TPMC-10 projects.
- Fixed "Theme None doesn't exist!" message box shown in SystemBuilder.
- Added a subpageref icon to show when there is no source subpage.
- Fixed subpage transition effects for translucent subpages in XPanel run-time.
- Fixed problem in XPanel where controls on bottom of subpage are sometimes rendered on the top.
- XPanel now supports dynamic graphics.
- XPanel-HPC and XPanel-PPC have been upgraded to Microsoft Windows CE 4. See "Known Bugs/Issues" below for more information.

### **version 3.5.0.3**

- 
- Fixed background image on a page not displaying at design-time when set to Tiled.
- Changed compiler so that when indirect text is used in the project, the full font is always built (was previous controlled by the Build Full Font option).
- Fixed crash when more than 30 pages are open and project is closed from right-click menu in the project workspace tree.
- Added source select to design tab in Video object properties for TPS-12/15/17.
- Added Template Data field to Image object data.
- Changed default font size for APAD and AES panel type objects to size 8.
- Fixed fatal error when attempting to assign a join to scrolling text in a Legend object.
- Fixed Images appearing outside Button object boundary.
- Added support for Soft key settings on each page for APAD and AES panels.
- Fixed crash when opening project in a lower version of VTPro-e than was used to create it.
- Fixed some dialog flickering when performing copy and paste operations.
- Fixed slow response when loading project and doing copy & paste between projects.
- Fixed slow response when closing a page view window.
- Added Close and Clear commands to the context menu of the compile log window.
- Fixed selected object anchors when zoom is set to 4x to make them easier to grab.
- Changed Copy&Paste operation so that warning messages are now directed to the Compile Log window instead of displaying a dialog window for each one.
- Added ability to double-click on an error in the Compile Log and have the page with the problem displayed.
- Custom color palettes defined in the color selection dialog are now saved with the project.
- Fixed Textbox cursor in Properties dialog jumping to top when entering text.

### **version 3.5.0.0**

- 
- preliminary Adagio product line support.
- Fixed being unable to delete an object if serial join 1 is locked.
- Fixed Properties dialog accepting a mode join that is locked without warning.
- Fixed Page Zoom being reset to 1x when a page is pasted into the project.
- Fixed GetTheme() returning an empty string to SystemBuilder.
- Fixed Workspace not updating the display correctly.

### **version 3.4.3.6**

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- Fixed background image graphic being drawn incorrectly when tiled.
- Fixed prevention of Dither & Transparency color being set for all graphic types. Should be just JPEG.
- Fixed deselecting dithering still showing warning message.
- Fixed ML-500 RFID setting not saved.
- Fixed Text objects not showing "Feedback and Logic..." in right-click menu.
- Fixed problem with some graphics not displaying at design-time for TPS-15.
- Fixed offset value still being set when scrolling text is disabled.
- Fixed graphics and indicator graphics for TPS-12 projects appearing as yellow at design-time.
- Fixed conversion from XPANEL to TPMC-15/17 adding a system bar when it shouldn't.
- Fixed subpage marked as "Don't Compile" preventing panel from loading.
- Fixed problem renaming ML-500 group in SystemBuilder blanking Page 2 labels.
- Fixed Sound Manager not updating joins when changed from within Join Manager
- Fixed join map showing sound joins for all right clicks on all joins.
- Fixed selected object in view window so it now always shows selection anchors.
- Fixed Subpagerefs disappearing after renaming a Subpage.
- Fixed crash when adding additional tuners from within SystemBuilder.
- Improved 18-bit dithering for TPS-12 and TPS-12G panels.
- Fixed Gauge/Slider Indicator Graphic not obeying transparent bleed color in XPanel run-time.
- XPanel run-time application name now comes after the project name on the window title bar.
- Fixed reconnection mechanism in XPanel run-time not resetting internal TCP2UDP buffer.
- Disabled Simulation check box in Compile properties for ST-1700 since it does not support simulation mode.
- Fixed Delete Remap File always being disabled in File menu.
- Fixed GetReturnJoinNumber() not working for Wizard mode (i.e. SystemBuilder).
- Fixed "Preview Emb. Apps" not working correctly when right-clicking from the Workspace tree.
- 16 bit dithering and transparent background can no longer be used at the same time for JPEG images. Dithering a JPEG image prevents the bleed color from working correctly.
- Fixed Anti-Aliased Native Fonts on UPX and TPMC-15/17 not generating a font file.
- Fixed MT-500 compile showing warnings for non-existent object.
- Fixed ML-500 not saving page flips if group 1 then group 6 edited but not groups 2 through 5.
- Fixed crash when compiling if filename and/or path are too long.
- Video Source is now disabled if there is analog join assigned for that video window.
- Fixed ST-1700/STX-1700 Hardkey.vtpage stopping joins 1-10 from working.
- Fixed problem with hard button 10 failing to work on ST-1700 panels.
- Real Player has been enabled as an embedded application for UPX-2\_1GB.
- The "Build Full Font" is now available for UPX and TPMC panels.
- Added "Click Edit Text" tool to allow entry of join numbers directly on objects.
- Added Paste Special feature to adjust joins when objects are pasted.
- Added Automation function to get Theme details.
- Added "Sort by Join Number" option to Workspace View.
- Fixed "Sort by Z Order" losing subpagerefs.
- Fixed Workspace View alphabetical sorting, was using join number text as part of name.
- Fixed Depth change causing duplicate tree items and crashing.
- Fixed problems converting TPS-12 to a TPMC-10 project.
- Fixed TPS-17 failing to open or save through SystemBuilder.

- Fixed conversion to MT-1000 not removing page joins.
- Fixed PNG warnings appearing twice when converting TPS-12 to TPS-15.
- Fixed Clear buttons in Web Properties tab not persisting cleared values.
- Increased size of droplist for reserved join combo box in property dialog.
- New objects should now have a default serial join of 0 (None) instead of 1.
- Default join is now None when Indirect Text enabled in object property dialogs.
- Embedded Apps can now be locked similar to the way Pages are.
- Popup Windows can now be locked just like normal Pages.
- Fixed Ctrl-P still allowing access to a locked Subpage.
- Delete and Replace are now disabled for images and sounds when project is protected.
- Fixed "Open Referring Page" in Resource View was opening locked pages.
- Can no longer drag & drop Subpages or subpagerefs onto a locked page.
- Fixed Subpage background color in Project Properties dialog always reverting back to Transparent instead of the previous setting.
- Subpageref properties are no longer available if parent page locked.
- Fixed Subpage Properties being available when Subpage is locked.
- Fixed Resize check box enabling itself for media player properties.
- Annotation properties now use "Notebook" & "Gallery" as Display Mode names.
- Embedded Application properties now use "Full" & "Minimal" as Display Mode names.
- Fixed TPMC-10 enabling join control inappropriately in Embedded Application properties.
- Fixed Pos/Size controls being enabled inappropriately in Embedded Application properties.
- Inbox, Media Player, & Real Player Embedded Applications now support Default Path.
- Minor fixes to protected join handling in Embedded Application Properties.
- Added more information to internal error message for SystemBuilder.
- Fixed problem when replacing a graphic resource with another file that has the same name or the same file after it has been updated externally.
- Fixed missing image on Hard Keys tab of Project Properties.
- Fixed two-color image with transparency not working for TPS-G/B panels.
- Fixed incorrect display and spacing of Chinese characters when certain font styles are used and text style is Aliased.
- Removed Network Problems Popup Time from Status tab of Project Properties. It is no longer user-definable.
- Fixed hard button join assignment when recompiling an ST-1700 or STX-1700 project that was created with an older version of VTPro-e.
- Fixed Annotation Properties showing symbols for font name.
- Fixed shortcut for quick-copy (clicking while holding the CTRL key) not copying the object's Description info.
- Fixed cursor keys not working in Project tree.
- Fixed Undo after Click-Assign Text Style turning Text Fringe on.
- Fixed Project Tree view sometimes jumping to a different location after scrolling a long list of pages and then attempting to select an item from the list.
- Fixed Theme Layout Description edit box always being disabled.
- Fixed Theme Layout preview image not being saved in the THM file.
- Added an "OK to write" check for THM files in case they are set to Read-Only.
- Added a "Clear Image" button remove the selected Layout image from the THM file.
- Added the ability to preview the Layout image in its original size for better viewing analysis.
- The Help Menu now includes a link to open the VTPro-e release notes.

- The Internal Keyboard option is no longer available for panels that do not support serial joins (i.e. ST-1700C).
- Removed digital join for RGB/Video at object level for TPMC-15/17 and UPX.
- Fixed crash when saving a project that has a page with the Page Preview flag set.
- Fixed major memory leak in project Save and Auto-Save when project has graphic bitmap resources.
- Fixed memory leak when using background image in TPS-12 B/G projects.
- Fixed crash when converting an MT-500C project.
- Fixed crash when both a serial join and default path are assigned to an Embedded App in UPX panels.
- Default Path for Embedded Apps is disabled for TMPC-10 since it doesn't apply.
- Fixed Bleed Color for TPMC-10 (design-time issue only).
- XPanel-Web should no longer require the control processor being a Trusted Site after the MS05-052 (KB896688) security update for Internet Explorer is installed.
- Fixed XPanel run-time Gauge and Slider objects drawing Indicator Graphic over frame when Inner Edge was specified.
- Fixed loss of transparency when converting a 24 bit or higher graphic on a TPS panel to a TPS-12 panel.
- Fixed Touch/Pad on TMPC-17/15 panels so that RGB object is enabled on the design tab.
- Fixed RGB objects not showing video.
- Fixed spelling errors in names of dither types.
- Fixed TPS Keyboard reserved join showing lower case description when upper case is really being used.
- Fixed Pad area serial joins not showing as used in Join Manager.
- Fixed crash after renaming device name for an ML-500 and saving and reopening the project.
- Fixed "Tiled" image appearing as stretched to fit when uploaded to a TPS-12.
- Removed new firmware warning message for TPS-12/15/17 and TPS-12G/15G/G-TPI since it does not apply.
- Fixed Help file description about text word wrap for MT-1000C.
- Changed Click Assign Join dialog text from "apply to all" to "don't show again".
- Fixed Video and RGB video objects so that default source is disabled once an analog join is assigned.
- Adagio projects will no longer allow entry of invalid joins.
- Fixed Resource View allowing multiple graphics with same name.
- Fixed Theme Library folder setting getting overwritten.
- Fixed Sample Layout feature in Themes so that it actually works now.
- Fixed problem opening a project after a previous open operation was cancelled.
- Fixed button objects losing rounded edges at random.
- Fixed problem when applying a theme after previously being set to None.
- Fixed multi-select in workspace tree view.
- Fixed Theme Manager/Library preview graphic showing the wrong colors.
- Fixed Button graphic in properties dialog updating incorrectly.
- Fixed display code for Hex Gauge in XPanel-HPC & XPanel-PPC run-times.
- Default position is disabled if there is Analog join for Popup Windows & Embedded apps.
- Transparent flag is only shown for PNG images for MT-1000C.
- Fixed automation interface.
- Fixed video window source being reset to RGB1.

- Fixed Animation object digital join was not transmitted to control system.
- Fixed video text color incorrect when displayed in hex gauge.
- Fixed major memory leak when left idle with a loaded project for long periods of time.
- Fixed PNG Warning option checkbox getting cleared when browsing a folder.
- Fixed crash when saving a TMPC project that uses dynamic graphics as a UPX project.
- Fixed problem of Workspace tree items expanding after renaming a page.
- Fixed problem with grab handles for an image object not working when "preserve aspect ratio" enabled.
- Fixed Animation object not retaining aspect ratio when converted.
- Fixed object tool not working the first time used after a new page is created.
- Fixed ML-500 project losing pages and data.
- Fixed State/Scroll Join Click Assign dialog only showing analog joins 1-999.
- Fixed crash when right-click then drag object outside of page.
- Converting a project with dynamic graphic to XPanel now displays warnings.
- Fixed crash when setting SmartTouch logic on one-way panels.
- Fixed Japanese fonts.
- Fixed crash when adding a sound file.
- Fixed various Help file links.
- Can no longer open a locked Subpage by selecting "Open Source Subpage" on the Subpageref.
- Fixed crash in XPanel run-time text drawing code.
- Fixed various problems with international font support in XPanel run-time.
- Fixed Theme Library folder setting getting overwritten in INI file.
- Fixed multiple projects showing highlighted selection when only one item was really selected.
- Fixed PNG warning dialog displaying when it shouldn't have.
- Fixed Theme manager/library graphic preview shows no graphic.
- Fixed Theme manager/library graphic preview shows wrong colors.
- Fixed cloned Video/RGB window changing frame style.
- Fixed MT-100 theme using invalid default dimensions for Page settings.
- Added <TemplateData> to project document XML.
- Fixed error when saving a TPS4 as ML-500.
- Fixed MT-1000 project moving object after attempt to clone it is refused.
- Fixed ML-500 page flips not being correct after removing other than last group page.
- Fixed Stop feature in Sound Manager.
- Fixed Undo not working for Web page in XPanel project properties.
- Fixed Simulation Compile option not being available for STX-1700.
- Removed "show startup screen" option from Application preferences dialog.
- Fixed Click Assign Join option.
- Removed unnecessary radio button on indirect text properties.
- Fixed CTRL+Z and CTRL+Y (Undo & Redo) when deleting pages from project tree.
- Fixed dynamic graphics properties will no longer accept negative numbers for refresh time.
- Fixed Popup Window using the same name when created.
- Fixed Popup Window context menu doesn't have option to "not compile".
- Fixed Page flip effects are not available for hard buttons on MT-1000.
- Added PNG image support for MT-1000C.
- Fixed validation checking to allow typing join values that start with protected values. Validation check is now done when OK is clicked.

- Fixed various issues with Japanese font support.
- Fixed various memory and GDI leaks.
- Fixed XPanel Animation control to prevent backlog of Analog messages.
- Fixed XPanel memory leak when drawing elliptical and obround buttons.
- Fixed Theme library folder keeps getting overwritten.
- Fixed Theme folder path, now easier to set
- Fixed INI file storing graphic filename in Folders section instead of just folder path.
- Added support for IR on MT-1000C.
- Fixed automation function GetThemes().
- Fixed Word wrap did not work for International fonts.
- Fixed XPanel-Web project not creating a <project>.html file when compiled.
- Added automation function to get the reserved join name.
- Fixed XPanel, UPX, and UTP panels only exporting one image file if the button has the same image but at a different size.
- Create Popup Window is now available from the pull-down menu.
- Can now assign join numbers to hard buttons.
- Fixed Live Update should not run when VTPro launched via automation.
- Fixed windows moving to upper left corner after closing Properties dialog.
- CTRL-N and CTRL-O accelerator keys should no longer function when VTPro-e is used through SystemBuilder.
- Fixed Compiler Warning for Unsupported Objects.
- Fixed crash when converting a project with sound to a project that does not support that type of the sound.
- Fixed crash when right-clicking a Video object from the Theme manger dialog.
- Fixed display of Popup default position on workspace tree.
- Fixed Hard key page flips not listed alphabetically.
- Added page flip effects for MT-1000C.
- Added support of page flips to MAIN1 or MAIN2 for ML-500 panels.
- Fixed PNG file handling. 64 bit color images and 8 bit grayscale + 8 bit alpha-channel images will now display with correct alpha translucency.
- Fixed sizing an Image object when “Keep Aspect Ratio” is set.
- Fixed crash when cloning Image objects
- Fixed crash when selecting an Elliptical Button.
- Fixed problem when double click on project made in earlier version, if you say no at warning message, sometimes project does not appear in tree
- Fixed problem when editing text for video window active state
- Fixed Button Object tooltip showing incorrect page flip
- Fixed context menu: RGB and Object Count were sometimes grayed out.
- Fixed compile problem when Project has a page named "aux..".
- Fixed problem where color selection dialog returns transparent instead of selected color.
- Fixed Image graphic not displaying correctly at design time
- Fixed 100% CPU usage when choosing a color in property dialogs.
- Ctrl-F4 no longer closes project when VTPro-e is run from SystemBuilder or D3 Pro.
- Fixed dynamic graphic did not update when changing to active state.
- Fixed cloning popup preview when it shouldn't have been allowed.
- Fixed default path for embedded apps.
- Resizing the media player does not work correctly so has been disabled.

- Removed resize option for keyboard in VTPro-e.
- Fixed 2D Sliders in XPanel were not correctly handling “None” as Indicator Type.
- XPanel now has full PNG support.
- Added ability to protect objects using the Project password protection mechanism. Objects are now locked if any of their assigned joins are in the range of locked joins.
- Fixed incorrect RGB value displayed when window is zoomed/scrolled.
- The RGB value is now displayed on the status bar when the mouse is over a page.
- Fixed background artifacts left when moving a window over one that is zoomed.
- Fixed Click-Assign Serial was assigning joins to Text objects on old panels.
- Fixed crash when referencing a Subpage that was deleted.
- Fixed crash with popup windows after converting a UPX project to TPMC-10.
- Fixed report of wrong Left and Top settings in the Project Tree.
- Fixed issue with Slider using an indicator graphic where transparent pixels would show as black.
- Fixed crash when viewing non-existent popup preview.
- Fixed Join number in Project Tree not updated when Copy/Paste Popup window.
- Fixed undocked toolbars show incorrect text in system menus.
- Fixed crash when using SaveAs but the original project did not have a VTZ file.
- Fixed crash when object text strings contain a carriage return with no accompanying linefeed character.
- Changed the Animation object to eliminate the 1 pixel gray border drawn around the frame images so design time now matches run time.
- Close All in the Window menu will now only close the currently open pages/subpages, not the Project as well.
- Show Join Numbers, now makes it happen for all pages at once.
- Fixed slowdown on initial load of project.
- Fixed 1-Bpp (2 color) PNG files can be displayed on non-PNG supporting panels.
- Dithering now enabled for PNG files on non-PNG supporting panels.
- Fixed Embedded App properties dialog / Analog open-close join.
- Fixed Do not allow Embedded App preview - copy/paste.
- Fixed on TPS-12, green shading appears around red indicator in vertical Slider.
- Fixed Popup properties - inconsistent property dialog.
- Fixed Embedded App preview - select then press ENTER would crash VTPro-e.
- Fixed crash when viewing non-existent popup preview.
- Fixed when popup is open in design time, context menu option to preview embedded app is available. Could not close Embedded app.
- Fixed debug mode not showing the complete join number; Ref #050719-000011.
- Fixed Netmeeting app property dialog | "File dialog" join - portions grayed out.
- Fixed Popup properties - remove "Show to display output" digital join.
- Fixed a bug when compiling for debug mode. The join numbers displayed on the TPS panel were dropping off the least significant value.
- Fixed Join Number Remap File not in Manifest file.
- The dialog warning about project files created with newer versions of VTPro-e will now display which "newer version" is required.
- Fixed Subpage reference gets lost when moved behind a second Subpage on that page.
- Added support for Dynamic Graphics on TMPC-15, TPMC-17, and UPX.
- Added PNG image file support.



**Note:** PNG image files will behave differently depending on whether or not the panel supports native rendering of PNGs. The way PNGs will behave on these two classes of panels are:

- 1 Panels with Native PNG Support (XPANEL\*, TPMC-15/17, UPX, TPMC-10): PNGs will be displayed with full translucency, both in VTPro-e and on the panel.
- 2 Panels without Native PNG Support: Since the Panel does not support rendering full translucency, the PNG behaves both in VTPro-e and on the panel like a Windows bitmap. Bitmap-like transparency, using a bleed color, is available, but otherwise the PNG is not rendered using it's translucency channel, and appears opaque.

\* = XPanel PC & Browser only, HPC & PPC do not support full translucency.

- Added GIF image file support.
- Add functionality for Multi-Monitor Virtual Screen/Desktop
- Fixed wrong file size being reported under the image properties dialog.
- Fixed TPMC15/17CH video window does not display at run-time.
- Fixed ML-500 softkeys not working correctly for group 15.
- Fixed Theme manager displaying strange colors for TPMC-15-CH when Crestron dithering activated.
- Fixed ML-500 label assignments lost when ESC key is pressed.
- Add support TPS-12, Tps-15 and TPS-17.
- Add support TPMC-15-QM, TMPC-15-CH, TMPC-15-CH and TPMC-17-CH.
- Add support TPS12/15G-QM.
- Add support UPX2-Plus.
- Add support favorites macro for ML-500.
- Add draw default Battery and RF indicator objects.
- Add support digital gauge for ST-1550C and ST1700C panels.
- Fixed when cloning object, dithering settings are not cloned to new object.
- Fixed VTPro-e failed to clear the active and inactive states on other buttons with the same style.
- Fixed crash in Traditional Chinese when font size is 48 and font is "Xi Ming Ti".
- Fixed MT-1000 RF toolbar button has no tool tip.
- Fixed Keyboard joins are not saved when project is saved as a TPS 4000L.
- Fixed "FileOpen" soft-crashes on multiple file selection
- Fixed Text style reset in theme manager when template saved as different panel type
- Fixed Redefining the page theme style and applying it to all objects also applies style to Subpage with same style name
- Fixed Analog Slider signed values overflowing on XPanel.
- Fixed Selected Subpage object doesn't reflect in the Tree Selection.
- Fixed "Subpage width can not be bigger than panel width." shown many times.
- Fixed crash when the user creates a button with less then 8x8 dimensions.
- Fixed the highlighted marking of selected objects sometimes appears in the wrong place when the window is scrolled down
- Fixed Intermittent crash when building SystemBuilder panels.
- Fixed Tab order in XPanel Web properties dialog is incorrect.
- Fixed tab order in many VTPro-e dialogs.
- Fixed XPanel Project Properties Aesthetic Issue.
- Add Warn user about creating new project as e-control 1 type.

- Fixed If page name is not in English, the panel will fail to load.
- Fixed crash when "Object Position is Off the Page" is displayed and user goes back to SystemBuilder.
- Fixed VTPro-e crashes when attempting to open a VTP file that is already in use.
- Fixed can't use click assign graphic transparent for slider/gauge indicator graphic.
- Fixed Page named AUX1, LPT1.... could not compile.
- Fixed if page background image and button image are identical and same size, only export one image file.
- Fixed inappropriate context sensitive help, Subpage reference properties dialog.
- Fixed Conversion from 8 to 16 bit for TPMC10 only modifies transparent color in first object using that graphic.
- Fixed MT-1000C does not support Sort page number anymore.
- Fixed crash if description field of Subpage ref has text for XPANEL.
- Fixed STX1700 project compiled in simulation mode gives blank IP address Warning.
- Fixed 2d-slider does not show indicator in design time if face color is transparent.
- Fixed Grid Size set to 1 seems to be wrong; color change and values show 12.
- Fixed Convert from UPX to TPMC-10, some elements do not resize.
- Fixed object with position/size lock can set dirty flag when moved or sized via keyboard.
- Fixed Page was commented out but no warning when compiled even though there was page flips for this page.
- Fixed Cloning multiple image objects at the same time / only one copy has graphic resource.
- Fixed Cloning slider, percent, or timer object loses signed feedback/touch setting.
- Fixed TPS-6000/TPI video and RGB window size/location joins.
- Fixed Cloned sub-page reference loses local logic settings.
- Fixed Convert from original panel to multi panel, object style changes from 3D to shadow.
- Fixed MT-1000 specific objects not included in theme.
- Fixed MT-1000 theme, open clock properties crash VTPro-e.
- Fixed Delete or Undo a new Subpage then right-click on Subpage ref would crash due to not checking for valid object. After converting a project to Browser, clicking on any remaining Subpage refs would also crash for the same reason.
- Fixed Auto-assign for digital joins would sometimes display an out of joins error even though there are still some available.
- Fixed Changing layout->depth on Subpage ref would cause duplicate items in project tree and select one would crash. Was caused by Undo logic incorrectly adding to tree.
- Fixed some click assign options available on tool bar when editing a VTT file.
- Graphic filename is not updated when switching from Inactive to Active.
- Fixed XPanel scrollbar handling to prevent redraw of scrollbars when they aren't currently displayed. This was causing the window borders to get corrupted.
- Fixed XPanel to eliminate resize flicker.
- Fixed XPanel problem introduced in last version (v1.4.0.6) with the reconnect code when hardware is not available. When XPanel was closing it would still try to reconnect to the hardware and sometimes enter a retry loop with no exit.
- Fixed XPanel support for Chinese & Japanese characters.
- Fixed XPanel clock objects were sometimes causing a crash in web version and a resource leak in other XPanel types.

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**version 3.3.4.0**

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- Fixed a bug that wipes out all the pages for ML-500 panel type.
- Fixed a bug that causes application crash when drawing animate object using the theme style in the Sample Theme.
- Create a file info file at UPX compilation time for validation of display list at run time.
- Fixed a bug so that after a project is converted from TPS to XPANEL the graphic transparent color can be retained.
- Added support to allow assign a digital join to open the file dialog box for embedded applications.
- Disable Video/Rgb object for popup windows.
- Added support for image with OS/2 BMP format for all touch panels.
- Fixed a bug so the pupup windows can be deleted.
- Enabled text for video/rgb active state for UPX and TPMC-10.
- Added support to allow replacing graphics with the same name.
- Added custom color picker support.
- Made SAVE AS available from both project and page levels.
- Added support to allow copy text from compile log and Help | About dialog.
- Added on-screen ruler tool.
- Added ability to drag/drop resources from Windows explorer into the resource manager.
- Show size in the sound dialog box.
- Added stop playing sound function.
- Added a built-in elapsed time clock.
- Made sure to assign the correct value to the FileAttribute | maxsize key in XPanel.ini file at compilation time.
- Resolved an issue that image couldn't be properly displayed at run time if dithering is set.
- Added simulation mode to TPMC-10 panel type.
- Fixed a bug so key-click can be set from sound dialog box.
- Added subpage reference local logic support for TPS panels (require firmware version 2.007 and later).
- Added animation local logic support for TPS panels (require firmware version 2.007 and later).
- Added connection status warning message support for XPANEL, UPX, and TPMC-10 panels.
- Introduced Popup Window object to UPX and TPMC-10 panel.
- Added support for third party applications for UPX and TPMC-10 panel.
- Added support to allow creating new project types for UPX and TPMC-10 panel.
- Added supports for MT-1000C panel.

### **version 3.2.1.8**

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- Only RF Id 0 was functional for ML-500
- Changed default RF Id to 0 for ML-500
- Changes were not saved for the ML-500 dialog boxes when using the keyboard's *ENTER*.
- When uploading to ML-500, extraneous dialog boxes were displayed.

### **version 3.2.1.7**

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- The Project/Resource window has been completely redesigned to improve project, page, and resource navigation for both sound and graphic files while adding complete Sub Page management.
- All text is now better handled if they cannot fit on the face of an object which may result in more

warnings when a project is compiled, but it is intended to provide more detailed information on how the project will be displayed on a panel, and remember any warning can always be ignored. Text can no longer be drawn over a frame and next TPS firmware release will follow this behavior, XPANEL version 1.3.1.8 or later does already follow this behavior. **(TPS and XPANEL only)**

- Text too large for an object is now clipped both horizontally and vertically. **(XPANEL only)** *(TPS firmware will follow this behavior upon next release)*
- Provided ability to enable/disable SYNAPSE at design time.
- Page flips for hard buttons were added under Project Properties. *(Crestron Database version 16.0.4 or later is required)* *(TPS-2000, TPS-3000, and ST/STX-1700C, requires firmware version 2.0 or later)* *(CT/LC-1000, requires firmare version 6.061 or later)*
- Resolved problem of modifying joins to zero when the target panel did not support them.
- Fixed issue regarding font characters greater than 128 at design time and for XPanel.
- All text will now be correctly within bounds to avoid text running outside of buttons, borders, etc.
- When copying pages to a TPS-TPI, page sizes would not match project settings.
- A compiler issue regarding Sliders would cause incomplete scrolling text information.
- An issue causing crashes when opening projects with Themes created in previous versions is resolved.
- Anti-aliased right justified text was being drawn in reverse. **(XPANEL only)**
- Certain behavior was causing a "Return" page flip to be tracked incorrectly. **(XPANEL only)**
- Project was not being correctly refreshed in certain Internet Explorer versions. **(XPANEL only)**
- Corrected issues regarding word wrap and other problems if text did not fit.
- When converting from XPANEL, DVP-4, and/or DVP4-DI, page sizes were wrong.
- Adding offset when *cloning* a new object.
- Added shortcut for saving a project CTRL+S and provided ability to save a project from a page window.
- Added upload prompt after errorless compile, which can be disable under *Options | Preferences | Application*.
- Changed Time to Timer.
- Fixed local logic when joins on sub pages were were also assigned to other joins if the sub pages were "offsetted".
- Digital Gauges will now be represented with a capital "X" in design time.
- Better clarified menu options for clearing joins on a project and/or a page.
- Added support to export multiple graphics simultaneously.
- Added description support for Themes.
- Improved Sub Page properties dialog box keyboard navigation.
- Added support to export sounds.
- Resolved some local logic issues.
- Fixed in issue with selecting desired dithering option for graphics.
- Sounds are now tracked in resource management.
- Graphics used for Sliders and Analog Gauges are now tracked in resource management.
- Text disappeared when word wrapped and aligned to the right.
- Resolved several anti-aliased font issues with "Syandscape" for design time.
- Resolved several anti-aliased font issues. **(XPANEL only)**
- Referenced incorrect output when compiling for *simulation* for a TPS project.
- Fixed an issue regarding a Clock with a negative offset.
- Indirect Text information was not copied correctly with other object properties.
- Indirect Text join is now drawn when enabled.

- Improved multi-monitor support for color pop-up dialogs.
- Corretly handle obtaining compile output file size for all touch panels including *simulation* mode.
- Resolved display issues when editing pages when zoomed.
- Fixed a *simulation* problem when simulating a TPS project with a Crestron Transport Font. **(TPS only)**
- Offset position of an image on a button was not correctly compiled. **(TPS only)**
- Correctly compile a single image source for a wallpaper to be tiled on one page and stretch to fit on another page. **(TPS and XPANEL only)**
- Fixed issue regarding spacing objects evenly across horizontally.
- Reserved join information was being lost after multiple copies.
- When search for digital joins via Join Manager, sub pages with transparent background were incorrectly ignored.
- A Pad Area is not supported by all TPS panels and is now presented when appropriate. *(Crestron Database version 16.1.1 or later is required)*
- Better compiler warning if compiled output display list is too large for destination panel. *(Crestron Database version 16.1.1 or later is required)*
- When converting between panels, with different screen sizes, page resize settings were not applied to all pages.
- Improved warnings if an image associated with an object is missing.
- Corrected problem when mutliple lines of indirect text were sent to be displayed using "\r" and/or "\n". **(XPANEL only)**
- Added feature to make project wide changes to all sub page references that have a common sub page source from a single sub page reference.
- Translucent text was being positioned incorrectly. **(XPANEL only)**
- Edit Bar now intelligently recognizes inactive/active state and sets properties accordingly.

### version 3.1.2.0

- Added support for the DVP-4DI.
- Word Wrap for Sliders was not being correctly set. **(TPS and XPANEL only)**
- Page window will now correctly maximize if possible avoiding unnecessary scroll bars.
- Added support for SYNAPSE, new and improved shapes and styles for all objects. **(DVP-4, DVP-4DI, TPS-2000/3000 and ST/STX-1700C only)** *(Please refer to the "SYNAPSE Overview" document for further details, requires firmware version 2.0 or later)*
- Added support for word wrapping for both domestic and international fonts. **(TPS and XPANEL only)**
- Resolved several theme issues including 16 bit dithering for background images.

### version 3.1.1.7

- Added support for e-control 2, XPANEL *PDA* for Windows CE 3.0 or later handheld devices and PocketPC 2002 devices, StrongARM processors only. **(XPANEL only)**
- Added DHCP and communication port reassignment support. **(XPANEL only)**
- Added 16 bit dithering support. **(TPS and XPANEL only)**
- Improved click assign features.
- Added support for SYNAPSE, new and improved shapes and styles for all objects. **(TPS-4500/5000/6000/TPI and XPANEL only)** *(Please refer to the "SYNAPSE Overview" document for further details, requires firmware version 2.0 or later)*

- New and improved font styles for all objects. (**TPS and XPANEL only**)
- Added support for signed objects. (**TPS and XPANEL only**)
- Added graphical support to Analog Gauges and Sliders. (**TPS and XPANEL only**)
- Improved graphic positioning and sizing. (**Original, TPS, and XPANEL only**)
- Added support for Additive/Exclusive sub pages. (**TPS and XPANEL only**)
- Added support for analog signed touch and feedback. (**TPS and XPANEL only**)
- Added hour and minute offsets for Clocks. (**TPS and XPANEL only**)
- Objects with multiple modes on Sub Page references were not updating correctly. (**XPanel only**)
- Made sure to embed the Crestron Transport font when used. (**XPanel only**)
- e-control Java Applets can now handle analog joins greater than 256. (**BROWSER only**)
- Project conversion property was being ignored when converting projects between panels.
- Shipping outdated Live Update module caused a crash during Live Update.

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**version 3.0.0.8**

- Added support for e-control 2, *XPANELWEB* and *XPANELEXE*.
- Added *Simulation* support. (**TPS and XPANEL only**)
- Added support for the MT-500C, *MiniTouch*.
- Removed Licensing support from VisionTools Pro-e.
- Improved Theme support by allowing choice of assigning/replacing graphics when invoked on a project.
- Added tooltip support for valuable design information for all objects.
- Enhanced support when converting projects and handling unsupported objects.
- Fixed several issues regarding building international fonts.(**ie. Chinese**)
- Fixed a conversion problem between original and multi-mode panels for Legends.
- Fixed an animation compilation issue.
- Fixed a problem saving Key Click.
- Enhanced Help support, F1 can now be pressed on any selected object.
- Added default momentary logic for the 10 hard buttons for a ST/STX-1700C.
- Corrected issue effecting compiling large projects with one way logic.
- Page names with the ' character were being disallowed.
- Allow Theme Library to point to user specified location.

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**version 2.4.1.8**

- Added support for the ST/STX-1700 touch panels.
- Improved page resize issues. (**DVP-4 only**)
- Resolved an issue when setting to hide/show object join numbers.
- Corrected a problem with Undo/Redo support for depth positioning. (**BROWSER project only**)
- Corrected spacing out objects evenly across a page.
- Fixed an issue that corrupted Theme files when transferring from one computer to another.
- Resolved a conversion issue for an Animation between panel and BROWSER projects.
- Added transparency support for graphics used in Themes.
- Corrected a problem when right clicking on a Theme capable object.
- Corrected a problem when deleting a Sequence group.
- Fixed a problem when compiling an active state with multiple modes for buttons. (**TPS panels only**)

- Resolved problems when working with *read-only* project files.
- Fixed a rare problem with a compilation issue concerning page flips.
- Fixed a long existing intermittent problem concerning exporting project graphic resources to disk.
- Fixed Theme issues concerning Video and RGB objects.
- Corrected a problem when previewing styles and shapes in Theme Library and Theme Manager.

#### version 2.4.1.6

- Fixed an issues concerning resizing sub pages appropriately when converting between panel projects.
- Fixed problem when reading project files from a read only media source such as a CD or DVD.
- A problem existed when *click assigning* join numbers greater than 1024.
- Improved Undo/Redo support for a Web Anchor. (**BROWSER project only**)
- Resolved an issue involving opening project files with names greater than 92 characters.
- Improved support for the latest Crestron Application Builder.
- Logic enabled panels were losing sequence information when a page was clicked during logic assignment.
- Resolved an issue regarding Analog Gauges when deleting multi-mode information for its property dialog box and canceling out of the property dialog box.
- Active state information for Video and RGB objects was not being saved. (**TPS panels only**)
- Added support for the DVP-4 and CNX-B12/8/6/4/2 button panels.
- Added support via the configuration file for the PRO2 CF (Compact Flash) card. (**BROWSER projects only**)
- Adjusted a compilation issue to hide the page flip management Java Applet. (**BROWSER projects only**)
- Click assigning a text color for a Web Legend is fixed. (**BROWSER projects only**)
- Correctly recognize all unused resources.
- Previously never assigned and compiled a *Key Click* join for a sound.
- New and improved HTML based Help system.
- Added support for buttons panels with sound.
- Added support for serial join offsets for sub page references. (**TPS panels only**)
- A fix to not allow an auto save timeout value of 0 minutes.
- Resolved an issue with tracking larger join numbers. (**TPS panels only**)
- Resolved a problem when converting zoomed pages from a panel project to a BROWSER project.
- Fixed a compilation crash when a project contained an empty page.
- Resolved a compilation issue when a page background graphic or wallpaper was tiled. (**Original panels only**)
- Resolved a conversion issue involving legends.
- Corrected a problem when a sub page reference existed without a source.
- Added support for indirect text for Sliders and Analog Gauges. (**TPS panels only**)
- Device Id for a Pad Area in the Project Properties dialog box was not being saved. (**TPS panels only**)
- File | Memory Usage is now supported for TPS panels.
- A GDI resource leak was resolved for buttons containing graphics.
- Ability to assign *Themes* on a project, page, and object level basis.
- Instantly clear all join numbers on a project and page level basis.
- Enhancements to the JMS (Join Manager System) with more detailed information.

- Resolved a compilation issue which was unnecessary file uploads via the Viewport for a TPS panel. (**TPS panels only**)
- Set the Crop / Reposition / Scale option for all pages in the project.
- Reverted back to expected behavior when click assigning join zero.
- Click assign Web Background color. (**BROWSER projects only**)
- Rectified the absence of the click assign transparency toolbar icon.
- Resolved a crash which occurred when copying a Web Line from one page and pasting it to another page. (**BROWSER projects only**)
- Added ability to generate a project preview.
- Resolved a sub page reference issue when copying sub pages from one project and pasting them to another project.
- Always guarantee sub page positioning.
- The Delete Project(s) option is now consistent for all project types.
- Correctly handle deleting sub pages from a project.
- Resolved a crash which occurred when right mouse clicking on an empty project resource view.
- Improved IP Id and IP Address support. (**BROWSER projects only**)
- Resolved a project serialization issue which retained unused data in the project file making it larger than it actually was.
- Resolved a crash which occurred when removing sound resources from a project and compiling it.

#### version 2.3.3.1

- Toggle, Momentary, and Interlock information created prior to and including VisionTools® Pro-e 2.2 for one way ST panel projects is now retained.
- Macros and/or Press Groups information created prior to and including VisionTools® Pro-e 2.2 for one way ST panel projects will be converted to Sequence Groups where delays, if any, will be lost.
- The +500 Secondary Toggle Join is back for one way ST panel projects.
- Generating a project document now yields an HTML file which fixes alot of existing problems that accompanied the Word Macro approach.
- When converting a project to a one way ST panel project, indirect text, if any, was incorrectly still supported.
- A background page graphic or wallpaper was being compiled multiple times. (**BROWSER projects only**)
- Line thickness for a Web Slider and Web Analog Gauge was compiled incorrectly. (**BROWSER projects only**)
- Compile support was added to take advantage of the CT-1000's enhanced palette. (**CT-1000 panels only, requires CT-1000 firmware version 6.001.0 or later**)
- This version of VisionTools® Pro-e is shipped with CT-1000 firmware version 6.001.0. (**CT-1000 panels only**)
- Improved Interlock Group support for one way ST panels.
- Buttons on sub page references with a digital join offset were not correctly handled for one way ST panels.

#### version 2.3.2.5

- A fix was made to better handle transparency color assignments.
- Resolved several one way panel logic problems.
- Fixed a compile issue handling exclusive sub pages.



- Added user defined join offset values for sub page references. (**TPS panels only**)
- An old issue regarding matching up object colors and graphic colors for panels with optimized palettes has been resolved.
- Corrected an issue when attempting to replace an unused graphic in the project.
- Opening a color panel project prior to opening a black and white panel project from the desktop resulted in color graphics on a black and white panel project.

#### version 2.3.2.4

- A graphical resource can now be replaced throughout the project in seconds from the resource list view.
- When opening referring pages that used a graphical resource, only a button's state's current mode was being checked. (**TPS panels only**)
- "Save As" now copies the compiled output file to assist in unnecessary uploads.
- Added a Click Assign tool bar to allow quick and easy access to all click assignable features.
- Provided Click Assign support for analog and serial joins.
- Provided Click Assign support for state joins and scrolling text joins. (**TPS panels only**)
- Added dithering support for TPS panels. (**TPS panels only**)
- Added dithering support for wallpapers on all panels.
- Fixed an issue where copying/pasting modified the z-order of the objects in a project.
- Corrected a problem where invisible sub pages would be deleted in a "Select All" deletion.
- An undo was not resetting the correct z-order for a deleted object.
- When only a single join existed in a Sequence Group, it was not able to be removed.
- Added design time check for shadow and extruded objects being off the page.
- Added advanced checking for Sequence Groups to avoid creating circular logic that would cause a panel to hang for one way ST panels
- Added LiveUpdate support to automatically detect if an update is available for any Crestron product
- Undo/Redo support is introduced for all project, page, and object level actions.
- Synchronization support between inactive and active states is introduced. (**TPS panels only**)
- Scrolling text is introduced which allows for vertical scrolling of all static and indirect text capable objects. (**TPS panels only, requires TPS firmware 1.008 or later**)
- Pad areas are introduced to allow to select a serial mouse and/or Boeckeler Pointmaker for Video and RGB objects. (**TPS panels only, requires TPS firmware 1.008 or later**)
- Text support is introduced for Sliders and Analog Gauges. (**TPS panels only**)
- An adjustable active state is introduced for Video and RGB objects allowing any user defined text to be entered to the object's active state to signify that the video signal has been lost. (**TPS panels only, requires TPS firmware 1.008 or later**)
- Fixed a compilation issue with *Web Anchors* to guarantee proper run time functionality on all browsers. (**BROWSER projects only**)
- Added a digital join number to *Web Anchors* to allow for more control. (**BROWSER projects only**)
- The compile log output now correctly shows the uncompressed size of the VTZ file to accurately determine display list size. (**TPS panels only**)
- Improved WYSIWYG support for all panels.
- Added support for the Crestron AppBuilder.
- New licensing interface to simplify look and feel across multiple Crestron applications.
- Resolved a cloning issue with a shaded style object.

- Frames were not drawn if an object had a transparent face color. (**TPS panels only**, *requires TPS firmware 1.008 or later*)
- Wallpapers were not being printed to file.
- International font support. (**TPS panels only**, *requires TPS firmware 1.008 or later*)
- VisionTools Pro-e Templates, .VTT files, are introduced which allows for a project to be saved as a template where none of its project, page, or object parameters can be altered.
- Object position and size can be locked/unlocked when designing pages.
- Option to have pages in projects that are not compiled.
- Added blinking colons and seconds for *Clocks* on TPS panels. (**TPS panels only**)
- Fixed a compilation issue with graphics used for *Web Animations*.
- Auto-save feature is ON by default with a 15 minute timeout for a fresh install
- Improved support for objects being moved off pages with multiple options for the user.
- Underlined fonts are correctly compiled. (**TPS panels only**).
- Fixed issue with the *Percent* object and assigning the % symbol.
- Fixed video sizing issues.
- The Join Manager System (JMS) now correctly supports digital joins used for sound.
- Added ability to insert/remove Join Remap File into the compiled display list. (**TPS panels only**, *requires TPS firmware 1.008 or later and SIMPL Windows 1.6x.xx or later*)
- Resolved several project conversion issues when converting between panel or BROWSER projects.
- Fixed multiple *click-assign* issues.
- Fixed multiple *Layout* toolbar issues.

#### version 2.2.3.6

- Corrected support for transparency for all shapes. (**TPS panels only**, *requires TPS firmware 1.008 or later*)

#### version 2.2.3.5

- An issue which was fixed in 2.2.3.3 was reintroduced in 2.2.3.4 and is now resolved once more. *Exclusive* subpages were causing buttons underneath them to be untouchable even when the subpages were not visible. (**TPS panels only**)

#### version 2.2.3.4

- Corrected an issue which caused an application crash when a file, on particular networks only, was opened. This also resulted in the deletion of the project file on the network.
- A compilation issue which caused face color problems for 3D buttons on Browser-type projects was fixed.
- Pages names with a dot caused a compilation issue and has been resolved. (**TPS panels only**)

#### version 2.2.3.3

- Better handling of corrupted logic information created from versions prior to VTPro-e 2.2 which would cause newer versions to be corrupted as well.
- Corrected a licensing issue which would cause license transfer issues.
- Logic information was being removed for SmarTouch panels when an object using a join was deleted even though that same join may be used by another object in the project.

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version 2.2.3.2

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- Updated support for all Crestron wizards.
- Corrected an issue concerning opening older VisionTools for Windows (.prj) project files.
- Better handling of wallpapers for original panels.
- Corrected a conversion problem where a panel project with sound was being converted to a Browser-type project causing a crash during the compilation of the new Browser project
- The upload dialog box was not responding to internal Viewport messages.
- Line objects were not triggering warnings if off the page during the compilation process.
- Canceling during the compilation process was crashing the application.
- Content help was added to the property pages for projects and pages.
- The Join Management System (JMS) now supports higher join values, 4000 digital, 4000 analog, and 1000 serial. (**TPS panels only**)
- Click assigning transparency for image objects now work completely. (**TPS panels only**)
- Corrected updating older project files to support the new method indirect text is represented.

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version 2.2.2.2

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- Compilation issue concerning system wide audio joins for an LC-1000 and CT-1000 was fixed.
- Corrected an uninstalling problem that occurred with Windows NT 4.0.
- Resolved Join Management System (JMS) issues that were causing a crash if the JMS window was open while a page with changes made was being closed without being saved.

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version 2.2.2.1

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- Corrected a compilation issue which was causing all objects to be left justified in a Browser during run time. (**BROWSER projects only**)
- Corrected an issue caused by the compilation of a *Web Anchor*.

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version 2.2.2.0

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- Added support for the TPS-series touchpanels (TPS-5000/6000)
- Multi-Mode objects are introduced, objects can change their appearance via an analog signal. (**TPS panels only**)
- New 3D button style: "Shaded" (**TPS panels only**)
- Added the Join Management System (JMS) to allow for better tracking and selection of join numbers (digital, analog, and serial)
- Reserved Join numbers (e.g. brightness up/down) are now stored in a database, and can be selected from a list without knowing the actual join value.
- Smart Upload feature allows only those parts of the touchpanel which has changed to be uploaded, making upload times much shorter (**TPS panels only**)
- Better handling of indirect text. Indirect text fields are now assigned much like digital and analog join numbers. DO NOT use the "@x" notation any longer.
- Smart Compile feature will not overwrite any HTML code that was added manually (e.g. in a 3<sup>rd</sup> party editor such as FrontPage) (**BROWSER projects only**)
- Advanced Tabs for all web objects allow manual setting of Java parameters (**BROWSER projects only**)

- Advanced Tab for page objects allows manual addition of HTML code (**BROWSER projects only**)
- Pages backgrounds can now be set as graphical "wallpaper" instead of a solid color. Graphics can be set as tiled or stretch-to-fit.
- Project window now supports multi-select of pages for copy/paste and drag/drop operations
- Tool bar positions are remembered from one session to the next.
- Added a "compile log" which details the compile process.
- Pages in Browser projects can be any size. (**BROWSER projects only**)
- IP-ID and IP address can now be set on a per-page basis (**BROWSER projects only**)
- Added *Web Map* object (**BROWSER projects only**)
- Added *Web Anchor* object (**BROWSER projects only**)
- Added support for setting targets for page flips (**BROWSER projects only**)
- Projects can now be compiled in "debug" or "release" modes. Projects compiled in debug-mode will display digital/analog/serial join numbers on the objects themselves.
- "Save Project As..." menu item now supports modifying the project type at the same time.
- Improved graphical memory management

### version 2.1.9

- Support for STX-1550C series touchpanels has been added, including SmarTouch Pro Editor and Wizard support.
- Fixed font issue on LC-1000, requires firmware version 5.045.0 or later on LC-1000 to work correctly. All new LC-1000 units will ship with this version of the firmware preloaded. Existing units must be field-upgraded if their page layouts will be changed. Please see the Crestron website (TOUCHPNL library in the Downloads section) for the latest firmware. Also note that older versions of VTPro-e will not work correctly with the upgraded LC-1000's.
- Corrected video output issue concerning slider controls.
- Fixed a licensing issue that was causing problems under Windows NT.
- Corrected a compilation issue concerning web sliders.
- Upon running the SmarTouch Wizard, if you choose to customize the touchpanel layouts, the project pages and project resources are now displayed correctly.

### version 2.1.8

- Fixed subpages for web browser projects.
- Included the latest Microsoft Java Virtual Machine (build 3190). This release of the virtual machine requires Internet Explorer 4 or later. IE and the VM is not required for touchpanel design, only for webpage design.

### version 2.1.7

- Fixed a bug introduced in v2.1.6 which broke graphic transparency for graphics embedded in button objects.
- Fixed compression of static images, which was broken in v2.1.6. Graphics embedded in buttons were not affected.

### version 2.1.6

- Added Sound Manager to handle sound resources for target-types that support sound

- Added "live update" for Browser projects. This enables the user to preview changes made to an object before closing the properties dialog.
- Recognizes when a pasted object has coordinates outside of the current subpage, and moves the object to a visible location so that it can be moved manually.
- When renaming a page, you are now prompted with the original page name, to facilitate minor modifications.
- When creating a new page or subpage, you are given an unused name by default.
- Fixed "lock as is" setting for buttons with graphics in Browser projects.
- Modified wording on licensing screen to reduce confusion.

### **version 2.0.7**

- *Introduced VTPro-e (adds support for e-control based web page design)*
- Fixed a bug where moving the properties dialog box would interpret the OK button as Cancel.
- Improved quality of JPEG images (less compression)
- Improved handling of foreign characters when downloading to touchpanels
- Fixed bug where graphics of certain width/height ratios would not align properly within a button
- Object defaults now work for clock objects
- Improved memory management
- Added context-sensitive help to many dialogs (e.g. object properties dialogs)
- Animation objects now work properly for panels that only support 4 shades of gray
- Buttons with attached graphics now upload such that the inactive graphic will display if the button is not given a join number.
- Fixed graphic-sizing bug when inactive and active images are not the same size.
- Added color-coded join numbers to differentiate digital and analog objects.

### **version 1.2.4**

- prevent user from assigning graphic transparency on a transparent button (does not work in panel)
- fixed bug where performing a Project Save As... and attempting to save with the same name would cause a crash and delete the project file
- perform all data transfers using the Viewport. Eliminates some problems with uploads in previous versions of VTPro
- maintain relative size of "separator bar" in the project window even after overall window is resized
- always warn when deleting a page/subpage from a project, even when in "expert operator mode"
- always acknowledge when VTPro cannot save the project (e.g. the file is read-only)
- using the Control key to copy borders now copies the text alignment properly
- "object default" settings now work for subpage references
- open up a dialog after performing "Generate Project Document" which details the file that was created, and provides a link to the Help file
- fixed bug where some buttons could be missing from the "logic" file while programming a SmarTouch panel
- removed text alignment for clock objects, which was never supported by the panels
- changed default resize property for subpages to "crop"

### **version 1.2.3**

- fixed bug where certain animations could cause panel to crash

### version 1.2.2

- fixed bug in compilation that would cause .hex file to be unnecessarily large
- Active text color for indirect text now compiles properly

### version 1.2.1

- Autosave works when viewport is open. Previously it would issue a "failed to save" message.
- Animated objects with frames under 8-bits/pixel compile properly.
- Turning on dithering for button-graphics no longer uses excessive GDI memory (leading to an app crash).
- Fixed crash while compiling some very large projects
- Graphic transparency settings are now copied properly when the button is copied.
- Active text color of 2D buttons on subpages now compiles properly in all cases.
- Transparent subpage backgrounds are now drawn as white with gray diagonal lines. Previously these would draw in a solid color when grid size was small.
- Active text color of 2D buttons is set to match the inactive color when importing VTW projects. Previously it would be set to some other color.
- Fixed GPF after canceling importing of VTW projects.
- SmarTouch Wizard now works with all "video conference" devices. Previously certain models would cause the compiler to fail.
- Fixed intermittent behavior of "spring-return" property on sliders. Previously certain sliders would act with spring return set even if it was not.
- Fixed GPF after opening project by double-clicking icon or dragging icon while VTPro was already opened. Crash would occur upon editing the join value of an object.
- Added support for 2-byte characters. This allows special characters such as Chinese text to be displayed properly on the touchpanels.
- Gauges and sliders now compile "video" colors properly.
- Added sample "wireless mouse project" to Demo folder.
- Added support for combined "even/odd" driver files. This feature requires SmarTouch monitor version 1.36 and operating system version 4.00.52-s or later.
- Graphic transparency should now work upon uploading in all cases. Previously certain graphics/colors would not become "transparent."
- Using SIMPL Windows v1.22 or later, browsing for the UI project in the configuration manager works properly.
- Snap to grid has been fixed when the "display grid" option is turned off.

### version 1.1.3

- initial release of VisionTools Pro

## **II. Introduction to VisionTools® Pro-e**

VisionTools Pro-e is an upgraded version of VisionTools Pro which adds support for creating web-based "touchpanels" using Crestron's e-control technology. The process of generating these pages is essentially identical to designing touchpanels. The major difference is that you must select "XPanel" as your panel type when creating the project and then select "Browser" as the Target in the Compile

settings of the project properties.

VisionTools Pro-e contains all the features of VTPro, plus support for e-control. As such, VTPro-e is intended as a direct replacement to VTPro.

**NOTE:** Touchpanel projects created in earlier version of VTPro can be opened in VTPro-e, but once they are saved they cannot be reopened in the earlier version. If you expect that you or another person may need to open the project in the earlier VTPro, you should make a backup copy of the project first, then open it in VTPro-e.

### III. Regarding the use of foreign-language characters

VTPro-e v2.0 has added improved support for displaying foreign-language characters on Crestron touchpanels. However, since some characters can have different meanings for different languages, you may need to specify which language you are using.

If you are designing pages using Japanese, Chinese, or Korean characters, you must edit the *vtpro.ini* file which is located in the same directory as VTPro-e. In this file, locate the [Language] section and edit it to the following (or, if your *vtpro.ini* file does not have this section, add it):

```
[Language]
FarEast=True
```

If you are using a language other than the three mentioned above, this property should be set to "False," which is the default value, or remove the [Language] section entirely.

### IV. PC Requirements and Recommendations

#### Minimum required PC configuration

Windows 2000/XP/Vista: 500 MHz Pentium III processor  
 256 MB RAM  
 Internet Explorer 5.5  
 A display setting of "High Color (16 bit)"  
 800x600 screen resolution

#### Recommended PC configuration

Windows XP/Vista: 1.3 GHz Pentium 4 processor  
 1 GB RAM or more  
 Internet Explorer 6 or later  
 A display setting of "True Color (24 bit)" or higher  
 1024x768 or larger screen resolution

### V. Licensing VisionTools® Pro-e

VisionTools Pro-e is a free software package, a licensing fee is no longer required in order to enable access to e-control 2 objects (i.e. creating web pages).

If you do plan to use e-control 2 for a Windows CE device (i.e. Pocket PC, hand held PC), activation is

still required for the control system.

## VI. Known Bugs/Issues in VisionTools® Pro-e

- As of v4.1.10, there remains a known issue in the Hard Button Manager when a Combo Box is opened/dropped down and a list item within it is “dragged” out of the box. Drag & Drop is not supported in the Hard Button Manager but for some reason it is not correctly being prevented. Note that dragging list items in this fashion may cause problems in the Hard Button Manager including possibly crashing the application. We are continuing to look at this issue and will provide a fix for it in a future release.
- Beginning with version 3.9 of VisionTools Pro-e, the Browser panel type (aka e-Control 1) will no longer be supported. This is partly due to Microsoft ending support for the MS Virtual Machine, which was a component required by this panel. Version 3.8 was the last version to allow the creation of Browser projects. Users should now use XPanel (e-Control 2) for their web-based projects.
- It has been discovered that Windows XP Service Pack 2 causes a memory leak with applications that use the Microsoft Foundation Classes (MFC). This can be seen by using Task Manager to watch the allocation of GDI objects by the application when child windows are created and destroyed. Since VisionTools® Pro-e uses MFC it is affected by this issue and may eventually crash after a large amount of page views are opened and closed. This is especially true when using it through SystemBuilder. Microsoft is aware of this problem and has issued Hotfix KB319740 to address it. For more information and to download the patch, please see:  
<http://support.microsoft.com/kb/319740/en-us>
- Italic Japanese fonts with characters that lean to the extreme right may get clipped or have improper spacing. We are looking into this issue further but currently the only known workaround is to not use Italic for Japanese characters.
- As of v3.5.0.4, run-times for XPanel-HPC and XPanel-PPC have been updated to Microsoft Windows CE v4.2. This was necessary in order to support a number of new and upcoming features such as dynamic graphics. PDA devices that are using older versions of Windows CE (v3.0 or earlier) can no longer be supported. Contact your device's manufacturer for an upgrade to Windows CE.NET 4.0 or later.
- While it is permitted to assign a transparent bleed color for a graphic that uses a JPEG format image, it is not advisable. JPEG is a lossy graphic format and may cause slight variance in the rendering of solid colors. Since the bleed color is assigned by RGB value, it is very difficult to get an accurate match.
- As of v3.4.3.3, Real Player is available as an Embedded Application for the UPX-2\_1GB panel type. However it requires the 2.08.00.08 revision of the UPX firmware.
- customers running Norton Anti-Virus 2000 may receive a virus warning regarding the file xmlds0.cab when installing the Microsoft Virtual Machine. This is apparently a bug in Norton Anti-Virus 2000, and is not a real virus. This warning can be ignored. A fix for this should be available from Symantec. For more information, see the link:  
<http://support.microsoft.com/support/kb/articles/Q244/4/28.ASP>
- v2.3.3.1 introduced a significant change regarding the CT-1000 touchpanel. You must have CT-



1000 firmware version 6.001.0 or later in order to program a CT-1000 with VisionTools Pro-e version 2.3.3.1 or later.

- as of v2.3.x.x, SmarTouch programming is no longer supported by VisionTools® Pro-e. Both the SmarTouch Wizard and the SmarTouch Pro-Editor have been replaced by the SystemBuilder®. Users who have created SmarTouch projects and plan to create new ones or edit old ones in the future must keep a separate copy of an older version (v2.2.3.6 or earlier) of VisionTools® Pro-e installed on their PC for working with these projects.

VisionTools® Pro-e version 2.2.3.6 is available under the Archive Library section of the Crestron FTP site.

- some graphics may not display properly in VTPro-e when your computer display is running in 256-color or less mode. This should not affect the compiled project file. The current workaround is to set your display to high- (16-bit) or true- (24-bit or 32-bit) color modes if your hardware supports it.