UniOP Firmware Revision History

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1. Release: 4.10

Release Date: May 14, 1997

1.1 Added

- Support for multilanguage projects.
- Support for Remote Pass-through operation.
- Support for Report Printout.
- [FW33], [FW37] Support for Alarm LED in the TP01R-16 type keyboard.

1.2 Modified

- Changed handling of buzzer. When buzzer operation is enabled in project file, then the buzzer works both as keyboard feedback and can be controlled by protocols such as the VT100.
- Modified handling of key "-" (minus) in Data Entry Mode. Now this key always toggles the sign of the numeric value being entered.
- Modified display of ASCII strings. Now they can overlap static bitmap objects.

1.3 Fixed

- Run-time modified password values were not saved after power-down. This point was already solved in preliminary version 4.09I.
- Corrected problem with the Step macro command. It did not work properly over Control Variables.
- Fixed bug for printing. There was not support for printing "Form Feed".
- Corrected problem in scalable fonts with special (PLC specific) data types. Fields of special data types were not supported in double, large and extra large size.
- Fixed bug in overlay display.
- [FW33], [FW37] Fixed bug related to the usage of the F15 key. It did not work properly when used with the Begin Data Entry macro command.

- Fixed improper use of DL (keyboard feedback) LED that signalled communication errors even when a specific communication status LED was available.
- [FW33], [FW37] Modified touch screen control driver.
- Fixed one bug in report printing.
- [FW33], [FW37] Modified printer driver and printer control by mailbox.
- [FW33], [FW37] Fixed bug in LED COM and LED DL handling for keyboard type 17.

2. Release: 4.13

Release Date: December 10, 1997

2.1 Added

- Added support for Message Strings and Alarm messages up to 80 characters.

2.2 Modified

- Modified data entry mode for numeric field. Modified insert/overwrite operation when cursor is moved left/right.

2.3 Fixed

- Corrected problem in the detection of a valid project file stored in Flash Memory at start-up. The problem is definitely not frequent and only experienced in some units without the back-up battery option. The problem manifests with the unit not going to Operation Mode at start-up even if a valid project is loaded.
- [FW32] Corrected problem in the presentation of horizontal bargraphs in text mode units.
- [FW32], [FW33], [FW37] Corrected a problem in the Report Printout feature. The problem resulted in incorrect printout of pages containing only one data field.
- [FW32], [FW33], [FW37] Corrected a timing problem in the report printout features resulting in some data missing when printing pages with a large amount of data fields.
- [FW32], [FW33], [FW37] Corrected problem of starting a Report Printout through keys when password protection is activated.
- [FW32] Corrected the repetition frequency of the auto-repeat option of the Macro Editor.
- [FW33], [FW37] Corrected operation of increment and decrement macro action. Language selection by INC/DEC the control variable did not work properly when the action was assigned to a touch cell.
- Corrected problem with the mailbox command Set Recipe Transfer Priority that did not work properly.
- Fixed bug in data entry mode in indexed variables. It did not work when the selector was out of min/max range: instead of reporting an error it erroneously made writing to the last valid selected variable.
- [FW32] Corrected problem in LED blinking when running the Profibus DP protocol.
- [FW32] Fixed bug with operation of LED 65 in keyboard driver 21.
- [FW37] Fixed bug causing system crashes when displaying large bitmap objects. Display is now faster.

3. Release: 4.20

Release Date: September 14, 1998

3.1 Added

- Added Recipe menu.
- Added Multipage Recipe support: only one multiple-page recipe is supported.
- Added support for optimised recipe transfer.
- Added support for 32KB of Recipe Memory when large RAM size is installed; the memory recognition size is dynamic.
- The number of supported bitmap is increased to 2048.
- [FW33] Added support for bitmaps bigger that 32KB
- [FW37] Added automatic temperature compensation of display contrast.
- Added "Passthrough Status" control variable.
- Added Step UP / Step DOWN macro handling for Passthrough Status control variable.
- Added options for selective logging of alarms to event list.
- Added option for showing alarms and events without date and time information.
- Added support for event list size up to 1024 entries.
- Added option for disabling FAULT LED blinking for low battery alarm.
- Added support for multilanguage in touch cell text.
- [FW37][FW38]Added support for dynamic colour attributes.
- [FW33][FW37][FW38]Added indication for MIN and MAX values in default data entry screen.
- Added macro commands for field selection with scroll in data entry page.
- Added support for language change from special pages.
- Added support for automatic listing of multiple TCM modules in System Menu.

3.2 Modified

- Update of communication optimisation data base after data entry: after data entry value is written to PLC and if the field is optimised then the same value is written also to data base of optimised messages.
- Return from event list to page mode when event list is cleared is immediate and not after 2 seconds.
- Modification of data entry procedure for bit variables (to enable only digits "0" and "1").
- [FW33] Recall of emergency touch screen calibration procedure has been revised.
- Graphical report printing to IBM ProPrinter using larger buffer for higher speed.

3.3 Fixed

- In Recipes the selected Parameter Set number now is not reset to 0 at power-up.
- [FW32], [FW33], [FW37] - Pass-through with A-B DF1 protocol resets UniOP
- System Menu message errors related to pass-through "PASS-THROUGH" → "OFF_LINEOUGH"

- [FW32] On 20 columns display in System Menu when pass-through was switched on then PLC status was wrong: "COMM ON 05" → "PASSTHR 05"
- [FW32] VT100 protocol did not support blink and highlight character attributes.
- Fixed bug related to Begin Data Entry procedure and go to page.
- [FW33] Background printing in text mode with reverse attribute on the page.
- Background printing and page forced by PLC with RDA.
- Large Size Fonts Synchronisation for better display quality.
- [FW32] Fixed problem with COMM LED blinking with Profibus protocols.
- Bit S5 in RDA was not set in the case of password protected keyboard macros.
- [FW38] For TFT displays has been removed the contrast adjustment in System Menu.
- [FW33], [FW37] Bitmap synchronisation for default touch keyboard.
- Pressing display for 2 seconds on an empty field to obtain Command Menu coded as special key 0x77 (119) to avoid use of the ENTER key.
- Recipe locking during data entry sessions. The bug was that recipe locking checked FieldNr+1 instead of FieldNr. Practically it results with locking if data entry is performed on non-recipe-field whose "next field" is recipe field. Also locking is not activated on recipe field if "next" field is non-recipe field
- Request task resets items PageNr and FieldMsgNr in Request Buffer to zero for users which do not contain valid page/field number; before there remained in the buffer previous value from previous request.
- Mailbox command Request Data Entry was rejected if bit C1 (disable data entry) in RDA PCW was set; correct situation is that mailbox request for data entry must not check that bit.
- [FW33], [FW37] Wrong parts of touch key bitmaps displayed on default touch key.
- [FW33], [FW37], [FW38] Alarm and Event mode list display only 24 rows; large time and date bug.
- [FW33], [FW37], [FW38] Fixed problem with Bitmap scrolling.
- [FW33], [FW37], [FW38] Fixed problem with scroll of rows 30, 31 and 32.
- [FW32] Bad blink and highlight on text display.
- [FW33] Fixed problems with bitmaps updating when only part of bitmaps have to be refreshed.
- Fixed problem with multiple scroll macro in Event and Alarm lists.
- Fixed problem with Data Entry on STI fields. The bug was in the scroll UP and DOWN when there were some empty messages.
- Fixed problem with empty pages during background printing.
- Fixed bug with wrong values MIN/MAX for indexed variables
- [FW32] Corrected representation of date & time in Event List printout.

4. Release: 4.22

Release Date: June 14, 1999

4.1 Added

- [FW33] Automatic contrast regulation on all monochrome LCD graphic displays.
- Screensaver control through mailbox commands.
- Added support for communication speed up to 57600 baud on the PLC port. Speed is still limited to 38400 in models without PC/Printer Port.

- Added support for alarm messages up to 40 characters in displays 2x20 and 4x20.
- [FW33], [FW37], [FW38] Added support for touch screen in panels with keyboard.

4.2 Modified

- Increased indexed addressing mode limitation.
- [FW33], [FW37], [FW38] Touch screen performance increased.
- Performance of background report printout has been increased. Report printout is no longer stopped during data entry or when UniOP is in alarm mode or other system modes.
- Date and Time in RDA are updated immediately after the Time and Date Set page is closed.

4.3 Fixed

- Removed indication of MIN/MAX values in Data Entry page for ASCII fields.
- Corrected presentation of MIN/MAX limits in Data Entry page for fixed point values.
- Corrected presentation of MIN/MAX limits in Data Entry page for floating point values.
- Removed old contents of the input field in customised Data Entry pages.
- Momentary pushbutton did not perform the action associated with the release state, when the fingers is moved out of the cell while pushing on the touch.
- Corrected incomplete printout when packing option is selected.
- Fixed display refresh problem visible sometimes when double/large/extralarge font fields are present together with Date and Time fields in the same page.
- Fixed bug with refresh of dynamic graphics.
- Fixed problem with page colors when on-page customised Data Entry Page is used.
- Fixed some problems due to screen saver behaviour with EL displays.
- Screen saver disabled printing jobs.
- [FW38] Fixed color rasterisation when printing from TFT color displays.
- Fixed bad behaviour when the Report Trigger functionality is forced by changing manually Data and Time.
- Fixed problem with Page Request register handling during Report printout.
- Fixed bad Alarm Page behaviour. In some cases the “last keystroke” condition was not correctly handled.
- [FW33], [FW37], [FW38] Fixed bad behaviour with “Momentary push Button”. Problem is visible when the user is holding down the touch cell and the panel goes in a Special Page: UniOP did not write “0” to the Controller. Now when the panel enter a special page, all the memory locations associated to Momentary Push Buttons are cleared.
- Fixed editing of indexed fields.
- Fixed Report printout problem: it appeared as communication errors only for protocols using TCM modules.
- [FW32] Fixed communication problems when UniNet is enabled together protocols that use TCM Modules.

5. Release: 4.23

Release Date: November 10, 1999

5.1 Added

None.

5.2 Modified

None.

5.3 Fixed

- [FW33] Corrected bug in the automatic temperature compensation of the LCD contrast. The bug may have resulted in occasional and temporary loss of contrast in some units.
- [FW38] Fixed bug causing the loss of functionality of SSFDC memory cards. The bug appears as a result of a rather complex sequence of operations.

6. Release: 4.24

Release Date: February 28, 2000

6.1 Added

- [FW38] Support for 8MB SSFDC memory cards. Requires appropriate CPU board.
- [FW32], [FW33], [FW37], [FW38] “Message only” alarm option. The alarm LED is not turned on.
- [FW32], [FW38] “Cellular style” ASCII data entry for models with the ASCII keyboard.
- [FW32], [FW33], [FW37], [FW38] Enabled support of floating point data types for bargraphs.
- [FW32], [FW33], [FW37], [FW38] Support for SCM03-based internal controller
- [FW32], [FW33], [FW37], [FW38] Added recognition of UIM03 and UIM04
- [FW32], [FW33], [FW37], [FW38] Support for additional manufacturers of Flash chips.

6.2 Modified

- [FW33][FW37][FW38] Touch cells update optimization.

6.3 Fixed

- [FW32] Fixed problems in cursor presentation for small graphic displays.
- [FW32] Corrected background printing problems when TCMxx are present
- [FW33], [FW37], [FW38] Corrected problems in handling touch cells in presence of communication errors.
- [FW32], [FW33], [FW37], [FW38] Corrected execution of macros programmed in the Released state of the key on change of project page.

- [FW32], [FW33], [FW37], [FW38] Corrected operation of step auto-increment in fast auto-repeat macro mode.
- [FW33], [FW37], [FW38] Corrected problems in touch cells when UniNET is enabled.
- [FW33] Improved operation of keyboard when using TCM modules with high interrupt rate.
- [FW32], [FW33], [FW37], [FW38] Number of current parameter set in recipes is initialized to 0 if recipe data is not valid in RAM.
- [FW32], [FW33], [FW37], [FW38] Removed filtering of characters with ASCII code > 127 in the page hardcopy function.
- [FW32], [FW33], [FW37], [FW38] Corrected problem in report printout with the Suconet K protocol.
- [FW32], [FW33], [FW37], [FW38] Corrected double word inversion in the Data Transfer function.
- [FW32], [FW33], [FW37], [FW38] Fixed problems in indexed addressing.
- [FW32], [FW33], [FW37], [FW38] Fixed bug in the presentation of maintained illuminated pushbuttons.

7. Release: 4.25

Release Date: July 12, 2000

7.1 Added

None.

7.2 Modified

None.

7.3 Fixed

- [FW3x] Step macro commands were not working when initial value was out of allowed range for Data Entry.
- [FW32] Fixed bug visible only on VFD displays. The problem was visible with a panel reset when exiting from Alarm Page using the Clear key
- [FW32] Fixed problem visible only using Suconet K protocol. The problem was visible with a panel freezing when printing report under certain conditions.
- [FW32] Fixed problem visible only using Suconet K protocol. The problem was visible in missing data fields during report printout.
- [FW33], [FW37] Fixed problem visible in Communication Error using UniNET. Problem was visible with communication errors reported by a Client panels during writing operations.
- [FW3x] Communication protocols based on TCMxx modules did not work properly when UIM board was used.
- [FW32] Fixed problem visible in random contrast change when keyboard buffer is full. The situation was typical of a very fast page change.
- [FW33], [FW37], [FW38] Macro commands programmed in the released state were not executed when page was changed via PR register in RDA.

- [FW32] Fixed problem visible in panel frozen when scrolling the Event List.
- [FW33], [FW37], [FW38] Maintained push buttons did not behave correctly (sticky buttons).
- [FW33], [FW37], [FW38] Illuminated push buttons did not behave correctly.
- [FW3x] The panel did not return correctly to the operation page when the Help page for alarm was used.

8. Release: 4.40

Release Date: December 11, 2000

8.1 Added

- Introduced new firmware type “58”.
- [FW33], [FW37], [FW38], [FW58] MIN/MAX and old values are now available also in customized data entry pages.
- [FW3x] Automatic logoff password timeout is now adjustable by Designer project.
- [FW38], [FW58] Support for Data Acquisition and Trends.
- [FW38], [FW58] Support for Gauges.
- [FW3x] Support for variable references for MIN, MAX and scaling factors.
- [FW3x] Password logout macro command.
- [FW38], [FW58] Improved font support.
- [FW32], [FW38], [FW58] Support for Ethernet Networking.
- [FW32], [FW33], [FW37] Recipe and Event List back up on flash macro command.
- [FW3x] Macro commands for Internal Controller port assignment.

8.2 Modified

- [FW33], [FW37], [FW38] Touch cells not attached to controller references are now displayed even in case of communication error.

8.3 Fixed

- [FW37] Fixed problem visible in wrong color assignment to some touch cells.
- [FW38] Fixed problem visible under certain conditions with graphic objects overlay in customized data entry pages.
- [FW3x] Fixed problem with keyboard queue. The commands in the queue were not executed if the keys were pressed too fast. Now queue is executed even if keyboard is used.
- [FW38] Fixed problem with cursor drawing in data entry page.
- [FW33], [FW37], [FW38] Fixed problem visible in missing touch cells when the project language is changed via data entry on the control variable.
- [FW3x] Fixed problem with missing old value field in data entry page when data editing is started by a mailbox command.
- [FW3x] RDA page request was blocking the Show Event List and Show Alarm Page macro commands.
- [FW3x] Step macro command on float variables didn’t work.

- [FW33], [FW37], [FW38] Fixed problem visible in missing touch cells when no communication with the controller is active, even if the touch cells are not attached to any controller reference.
- [FW3x] The mailbox did not handle the BCD data format in GET/SET language commands.
- [FW3x] Fixed problem in the keyboard queue when WAIT macro is used. If the WAIT macro is used together some other actions and the key is pressed fast, the panel did wait the end of the pressing actions before starting to execute the commands.
- [FW3x] Old value in Data Entry Page was not represented when Data Entry was started by Mailbox.

9. Release: 4.41

Release Date: March 08, 2000

9.1 Added

- None

9.2 Modified

- None

9.3 Fixed

- [FW33], [FW37], [FW38] Under certain conditions “Go to page” macro commands programmed on touch panels, where not executed correctly.

10. Release: 4.42

Release Date: June 21, 2001

10.1 Added

- [FW38] Event list can be accessed even if empty. Added timeout for automatic exit from Event List page.
- [FW38] Included support for UDP/IP communication drivers.
- [FW38] Included support for TCP/IP communication drivers.
- [FW38] Included support for “?” hardware key. Requires Designer 5.08.06 to be handled in Macro Commands.
- [FW38] Added support for Dynamic MIN/MAX limits in bargraph fields.

10.2 Modified

- None

10.3 Fixed

- [FW38] Touch cell programmed to start a Report Printout was not refreshed correctly and stayed pressed. Visible only using a specific project.
- [FW38] Fixed bug in Data Entry when editing using UP/DOWN keys on Float data format
- [FW38] Trend Windows were not correctly printed.
- [FW38] Fixed problem in Report Printing: equivalent reports were printed in different ways.
- [FW38] Fixed problem in handling dynamic MIN/MAX limits when used on Floating Point data format.
- [FW38] Fixed problem of trend scrolling: under certain conditions the Trend Window was not correctly refreshed after a scroll.
- [FW38] Fixed refresh problem visible using Multiple Data Entry procedure with Auto Scroll.
- [FW38] Fixed refresh problem when doing multiple data entry. It was mostly important in panels equipped with keyboard and no touch screen support.
- [FW38] When using VT100, panel did not enter Terminal Mode.
- [FW38] Cursor was not present in “Page” special page mode and “Password” special page.

11. Release: 4.43

Release Date: July 27, 2001

11.1 Added

- [FW38] Included support for new CPU board. The new series of 4KT32 CPUs, is equipped with BOOT Type 39 and Firmware Type 38. They are still compatible with the older Firmware Type 38.

11.2 Modified

- None

11.3 Fixed

- [FW38] Fixed minor problem visible sometimes in garbage on the screen.

12. Release: 4.44

Release Date: February 11, 2002

12.1 Added

- [FW58] Included support for XSVGA display.
- [FW32], [FW33], [FW37], [FW58] Event list can be accessed even if empty. Added timeout for automatic exit from Event List page.
- [FW33], [FW37] Included support for UDP/IP communication drivers.
- [FW32], [FW33], [FW37], [FW58] Included support for TCP/IP communication drivers.
- [FW32], [FW33], [FW37], [FW58] Included support for "?" hardware key. Requires Designer 5.08.06 to be handled in Macro Commands.
- [FW32], [FW33], [FW37], [FW58] Added support for Dynamic MIN/MAX limits in bargraph fields.
- [FW32] Included support for new UniOP models MD13 and MD23 (custom units)
- [FW38], [FW58] Extended support for static bitmaps. The max number of bitmap in a project is now extended from 512 to 2048.

12.2 Modified

- [FW32], [FW33], [FW37] Recipes and Events backup are not any more executed automatically, but only manually using the proper macro command.

12.3 Fixed

- [FW33] Fixed problem visible in panel reset when changing page very fast. Visible only using a specific project.
- [FW58]Panel reset when starting Report Printing; visible only with enormous report load.
- [FW33], [FW37], [FW58] Touch cell programmed to start a Report Printout was not refreshed correctly and stayed pressed. Visible only using a specific project.
- [FW32], [FW33], [FW37], [FW58] Fixed bug in Data Entry when editing using UP/DOWN keys on Float data format.
- [FW58] Trend Windows were not correctly printed in graphic mode.
- [FW58] Fixed problem in Report Printing: equivalent reports were printed in different ways.
- [FW32], [FW33], [FW37], [FW58] Fixed problem in handling dynamic MIN/MAX limits when used on Floating Point data format.
- [FW58] Fixed problem of trend scrolling: under certain conditions the Trend Window was not correctly refreshed after a scroll. Minor refresh problem fixed.
- [FW32], [FW33], [FW37], [FW58] Fixed refresh problem visible using Multiple Data Entry procedure with Auto Scroll.
- [FW32], [FW33], [FW37], [FW58] Fixed refresh problem when doing multiple data entry. It was mostly important in panels equipped with keyboard and no touch screen support.
- [FW58] When using VT100, panel did not enter Terminal Mode.
- [FW58] Cursor was not present in "Page" special page mode and "Password" special page.
- [FW38] Fixed problem visible in panel reset when changing language via Mailbox
- [FW58] Page refresh was too slow when the project page contains overlaid objects.
- [FW58] Fixed problem visible with panel reset when using a specific project in combination with the SCM11 communication module.
- [FW37] Change filed in data entry mode did have some refresh problems.
- [FW58] the following macro sequence did cause a panel reset: Enter Password, Execute Next If Specified…, Select Filed, Begin Data Entry

- [FW32], [FW33], [FW37] The automatic Recipes and Events backup could cause the panel starting in Configuration Mode under certain condition.
- [FW32] Macro command “Erase text” did not work in data entry mode.
- [FW32] Macro command “Display attribute” did not use absolute coordinate.
- [FW38] The control variable TWx.Cx.YCur did not always display the cursor value correctly when the cursor is moved on the curve.
- [FW38] Touch cell (momentary buttons) did not show the press feedback under certain conditions; the problem was visible using a special customer project.
- [FW32] Cursor in the Event list for ePALM units was not correctly displayed.
- [FW32] Alarm and Event page for ePALM units did show only one item in the list leaving empty the rest of the page.
- [FW58] Panel did show “blank” instead of asterisks for touch cells with not allowed controller reference status.
- [FW58] Panel did show double cursor in the “Recipe Menu” field when the macro command “Confirm Recipe menu Selection” is execute in the same page.
- [FW38] Panel did show garbage in special pages when they are overlaid to current operation pages.
- [FW32] Fixed problem visible with panel reset when doing recipe upload with a Designer project where the Recipes and Events backup flag is enabled.
- [FW58] Dynamic attributes controller references have swapped bytes.
- [FW58] MIN/MAX and Scaling din not work properly on bargraphs
- [FW58] Panel did show garbage on the screen when the “Go to Configuration Mode” command is sent to the unit remotely.
- [FW32], [FW33], [FW37], [FW38], [FW58] Fixed problem visible with panel reset when activating passthrough. Visible only when a TCM module was plugged in.
- [FW58] The download of big projects in panels using the SSFDC media after smaller projects could destroy the graphic part of the most recently downloaded project.
- [FW38] Scaling did not work properly with fixed-point variables.
- [FW58] Dynamic attributes do not work properly when the controller reference is a bit.
- [FW58] Customized data entry screen is not correctly handled. Visible with specific customer project.
- [FW33], [FW37], [FW38], [FW58] Old value is not present in customized Data entry Pages.
- [FW38], [FW58] Panel freezes printing a particular report. Visible only with specific customer project.

13. Release: 4.44B

Release Date: February 8, 2002

13.1 Added

- [FW38] Included support for eTOP05 model

13.2 Modified

- None

13.3 Fixed

- None

14. Release: 4.44M

Release Date: August 6, 2002

14.1 Added

- None

14.2 Modified

- None

14.3 Fixed

- [FW38], [FW58] Fixed Samsung SSFDC support