

InteliSCADA

Monitoring tool for ComAp devices

SW version 2.7.0

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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 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

2.1 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 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

2.2 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

3 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

3.1 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

3.2 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

4 Changes in the version 2.5.1

4.1 Repairs

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

5 Changes in the version 2.5.0

5.1 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

5.2 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

6 Changes in the version 2.4.0

6.1 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

6.2 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

7 Changes in the version 2.3.0

7.1 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

7.2 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

8 Changes in the version 2.2.0

8.1 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
 - » IntelliGen 1000
 - SPtM, MINT applications
 - » IntelliMains 1010
 - MCB, MGCB, BTB applications
 - » IntelliATS 50, IntelliATS 70
 - Mains-to-Mains, Mains-to-Generator applications
 - » IntelliGen4 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

8.2 Repairs

- > Control Button - missing commands User button 1-5 for Intel Lite 4 and IntelGen4 200
- > Link in the manual opened in IntelIScADA – not possible to go back to IntelIScADA
- > Device with invalid login data - error in disconnected status indication
- > Lost connection to the IntelIScADA 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

9 Changes in the version 2.1.2

9.1 New features

- Support of IntelliSys NTC BaseBox – Combi application

10 Changes in the version 2.1.1

10.1 New features

- Single bit data point support for IntelliFieldbus Gateway and IntelliGateway

10.2 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.

11 Changes in the version 2.1.0

11.1 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

11.2 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

12 Changes in the version 2.0.0

12.1 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

12.2 Repairs

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

13 Notes

13.1 Document history

Revision number	Related sw version	Date	Author
11	2.7.0	15.3.2024	Jakub Kutka
10	2.6.0	7.12.2023	Jakub Kutka
9	2.5.1	11.10.2023	Jakub Kutka
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
5	2.2.0	13.7.2022	Dana Salingerová
4	2.1.2	28.2.2022	Dana Salingerová
3	2.1.1	13.12.2021	Dana Salingerová
2	2.1.0	10.11.2021	Dana Salingerová
1	2.0.0	18.6.2021	Dana Salingerová