## **CPU Release**

## **Notes Firmware**

## **Table of Contents**

4v7r10004 (from 4v7r9724) 25-Sep-2025	2
4v7r9724 (from 4v7r9554) 16-Apr-2025	3
4v7r9554 (from 4v7r9547) 01-Aug-2024	4
4v7r9547 (from 4v7r9455) 23-Jul-2024	5
4v7r9455 (from 4v7r9416) 11-Apr-2024	6
4v7r9416 (from 4v7r9311) 07-Feb-2024	7
4v7r9311 (from 4v7r9239) 23-Nov-2023	8
4v7r9239 (from 4v7r9214) 23-May-2023	9
4v7r9214 (from 4v7r9168) 3-Apr-2023	10
4v7r9168 (from 4v7r9036) 6-Feb-2023	11
4v7r9036 (from 4v7r8979) 26-Oct-2022	12
4v7r8979 (from 4v7r8933) 21-Jun-2022	13
4v7r8933 (from 4v7r8877) 12-Apr-2022	14
4v7r8877 (from 4v7r8871) 21-Mar-2022	15
4v7r8871 (from 4v7r8787) 14-Mar-2022	16
4v7r8787 (from 4v7r8770) 19-Jan-2022	17
4v7r8770 (from 4v7r8674) 17-Dec-2021	18
4v7r8674 (from 4v7r8665) 1-Oct-2021	19
4v7r8665 (from 4v7r8310)	20
4v7r8310 (from 4v7r7956)	23
4v7r7956 (from 4v7r7787)	26
4v7r7787 (from 4v7r7781)	28
4v7r7781 (from 4v7r7768)	29
4v7r7768 (from 4v7r7739)	30
4v7r7739 (from 4v7r7621)	31
4r7621 (from 4v6r6-6970)	32
4v6r6-6970 (from 4v5)	36

# 4v7r10004 (from 4v7r9724) 25-Sep-2025

## **New Features/Mods:**

- General
  - · no changes
- Comms
  - · no changes
- Web
  - Show full application name even if it's been truncated in the SysInfo field

### **Fixes:**

- General
  - Fix buffer overrun with long application names
- Web
  - no changes
- Local Panel
  - · no changes
- Comms
  - no changes

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25 September 2025 Page 2 of 38

## 4v7r9724 (from 4v7r9554) 16-Apr-2025

## **New Features/Mods:**

- General
  - Add "Support Tunneling" feature
  - Add support for Dual Pulse C & D inputs (requires IO Firmware >= 3v05/2v12)
- Comms
  - OPC Add support for second network port
  - MQTT Add support for sending reports
  - FTP Setting FTP port to zero will disable/ignore FTP service
- Web
  - Add "Download SSL Certificate" to Network page

### **Fixes:**

- General
  - General bug fixes
  - Fix broken support for various number pad keys when entering data
- Web
  - Prevent javascript timers from being throttled
- Local Panel
  - no changes
- Comms
  - openssl: Fix certificate generation to support "dataEncipherment" option

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25 September 2025 Page 3 of 38

# 4v7r9554 (from 4v7r9547) 01-Aug-2024

## **New Features/Mods:**

- Web
  - Show block checksums in lowercase (to match certificates, etc)

## **Fixes:**

• None

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25 September 2025 Page 4 of 38

# 4v7r9547 (from 4v7r9455) 23-Jul-2024

## **New Features/Mods:**

• None

## **Fixes:**

- General
  - Fix constants checksum so it remains more consistent
- Comms
  - Fix bug when handling raw report data request in xmlcomms

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25 September 2025 Page 5 of 38

# 4v7r9455 (from 4v7r9416) 11-Apr-2024

## **New Features/Mods:**

- Comms
  - If the I/O Board comms fails, reboot once and if it happens again, flag an error/alarm instead of rebooting. This stops a endless loop.
  - If no valid gateway is found for Ethernet Interface 1 (ETH1), default to "0.0.0.0"
- Web
  - Show OPCUA comms connections on the Network page

### **Fixes:**

- General
  - Fix regression from 4v7r9214-R on the local panel display code
  - Fix regression from 4v7r9214-R on the PNG image code

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25 September 2025 Page 6 of 38

## 4v7r9416 (from 4v7r9311) 07-Feb-2024

### **New Features/Mods:**

- General
  - Lock database when accessing FRAM (to eliminate any race conditions)
  - Add support for Significant Figures
- Comms
  - MQTT
    - Added TLS Support
    - Added URL support for MQTT Broker
    - Revise design to allow Publish and Subscribe to be defined and used in a single task.
- Web
  - Changing NMI switch setting now refreshes web pages

#### Fixes:

- Web
  - Correctly check "read access" setting when processing "appstatus" pins
- General
  - Replace use of deprecated system call
  - Fix various Linux build errors
  - Fix integrated lid display regression from r9213

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25 September 2025 Page 7 of 38

# 4v7r9311 (from 4v7r9239) 23-Nov-2023

## **New Features/Mods:**

- Comms
  - Speed up XML request/reply timings (eg for ProveIt comms)
  - Update OPC-UA version to v1.3.7
- Add support for downloading reports in TSV format
- Account for timezone offset when generating SSL certificates
- Enhance broadcast <ALARMSTATUS> with extra data

### **Fixes:**

- Web
  - Fix URL redirect behaviour
- Comms
  - Fix Truproof comms
- General
  - Fix RS485/422 RTS/CTS handling (requires v5.7.7+ kernel)

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25 September 2025 Page 8 of 38

# 4v7r9239 (from 4v7r9214) 23-May-2023

## **New Features/Mods:**

- Comms
  - OPC-UA: Disable server if the IP Port is set to 0 (zero)

### **Fixes:**

- Web
  - Rework ajax requests to better handle dynamic screen refreshing
  - Fix modal dialogs no longer pre-selecting "current value" (regression from r9025)
  - Fix current value not updating on "Toggle DigOut" modal dialog
- Comms
  - xmllink: Make sure the Array Index is correctly honoured when transferring text data

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25 September 2025 Page 9 of 38

# 4v7r9214 (from 4v7r9168) 3-Apr-2023

## **New Features/Mods:**

- General
  - Add support for Report images (viewing & printing)
  - Skip blank lines when generating Postscript
- Web
  - Report placement divs now use transparent background to match VCCure ReportEditor, PDF and Postscript
- Comms
  - OPC-UA: Set client limit to 20

### Fixes:

- Web
  - Fix browser back button causing "resubmit post data" messages when login page revisited

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25 September 2025 Page 10 of 38

# 4v7r9168 (from 4v7r9036) 6-Feb-2023

## **New Features/Mods**

- Web
  - Add Right Hand Side banner support in header (appstatus2)
- Comms
  - mastercomms: Add support for "single poll" messages

### **Fixes**

- General
  - Fix issue where SysFlags didn't always update correctly
- Web
  - Ensure menu (in)active status is checked when getting menu hash
  - When list/header hash changes, ignore all other reply values (as they may now be invalid)

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25 September 2025 Page 11 of 38

## 4v7r9036 (from 4v7r8979) 26-Oct-2022

### **New Features/Mods**

- General
  - Add DST settings to Constants Log
  - Prefix "NTP" settings on Constants Log
  - Add Number Format settings to Constants Log
  - Load/save "Number Format" to System settings from SETUPs
- Web
  - Add 'p' style option to denote item is a password (and only show '\*\*\*\*\*\*\*')
- Comms
  - Add OPC-UA Client support
  - · Add configurable IPPort to OPC-UA server
  - · Add support for multiple XMLLink instances

### **Fixes**

- General
  - Fix handling of stand-alone "scope" blocks "{...}"
- Web
  - Fix line spacing to prevent descender clipping
  - Empty/Blank items now show default panel background (unless 'bg=xxxxx' specified)
  - · Fix modal edit box handling
- Comms
  - · Fix OPC-UA login handling
  - Fix OPC-UA open62541 socket leak (commit 70db6ac4e97254b468cd7a7ba7ac8998874e815a)

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25 September 2025 Page 12 of 38

## 4v7r8979 (from 4v7r8933) 21-Jun-2022

## **New Features/Mods**

- General
  - Cater for apps where not all ADC pins are defined in the target file
  - Add hooks to load/save System settings from SETUPs
- Comms
  - Rework OPC-UA to support ControlWeb

### **Fixes**

- Web
  - In Constants Log, active menus now shown as "inactive" if parent is inactive
- Comms
  - Add missing event log entries (eg Task Failed) on xmlcomms
  - Strip pipes from table entries on OPC-UA link
  - Increase sanity checks in read/write functions to prevent possible xmlcomms crash

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25 September 2025 Page 13 of 38

# 4v7r8933 (from 4v7r8877) 12-Apr-2022

## **New Features/Mods**

- Comms
  - Add support for "ControlWeb" style string-only tagnames and lists in OPC-UA

## **Fixes**

- General
  - Fix broken 'continue' in if() statements
  - Fix ConvertNumberFormat() to handle exponents correctly
- Web
  - Fix column wrapping issue
  - Rework postscript scaling
  - Fix javascript issue with pins containing apostrohpes in the pin name

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25 September 2025 Page 14 of 38

# 4v7r8877 (from 4v7r8871) 21-Mar-2022

## **New Features/Mods**

- Web
  - Remove need for "index.html"

## **Fixes**

- Web
  - Allow user names to be changed to the same but with different letter cases (e.g. "Bob" to "bob")
  - Fix issue with pin array dimensions not being set correctly

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25 September 2025 Page 15 of 38

## 4v7r8871 (from 4v7r8787) 14-Mar-2022

### **New Features/Mods**

- General
  - Implement prover timing/count roll-over handling to extend maximum prove length
- Web
  - Vertical centre no longer scales font size by 150%
  - On the local panel mimic, prevent clashing panels (we now only use the first active panel in any particular position)
- Comms
  - Add "ShowPinId" attribute to xmlcomms <TagNames> request
  - Added "Type" to the <Live\_Data> xmlcomms request to enable getting only "writeable" pins

#### **Fixes**

- General
  - Fix possible crash when report placement is beyond end of background text
  - · Fix missing report placement formatting
  - Prevent possible crash when loading alarms
  - Move printer 1 serial port checking into thread to prevent crashes
  - Fix issue with pin array dimensions not being set correctly
- Web
  - Fix incorrect initial ADPs when creating live web reports
  - Live reports now correctly update when placements change active state
  - Don't encode HTML entities when downloading TEXT or TSV files
- Comms
  - Fix hang when doing large numbers of writes by OPC-UA

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25 September 2025 Page 16 of 38

# 4v7r8787 (from 4v7r8770) 19-Jan-2022

## **New Features/Mods**

• No Changes

## **Fixes**

- Web
  - Fix possible crash when creating TSV reports
  - Fix dropdown menus in Internet Explorer
  - Prevent possible crash when changing printer typeno changes

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25 September 2025 Page 17 of 38

## 4v7r8770 (from 4v7r8674) 17-Dec-2021

### **New Features/Mods:**

- General
  - Add "Task Fail" event
  - Add isnan() and isinf() functions
  - Rework print spool handling so each printer has its own thread
- Web
  - Add "Delete Certificate" item to Network page
- Comms
  - Add possibility to see if a comms link is "disabled" rather than in error

### **Fixes:**

- General
  - Harden the IO firmware extract/install process
  - Fix handling of formatting codes (bold, underline, etc) when generating reports
- Comms
  - OPC-UA: Bug fixes
  - Harden serial port driving for slower links

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25 September 2025 Page 18 of 38

# 4v7r8674 (from 4v7r8665) 1-Oct-2021

## **New Features/Mods:**

- General
  - Sanity check ADC/PRT field calibration data on startup ... if zeros, reset to defaults
- Web
  - Add 'v' style option to vertically centre (and left align) a title, value or unit [to make (eg) a custom separator item]

### **Fixes:**

- Web
  - Fix report placement "left align" formatting truncating data

25 September 2025 Page 19 of 38

## 4v7r8665 (from 4v7r8310)

### **New Features/Mods:**

- General
  - Support "LEDs" or "Leds" output pin
  - If FRAM processing fails on startup, indicate an FRAM restart (not a coldstart)
  - Remove file size limit when downloading from SD Card
  - Add support for "continue" statement in for() and while() loops
  - Add log10() and ln() functions
  - Add fmin() and fmax() functions
  - Add pi() function
  - Add International support for thousands and decimal separators (comma, point and (thousands) space)
  - Ignore TCPLogger messages when no log viewer connected
  - Add STRING datamap datatype
  - TCPLogger, show task name \*and\* comms name (where applicable)
  - ZeroConf broadcast now informs when new app or firmware installing
  - Add support for PWM mode on PulseOut
- Web
  - Add PDF format to the "Download As ..." options
  - Allow Constants Log to be downloaded as a TSV file
  - Fix HTML warnings (SameSite cookie and CSS zoom)
  - Add support for additional Gen3 RAWOUT modes
  - Add support for 'printing' Constants Log and Sitemap to FTP
  - Add support for 'printing' Alarm/Event logs to FTP
  - Add "metrology blocks checksum" to web System Info page and Constants Log
- Local Panel
  - Add lid chart support
  - Add support for "Lid" display tree
- Comms

25 September 2025 Page 20 of 38

- Skip "system screen" pin map entries in XML <Live\_Data> request
- Add OPC UA comms task
- Add MQTT comms task
- Increase security timeout to 30 seconds (to cater for slower network links)
- Reduce minimum inter-message delay (to allow for faster polling)
- Add better support for ASCII strings via (eg) Modbus
- FTP
  - no changes

#### Fixes:

- General
  - Enhance trap when expansion card not fitted
  - Better support for loading apps with multiple <SETUPS>
  - Fix "Download as ..." typo
  - Improve number handling & fix buffer overflow when archiving historical data
  - Fix parse issue when operator missing RHS before bracket, e.g. foo = (1 \* );
  - Fix login issue
  - Fix possible lost FRAM fail flag on startup
  - Add range checking on PWM rate and Pulse Output bucket
  - Make sure display pins in "METROLOGY" group are included in metrology checksum
  - Fix > 100% progress when updating app or Altera
  - Make sure rdserver attaches to TCPLogger correctly
  - Strip full path from pin name when loading TAGNAMES datamap
  - Fix "read-only" pin checking
  - Add missing FTP events
  - Fix FRAM SysInfo version checking
  - Fix string width limit check
  - Correctly initialise FRAM if invalid
  - Ensure TCPLogger closes sockets correctly when link is closed
  - Ensure message queues are closed correctly

25 September 2025 Page 21 of 38

- Fix alarm state strings
- Web
  - Fix web threads picking up incorrect information
  - Fix incorrect pipe (|) handling when downloading text events/reports
  - Fix position of spinning "loader"
  - Fix ADC calibration screen
  - Fix SD Card "download" icons
  - Improve number handling when downloading historical data
  - Fix possible incorrect DST status
  - Fix 'Edit User' dialog unable to change security level
  - Fix "Digital Outputs" dialog
  - Fix back-to-front SDCard Install/Remove option (broke in r8235)
  - Fix missing TFX upload format option
  - Fix "undefined" text in "Network Rebooting" window
- Local Panel
  - no changes
- Comms
  - Fix handling of comms links using ASCII string messages
  - Fix "bytes per address" handling in Modbus Modicon mode
  - Trap unused system screens in <Displays> request in XMLComms

25 September 2025 Page 22 of 38

## 4v7r8310 (from 4v7r7956)

### **New Features/Mods:**

- General
  - Add SYSINFO2 pin to template
  - Return CPU revision at end of OS Version string
  - Detect board types on startup
  - Mods to add support for new Rev3 boards
  - Check for SysTemp input
  - Implement combined "metrology blocks" checksum
  - Add "metrology blocks checksum" to web System Info page and Constants Log
  - Add initial code for comms link to MTI encoder
  - Change various "version" strings to "firmware"
  - various small enhancements
- Web
  - Disallow Metrology pin edits if Metrology bitlink not set
- Local Panel
  - Add support for lid display
  - Comms tx/rx data now sent to TCPLogger
- XML
  - Honour "METROLOGY" group setting
  - OPC XML now splits top level browse into "#Displays" and "#Tagnames"
  - Add "Metrology" support for OPC XML
  - OPC XML now returns date/time and IP addresses as strings
  - Add "sync" command to <Time\_Sync> request
  - Return OPC error E\_ACCESS\_DENIED when Metrology pin check fails

25 September 2025 Page 23 of 38

#### Fixes:

- General
  - Fix offset lookups when scanning arrays
  - Fix displays tree scanning of nested menus
  - Calculate app hash using the same method as VCCure
  - Fix scanning for system screens
  - Fix checking for "read-only" datamap pins
  - Fix array length/dimension scan
  - Fix string extraction from report data
  - Correctly set flags on namemap entries
  - Fix "missing items" when scanning displays tree
  - Fix NTP time handling (timezone offsets and correct epochs)
  - Fix missing TSV header line when downloading historicals (before you've viewed a chart)
  - Remove pipe characters from units when viewing/downloading historicals
  - Check SDCard inserted before saving network debug info
  - Ensure un-initialised variables default to zero
  - Add legacy support for apps with no "SERIAL\_BAUD\_RATES" table
- Web
  - Fix 'maxlength' values for usernames (max 16 chars) and passwords (increase to 32 chars)
- XML
  - Fix OPC <Browse> of TAGNAMES of array pins
  - Fix bug when reading arrays
  - OPC XML "#Tagnames" browse now honours filter
  - Prevent writes to "read-only" pins
  - Ensure TAGNAMES pins are added to the namemap
  - Fix OPC string array indexing bug
  - Don't hide pins whose name starts with a '!'
  - Fix NTP "active value" table (only showed last entry not all but first!!)

25 September 2025 Page 24 of 38

•	Various	minor	bugfixes
•	various	HIIIIOI	Dugnaes

25 September 2025 Page 25 of 38

## 4v7r7956 (from 4v7r7787)

### **New Features/Mods:**

- General
  - Add support for new Modbus link template format
  - Add support for "SysControl" output pin
  - Add ACCEPTALARMS on bit 0 of SysControl pin
  - Improvements to syntax, incomplete expression and unary operator parsing
- Web
  - Added "Metrology Checksum" to System Info page
  - Hide TFX FTP options if app has no TFX reports
  - Updated Printer1 Baud Rate to use SERIAL\_BAUD\_RATES table
- Local Panel
  - no changes
- XML
  - Report "ident" now returned in <Report\_Index> request
- FTP
  - no changes

## **Fixes:**

- General
  - general bug fixes
  - Alarm "live" value now correctly updated
  - Report previews and print-outs now show missing placement formatting correctly
  - Fix broken scanning for pins in TOTALS group
  - Only run FRAM check if data was actually written that cycle (fixes false "FRAM FAIL" alarms)

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- Web
  - Honour custom font sizes on menu items
  - Chart series names now generated dynamically (as dynamic units might change)
  - Change to using shared memory network data (fixes issue with multi-threaded web tasks)
  - Fix empty file when downloading snapshot report
  - Fix empty "last 30 reports" zip file
- Local Panel
  - no changes
- XML
  - no changes

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25 September 2025 Page 27 of 38

# 4v7r7787 (from 4v7r7781)

## **New Features/Mods:**

- General
  - no changes
- Web
  - no changes
- Local Panel
  - no changes
- XML
  - no changes
- FTP
  - no changes

### Fixes:

- General
  - no changes
- Web
  - Fix web banner handling
- Local Panel
  - no changes
- XML
  - no changes

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25 September 2025 Page 28 of 38

# 4v7r7781 (from 4v7r7768)

## **New Features/Mods:**

- General
  - update restart mechanism when commended via the web browser now shuts down in a more controlled manner.
- Web
  - no changes
- Local Panel
  - no changes
- XML
  - no changes
- FTP
  - no changes

## **Fixes:**

- General
  - no changes
- Web
  - Make sure all tabs logout when logout occurs on any tab
  - Don't add links to ALARM or TIME/DATE screens when at login page
  - Fix web banner updating
- Local Panel
  - · no changes
- XML
  - no changes

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25 September 2025 Page 29 of 38

# 4v7r7768 (from 4v7r7739)

## **New Features/Mods:**

- General
  - · no changes
- Web
  - Banner allow use of title, value, unit attributes
- Local Panel
  - · no changes
- XML
  - no changes
- FTP
  - no changes

### **Fixes:**

- General
  - Fix time handling to work past 2038
  - Fix NTP sync on startup
- Web
  - Minor fixes
  - Reboot in an orderly manner when requested via the web server
- Local Panel
  - no changes
- XML
  - Fix bug in <Live\_Data> request

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25 September 2025 Page 30 of 38

# 4v7r7739 (from 4v7r7621)

### **New Features/Mods:**

- General
  - no changes
- Web
  - · no changes
- Local Panel
  - · no changes
- XML
  - Add <TABLE> attribute to read-only display pins
  - <Identify> request now returns pinids you can use with <Live\_Data> request
- FTP
  - no changes

### **Fixes:**

- General
  - Minor layout fix when using formatting attributes
- Web
  - Minor fixes
  - Reports now hidden from "Report Routing" when report set as not visible
  - Reports now hidden from "Sitemap" when report set as not visible
- Local Panel
  - no changes
- XML
  - no changes

25 September 2025 Page 31 of 38

## 4r7621 (from 4v6r6-6970)

#### **New Features/Mods:**

- General
  - TCP Logging feature added
  - Changed "Application Setup" to "Dataset" to match other descriptions
  - Added support for "clog" attribute to show/hide inactive constants log items
  - Add support for hardware temperature sensor
  - Add 128K/512K FRAM size detection
  - Check FRAM size on app install
  - SD Card now supports: EXT4/3/2, FAT32, FAT
  - Various Comms improvements
  - Reset Real Time Clock to epoch when doing FAILSAFE restart
  - Use 2018 as Real Time Clock reset year.
  - Move to new firmware version format (e.g. 4v7r7515-R, B or A, where R=Release, B=Beta, A=Alpha)
  - Add Licence check function nflcisvalid()
  - Add support for ASCIIx2, ASCIIx4, ASICIx8 formats to assist with interfacing to other modbus text protocols.
  - Add RAM based Historical Zone
  - Add Constants Log checksum for all keypad constants (not just Metrology constants)
  - Add support for "file='???'" report attribute
  - Allow groode reports to be printed to Postscript printers
  - Add support for "FTPFORMATS" table
  - Add support for "print only" reports
  - Rework pipe -> newline handling
  - Add support for report custom font size (use "fs=??" in report attribute)
  - Update Postscript glyphname for Unicode 03BC (mu)
  - Each "printer" now has its own spool (avoids lost jobs if another printer gets stuck)
  - Add SD Card "write protect" detection

25 September 2025 Page 32 of 38

- Add FTP info to Constants Log
- Add alarm "live" value to alarm state
- Set "RTC Error" flag (SysAlarms bit 15) if Real Time Clock is invalid on startup
- Add app Alarm Status to top two bits of SysAlarms pin
- Add NTP "sync on startup" option
- Reset FTP settings on FAILSAFE restart

#### Web

- Add support for table sorting (normal, reverse, A-Z, Z-A)
- Add "Software Checksums" to System Info screen
- Remove DigOut edit from "manual" System Info page
- Remove 60sec auto-update from trending charts
- SD Card "install" option now only shows Install or Remove (depending on current status)
- Add auto-shrink to breadcrumb trail
- Added report download options (eg Text, TSV, TFX)
- Support background/foreground colours on menu items
- Add destination printer name when showing spool files
- Change DST status from "(not) in effect" to just "enabled / disabled"
- Add FTP "Send Test File" option
- Print spool reworked (expand/collapse per printer)
- Add support for "date" pins on the display trees

### Local Panel

- Add support for TCP connection
- Add support for "Alarms" page
- Add support for "local panel version" ... passed into SysInfo[] array if present
- Add "style" attribute to Live Report item xml

#### • XML

- Add support for Master/Slave XML link
- <Report\_Index> now shows any report attributes
- Add missing "Report Routing" from default system setup screen

25 September 2025 Page 33 of 38

- Add missing "Analog Inputs" from default system setup screen
- Add support for "Show Digital I/O" system screen
- <Alarms> request: replace "Set" and "Accepted" tags with "State"
- Add language support
- FTP
  - "%" formatting codes can be used in FTP upload directory

### Fixes:

- General
  - Fix various comms issues
  - Prevent database writes on slave comms being stored in the Operator Event Log
  - Make sure we check for "SERIAL\_PORTS" and/or "SERIALPORTS" tables
  - Fix placement leading zeros / left-align handling
  - soft functions supported in variable declaration, e.g. int x = myfunc();
  - soft functions supported in existing variable non-equals equal types, e.g. x += myfunc();
  - 'else' within 'for' loops issue fixed
  - Make sure we "always run" when processing iterative containers
  - Fix initialisation of volatile database pins
  - Fix incorrect time offset
  - Ignore print to SD Card if not inserted or read-only
  - Fix reply message byte count checking
  - Flush comms buffer before sending new poll
  - Fix incorrect network port indexing
  - Ensure we don't save files to SD Card when it's not mounted
  - Remove SDCARD and FTP from "All Printers" alarm flags
  - Fix report placement bold/underline (download and print)
  - Fix ADP handling
  - Fix "System Screen" detection
  - Ensure table items starting with a "!" are hidden

25 September 2025 Page 34 of 38

#### Web

- Fix missing NTP sync mode "startup & daily"
- Catch when trying to display non-existent live report
- Fix "Unknown" spool type for Historical and Alarm/Event archives
- Fix report placement bold/underline
- Fix Edit box "Accept" button grey starts for numbers/dates/etc
- Fix web printing indexing bug
- Local Panel
  - Fix possible incorrect "display active" flag on start-up
  - Fix memory leak
  - Fix report preview xml
  - Fix qrcode xml
- XML
  - Fix default ADC slot in <ADC\_Calibrate> request
  - Fix missing NTP sync mode "startup & daily"
  - Fix memory leak
  - Fix bug when sending <Notify> packet to server

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25 September 2025 Page 35 of 38

## 4v6r6-6970 (from 4v5)

### **New Features/Mods:**

- General
  - Add support to be able to update OS via firmware update.
  - Add support for multiple tar files per zip file.
  - Web calendar now shows "creating archive" box when downloading zipped reports.
  - Add support for Report/Live Screens "Visible" pins.
  - Improve support for modbus formats in comms.
  - Allow groode reports to be printed to Postscript printers
  - Add "force visible" tag for TFX report items
  - Add FTP info to Constants Log
  - Add SDCard and FTP error flags
- Web
  - Re-instate "Show Last 30 Reports" now we're using calendar view.
  - When no web printer routing set, hide the printer icon.
  - Add support for "appstatus" pin. This allows custom messages/status to be shown in the header section of the web displays (where the Device ID, Alarm Indicator and Time/Date are shown).
  - Add support for "FTP Upload".
  - Remove 60sec auto-update from trending charts
- XML
  - Added following requests;
    - <Alarm\_Log\_Index>
    - <Event\_Log\_Index>
    - <Report\_Routing>
    - <Constants\_Log>
    - <ADC\_Calibrate>
  - Only allow admin/metrology logins.
  - Add FTP support to <Report\_Routing> request.

25 September 2025 Page 36 of 38

- Add FTP support to <Printers> request.
- FTP
  - Add support to push reports in TFX format (with fallback to Text or TSV)

### Fixes:

- General
  - Fix TFX "real" to "alpha" conversion.
  - Rework spool filenames to prevent filename re-use (and hence lost print jobs).
  - Handle issue when LanguageInUse <= 0 on local panel.
  - Fix bug on local panel mimic not showing "value + units" style.
  - Fix post-boot network check so it rescans network settings before checking validity.
  - Increase post-boot network check to 30 seconds.
  - Allow Slave Comms to close gracefully when signalled.
  - Ensure printer routing setup correctly on coldstart.
  - Ensure database updated on comms timeout.
  - Improve support for Table lookups.
  - Various Time/Date handling improvements.
  - Fix display of "default" system screens.
  - Add missing ALVs on DST change-over events.
  - Allow entry of empty strings, where applicable.
  - Fix missing edit name if changing Languages pinid.
  - Various smaller bug fixes.
  - Fix incorrect TFX epoch.
  - Fixed Network Port Indexing.
  - Fixed Web Printing Indexing.
  - Fix Modbus Master/Slave

25 September 2025

#### Web

- Fix menu "read access" checking.
- Fix sitemap "active item" checking.
- Fix table popup for reset-to-n pins.
- Don't show "invalid" event info.
- Fix "site icon" favicon.
- Fix missing "delete" icon in printer spool.
- Web calendar improvements to prevent lost report items.
- Fix system menu column spanning.
- Add CSS to support "centered button-only" items.
- Fix incorrect parsing of cookies.
- Fix HTML when display tree empty.
- Limit max # columns on web displays.
- Reposition and resize edit 'gear' icon to top-right of each entry.
- Various CSS tweaks.

#### XML

- Remove/fix redundant code.
- Check NMI link for metrology pins.
- Ensure logged events always have a username.

### Licensing

- Fix issues when changing license type.
- Correctly initialise license info.

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25 September 2025 Page 38 of 38