

InteliSCADA

Monitoring tool for ComAp devices

SW version 3.1.0

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1 General information

This version contains support of a new product and several bug fixes.

1.1 Clarification of Notation

Note: *This type of paragraph calls the reader's attention to a notice or related theme.*

IMPORTANT: This type of paragraph highlights a procedure, adjustment etc., which can cause a damage or improper function of the equipment if not performed correctly and may not be clear at first sight.

WARNING: This type of paragraph highlights a procedure, adjustment etc., which can cause a damage or improper function of the equipment if not performed correctly and may not be clear at first sight.

Example: This type of paragraph contains information that is used to illustrate how a specific function works.

2 Changes in the version 3.1.0

2.1 New features

- Support for new devices and applications
 - Support for IntelliGen 1000 Marine Applications:
 - AC Shaft
 - DC Shaft
 - Support for IntelliMains 1010 MarineAC Shaft
- Screens Generation Support
 - Support for IntelliGen 1000 Marine Applications:
 - AC Gen
 - AC/DC
 - DC/AC
 - DC/DC
 - EGen
 - AC Shaft
 - DC Shaft
 - Support for IntelliMains 1010 Marine Applications:
 - AC Shore
 - AC BTB
 - DC Shore
 - DC BTB
 - DC Microgrid
 - AC Shaft
 - Support for IntelliGen 1000 BC Applications:
 - MINT
 - Support for IntelliGen 1000 SC Applications:
 - MINT
 - Support for IntelliMains 1010 SC Applications:
 - MCB
 - BTB
- Access Lock - Requester ID visible for devices with newer firmware for unlock requests
- Converter/Inverter Instrument - AC/AC option added
- New screen icons for Marine site templates added (available in the gallery)
- IntelliNeo MINT - UGCB support added

- Technical Changes
 - Security, stability, and performance improvements
 - Installer optimized
 - IntelliSCADA Backup process improved
 - Logs collection improved for Linux-based IntelliVision devices
 - Added support for exporting device logs via Export All, with progress bar display.

2.2 Repairs

- Fixed an issue where module-related data points were disconnected from instruments after re-import
- Fixed an issue where the software update modal could be closed during an update, causing confusion that the update had been cancelled
- Fixed an issue where Controller modes were not translated to match the controller language
- Fixed an issue where the “Devices” folder was not included when using “Export All” with archives
- Fixed an issue where the mouse cursor position was incorrectly calculated in Advanced Trends when the canvas was zoomed in
- Fixed an issue where IntelliNeo device templates had Alarm List incorrectly set to Multi Alarm List
- Fixed an issue where the IntelliSCADA server could not start after installing Version 3.0 without using the default installation folder
- Fixed an issue where the behavior of the Editable property in DataRow was inconsistent
- Fixed an issue where hiding a screen caused a gap to appear in the screen overview
- Fixed an issue where an incorrect data point was assigned in the IntelliNeo 6000 MPtM device template

3 Changes in the version 3.0.0

IMPORTANT: Due to database and structural changes, we recommend manually backing up sites before installation. Full migration (if selected) will require significant disk space and can take up to several hours, depending on data volume

3.1 New features

- Database changed from MongoDB to PostgreSQL
- IntelliSCADA adapted to work with Linux-based IntelliVision systems
 - System Settings - Utility menu that allows users to tweak system settings to their liking
 - Software Update - Utility that allows users to update the software (IntelliSCADA and Operating System)
 - Cleaning Mode - Utility that allows users to clean the touchscreen without misclicking any on-screen element
- Installation
 - Installer updated to support PostgreSQL installation
 - Users can now choose the scope of migration
 - We recommend saving user data backup to an external drive (as backup files can be several GBs in size)
 - Migrations can take a long time depending on the data volume
- Plug & Play - Automatic Screen Generation
 - Available only with display licenses
 - With modules and customization
 - For selected devices only
 - New tab in Add/Edit site dialog
- Add Site/Edit Site dialog - Improved user experience with tabs containing relevant information
- Screens
 - Improved user experience with tabs and tiles to better locate and navigate the different screens
 - Swipe up gesture brings up the screens overview
- Devices bulk actions
 - Data Point import - Import data points for all selected devices
 - Delete - Delete all selected devices
- Display Pro license - Discontinued
- Security, stability and performance improvements
- Reset History - Clears device history from the database, allowing fresh history data from the device (Will get pulled right after the reset)
- Toolbar height - Now consistent throughout the application instead of Runtime/Preview only

3.2 Repairs

- Export All - Fixed an issue where archives were not being included in the export
- Custom numeric values for setpoints - Fixed a UI issue where selecting the "disabled" option would make it seem to be still set to custom
- Access Lock - Fixed a UI issue where its indication was wrong when the device requested to unlock has disconnected during the procedure
- Trends - Fixed an issue where numeric values were not rounded with sufficient precision

4 Changes in the version 2.10.0

IMPORTANT: When using version 2.1 or older, please update to version 2.5 before installing version 2.10. This ensures a smooth upgrade and a problem-free migration of your valuable data

4.1 New features

- Added necessary support for new firmware versions of multiple controllers, including the IntelliGen 500, IntelliGen 1000, IntelliMains 510, IntelliMains 1010, and IntelliSys 2000.

5 Changes in the version 2.9.0

IMPORTANT: When using version 2.1 or older, please update to version 2.5 before installing version 2.9. This ensures a smooth upgrade and a problem-free migration of your valuable data

5.1 New features

- Support for new devices and applications
 - Support for IntelliGen 500 G2 PV
- Auto-screen templates
 - IntelliNeo 6000 and IntelliNeo 5500 - Multiple changes to fit the 2.0.0 firmware
- Increased the limit for maximum screen resolution from **3840x2160** to **11520x6480**

5.2 Repairs

- Fixed an issue where certain auto-screen templates were not loading properly
- Fixed an issue where busbars were misaligned on a few templates
- Fixed an issue where pressing '**ESC**' with a modal window open deselected the instrument on the canvas instead of closing the modal.
- Fixed an issue where Values and Setpoints were not named properly for IntelliGateway and IntelliFieldbus Gateway

6 Changes in the version 2.8.0

IMPORTANT: When using version 2.1 or older, please update to version 2.5 before installing version 2.8. This ensures a smooth upgrade and a problem-free migration of your valuable data

6.1 New features

- Support for new devices and applications
 - Support of InteliLite 4 AMF 25 - Hybrid
- Auto-screen templates
 - AC/DC and DC/DC applications for InteliGen 1000 Marine - improved with DCCB breaker visibility behavior
 - InteliNeo 6000 and InteliNeo 5500 - Generator removed
- Editor
 - Screen Content Panel
 - Separated into a standalone panel
 - The order of the instruments follows the concept of layers, with the top of the list being the front on the canvas.
 - Instruments
 - Load - New icon available - Ship
 - Generator - New icon available - Bank
 - Converter/Inverter - Icons (AC/DC, DC/DC) are independent of Data Point
 - ESS - Icons (Energy Storage, BESS) are independent of Data Point
- Licenses
 - InteliSCADA Pro License - Data Points per Site limit increased from 400 to 800
- Preview/Runtime
 - Swipe gesture to switch between available screens implemented
- Technical Changes
 - Security improvements
 - Stability and performance improvements
 - Data Version Mismatch screen improved to better explain the actual discrepancy between data versions
 - Color Picker modal improved for a better user experience

6.2 Repairs

- Fixed an issue where it was not possible to change the sample period on Trend Series
- Fixed an issue where multiselect caused issues during certain scenarios
- Fixed an issue where some commands, specifically the ServTime commands, were incorrectly named for recent devices and were changed to Maintenance Timer
- Fixed an issue where Analog Meter warning limits and values were not displayed without sufficient access rights

- Fixed an issue where site connections were not closed properly upon leaving the site
- Fixed an issue where user could not go to site list when using autoconnect and the first site was locked
- Fixed an issue where creating a Trend Source caused navigation in editor stay in "Trend Sources" instead of "Screens"

7 Changes in the version 2.7.0

IMPORTANT: When using version 2.1 or older, please update to version 2.5 before installing version 2.7. This ensures a smooth upgrade and a problem-free migration of your valuable data

7.1 New features

- Support of new devices and applications
 - Support of IntelliGen 1000 Marine - Applications:
 - AC Gen
 - AC/DC
 - DC/AC
 - DC/DC
 - Support of IntelliMains 1010 Marine - Applications:
 - AC Shore
 - AC BTB
 - DC Shore
 - DC BTB
 - DC Microgrid
 - Support of IntelliSys 2000 - Applications:
 - SPtM
 - MINT
 - SPI
 - Support of IntelliNeo 530 BESS - MINT
 - Support of IntelliNano AMF 5 - AMF
- Communication Loss Detection
 - The IntelliSCADA application now supports Heartbeat (periodic signal indicating normal operation) for devices that support it (IG1000 Marine, IM1010 Marine)
 - The user can now set a terminal heartbeat ID in the Runtime Application -> Settings -> Settings, which is used to identify the terminal sending the heartbeat in a device
 - The indication of communication loss with a device has been enhanced by additional visual clue which is a red toast, blinking connection status icon, and also an alarm to notify the user and ensure a prompt response

Note: The alarm is turned on by default, but it is possible to turn off in the Add/Edit Site dialog by checking the "Audible Warnings" checkbox
- Editor
 - Added new images to the gallery (e.g. centrifugal ventilator, new Battery/BESS icons, 2-way valves (electric, pneumatic, motor))
 - Advanced Trend and Trend - The newest value is now represented by a dot at the end of the line

» BESS Instrument

- Has been renamed to ESS (Energy Storage System)
- Has a new property **Type** (Battery or BESS), which serves the purpose of changing the icon of the actual instrument and loading of the corresponding data points according to the type of the device

Note: All BESS instruments used with INeo 5500 and 6000 were migrated to the ESS with Type set to BESS(out left). **Be sure to check the INeo 5500 and 6000 templates and their corresponding user screens to ensure everything is correct. If necessary, change the ESS type to BESS (out right).**

- » Line and Busbar Instruments - Have new properties **Line Style** and **Line Cap** which serve the purpose of changing how the lines are rendered
- » Rectangle - Has a new property **Line Style**
- » Text and Markdown Text Instruments - The user can edit the text inside by double clicking the body of the instrument in canvas
- » The color picker's preset colors were updated to align with ComAp standard color scheme
- » Added support for setting of Timer setpoints
- » Technical Changes
 - » Any open connections for the active site are now closed when leaving the site (Previously, there was a delay before closing the connections)
 - » Installer optimizations - Improved startup time and logs
 - » Windows 11 supported

7.2 Repairs

- » Fixed an issue where screen was not saved during the data points import
- » Fixed an issue where connection was kept when valid access code has been changed to an invalid one
- » Fixed an issue where the calendar icon was too dark when editing the **Date** setpoint
- » Fixed an issue where deviator's base value was not changed after changing the device
- » Fixed an issue where data points did not react to language change after specific bulk change actions
- » Fixed an issue where animations were not synchronized
- » Fixed an issue where application mode could not be switched when the Setpoints window was closed in an inopportune moment
- » Fixed an issue where bars created within Deviator failed to be removed alongside the deletion of their associated device
- » Fixed an issue where it was not possible to add bars to copied Deviator
- » Advanced Trend:
 - » Fixed an issue where data appeared sparse
 - » Fixed an issue where first value to show was defined by the Sample Period (now it is shown immediately)
 - » Fixed an issue where one disconnected device caused the whole instrument to stop showing other trend lines
 - » Fixed issues where manipulating a Trend Source did not correctly reflect in the Trend Series
 - » Removed the link property because it overlapped with any other clickable elements of the instrument

8 Changes in the version 2.6.0

IMPORTANT: When using version 2.1 or older, please update to version 2.5 before installing version 2.6. This ensures a smooth upgrade and a problem-free migration of your valuable data

8.1 New features

- Access Lock
 - Unlock Request - Prepared for upcoming devices
 - Lock Owner ID - Prepared for upcoming devices
 - Audible Warning - An acoustic signal notifies users when the administrator unlocks a device locked by the current user
- Instruments
 - Multi Alarm List
 - Alarms are sorted by urgency and time (previously only by time). They are grouped by protection level in following order: Level2 (Shutdown), Level3 (Sensor Fail), Level1 (Warning), NoLevel (Others), ECU
 - Alarm Confirmation
 - There is no longer a limit on the number of alarms that can be confirmed
 - Only the unconfirmed alarms are displayed in the modal confirmation window
 - Shore Connector - Prepared for upcoming devices
- Setpoints - The editable text or numeric value is now preselected for user convenience
- Sites
 - Automatic Log Out - Added option to disable and configure an automatic user session termination based on user inactivity
- Performance and stability improvements
- IntelliNeo Templates - PVCB Breaker visibility now also reflects the new "PVCB not installed" option

8.2 Repairs

- Fixed an issue where user would log out after refreshing a site
- Fixed an issue where wrong log in attempts would result in log in action being stuck without any result
- Fixed an issue where History incompatibility on devices with older firmware would cause an inability to connect to the device.
- Fixed an issue where the Fault/Horn Reset buttons would incorrectly indicate as unlocked, although the user's access rights were insufficient, and couldn't operate them.
- Fixed an issue where long image names in the "Image Gallery" would cause graphical issues
- Fixed an issue where the connection state for devices would get incorrectly evaluated.
- Fixed a potential security risk
- Server and database error messages were revised to more accurately describe the problem

9 Changes in the version 2.5.1

9.1 Repairs

- Missing device in Alarm List caused a migration fail and a data version mismatch after installing InteliSCADA 2.5.0

10 Changes in the version 2.5.0

10.1 New features

- Support of new devices and applications
 - Support of IntelliMains 1010SC - MC, BTB
 - Support of IntelliGen 1000SC - MINT
 - Editor
 - Bulk change
 - If you select more instruments of the same type, it is possible to make bulk changes to all of their specific properties
 - Valid for all instruments
 - Clone Auto-screen
 - Editing clone of Auto-screen and setting it as *home screen* is possible.

Note: *Data Points need to be imported from all the devices on the site for templates to work correctly on the cloned auto-screen*

 - In Screen Properties is option to hide Auto-screen
 - Image Gallery
 - Image Gallery - added new images (US breakers, animated pumps, propeller, cooler)
 - Shore connector - replaced image
 - Search function is added to the Data Point Selection dialog
 - Screens order - drag and drop can be used to move up or down
- Instruments
 - Converter / Inverter - prepared for upcoming controller
 - "Indicate Invalid Data as Error" - a new instrument property allows to show or hide invalid data indication
 - Alarm List and Multi Alarm List - new Horn Reset and Fault Reset properties are now a part of both of them
- Advanced Trend
 - Multiple trend series in one graph are supported
 - It is possible to add a new trend source using "+" in the Advanced Trend properties (in the *Add Trend Series* window)
 - Show Time Range checkbox to show or hide the Time range option in Runtime
 - Extended retention from 1 to 24 months. To keep the optimal performance a longer sampling period is needed for longer retention
 - Advanced Trend - It is now possible to change font size for specific parts of the instrument:
 - Legend
 - Header
 - Axes

- Others
 - New label in site list Runtime/Designer "Last Used" at site indicating the last visited site
 - Button "Last Used Screen" in the toolbar Runtime/Designer used for navigating to the last visited screen
 - Site list order - (Runtime, Designer) - the last added site is ranked first
 - Preview restriction frequency - 15 minutes interval increased to 60 minutes
 - Default templates for Auto-screen - small adjustments (color, position)
 - Uninstall old MongoDB during IntelliSCADA installation - old version of the database and backups are deleted to save space on disk
 - IntelliSCADA doesn't try to reconnect to controller when invalid credentials are entered

10.2 Repairs

- The selected language was not saved after display restart
- Newly added Trend sources were not displayed in Advanced Trend unless refreshed
- Access lock indication in Toolbar - locked by me (red indication) had lower priority than locked by someone else (blue indication), newly reversed
- Synchroscope did not save configured data points when changing connection between the same device (Ethernet - AirGate)
- IntelliMains 210 G2 - changing the Time and Date setpoints was not displayed in history.
- Access limited indication for instruments - if the user doesn't have sufficient access rights (e.g. to edit setpoint or run commands)
- IntelliNeo 5500, 6000 Auto-screen templates - Bargraph scale limits changed
- Analog Meter needle and warning limit color sections were not displayed after an invalid value
- IntelliMains 1010 displayed erroneous ECU alarms on the default template
- Data Points Selection - sometimes, it was not possible to close dropdown menu for binary data points (e.g. Binary Inputs)
- Bar Graph / Deviator - horizontal scrollbar was displayed in Instrument Properties
- In a special case the "NoUnreadHistoryRecords" message was displayed for IS-GSC

11 Changes in the version 2.4.0

11.1 New features

- Support of new devices and applications
 - IntelliMains 210 G2 – MCB, MGCB, BTB applications
 - IntelliMains 510 – MCB, MGCB, BTB applications
 - IntelliNeo 5500 – MPtM, MINT applications
 - IntelliNeo 6000 – MPtM, MINT applications
- Devices
 - Access lock – You can lock a device so only the user that locked it can control it (Only for devices that support it)
 - Device form – AirGate form improvements
 - Providing a 9-digit AirGate ID changes the AirGate server
 - AirGate key stays secure – behaves like a password
- Editor
 - Image Gallery
 - New images added (I/O, vertical breaker, AC/AC)
 - Tags renamed
 - Instrument properties – Upon inputting an incorrect number (over the maximum or under the minimum value), it will change the value to its respective maximum or minimum
 - It is possible to add instrument to canvas with double-click
 - Minimum screen height changed to 480px
 - Toolbar Height and Font-size is editable by clicking on the "SCADA Toolbar Area"
- Instruments
 - Deviator – New instrument
 - Bar Graph
 - Supports up to 32 bars
 - UI Changes – Bars management
 - Control Button – You can add a custom image to it
 - Data point selection
 - It is possible to use "Multiselect" while selecting data points. For more information regarding the topic, refer to the Global Guide (Only available for Bar Graph and Deviator)
- Technical Changes
 - History – optimization

11.2 Repairs

- Analog Meter and Synchroscope had graphical issues present while being under each other and the visibility function is used
- Busbar/Wire Junction – error state indication did not work

- Paste was available on the auto-screen
- Some modal windows that should've been scrollable, were not
- Sometimes it was not possible to change the application mode and then any other setpoint
- Synchroscope animation caused freezing and slow recovery when screen turned off due to power saving
- The "MongoDB Disconnected" notification was not shown correctly
- Time in History window was shown with regard to Local Time Zone which caused issues

12 Changes in the version 2.3.0

12.1 New features

> Licenses

>> 2 new Display license types

- Display Pro (2 devices, 64 trends sources, 10 trends/screen, IntelliGateway, synchroscope)
- Display Pro+ (4 devices, 128 trends sources, 10 trends/screen, IntelliGateway, synchroscope)

Note: Added in license overview, license check, limitation and activation

>> Display license changed from "Display" to "Display Lite"

>> Trend sources limits changed

- Pro: increased from 32 to 128
- Pro+: increased from 32 to 256

> Runtime and Preview

>> Login to devices in Runtime, new dialog for logging in as another user and back as a default user

Note: Autologout - when a non-default user is inactive for 10 minutes, the default user is logged in again instead

>> Toolbar - responsive (button description disappears on small screens to reduce space)

> Instruments

>> Synchroscope - **available only for IntelliSCADA Display license types**

>> Instrument visibility based on a bit for each instrument

>> Text instrument - padding property

>> Trend instruments - the default left margin was increased

>> Instrument - context menu is available

>> BESS and PV instruments - ready for upcoming controllers

> Editor

>> Toolbar - buttons reduction (Edit group, Zoom group)

>> Canvas - context menu is available

>> Grid - custom density

>> Image Gallery

- Delete image
- Images added (Marine, flow arrows)

> Support of new devices and applications

>> IntelliGen 500 G2 - SPtM, MINT applications

> Others

>> Device language selection - if a device does not know the selected language, the default one is used. The menu contains all languages available on devices of the given site.

>> Forgotten password reset - connection details of all devices will be removed, screens will be kept

- » Zoom
 - In canvas using mouse wheel + Ctrl key
 - Key shortcuts (Ctrl + 0 for 100%, Ctrl + 1 for Fit to Screen)
- » "Hidden Screen" property - defines if the screen is available in the Screens overview in Runtime
- » Login to devices using UID and pin, for devices that support it (e.g. IntelliGen 1000)
- » Fullscreen – Accessible from the settings menu or by pressing the F11 shortcut
- » Runtime and Designer icons – different colors for easier identification

Note: *If the application icons were pinned (e.g. on the Windows taskbar), they need to be unpinned and re-pinned to display the new icons correctly*

> Technical Changes

- » Install package
 - Backup of sites from MongoDB
 - Uninstallation option removes all IntelliSCADA data newly from MongoDB, optional backup of sites and logs

Note: *When updating from IntelliSCADA 2.2.0.50 to 2.3.0, there is no need to check the installation of the MongoDB Community Server 5.0.8.0 component (if it has not been uninstalled)*

- » Data reading optimization for Display licenses
- » Advanced Trend - optimization
- » IntelliSCADA service and MongoDB service recovery settings
- » Export all - MongoDB logs were included
- » About window - OS Image Version was added for Display Licenses

12.2 Repairs

- > Data Row - it is possible to edit a setpoint even if the Editable checkbox was unchecked
- > Busbar/Line - Shift + resize sometimes does not work
- > If there are any not configured BINs on BIN input/output, the configured ones don't display values, but general errors
- > Paste
 - » If no instrument is selected, 3 dots get stuck on the Paste icon
 - » Instrument pasted from another site redirects to the original link
 - » It seems to not work when the clipboard does not contain an instrument definition - a message is displayed now
- > Logo
 - » Wrong logo in the upper left corner
 - » Missing icon for IntelliSCADA in 'Programs and features'
- > After restarting the IntelliSCADA service (in special cases), the loading of the screen does not finish correctly

13 Changes in the version 2.2.0

13.1 New features

- Install package
 - License agreement update
 - MongoDB installation
 - Data migration from LiteDB to MongoDB
 - Backup of sites from MongoDB
- Licenses
 - IntelliSCADA Display license support – new type of license for IntelliVision 10Touch
 - Activation
 - Limitation (1 device, 150 data points/screen, 10 000 data points/site, 16 trends sources)
 - License Details overview
 - Data points/screen indication in Editor
 - License Check site attribute and over limit indications in Designer
- IntelliSCADA Display – available only in IntelliSCADA Display Runtime for IntelliVision 10Touch
 - Opening the 1st site (or site list) after restarting the display
 - Devices tab in Runtime
 - Faster refresh data period
 - Sign out and Switch user menu items in Runtime (for system users)
- Runtime and Preview
 - List of screens in the Runtime toolbar
 - Import site in Runtime
 - Change password in Runtime
- Designer
 - Trends Sources panel to define the storage of data point values
 - new Advanced Trend instrument - linked to a Trend Source, which ensures data persistence
 - Text, Markdown Text instruments – Hide Scrollbars property
 - Scale property design change
- Support of new devices and applications
 - Inteligen 1000
 - SPtM, MINT applications
 - IntelliMains 1010
 - MCB, MGCB, BTB applications
 - IntelliATS 50, IntelliATS 70
 - Mains-to-Mains, Mains-to-Generator applications
 - Inteligen4 200
 - SPtM, MINT applications

- » IntelliGateways 100, 101, 300, 301
- > Others
 - » Sites ordering
 - » Remember password option in the Unlock dialog
 - » Action Confirmation site attribute and popup dialog
 - » About window – new information (Application, Database, Data version), License info only for Runtime
- > Technical changes
 - » LiteDB replaced by MongoDB
 - refactoring, version check, DB issues notification, etc.
 - » Devices of the archive type are not encrypted

13.2 Repairs

- > Control Button - missing commands User button 1-5 for Intel Lite 4 and IntelGen4 200
- > Link in the manual opened in IntelISADA – not possible to go back to IntelISADA
- > Device with invalid login data - error in disconnected status indication
- > Lost connection to the IntelISADA server when refreshing a page or switching tabs in browser
- > Massive outage for 32 devices causes some devices not to connect again
- > Export history fails in some cases (null value or object reference is not set)
- > Multihistory consumes excessive amount of RAM if multiple controllers repeatedly reconnect
- > Incorrect Timer value format

14 Changes in the version 2.1.2

14.1 New features

- Support of IntelliSys NTC BaseBox – Combi application

15 Changes in the version 2.1.1

15.1 New features

- Single bit data point support for IntelliFieldbus Gateway and IntelliGateway

15.2 Repairs

- IntelliFieldbus Gateway and IntelliGateway connection issue if any alarm list values are configured in the communication module.
- Editable Data Row – incorrect indication when access rights are insufficient.
- User relogging sometimes doesn't work correctly when switching sites using the same device(s) with different access levels.

16 Changes in the version 2.1.0

16.1 New features

- Editor
 - Grid on/off + density selection
 - Snap to grid
 - Screen Background Color property
 - Background and Border Color properties for Alarmlist, Multi Alarm List
 - Text Color property for Data Row, Bar Graph, Analog Meter, Trend, Alarm List, Multi Alarm List
 - Device bulk change
 - Now, the Device property is available when multiple instruments are selected, even if an instrument without the Device property (e.g. Text) is included. Using Ctrl + A or selecting the mouse area is thus more beneficial.
 - Number of selected instruments is displayed.
- Runtime and Preview
 - Setpoints window
- Support of new devices and applications
 - IntelliFieldbus Gateway – available for the Pro and Pro+ license types
 - IntelliGateway – available for the Pro and Pro+ license types
 - IGS-NT – PSC application
- Technical changes
 - Backups
 - Recommendation of regular backup of all sites
 - Site backup when closing it in Designer
 - Logs backup during installation
 - Performance optimization (e.g. History loading)
 - Low disk space notification
 - Imported site size limited to 100 MB
 - Custom image size reduced to 3 MB

16.2 Repairs

- Data Points Import – History Loading Failed issue for some controller types (IGS-NT family)
- Export History
 - Last line cut
 - Not complete when history cache is still being processed
- Data points of LED type are not available for default archives of some controller types (IL3 family)
- Control Button instrument – order of available commands in the list after site import
- Incorrect Data Row label in the Editor when Editable checked

- 2 modal dialogs – the bottom one is not visually suppressed
- Values window – optimization of requests
- Connection issues
 - After multiple attempts with wrong connection details
 - Lost connection to the IntelliSCADA server in a specific case

17 Changes in the version 2.0.0

17.1 New features

> Editor

- » New "Text" instrument with format properties (Font Size, Text Color, Text Alignment, Font Style)
- » Original "Text" instrument was renamed to "Markdown Text"
- » Data Row instrument – new properties Font Size, Unit Space
- » Breaker instrument – new properties Active State Color, Inactive State Color. Updated indication of Synchronizing and Init state
- » Busbar and Junction instruments – possibility to control by a LED or a binary data point. For the binary data point option there are new properties available – Invert value, Active/Inactive State Color

IMPORTANT: Important: Reimport of data points is needed if you want to add/edit a Busbar or a Wire Junction in a site created in the previous version of IntelliSCADA.

- » Trend instrument – new properties Header, Header Background Color, Border Color, Background Color, Legend, Left Margin, Bottom Margin, Font Size. Other small changes to save space (e.g. 1 line legend).
- » Background and Border Color properties for more instruments (Analog Meter, Bar Graph, IFrame, Image)
- » Font Size property for Mode Selector and Control Button
- » Instruments panel – sorted alphabetically
- » Image Gallery – images added (e.g. vertical variants), tags updated
- » Data Point Selection – "Invisible" groups included
- » The smallest allowed size of some instruments was decreased
- > Support of new controllers and applications
 - » IntelliSys NTC BaseBox GeCon Marine – SPTM, MINT, SPI
 - » IntelliSys NTC BaseBox GeCon LandBased – SPTM, MINT, SPI
 - » IntelliGen NTC/NT BaseBox GeCon Marine – SPTM, MINT, SPI
 - » IntelliGen NTC/NT BaseBox GeCon LandBased – SPTM, MINT, SPI
- > Technical improvements
 - » Performance optimization – data refresh period, history loading and scrolling, Analog Meter rendering, RAM, Multi Alarm List, Editor/Preview switching,
 - » Licenses – new HW ID format
 - » More info in the log files – HW info, application version

17.2 Repairs

- > Force Values indication
- > ECU Alarm List sums in Preview
- > Mode Selector, Control Button: font size in Editor vs. Preview

18 Notes

18.1 Document history

Revision number	Related sw version	Date	Author
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10	2.6.0	7.12.2023	Jakub Kutka
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8	2.5.0	21.8.2023	Kristýna Urbanová
7	2.4.0	20.2.2023	Jakub Kutka
6	2.3.0	2.1.2023	Dana Salingerová
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