

Schedule Plus 4 Release Notes

C-BUS

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Schedule Plus 4.12.2

Released

August 2014

What's New

Added support for Toolkit project files larger than 10MB

Schedule Plus 4.12.1

Released

September 2013

What's New

- 25093 Added DALI List/Profile mapping, various bug fixed
- 26834 Added Web Service server (S+ only)
- 26832 PICED logic error when HTTPGet function cannot retrieve URL
- 26849 Error during error report is no timeout page used

Schedule Plus 4.12.0

Released

May 2013

What's New

- 25093 Added DALI control feature
- 26300 Irrigation number of zones increased

Schedule Plus 4.11

Released

June 2012

What's New

- 12778 Update to project file format. Added feature to save as old file format.
- 6728 Selection of default date and time format
- 17437 Added support for Profiles
- 21004 Only list relevant page transitions for sub-pages
- 21073 Fixed various issues with adding new images with same file name as an existing image
- 21315 Added option to offset reactive power in power meters
- 21542 Fixed problem with using non-standard screen resolution
- 21467 Fixed problems with Irrigation Rain Delay
- 22133, 19811, 22117, 22695 Fixed issues with PFR file
- 20529 Password page now times-out
- 21938 Fixed problem with using HVAC with temperatures in F
- 21601 Fixed Sub-Page time-out
- 21636 Fixed problem with dragging C-Bus sliders rapidly
- 22378 Fixed problem with Check Project and HTML components
- C-Gate and C-Bus
 - 21943, 21748 Updates for new C-Gate
 - 6868 Added support for C-Bus Audio Application
 - 22315, 21748 Option for closing C-Gate and C-Bus Networks
 - 20142 Added option to show legacy C-Bus Applications
 - 20326 Changed name of "degraded" network state to "operational"
 - 21888 Show cause of error state on network state form
 - 22239 Handle multiple C-Bus projects open in C-Gate
 - 22027 Handle missing C-Bus project
- System IO
 - 19575 Added in-built system IO for controlling project time-out page
 - 22167 Fixed processor usage display for 64 bit Windows
- Templates
 - 21606 Fixed problem with saving templates
 - 21243 Fixed problem with adding templates to a project with different screen size
 - 22328 Removed unicode fonts from theme templates
 - 18565 Added component templates
- Schedules
 - 20289, 20766 Made control of logic modules from Schedules simpler (Schedule Editor button opens logic)
 - 21240 After editing a Schedule, reselect same tree node and Schedule if possible
 - 22455 Prevent use of Schedules with the same name
- Logic
 - 21569 Improved warning W005 in logic compiler
 - 23015 Fixed problem with operating system using comma as a decimal separator

- 20289, 20766 Made interaction of Schedules and logic Modules more apparent on Logic Editor (module icon has + if a Schedule or Component controls it)

Schedule Plus 4.10

Released

June 2011

What's New

- Power Meters
 - 20490 Fixed problem with Power Meter Total Energy in-built System IO
 - 20652 Fixed problem with entering daily power meter history data
 - 20615 Clarified definition of a "weekly" energy period
 - 20618 Fixed calculation of energy average when history data is incomplete
 - 21553 Fixed problem with deleting energy tariffs
- Sub-Pages
 - 20327 Added time-out to sub-page frames
 - 20329 Fixed Check Project with sub-pages
 - 20522 Fixed problem with copy and paste with sub-page links
 - 20453 Added menu item and Keyboard Shortcut to quickly select theme pages and sub-pages
 - 20362 Fixed problem with detecting duplicate sub-page frame names
 - 20684 Fixed problem with using templates containing sub-pages
- 19034 Added Moon phase In-built System IO Variables
- New options for Calendar Components
 - 19034 Show moon phase
 - 16536 Show when selected Schedule is due
- 19212 Fixed problem with Snap To Grid at right and bottom edge of screen
- 20603 Do not show On and Off as levels for Trigger Control Application
- Schedules
 - 20644 Fixed minor problem with editing repeat Schedules
 - 15536 Added new In-built System IO Variables and template for Schedule editing
 - 16536 Option for Calendar Components to show when selected Schedule is due
 - 10405 Allow Schedule Sync Special Function to be used in logic
 - 19573, 19571 Improvements to adding Special Days
- 20498 Saving project caused page change if theme page displayed
- 18384 Improved handling of MIME e-mail messages
- 6714 Added map for selection of project Location
- 15736, 20973 Improved entering/exiting Operation Mode
- 20974 Added menu item to right click pop-up menu to activate a component
- Logic
 - 7562 Do not run logic engine when there is no code
 - 14551 Fixed problem where logic appeared to be running, but wasn't
 - 10405 Allow Schedule Sync Special Function to be used in logic
 - 20975 Raise compile warning for use of non-existent measurement channels
 - 21003 Raise compile error for un-terminated comments
 - 21151 Fixed problems related to starting the logic engine
 - 21438 Fixed problem with very large amounts of logic causing software to freeze
 - 21504 Fixed reporting of line number for run-time errors

- 17539 Added logic functions for
 - UDP
 - Ping
 - DNS
 - Network Adaptors
- 21013 Fixed "fade" page transitions
- C-Gate
 - 16666 Allow sending of C-Bus lighting commands while network is syncing
 - 19066 Added program option to automatically re-connect to C-Gate if connection fails
 - 21475 Allow larger projects to be used
- 21041 Reduced minimum width for level components showing In-built System IO values
- 21350 Fixed problem with using non-default POP3 and SMTP port numbers
- 21363 Only show leading zero on time hours if displaying 24 hour format
- 21380 Set default value for nudging System IO variable

Schedule Plus 4.9.2

Released

August 2010

What's New

- 20168 Fixed problem with using projects created with V4.7.2 or earlier where C-Bus Key Function is being set to unused

Schedule Plus 4.9.1

Released

August 2010

What's New

- 20014 Fixed problem with the "C-Gate Test (NOOP)" option causing opening then closing C-Bus networks
- 20019 Added logic functions for controlling Sub-Pages
- 19974 Use of Selectors was causing a memory leak
- 19999 Changed method of selecting a Schedule's Scene slightly
- 20037 Added HTTP Post logic functions
- 19979 Improved method of positioning forms with dual monitors
- 20048 Fixed problem with Check Project report
- 19576 In Schedule Manager, do not show non-C-Bus schedules in Groups node
- 19994, 20040, 20082, 20129 Fixed minor problems with using Sub-Pages and Frames

Schedule Plus 4.9

Released

July 2010

What's New

- 6969 Added concepts of Sub-Pages
- 6969 Changed display of page lists to show page type with icon
- 18662 Added support for showing energy for Power Meters
- 18317 Fixed problem with pause while e-mail was being downloaded from server
- 19191 Fixed exception with Scene Matrix Manager
- 19134 Fixed problem with having no time-out page causing screen to freeze
- 19094 Fixed problem with using delete key on Scene Editor
- 19145 Fixed crash when trying to set operating system time to match C-Bus
- 19142 Fixed problem with re-sizing HTML component
- 17434 Allow Unicode to be used in C-Bus tags
- 6790 Show unit names in unit address lists
- 17151 Included image server application for use with Web Cam components
- 18618 Include "notes" with User Manual
- 18915 Automatically include project fonts in the archive
- 17438 Fixed problem with form size changing between operation mode and editing mode
- 19238 Fixed exception when importing archives without copying C-Bus project
- 19286 Allow log form font to be selected
- 19567 Only time-out pages when in operation mode
- 19884 Fixed problem with saving very small floating point values to project file and power failure recovery file
- 18189 Fixed problem with entering level for Scene Component in Scene Editor
- 19960 When deleting pulse power meters, references are now updated
- Logic Changes
 - 19073 Fixed problems with displaying logic help file
 - 7076 Updated case statement to include else clause and remove run-time range check
 - 6608 Added HTTP data procedures
 - 19289 Updated logic editor keyboard shortcuts
 - 17154 Fixed problem with C-Bus level list on Logic Wizard
 - 19586 Prevent continual sending of Measurement App messages onto C-Bus from logic
 - 17622 Fixed exception when doing Find Next

Schedule 4.8.3

Released

April 2010

What's New

- 18873 Fixed problem with HTML component
- 18519 Pulse Power Meters could not be deleted
- 18829 Fixed problem with opening Matrix Scene Editor
- 6977 Added DurationToString procedure
- 18621 Show partial path of open file on form caption
- 18801 Only allow use of Trigger Control Application for Action Selector labels

Schedule Plus 4.8.2

Released

March 2010

What's New

- 18693 Logic Component Property functions caused slow memory leak in logic engine
- 18755 Fixed problem with "invisible" components sometimes being drawn with a border
- 18675 Fixed problem with the Security Armed Level in-built system IO variable being inconsistent with different security panels
- 18793 Allow sliders to use On/Off and Dimmer key functions
- 18754 Add buttons to clear selected component Images
- 18868 Fixed editing of Schedule Collections
- 18872, 18873 Fixed problems with HTML Component
- 18937 Monitors were not working with networks in degraded state
- 18948 Fixed problem with editing clock showing Logic Timer

Schedule Plus 4.8

Released

February 2010

What's New

- C-Bus:
 - 17137 Show summary of C-Bus networks on status bar
 - 18299 Show units which are in error state and added "degraded" state
 - 18349 Added option to control networks going into error state
 - 6844 Allow configuration of custom key functions
 - 17994 Fixed problem with C-Gate "tree" stopping ramping and timing groups
 - 12642 Added support for C-Bus Media Transport Control Application
 - 17493 Added Power Meter Manager and support for Pulse Power Meters
 - 16705 Allow C-Bus Measurement Application messages to be sent
 - 14585 Allow more time for C-Gate to connect on start-up
- Components:
 - 6940 Allow user to add notes for Pages, Components, Scenes, Schedules and Irrigation
 - 17699 Allow a Component to be made invisible
 - 12668 Added Outline border style to allow status indication using border thickness
 - 17331 Stretched images drawn 1 pixel too small
 - 18545 Components with no border drawn 1 pixel too small
- Sliders:
 - 7045 Added minimum/maximum values
 - 8996 Allow space at end of slider slot to be selected
 - 17738 Added option to use an image for a slider bar
- New Special Functions:
 - 12642 Media Transport Control
 - 18113 "re-start"
 - 18260 Purge graph data
- 17138, 7571, 12982, 9699 Various changes to improve the Project Details Wizard
- 18404, 18077 Fixed problems with PCs with no serial ports and improved listing of COM ports
- Log:
 - 17754 Log a warning message if processor usage is high for a sustained period
 - 18223 Show unit address for received messages
 - 17991 Allow text to be copied from log
- 15113 Added option to Scenes and Schedules to prevent them from being edited
- 18129 Updates to Power Failure Recovery:
 - Store graph data
 - Store power meter data
 - Monitored Groups now saved in project file
 - Don't save PFR file for templates
- Logic Additions:
 - 12134 Added HasChanged function

- 9272 Added functions to allow logic to control page and component properties
- 17623 Added StringToIntDef function
- 9268 Added TrackGroup2 procedure
- 7037 Added Power function
- 18634 Added pos2 function
- 13120 Added C-Bus/Insert Group Tag to pop-up menu
- 14149 Added C-Bus Tag functions
- 18589 Updated Windows manifest to improve usability with Windows Vista and Windows 7

Schedule 4.7.2

Released

October 2009

What's New

- 12475 Reduced the processor usage by the log form
- 17776 Reduced the processor usage when receiving C-Bus messages
- 12569 Fixed problem with log "Remember Settings" option
- 17808 Fixed problem with sending characters in the range \$80 to \$FF to serial or a socket
- 17639 Allow the Security Status Request function to be used in Logic
- 17730 Fixed exception which could occur sometimes when clicking on the workspace
- 17755 Allow baud rate of all serial ports to be set
- 17872 Cancelling adding a new user caused an exception

Schedule 4.7.1

Released

September 2009

What's New

- 10236 Can now hide specific errors in the Check Project Report
- 17403 New in-built System IO variables to show start-up date and time
- 17463 Copy and Paste did not include "word wrap" property
- 17465 Installer was missing See32.DLL file
- 15178 Fixed problems with having "&" in file name or path
- 16514 Display first graph point sooner
- 14020 Fixed a problem with paint format for buttons with text status indication
- 10686 Added ScenIsSet logic function
- 17449, 17245 Improved selection of Schedule repeat days
- 17536 Fixed bug with running under Windows 7
- 13354 Added template with Wiser look
- 17573 Added button to copy active image to inactive image when selecting custom image for button
- 17591 Send HVAC refresh messages spaced 10 seconds apart
- 17596 Raise logic compile warning if using string constants longer than 50 characters
- 17590 Only change system time if a received C-Bus Time message is more than 5 seconds different
- 17450 Improved selection of page using arrow keys or mouse scroll wheel
- 17630 Clear Security entry delay if disarming system while entry delay is in progress
- 17639 Added Special Function to send Security Status Request message
- 17652 When selecting a System IO variable for a component, display relevant variables
- 17651 Show component type at top of Component Properties Form
- Logging
 - 12569 Added Remember Settings option to set log state on start-up
 - 17336 Added more details to log on start-up
 - 17030 Log a message if a Schedule does not send C-Bus message because of not being Master Unit
 - 16980 Log a message when the Logic Engine has stopped

Schedule Plus 4.7

Released

July 2009

What's New

- 16603 Allow Non-English (Unicode) characters to be used throughout the software
 - Scene, Schedule, Access Control, E-Mail Account, System IO names etc
 - Component text
 - String System IO variable data
 - Logic
 - Log file (saved as UTF-8)
 - Can not use Unicode characters in C-Bus tags
- 16688 Added options for how the software starts up
- Logic:
 - 17413 Support Unicode in Logic to allow use with any language:
 - Logic string functions
 - Variable, constant, function, procedure and module names
 - Comments
 - Added OrdW and ChrW functions
 - 16603 Added functions for converting to and from UTF-8
 - 6644 Allow the logic editor fonts to be selected
 - 13082 Allow // comments to be used
 - 16787 Added socket functions to right click menu
 - 17041 Fixed the IsCBusUnit function for Colour C-Touch
 - 17330 Fixed problem with "Wait until C-Bus is on-line to start logic" option
 - 17356 Fixed problem starting logic engine after PC has been running for a very long time
- 17041 Fixed the reporting of negative values on the Measurement Application
- 16836 Fixed problem with having no time-out page
- 17356 Fixed problem with start-up page not working
- 17101 Improved the way off-grid Components snap to the grid
- 17304 Raise error if C-Bus project does not exist on computer when opening project archive
- 17358 Added option to not use regular C-Gate "tree"
- 17357 When importing a project archive, do not transfer C-Bus project by default
- 6855 Improved support for PNG images
- Added Wiser images to the Image Library

Schedule Plus 4.6.1

Released

May 2009

What's New

- 16893 Group Address levels were being reset by the C-Gate "tree" response
- 16847 Project notes were losing all but the last line when saved
- 16834 Non-printing characters in user System IO string variables were not saved correctly

Schedule Plus 4.6

Released

April 2009

What's New

- 16605 Allow longer e-mail addresses
- 16576 Fixed problem with undoing move of groups of components
- 13876 Added option to delay logic until C-Bus is connected
- 16754 Fixed problem with manual irrigation control on slave units
- 16762 Fixed problem with logic ServerSocketHasClient function

Schedule Plus 4.5

Released

March 2009

What's New

- 12641 Added support for E-Mail
- 14900 Encrypt all passwords in project file
- 14274 Simplified project export archive form
- 15569 Added option for pages to be listed in alphabetical order
- 15723 Allow use of delete key for deleting most items
- 15114 Updated templates for irrigation, scene and schedule control
- 14023 Show groups which are displayed by status components in the project reports
- 14911 Improved operation with Windows Vista
- 15070 Updated C-Bus Time Mastering algorithm
- 16442 Added Slim Interface
- C-Gate
 - 14585 Improve reliability of connection to C-Gate on start-up
 - 13640 Start C-Gate with selected memory properties etc
 - 15116 Added details of C-Gate messages to Advanced C-Bus Fault Diagnostics manual
 - 16461 Log C-Gate messages for command failures
- Components:
 - 14930 Updated Tools to place multiple components at once
 - 12001 Text justification/alignment now available for all relevant components.
 - 12001 Added Word Wrap for Level Components.
 - 14604 Added options for Graph axis labels
 - 15109 Fixed aligning with component groups
 - 14434 Allow selection of properties when placing Tools
- Schedules:
 - 14212 Improved repeat Schedules
 - 6909 Added random Schedules
- Logic:
 - 12465 Added GetCBusTimer logic function
 - 15644 Added IsWiser logic function
 - 15280 Allow logic to use more than one client TCP/IP socket
 - 15379 Raise error C270 if there is a semicolon before an "else"
 - 15879 Added IsMasterUnit function
 - 13083 Added GetUnitStatus function to show if a unit is operating
 - 12768 Allow selection of in-built system IO properties when using editor pop-up menu
 - 16232 Improved the "round" function
 - 12641 Added E-Mail logic functions
- Irrigation:
 - 15796 Added example project
 - 15858 Fixed "Irrigation, Run Zone" special function

- Load Monitor:
 - 15157 Allow Load Monitor duration and energy to be set independently
 - 15122 Load Monitor Total Energy in-built system IO showed wrong value
 - 15118 Allow selection of e-mail account. Put more details in e-mail.
- In-built System IO variables:
 - 13549 Added many new variables for Schedule control
 - 15112 Added controlling Scene Component ramp rate
 - 15879 Added controlling Master Unit
 - 13549 Changed display of in-built system IO variables so that they show as blank if invalid

Schedule Plus 4.4

Released

August 2008

What's New

- 12735 Added ability to Refresh C-Bus Tags
- 13323,13702,13716,13777,13788,13800, 13886, 13888, 13889 Updates to HVAC Application
- 7793 Added Calendar Component
- 6850 Added Graph Component
- 4933 Added tool to open graph data in Excel
- 9316 Changed to using HTML help (needed for Windows Vista)
- 9322 Allow files used by logic to be included with project archive
- 13306 Allow Power Failure Recovery file to not be included with project archive
- Updated example projects and templates
 - 13310 Added call for meals logic template
 - 13271 Updated logic graphing example
 - 13287 Added Valentine's Day template
 - 13774 Added Thermostat template
 - 12568 Updated tools template to include separate page for installer tools
- 13233 Fixed problem with deleting user System IO variables
- Added new logic functions :
 - 7032 Added ability to control RS232 hand-shaking lines from logic
 - 13661 Added option to log logic TCP/IP messages
 - 13758 Added HVAC Zone constants
 - 7003 Added more forms for entering logic function parameters
 - 13590 Added TextBlock procedure
 - 12961 Added more details on using in-built system IO to help file
 - 7033 Added TextHeight and TextWidth functions
 - 13576 Explained usage of constants in help file
 - 13272 Added FileExists logic function
- 13707 Prevent forms from opening off-screen (for example, on a second monitor)
- 13358 Only default network was able to be selected in Error Reporting Application
- Added new "Tools"
 - 13198 HVAC Zone Group State in-built System IO variable
 - 13323 HVAC Set Level Type and HVAC Set Level Type Name in-built System IO variables
 - 13329 User System IO variable
- 12251 Added Special Function to show project and installer details
- Updates for Error Reporting Application
 - 13444 Changed naming for error types
 - 14012 Handle new messages
 - 14067 Handle All OK message correctly
- 6879 Components using a preset with System IO now show status correctly
- 14005 Renamed some in-built system IO variables
- 14275 Allow aspect ratio of images to be maintained when resized

- 12590 Added ability to set default Location (country and city)
- 12595, 13113 Prevent project from incorrectly showing as having changed

Schedule Plus 4.3

Released

February 2008

What's New

- 13063 Fixed problem with setting the PC time under Windows Vista
- 13063 Added information to FAQ about using with Windows Vista
- 13038 Support the Temperature Broadcast application
- 13084 Access level of first page was being reset to level 1
- 13080 Allow the use of the tab key in the logic editor
- 13065 Fixed a problem with networks unable to be selected when there is no network 254
- 12740 Get confirmation when automatically closing C-Gate
- 6911 Fixed problem with deleting Schedules
- 8714 Allow the order of items in lists to be changed with drag and drop :
 - Scenes
 - Scene Components
 - Schedules
 - Irrigation Zones
 - User System IO

Schedule Plus 4.1

Released

December 2007

What's New

- 12856 Added option to allow multiple copies of software to run simultaneously
- 12667 Added option to remember tab selection on Component Properties form
- 12678 Added ability to log logic serial messages
- 12664 When editing C-Bus settings, don't reset level when group is changed
- 12774 Default to toggle timer, not retrigger able timer
- 12581 Simplified completion of drawing an arbitrary shape
- 12654 Allow the use of C-Bus tags with in-built system IO
- 12625 Added help about using labels form
- 12663 When auto-creating animations, handle missing file path
- 12963 Sync Update messages from C-Gate were causing ramping groups to stop
- 12801 Updated to accept new C-Bus Error Application messages
- 12981 Added new Tools for shutter relay control

Schedule Plus 4.0

Released

October 2007

What's New

- 6686 Added the ability to hyper-link from this form to help file topics. Click on the links below to see the help file topic.
- 11140 Software licences are now done with a hardware protection key
- 9738 Added the concept of "in-built" System IO variables and new Special Functions to support
 - 6886 Components for viewing and editing Irrigation
 - 6888 Components for viewing and controlling logic
 - 6889 Components for viewing and editing Scenes
 - 6883 Components for viewing Special Day type
 - 6884 Components for viewing Page name
 - 6885 Components for viewing and editing Schedules
 - 6887 Components for viewing and editing Access Control (and passwords)
 - 9659 Components for viewing system resources
 - 9739 Added ability to change date and time using Components
 - 9108 Added ability to monitor C-Bus network states using in-built System IO
 - 7639 Added ability to show & control state of C-Bus connection via in-built system IO
 - 6882 Added ability to show Load Monitor information using Components
 - 7082 Added ability to show whether Daylight Savings is set
 - 7008 Added ability to send labelling commands by setting the value of label In-Built System IO Variables
 - 10645 Added System IO variables for alarm functions
 - 10629 Added support for System IO variables for Black and White C-Touch
 - Non-lighting C-Bus Applications (see below)
 - 9740 Added new Tools to support the above
 - 10513 Added ability to monitor and control in-built System IO variables from logic
- Support Non-lighting C-Bus Applications
 - 6864 Changed mechanism for the use of the C-Bus Measurement Application
 - 6863 Added ability to use the C-Bus Security Application
 - 6862 Added ability to use the C-Bus Telephony Application
 - 6877 Added support for C-Bus labelling commands
 - 8479 Added ability to use the C-Bus Error Application with Components
 - 6867 Added ability to use the C-Bus Air Conditioning Application
 - 10810 Added ability to show selected C-Bus Applications in the log
 - 10907 Added C-Bus Concepts Help file
- 7336 Allow C-Bus Network properties to be selected :
 - Whether to use the Network in the project
 - Whether to open the Network
 - Whether to send Time, Security, HVAC and Telephony messages to it
- Added new support documents :
 - C-Bus Concepts
 - C-Bus Networks

- Advanced Fault Diagnosis
- Changes to graphics :
 - 9973 Allow the Alpha Blending level to show status
 - 6851 Added ability to draw lines (with shape component)
 - 6861 Added ability to draw arbitrary shapes (with shape component)
 - 6773 When clicking on circular and triangular shapes, only select the component if within the actual border
 - 6707 Added ability to do more flexible animations
 - 10419 Added Tools | Images | Create Animations to speed up the creation of animations
 - 6855 Added support for static GIF images
 - 6855 Added Tools | Images | Convert Animated GIF to convert animated GIFs to animated bitmaps
- Improved Media control :
 - 5703 Added Special Function to show iPod control panel
 - Added choice of four skins for Media Client (can also add user created skins)
 - 10462 Added option to automatically start iPod Server and to select the Media Client skin
- 6925 Irrigation Manager updated
 - Replaced with a "wizard" style form
 - Added network to enable group
 - Added a description for irrigation Programs
 - Added network to irrigation Program trigger
 - Added an in-built Schedule manager for irrigation related Schedules
 - Updated help file to clarify operation of irrigation
- 9506 Added selection of C-Bus properties for components from Toolbar
- 9238 Changed method of selecting C-Bus levels
- Changes to C-Gate usage :
 - 8898 Added program option to close C-Gate when the program closes
 - 7456 Improved handling of C-Gate disconnections
 - 6329 Documented the C-Gate Fast Start process
 - 10931 Improved opening of C-Bus Networks
- Changes to Scenes :
 - 6821 Implemented the Indicator Kill message to simplify use of remotely triggered Scenes
 - 6772 Show scene status correctly if a group is ramping towards the scene level
 - 6724 Added report to show summary of Cascaded Scenes
 - 9654 Added a warning if the same group is used twice in a scene
- 9258 Using the log was causing the screen to flicker
- 6958 Only allow one copy of the software to be running at once
- 8152 Added a Monitor Manager to support the use of Monitor components and monitors in logic
- 10443 Added ability to show "negative" colours :
 - Component Properties form has option to show negative of standard images
 - Page | Negative Colours menu item changes page colours to their negative (black becomes white and vice versa)
- 8665 Added ability to save and load installer details easily

Minor Changes and bug fixes since V3.9 :

- 12180 In the Project Details, a page can now be selected to be displayed when the alarm is sounded.
- 6787 List all changes made when projects are converted
- 10945 Improved the way the time display is updated to prevent seconds being skipped occasionally
- Changes to Logic :
 - 7052 Allow use of hexadecimal values for char constants
 - 11261 Allow logic to use temporarily functions designed for a different project type for testing purposes
 - 11726 Added option for logic WriteLn out to go to log
 - 7640 Added warning if lots of successive commands in logic set C-Bus instead of using a Scene
- 10290 Fixed problem with sunrise and sunset schedules when the offset caused the schedule to occur on the next or previous day
- 9931 Fixed bug with adding tools template from project Wizard
- 10059 Fixed Refresh Images for animated images
- 9910 Fixed detection of duplicate scene triggers and added ability to show list of Scenes with duplicate triggers
- 6930 Added Rain Delay special function
- 9630 Fixed confusion with Level Convert form
- 7594, 7620, 7705 Disable various buttons when additional Scenes, Schedules etc can not be added
- 8655 Updated Check Project report format
- 9472 Ramp to level 0 option was not working correctly
- 9323 Added files used by project to the Project Summary report
- 9211 Use correct terms for "groups" and "levels" on all Applications
- 10476 Do not broadcast time updates near midnight as it may cause problems.