File Name: CRSC Install.exe

Operating Systems Supported: Windows 7, Windows 8 and Windows 10.

CRSC Application Reports: CRSC - Compact Router System Configurator
Version 3.1.0.58
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Release Notes for CRSC Version 3.1.0

- This release of CRSC supports the STM based Remote Panels, CQX and CR08/16XX Compact Routers.
- Support for the CR3232 STM based compact router will be added in the next release.

Release Notes for CRSC Version 3.0.0

- Rebranding
- Support added for STM (CR Renaissance) based Compact Routers.
- This release of CRSC supports the STM based Remote Panels.
  Although support has been added for other STM based frames, testing has not been completed pending availability of hardware.

Release Notes for CRSC Version 2.0.1 (bug fix release)

- Fix for customer issue NVCR-319: CRSC Remote Panel editors limit inputs and output to values that are too small.
- NVCR-317: Update Technical Support contact information in about page.

Release Notes for CRSC Version 2.0.0

The main feature driving this release of CRSC is to add the support for the RP32 with the CP6464.
CRSC prior to 2.0 does not support the CP6464 or the RP APP that supports the CP6464 and will complain if you try and use it on the new RPs.

General Changes
- Loading of CRSC looks snapper because the initial search and load of the Routers is in the background
- Enhanced tables so that <ENTER> and <Tab> move more like a spread sheets
- External plug-In support has been added, although there are not plug-in modules at this time.
- If a router or panel is in default mode (no changes by CRSC) the Gateway IP is not reported
  - This is to make the older CRs and RPs look more like the CR6400 which only report the Gateway IP if it has been changed.
  - This was added since most basic users have now idea what a Gateway IP is, or even have one to use.

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- o If Ctrl-Shift Click is used to bring up the Ethernet Setting Page, the actual Gateway IP will be reported
- The default Device Name for a RP now is its Panel Type
- New Splash screen and logos

NVISION Products Page
- Better format of the Subnet Mask on the NIC report
- Added support for new device types (IOXM devices)

CR Series Ethernet Settings Page
- NVCR-118: Ability to manually add devices by IP address to allow remote access.
- There are now 2 new buttons on the page
  - o Use "Add CR Series Device…" to add a manual IP Address
  - o Use "Remove CR Series Device…" to remove a previously added device with a manual IP Address.

Panel Editor Page
- Support for creating and selecting a CP6464, CP6401, and CP32-6464 panels.
  - o The CP6464 and CP6401 are very much like the CP3232 and the CP3201 (except with more buttons)
  - o The CP32-6464 allows the CP3232 to be used to control a CR6400. It is missing the Display Sources, Display Destinations, and the Toggle Source/Destinations functionality since the color of the CP3232 buttons cannot dynamically change. Instead Page 1 and Page 2 are used to access the second bank of source and destination buttons.
- Support for the new Display Sources, Display Destinations, and the Toggle Source/Destinations Buttons
  - o Display Page 1, Page 2, and Toggle Page 1/2 have also been added
  - o These are new display types are only available on the CP6464 and CP32-6464 panels
- NVCR-146: Add support for multiple button selection
- NVCR-145: Add drag and drop support for level numbers
- Levels can now be dragged from the Levels Table (on the Levels Tab) to the Source, Destination and Salvo tables
- Typing a character in the Source, Destination or Salvo Table and CRSC will start an edit.
- Many improvements the Source, Destination and Salvo tables, check out the context menus for access
- Up to 64 Salvos on 64 buttons when using a CP6464 or a CP32-6464.
  - o You are still limited to 1024 salvo entries (32 salvos * 32 entries) but now you can allocate them how ever you wish. You are not limited to 32 salvos on 32 buttons.
- Ctrl-Shift Click to bring up hidden features in the Panel Editor had been broken since 1.8, it is now fixed.
- If No RP is selected now all Level lists auto populate to 8 levels instead of being empty

Update Firmware Page
- The RP32 memory layout needs to be changed to support 64 Crosspoints. During upgrade the memory will be converted.
- NVCR-294: Manufacturing needs to be able to update firmware on the CR6400 Production Loader
  - o Manufacturing needs to be able to update the CR6400 when the CPU board does not have all of its IO boards plugged in.
  - o This fix allows for a CR64-Unknown device firmware to be upgraded once from the Production Loader.

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- Older versions of CRSC do not allow the user to update the RP APP firmware. This was done because we needed to re-map some memory locations.

RP firmware only changes
- New RP32 APP to support the CP6464
- New RP32 and RP32 v2 FPGA code to support the CP6464
- Default gateway address changed to 0.0.0.0
- Added ability for the gateway address to be set using when the RP is found on a different subnet
- Fixed NVCR-178: On an RP associated with a CQX, the 16'th button on the bottom row of CQX causes destination selection to de-select.
- Fixed NVCR-183: Destination button that is off causes currently selected destination to be deselected

Release Notes for CRSC Version 1.9.0
Changes
- Support for the CR6464-3Gig Video Router and the CR6464-AES Crossbar Asynchronous AES Audio Router.
- Added many new features to the Crosspoints page, most are accessed via the context menu.
- Redesigned NVEP Router UDP to completely fill the NVEP UDP protocol buffer when sending a message.
- The CR64 family has a new Default Mode (Default+IP) where only the IP/subnet/gateway or name has been changed.

Fixes
- No longer display the network error log on a refresh if there are only warnings (CRs generate a lot of spurious warnings).
- Fixed the validation of the Gateway IP, was validating against the current IP address not the new IP address.
- There were numerous issues with the Undo of Crosspoint Takes (most unreported) that are now fixed; 2 in particular:
  - A router in the idle state would add to the undo stack and it should not have
  - There was not an equal amount of dos and undos

Release Notes for CRSC Version 1.8.3
Changes
- Support for version 2 of the RP16 and RP32.
  - These display with the same frame type as the version 1 RP16 and RP32, unless full frame type display is turned on.
  - To turn on full frame type display, Ctrl-Left Shift Click on the Ethernet Settings Page chose in the left column.
- The Debug Panel is no longer automatically enabled when VIRTUALS is found; it is now controlled through debug.xml.
- CRF_Info.exe is now obsolete; please use CRF-Utilites.exe which is installed along with CRSC.exe.
  - CRF-Utilites.exe contains utility functions for the CRF file. Utilities such as test CRF file, expand CRF file, and list the contents of a CRF file.

Fixes
- CRSC (on very few systems) would start up and immediately quit when being run on Windows 7 and Windows8.
  - Added some startup fixes to better report this error and also to avoid it.

- o   As a part of this fix, also upgraded the JRE from 1.6_U22 to 1.6_U45.
- o   Two customers have validated that these changes fix the issue.

Release Notes for CRSC Version 1.8.2
Changes
- New Belden splash screen and logos.
- New 1.8 Help.

Fixes
- None

Release Notes for CRSC Version 1.8.0
Changes
- Configuration of a CP1602-CQX connected to a RP16.
- Display of the new CQX reference types
- Ported the "Network Interfaces" report over from MRC. It is located on the NVISION Products Online page.
- New Belden Logo and Copyright

Fixes
- Connect a Remote Panel in default state (set rotary to 0 and power cycle). Load RP into the Panel Editor and set type to CP1602-CQX or CP3201. The buttons are not created correctly.
- Not waiting long enough for the erase when updating the FPGA on the CQX 3Gig.

Release Notes for CRSC Version 1.7.0

Changes

- Display router network errors discovered while refreshing the network in a dialog
    - This has the side effect that CRSC looks like it boots a little slower
- Low level change to UDP message handling ported over from TCP message handling in MRC
    - All Errors and Warnings that previously just went to the console are now logged
    - Packet sequence numbers are taken into account (packets with unexpected sequence numbers are thrown away).
- Hooked in an automatic wait cursor, to have more consistent hour glass cursors
- Added support for CR16x02-CQX-3Gig FPGA updates
    - Version 1.6 of CRSC will try and use the FPGA code for the SD and HD CQXs on the 3Gig CQX. The 3Gig router will fail this but there are no warnings in CRSC because the 3Gig was originally designed to be the same as the HD and SD.
    - If the .CRF file from 1.6 is used with CRSC 1.7, CRSC will complain that there is no firmware for the 3Gig-CQX.
    - If CRSC 1.7 and the .CRF firmware file from 1.7 is used all update successfully.
- Date is now displayed in update logs

Fixes

- Help System does not work on Chrome 5.0, when Chrome launched, display an error. Launch IE for help system if it exists.
- Upgraded to a Windows compatible Installer
- Fixed firewall issues in the installer in Vista and Windows 7
- Java 6 SE has a bug that returns invalid subnet masks on Windows 7 when iterating over the PC's installed Ethernet cards.
    - Added a fix so the NVDiscovery would work on Windows 7 (always do a broadcast discovery).
- Fixed Windows 7 issue with IPConfig discovery (this shows up on router reset and on Ethernet setting page)

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Release Notes for CRSC Version 1.6.0

Changes

- Added support for CQX-SD/HD video routers
- Routers on a different subnet now report if they have rotary switch at 0 (based on IP address).
  - Because the IP address is being used instead of actually asking the router the answer won't always be correct.

Fixes

- Fixed downloading bugs:
  - Fix Issue #72: CRSC reports "All updates successful" when a file is missing.
    - Now if there are any errors or warnings, the log is displayed (with a warning as the last entry).
  - Fix Issue #73: CRSC allows a LP or NR router to be loaded with old App
    - The Boot, App, and Firmware must now be present in a CRF file for CRSC to start an update.
  - Can't cancel out of a boot reset
  - Not searching for a rotary switch 0 router that had its IP changed correctly after update.
  - Not searching for a production app correctly if it changes its IP while updating.
- Fix Issue 77a: Locks page should report serially locked outputs as such.
- Fix Issue 77b: Locks page should always put up a warning prior to unlocking.

Release Notes for CRSC Version 1.5.0

Changes

- CRSC has gone Miranda purple
- Added support for 8x8 clip on panels in the Remote Panel Editor
- Added ability to switch a Remote Panel from CR mode to NV9000 mode.
- New help system.

Fixes

- Bug Fix: Two device discovery requests are send right in a row so that compact routers that loose the first will see the second.
- Bug Fix 67: Fixed unlocking of a port on a port router.

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New Hardware Support

Added support for the Low Power (LP) and Non-Reclocked (NR) video routers. 26 new routers in all.

CR1616-HD-NR   (high power non-reclocked)
CR3232-HD-NR   (high power non-reclocked)
CR0808-SD-NR-LP
CR0808-HD-NR-LP
CR0808-SD-LP
CR0808-HD-LP
CR0808-3G-LP
CR1604-SD-NR-LP
CR1604-HD-NR-LP
CR1604-SD-LP
CR1604-HD-LP
CR1604-3G-LP
CR1616-SD-NR-LP
CR1616-HD-NR-LP
CR1616-SD-LP
CR1616-HD-LP
CR1616-3G-LP
CR3204-SD-NR-LP
CR3204-HD-NR-LP
CR3204-SD-LP
CR3204-HD-LP
CR3204-3G-LP
CR3232-SD-NR-LP
CR3232-HD-NR-LP
CR3232-SD-LP
CR3232-HD-LP
CR3232-3G-LP

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Release Notes for CRSC Version 1.0.1
Fixes

- General
  - Fixed a problem with the "Reset Progress Dialog" where the frame could be found via IPConfig but it could not be talked to via UDP. The dialog would mark the frame as not found and keep searching until it gave up instead of marking the frame can't talk to.
- Program Remote Panels:
  - Fixed Issue 61: Salvo 17-32 cannot be configured properly on a CP
  - Fixed Issue 62: Not always able to see all of the salvo entries on a salvo.
- Firmware Updates:
  - Fixed Issue 53: the very first time CRSC is run and not existed (i.e. from the installer), the firmware-update-history.xml is not saved.

Release Notes for CRSC Version 1.0.0
Changes

- The first official release of CRSC and updating via a CRF file.