

# MectSuite v3.4.4 release notes.

## What's New

### v3.4.4 [2025-10-20]

#### Fixed Issues

##### System

- Minor bug fix.

### v3.4.3 [2022-11-29]

#### Fixed Issues

##### System

- Fixed ATCMLabel Windows installer.

### v3.4.2 [2022-11-22]

#### New Features

##### System

- Added new user function `bool getRamInfo(int &nMemTotalMB, int &nMemFreeMB, int &nSwapTotalMB, int &nSwapFreeMB)` to get memory usage summary via code (must include `global_functions.h` in your code).
- Added new methods (setter) `setQStringValue(const QString & stringValue)` and `setValue(char * value)` to set edit vaule to alphanumpad.
- Added getters `QString getQStringValue()` and `void getValue(char * value)` to retrieve entered value in alphanumpad.
- Added a Line for user prompt to alphanumpad and 2 setter `void setQStringValue(const QString & stringValue)` and `void setValue(char * value)`.
- Added libMosquitto v2.0.14 MQTT library on Target and added iptables rules for ports 1883 and 8883 for MQTT.
- Added swap file support (commands `mkswap`, `swapon` and `swapoff` in `BusyBox`) to be used on EXT3 formatted SD Card.
- Added RAM and SD Card Swap file info in info page.
- Added FastIO to Events management.

##### Crosstable Editor

- Added checkbox in UI to allow enable/disable prepend "C\_" to variables names.

##### MectApps

- Added Alarm\_Translation: How to traslate during Code execution Alarm messages (from Cross Table).
- Added String via Modbus registers: How to expose on a Modbus TCP srv a 10 Byte Character String.
- Added Temperature Control: Example of a room temperature control via a PLC written in Ladder.
- Added DynamicList2Combobox: Ho to read, edit and write List of string from text file to HMI using `QStringList`, `QListWidget`, and `QComboBox`.
- Added DemoAlphanumpad: How allocate a Virtual Keybord only once per HMI Page to speed up interface update and save memory. Show usage of new alphanumpad metods.

##### Utilities

- Added `sysupdate_factory.sh` to reset factory and simple configuration on Target (as done in Cloner, for blind panels).

#### Fixed Issues

#### System

- Fix numpad and alphapad layout and colors.
- Fixed display of alarm title in alarms system page.

#### Crosstable Editor

- Fix Bug #1904 Crash QtCreator activating Multiline Edit.

#### Cloner

- Excluded SD Card mount point from Cloner Backup/Restore.

## Changed Features

#### System

- Review of SDCheck and SDCard script to allow swap file setup (for EXT3 formatted SD Card).
- Review of sysupdate\_netreset.sh, now network configuration is fully reverted to Factory settings.

## v3.4.0 [2022-04-27]

## New Features

#### System

- Added new function `get_wifi_signal_level()`, `getBoardGateway()` to `global_functions.h`.
- Added new library pages "login\_pwd" and "set\_password" for user level management.
- Added while (PLC\_EngineStatus < 2) loop in `setup()` function in `automation.cpp`.
- Added new icons in `libicons.qrc`.

#### Crosstable Editor

- Added "Paste MPN100" function to add to Crosstable MPN100 variables.
- Added new Tab to show Event/Alarm variables in project.
- Added new variable "PLC\_MS\_VERSION" with Mect Suite Version in Hex format.

## Fixed Issues

#### System

- Fix ATCMLabel display and input via numpad for UDINT variables.
- Fix screen saver for all 7" models.
- Fix to version sysupdate, hmi.ini not overwritten.
- Fix Alarms/Events on system time variables (eg. PLC\_Seconds) not rising.
- Fix ATCMLabel message box in numpad range checking.

#### Crosstable Editor

- Fix Serial Port parameters display in System editor.
- Fix focus to variable name in "Find" form.

## Changed Features

#### System

- Added reading of global hmi.qss file at application startup.
- Added deploy of a sample hmi.qss (dark mode only for system pages) file for new projects.
- Big review of "net\_conf" page.
- Added new scrollbars.qss loading from libicons.qrc in main.cpp.
- Added styling for QMessageBox with new icons in hmi.qss.

#### Crosstable Editor

- Enabled setting priority to 0 to disable Alarm/Event variable.
- Copy/paste of variables now add a prefix "C\_" to new copied vars.
- Aligned Crosstable.csv for Simple and Prey projects.
- Resized cells in Data Entry variable form.

#### Cloner

- Enable "OPENVPN" and "TIME SET" functions and "Info" page.

## v3.3.8 [2021-05-19]

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### Fixed Issues

#### System

- Adapting FastIO\_7 and Fast\_IO\_8 for new TPX1043\_03\_C.
- Fix Missing <QFile> in pages.cpp.
- Fix "system\_ini" target menu whenever there is "RTU0" but no "RTU3" (TP1043\_01\_A, ...).

### Changed Features

#### System

- Added show password button in numpad and alphanumpad.

## v3.3.7 [2021-05-06]

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### New Features

#### Models

- New TPX1043\_03\_C.

### Fixed Issues

#### Crosstable Editor

- Fix Crosstable Editor crash if no trend found in Project.
- Minor Fixes.

#### System

- Fix H variables reading error.
- Fix Modbus node id check.
- Minor Fixes.

#### Cloner

- Minor Fixes.

### Changed Features

#### Crosstable Editor

- Added Red/Green foreground for Timings column in Devices and Timings tree.
- Added Logged Variables counter in "Logged Vars" Tab.
- Added "Simplify Diagnostic Vars" button.

#### System

- HMI-PLC protocol optimization.
- New alphapad with showSpecialChars option.
- Numpad now can write unsigned integers.

#### Cloner

- Added more restore options.

## v3.3.4 [2021-03-23]

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## Security Features

### System

- Hardening is enabled by default for all machines. For more info check the Help page "Download to the panel of a graphic application"
- Sysupdate now enables Hardening by default.

## New Features

### Models

- New TPAC1007\_04\_AD and TPAC1007\_04\_AE.
- New TPX1070\_03\_D and TPX1070\_03\_E.

### Crosstable Editor

- Advanced variables search.
- New multi line edit mode.
- New 'AnyTPAC043' and 'AnyTPAC070' project templates.

### System

- New NTP feature in Time Set page and ntpclient class.
- Added special ASCII symbols in alphapad.
- New empty line '-;-;' in logs when date and time is manually changed or when NTP sync happens.

### MectApps

- New 4C\_TestSuite.

### Utilities

- New Sysupdates for IP and touch screen calibration reset.
- New get\_trends.cgi.
- First µPython sysupdate release.

## Fixed Issues

### Crosstable Editor

- The Combobox section now follows the current line during the scroll.
- "Undo" button now works well.
- Various fixes in Crosstable and Ui Designer.
- Fix wrong behavior while editing a model not included in the model list.
- Fix TPAC100803XX Tooltip.
- RTU now accept Node ID from 1 to 247.
- TCP\_SRV and RTU\_SRV now checks the next register if a variable is 32bit.
- Added range control (0 to 4095) for Modbus Server variables offset.
- Fixed variable decimals control error if specified by another variable.
- Fixed Error Code 24, can not create a new alarm variable.
- Fix MPNC ColdJunctionT variable.
- Minor fixes.

### System

- Avoided CMD\_GETCHILDREN crash.
- Fixed Timers (ex: TON) overflow.
- In Store Page, HMI is no longer freezed while saving logs in USB .
- ATCM animation now accepts PNG with uppercase extension.
- Splash screen now is correctly closed if the RTC battery is down and date and time is set in Time Set page.
- Workaround for next line while ATCMButton is Pressed.
- JSON from get\_log.cgi now displays the values in the correct order.
- Minor fixes.

### Cloner

- Cloner now adds underscore instead of white space while create new directory.
- Cloner now ask for confirmation before restoring an image.

## Changed Features

### Crosstable Editor

- Max logs size is set by default to 4096 MB.
- Input Registers can be defined in Modbus TCP, TCP\_SRV and RTU\_SRV.
- RTU\_SRV node number can be modified.
- RTU0 fields are no longer editable by users in TPAC100803XX.

- Changed behavior of MPNE\_Anln1Conf and MPNE\_Watchdog for MPNE.
- Changed behavior of PLC\_EncoderCo\_Lo/Hi with no decimal for TPAC100802XX e TPAC100803YY.
- Changed some variables name (PLC\_Pwm\_\* to PLC\_Pto\_\*) in TPAC100803XX.
- Changed some variables name (MPNE\_PTORampUp\_\* to MPNE\_ControlWord\_\*) in MPNE1001.
- Changed paste menu text from "Paste MPNE10 Module" to "Paste MPNE1001 Module".
- Changed priority from 2 to 1 and the port from 0 to 3 when Paste TPLC050 Modules.
- Changed PLC\_EncoderCounter from UDINT to DINT in TPLC050.
- TPAC1007\_04\_AE default RTU3 baudrate is set to 38400 and address 20 (14hex) is not permitted .
- Multiple copy of one line over multiple non contiguous line is now permitted.

#### System

- HMI Network page is now able to connect to hidden wifi networks.
- HMI Time Set page Review.
- CGI Review.
- Internal changes.

## Deprecated

#### Models

- TP1070\_02\_E.
- TP1057.
- TP1043\_01\_B.
- TPAC1006.
- TPAC1008\_01.

## Removed Features

#### Crosstable Editor

- Disabled RTU3 for TPAC1007\_LV and TPAC1007\_04\_AE.

#### System

- Removed old emails from source code.