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The main modifications of every version are listed here.

1 **OptimaPLCRuntime.exe (runtime Optima PLC)**

1.1 **V1.4.10**

- Management of the virtual keyboard, with automatic apparition. Option in the menu Controls. Option in the menu window in the case where the automatic option is not nicked.
- Automatic call of the main page of supervisory associated to the application.
- Creation of a diagnosis Debug Data.xml file
- Taken in account of the jitter for the interval of execution of the tasks

1.2 **V1.5**

- Addition of one specific page for the visualization of the DT temporizations.
- Optimization of the cycle time for the scrutation modbus and modbus / tcp.

1.3 **V2.0**

- Taken in charge of the loading of the online modifications.

1.4 **V2.1**

- Taken in account improved of the modifications of mnemonics at the time of an online modification.

1.5 **V2.2**

- Working in mode reduced without the kernel real time.
- Possibility to adjust the period of the tasks of priority 8 of 2 ms to 20 ms (impact also on the management of the exchanges of E /S managed by Windows functions to this level of priority).
- Visualization ladder improved (dynamic display of the valid paths at the time of the execution).
- ModBus / UDP protocol added to the protocols serial ModBus and ModBus / TCP.

1.6 **V2.2.1**

- Correction of a problem occurring at the time of the closing of the application on some PC

1.7 **V2.5**

- Various optimizations for working without the real-time kernel.

1.8 **V2.6**

- Possibility to visualize the functions in the débbuger (the visualization was limited before to the function blocks and to the programs).

1.9 **V2.8**

- Correction of a display problem sometimes too long in the explorer of variables.

1.10 **V2.8.2**

- Correction of a display problem of display of the tasks data

1.11 **V2.9.4**

- Visualization of the active step of an Apigraf sequence in the "Hint" displayed at the passage of the mouse.

1.12 V2.9.5.5

- Correction of a bug making the PC reboot at application start in some special situations.

1.13 V2.10

- Dynamic graphic view of Apigraf grafacet

1.14 V2.10.8

- Adding the variable UTC to obtain the time in Coordinated Universal Time (time independent of the seasonal time change).

1.15 V2.10.9

- Changes in management retain files on error format (adding a CRC calculation).

1.16 V2.11

- Change in ini files management (no systematic write at end of execution or if there is no change).
- Debugger change (minimum size tree can be hidden).
- Ability to view data exchanged on the serial ports.
- Lists of expression: from 4 to 6.
- Ability to initiate a search in the workshop from the editor ST or Apigraf.

1.17 V2.12.7

- Adding the options "manual commands" in the menu, available when using the library "manual".

2 Drivers.exe (selection of the drivers in Optima PLC)

2.1 v1.4.9

- Displacement of the documentation of the drivers in DriversOptimaPLC.chm, addition of the management of the .chm files.

2.2 V2.3

- Possibility to put a standard driver in mode "simulation."

2.3 V2.10.7

- Hilscher borads : Adding functions to import configuration from SyCon.

2.4 V2.10.8

- Added drivers for cards Advantech PCI-1733 and PCI-1734.
- Fixed critical for access to analogue channels via the driver station connected to a generic Hilscher card.

2.5 V2.12.7

- Corrections in importing data from Hilscher SyCon.

3 OptimaPLCWorkshop.exe (atelier Optima PLC)

3.1 V1.4.9

- Integration of the supervisory in the workshop Optima PLC.

3.2 V1.4.10

- Integration of the Apigraf language in the POU's.
- Addition of the tab "structures" with visualization of the overlapping of the POU's bound to the declarations
- Improvement of the selection of the objects in the diagrams ladder.
- Addition of contextual menus of edition in the publishers text
- Correction minor various

3.3 V1.5

- Addition of the ModBus library
- Operation to copy / glue in the publishers ladder and FBD.

3.4 V1.5.1

- Modification of the management of the DT temporizations: passage in Time, addition of the MilliSecTime conversion function.
- Edition of the SFC diagrams: a problem empêchait in some cases the insertion of a return if all vertical branches of a group ended by a return.
- Possibility to express characteristic constant values: INT#5, WORD#32, etc...

3.5 V2.0

- Modification of the on line application.
- Various improvements in the management of the SFC actions of a SFC diagram.
- Addition of new function blocks and functions.
- Corrections of various minor bugs

3.6 V2.1

- Various improvements in the generation of the code ladder.

3.7 V2.1.2

- Addition of the library Emails, permitting the sending of emails by programming.

3.8 V2.1.3

- Addition of a function of license modification by exchange of code, accessible since the window of consultation of the licenses.

3.9 V2.2

- Possibility of deactivation of the kernel real time in the general options of compilation.
- General improvement of the generation of the code ladder.

3.10 V2.2.1

- Correction of a scrolling problem with the wheel of the mouse under edition in the diagrams ladder and function blocks.
- Modification of the management of the licenses (taken in account of the different versions).
- Addition of the compatibility ChnXXX functions with Apigraf (conversions of numeric values in characters strings).
- Addition of the functions of Time_To_String conversions, Date_To_String, Time_Of_Day_To_String and Date_And_Time_To_String.

3.11 V2.3

(15/2/2007)

- Addition of the management of the users
- Addition of the possibility to execute and to modify on line the application on a distant PC.
- Syntax of programming: .bitX suffix or .bit [X] usable with all whole types to test or to modify an internal bit to a variable, an expression or a constant.

3.12 V2.4

- The libraries memorize the libraries of which they depend.
- Verification of the identity of size of the variables declared in absolute with the AT (the declared variable and the variable préexistante overloaded must have the same size) syntax.
- Correction of a problem of displacement of object in the publisher ladder (the displacement of an initially empty zone provoked an error).
- Correction of a problem of edition of the general configuration (an error was signalled if Apigraf was not installed).

3.13 V2.5

- Correction of a problem empêchant the correct working in the case of a mnemonic on alarm or temporization in Apigraf language.
- Real-time kernel disactivated by default.

3.14 V2.6

- Possibility to define the variables of ANY_INT type and ANY_REAL.
- New PCI1784U library.
- New SharedMemory library.

3.15 V2.7

- Addition of the TOWriteCSV functions, TOWriteLnCSV, TOWriteTab, TOWriteLnTab in the TEXTOUT library.
- Improvement of the system of prévisualisation and impression of the programming file.
- Corrections of various minor problems.

3.16 V2.8

- Corrections of various minor bugs.
- Correction of a memory flight in the edition of the POU's.
- Addition of new libraries (PCI1243U, THERMACAM, PROSILICAGIGE) and new functions in the existing blocks.
- New improvements of the impression of the programming file.
- Automatic visualization of the interface of the blocks overflowed by the mouse.
- Possibility to program the actions in situ of the SFC diagrams in Apigraf or in IL.

3.17 V2.8.2

- Addition of drivers (boards Advantech PCI-1747, PCI-1723, PCI-1780).
- Addition of a library of management of the TC315PCI (3C Concept) board
- Modifications of the driver of the Hilscher generic CIF board
- Correction in the syntax of the sequences in Apigraf language (problem on the word key SEQUENCE).

3.18 V2.9

- The use of function block in diagram ladder or diagram function block, don't require a systematic declaration of the blocks anymore in the part declarations. For it, the name of variable of the block must be left empty. A name of variable is allocated by default then to the

block.

- Addition of the driver and the library for the board IK220 Heidenhain.
- Additions of various functions in the libraries standards.
- Addition of the driver for board Hilscher CIF50-COM dedicated to the CAN communication layer 2 (free protocol).
- Multiple minor bug corrections
- Modifications and improvements of the management of the mode multiprocessor. Optimization of the times of treatment and commutation.

3.19 V2.9.1

- Addition of the FILTERS, SLOPES, LINCURVE libraries.
- Correction of a problem affecting the declarations of Apigraf sequences (tie possibly not created with the sequence if this one is the only used variable).
- Modifications for compatibility with Windows Vista
- Modificataion of the format of the libraries to integrate some bilingual information of use.

3.20 V2.9.4

- New option in the properties of the POUs permitting to use a function without parameter nor return type as a macro from the supervisory.
- Possibility to test the activity of a SFC sequence step from the outside of the block (syntax: InstanceBlocName.StepName.X).
- Correction of display problems in the textual editors.
- Integration of the Digimétrie driver USB-ROPTO16.
- Integration of new functions of for interraction with Windows and control of the runtime display (SYSTEM library).
- Modification of the behavior in case of compilation error (possibility to continue or to stop the compilation).
- Corrections and various minor improvements

3.21 V2.9.5

- Corrections in functions ValReal, ValLReal, ValInt, ValDInt, ValLInt
- Correction in function FileReadLn
- Test for availability in download of a new version from Optimalog website

3.22 V2.9.5.5

- Minor corrections
- Library FTPClient added, some new functions in other existing libraries
- Corrections in char type management (assignments)
- Driver for PCI-1762 (Advantech) added

3.23 V2.10

- Corrections and various improvements concerning the Apigraf language.
- Possibility to visualize the resulting diagram of an Apigraf sequence
- Periodic automatic save of the project in progress in subdirectories of the "Backup" directory situated in the project.
- Addition of the support of Optima Datalog (Datalog library) allowing a database access by SQL requests.
- Various additions in the standard libraries.

3.24 V2.10.1

- Correction of a bug preventing modifications canceling in SFC and in ladder.
- Improvements concerning the visualization of the values of the expressions in Apigraf

3.25 V2.10.6

- Automatic transmission system of internal diagnostic data (improving software quality).

3.26 V2.10.7

- Correction in the internal management of the date and time (sync with the Windows clock).

3.27 V2.10.9

- Critical correction in internal timings management to avoid a deadlock.
- Changes in the SFC editor to see the steps to cause a return.
- Management of function blocks declared in an array or structure.

3.28 V2.11

- New menu option "re-open" a project.
- New library: 7Zip (compression and decompression of files)
- Adding search capabilities file (Files library).
- Possibility to run the workshop with a runtime license in "read only" mode.

3.29 V2.12

- Possibility to choose the default project directory

3.30 V2.12.7

- Add the library "Manual" and the ability to manage manual commands.
- Fixed a problem in "online change" management, in the case of real-time kernel disabled.

4 SuperGW.exe Optima View (Supervisory workshop)

4.1 V4.53

- Addition parameter "automatic Closing" at the end of n seconds in the supervisory forms

4.2 V4.54

- Correction problem annulment definition of the objects of supervisory.
- Addition object of supervisory "Display Hour"
- Addition object of supervisory "Display dates"
- Addition object of supervisory "Calendar"

4.3 V5.0

- Access to the variables OPTIMA PLC or APIGRAF directly with the TCP / IP sockets
- Possibilities to connect to the OPC server of the market
- The complex expressions are decomposed directly in the supervisory
- Addition menu "Diagnoses" in the main menu of the supervisory workshop.

4.4 V5.1

- Addition object "Arrows Loud / Low"

4.5 V5.2

(09/02/2007)

- Addition menu "Tools - > Administrator of alarms." This menu throws or remind to the screen the administrator of alarms centralized: OPTIM'ALARM

- Correction deletion table in the object "Curves"

4.6 V5.3

(01/03/2007)

- Corrections object curves with samples tables

4.7 V5.4

(07/03/2007)

- Internal modifications of all Listviewses in StrindGrid for the XP look

4.8 V5.8

- Modification of the objects curves
- Addition of the object "button in LED"
- Various minor corrections

4.9 V5.10

(07/01/2008)

- Access direct memory of the local samples tables
- Possibility to define some doorsteps in the curves - min and max paramètrables with an expression on the curves
- Gradients (damaged) on the curves

4.10 V5.11

(07/01/2008)

- Possibility to define some doorsteps in the curves - min and max paramètrables with an expression on the curves of the tape recorders
- Gradients (damaged) on the curves of the tape recorders
- Explorer of OPC server
- Addition of the object "Sizes up circular"

4.11 V5.12

(26/03/2008)

- Addition of the "Cursors / TrackBar" tabs with new TrackBases paramètrables
- Window of seizure with unwinding list: Addition of the option "Affectation of the index of the element selected to the expression." Correction various on the object.
- Addition of a function button in the tab button: Button tidy appearance with integration of an icon that permits to call one macro

4.12 V5.13

(31/03/2008)

- Update helps on line

4.13 V5.14

(08/04/2008)

- Object window of edition: Possibility to display the types time, date, time_and_date, time_of_day of optima PLC to the format Dates / hour and to seize some date / hour values in the window.

- Object window of special edition: Possibility to display the types time, date, time_and_date, time_of_day of optima PLC to the format Dates / hour and to seize some date / hour values in the window.
- Addition of the object Window of edition Dates / Hour that permits to seize of dates / hours with automatic opening of a selection calendar for the Types date and of seizure specific Hour / Minutes / Seconds for the Time types
- Object Folder: memorization of the order of the pages with the safeguard with the possibility to specify the index of page of the folder opened by default.
- Object Calendar: possibility to supervise expressions of type dates or date_and_time coming from optima PLC as for the DateTimePicker object
- Addition of the Menu Diagnoses - > Samples tables bound in memory that permits to visualize a window of diagnostic correspondent. This window permits to see the general data coming from the tables of measure bound in memory.

4.14 V5.15

(17/04/2008)

- Virtual keyboard: possibility to have an automatic virtual keyboard on the window of seizure. Addition of the option "automatic "virtual Keyboard in the menu: Options - > general Options
- Objects windows of seizure, special seizure, window to unwinding list: Addition of parameters bound to the virtual keyboard. Possibilité to deactivate the virtual keyboard in particular for a window of seizure and to specify the type of virtual keyboard (alphanumeric or numeric)
- Addition of a palette of functions of alignment of the objects in the workshop
- Modifications icons of the main menu

4.15 V5.16

- Modification of selection of projects form
- Directory of projects is now "Projects" and no more "Projets"
- Directory of examples is now "Examples" and no more "Exemples"
- Addition of object circular gauge with needle
- The standard cursor object functions with Real variables
- The Scroll bar object functions with Real variables
- Object gauge, meter : the values min and max function with real variables
- Management of the protective USB Optimalog dongle for autonomous version
- HINT : possibility of input on several lines in a memo
- Addition translucent function button object
- List of the local macros: Ordering of the macros in the alphabetic order
- Addition of "EXCEL link" object and new tab of EXCEL objects

4.16 V5.17

- Modification of main menu (Size of the buttons)
- Improvement of diagnosis window of the OPC client - details on the server
- Addition of local macro DIAGCLIENTSOPC that permits to diagnose the links with the OPC server

4.17 V5.34

- Added new object type indicator 1
Adding new push button type 1
- Fixed window resizing settings shape object
- Helpfiles bilingual

- Adding object event handler in "Other"
Used to trigger macros on rising or falling value of an expression or boolean variable.

- Fixed cut objects in a panel
- Fix multiple selection of objects

- Object Button PNG adding square types yellow green blue and red
- Object seeing PNG adding square types yellow green blue and red

- Object Area click: Adding expression activated monostable or bistable
- Object Recipe Correction: If a directory is specified for loading a recipe.

- Object Glow Button: Fix resource consumption
- Object Glow Button: Added expression by activated monostable button.

- Object Glow Button: Added expression by activated monostable button.
- Object Button Windows: Adding expression by activated monostable button.
- Palette alignments: Adds buttons to move selected objects by 1 pixel up, down, left and right
- Corrections for execution Macros draft area click, various buttons
- Adding local macros:
 - HideCursor: hides the mouse cursor in the supervision (needed for touch screens)
 - ShowCursor: redisplay the mouse cursor in the supervision
 - HideSuperWindow: Cache Page supervisors passed as parameter or the current page
 - ShowSuperWindow: Displays the supervisors passed in parameter
 - BringToFrontSuperWindow: Sets the foreground page to supervision

- Fixes bug on advanced trackbar object - problem with very large values of MIN and MAX ranges from very small scale.

- Fixed flickering object Display Date and Object Viewing Time
- Fixed Buttons for Glass and Glow icon justified + refreshment low notes on the button Glow

- Added option "mono / bistable" on purpose "pushbutton"
- Input objects: the tab key no longer takes into account the entry windows that are ReadOnly

- Adding Macro ReloadImages which causes the file to the image object to be reloaded. Scans all pages open supervision.
- Adding the Windows Media Player object

- Image Subject: Adding a property "Maintain image proportions"
- Adding macro: CopyPageBitmap (C: \ CURVES) CopyPageBitmap (\ CURVES) CopyPageBitmap
- Create a bitmap copy of the current page of supervision in the current directory if no parameters or in the directory passed as a parameter eg C: \ CURVES rep or under the project eg \ CURVES

- Fixed virtual keyboard: problem when changing page

- Fixed CPU time consumption with strings in the edit window standard
- Fixed CPU time consumption with strings in the edit window special
- Object Browser Enhancements
- Ability to name objects (without spaces and special characters)
- Possibility to force an invisible object and all sub objects (useful for panels, ..)
- Possibility to cancel forcing invisible to an object and all its sub objects (useful for panels, ..)

- Update Macro COPYPAGEBITMAP
- Updated online help Media Player object
- Adding input X and Y size of the window of supervision
- Added option "Stayontop" window always in foreground in the options page of supervision.
- Integration of virtual keyboard to input a password opening page
- Added macro EnableVirtualKeyboard

- Added macro DisableVirtualKeyboard
- Image Correction Re: "Keep my image proportions" with option "Adjust image size to the size of the object. Also works with the "centered image"
- Correction option window can be closed "pages supervision. The window is closed with RuntimeClose or Close

4.18 V5.38

- Fixed keyboard : Position adjusted
- Possibility to define an opening position for the supervisory pages
- ListBox Object: A change in the value of the expression associated with the object modifies the selected item.
- Adding object Flash Player to play files Adobe ShockWave Flash

5 ServAPIOPC.exe (OPC server Apigraf IP)

5.1 V5.31

- Integration of the Comp type

5.2 V5.32

- Internal modifications (Infos of the file)

5.3 V5.50

- Remove the requirement to precede the items of the local IP address.
- Ability to predefine items with a type different from the default string type.

6 OptimaAlarm.exe (Optim'Alarm)

6.1 V1.1

- TypeAlarme addition: Writing YES / NO in a file
- TypeAlarme addition: Temporization of hold in account alarm

6.2 V1.2

- Possibility to associate an icon to a type of alarm. The icon appears then in beginning of the alarm line
- Files automatic monthly texts

6.3 V1.3

- Management sending of email: To configure emails first in the menu Configuration - > Sending of emails then to specify by default in the definitions of the alarms the name of the dest
- Correction button user to use the parameters (example: call of a supervisory form)
- Non protected trial version: function solely with OPTIMA PLC and no with the OPC server of the market

6.4 V1.5

(29/01/2007)

- Management of the users - definition of the users among several groups. Possibility to give some rights for the discharge or the modification of the definitions of alarms
- If one executes a second time the software, the executable thrown déjà gets forward plane
- Relief on the seers of groups of alarms

- Management of the protective key

6.5 V1.6

(14/02/2007)

- Automatic starting parameter
- Writing Login / Logout infos in file text
- At the time of the creation of a new alarm, the initial fields are duplicated since the selected (if an alarm is selected in the list) alarm

6.6 V1.8

(07/03/2007)

- Addition option starting of the main window minimized if automatic starting of the application
- Sorting of the alarms order of priority then date apparition
- Update window diagnoses sockets data PLC.

6.7 V1.9

(13/04/2007)

- Possibility to have a headband always visible at the bottom of the screen. This headband displays the last active alarm.

6.8 V1.11

(14/04/2008)

- Optim'Alarm can function in Mr. or in Slave. If the mode slave is activated, Optim'Alarm slave connects on an Optim'Alarm designated by his/her/its IP address, these are then the master's alarms that are displayed and the user fear to acquit according to the definite rights the master's alarms.
- The mode slave doesn't require a license.
- Modifications aspect visual main window.
- Corrections to main window refresh with a click on the OptimAlarm icon in the "tray"

6.9 V1.12

- Alarms groups : aspect improved

6.10 V1.20

- Various minor amendments.
- Ability to assign an alarm to two different groups.
- Fixed a problem with the icons associated with alarms, occurring when the icon is not available.

6.11 V1.23.1

- Possibility to submit the activity of an alarm to an external variable.
- Limiting the number of occurrences of the same alarm.

7 Tracks.exe (Optima track)

To splice topic text wretch.

7.1 V1.0

(28/12/2006)

- Creation of the software

7.2 V1.1

- Addition of the management of the users.
- Expressions for the definition of the outputs.
- Indicatory output variables of the working state.

7.3 V1.4

Version including the management of 200 tracks.

7.4 V1.5

Possibility to import or to export the configuration of the tracks since or toward a CSV file.

7.5 V.1.5.1

Correction of an error affecting the safeguard of the configuration.

7.6 V1.6

Two new types of track forçage: until specified one date / hour, and permanent.

7.7 V1.7

Ability to get the links variables directly from the available OPC or Optima PLC variables.

7.8 V1.8.1

Ability to view the schedule for a full year.

7.9 V1.9.1

Ability to change the schedule remotely from a client with no license Optima Tracks.