

Main Features

- Alarm Manager: alarms can now be duplicated and imported and exported
- Widget templates and composite widgets can now be imported and exported as instances
- All Roboto fonts can now be used in IQ styling for all widgets
- WebIQ Server project configuration database (project.sqlite) has been removed and replaced by JSON files for better versioning of changes
- The server configuration tool (connectcfg) has been removed as all functionality is now available through the Runtime Manager
- Connections to OPC-UA datasources can now be forced to be encrypted with disabling unencrypted fallbacks
- New widget IQ Trend-Set Select for configuring different trend sets through the HMI

Release Notes

- As the configuration tool connectcfg has been removed it can no longer be used. However, this did not work with WebIQ 2.13 already on Linux.
- If your HMI is using prepared SQL statements which you have manually added to project.sqlite before and which reference project.sqlite itself (the "target_database" column contains "project") your corresponding code has to be modified, because as the database does not exist anymore you cannot perform SQL queries on (now new) JSON files. Instead, there are two options:
- your code has to include the SQL statement itself used to fetch all other associated SQL statements before from the database
- you have to use the Server API (https://www.smart-hmi.com/user/download/deliver/docs/documentation-dev-connect-apidoc-version-2.13.x-e58c/index.html#_db_prepared_list) to retrieve the corresponding SQL statements. Before you have to add an ACL entry for the list/read command.
- In any case, please contact us if you are affected by this issue so we can ensure a smooth transition. Please note that this issue affects only a very small amount of users and cannot be caused by working with WebIQ Designer - you would have to manually edit the database file project.sqlite to cause that issue.

WebIQ Installer

- WEBIQ-3688 Added '(incl. Runtime)' to the development system in the installer to point out that WebIQ Server will also be installed on a development environment
- WebIQ Server
- WEBIQ-3720 Fix: [SECURITY] SQLite database file could be downloaded through the browser. As these include the unencrypted credentials for OPC-UA servers this is a security vulnerability and all OPC-UA server credentials should be considered compromised and changed immediately.
- WEBIQ-3631 Fix: An error message was logged when a websocket was not closed correctly that was not really an error and has thus been removed
- WEBIQ-3650 Fix: The Alarm List did not always show results when the server was running on Linux
- WEBIQ-3664 Fix: When using source timestamps for items in a trend no data was recorded
- WEBIQ-3699 Fix: Runtime Manager: when the connection was lost to WebIQ Server the error message was not displayed correctly
- WEBIQ-3718 Fix: Improved error log in case WebIQ Designer sends an invalid request to WebIQ Server
- WEBIQ-3727 Fix: The Server configuration tool (connectcfg) has been removed as configuration can now be done through Remote Runtime Manager.
- WEBIQ-3739 Fix: Simulation server items were updated at each specified interval regardless of whether they had changed

- WEBIQ-3770 Fix: Added output of parameter --license-agent-host in the command output
- WEBIQ-3778 Fix: When entering a dot in a search input field in one of WebIQ Designer's managers the CPU and RAM load could go up to 100%
- WEBIQ-3791 Fix: Runtime Manager: No error message was shown when connect.sqlite could not be written due to incorrectly set file permissions by the user.
- WEBIQ-3797 Fix: A simulation item with the simulation function 'randomramp' was changed to 'ramp' automatically and three parameters were added.
- WEBIQ-3804 Fix: Runtime Manager: when a master license key with multiple licenses with one license containing an infinite number of tags had been selected, 0 was shown instead of unlimited for tags - this was only a display error.
- WEBIQ-3805 Fix: Path placeholders like %configpath% were replaced by their value and then stored. This resulted in the complete path in the configuration instead of the one with placeholders which is not desirable.
- WEBIQ-3806 Fix: When an alarm had been deleted in WebIQ Designer it remained active and could be triggered. On trigger an error was logged in the logfile.
- WEBIQ-3809 Fix: It was no longer possible to use median aggregation in a trend - if such a trend was used in a Trend display widget no lines were drawn
- WEBIQ-3818 Fix: Trend aggregation using rolling median returned wrong data after some time
- WEBIQ-3825 Fix: Process Data Manager: when browsing an OPC-UA server not all nodes were accessible sometimes
- WEBIQ-3367 Almost all configuration options for an HMI project are now available as JSON files for easier versioning - project.sqlite has therefore been removed.
- WEBIQ-3680 Demos and News can now also be accessed with a proxy configured on the system
- WEBIQ-3702 IO Manager: it is now possible to restrict item updates for a datasource to only be notified when the item value changes - not the item timestamp
- WEBIQ-3707 It was possible to use an older version of WebIQ License agent with WebIQ Server - this will no longer be possible and would only occur with custom non-standard setups anyway
- WEBIQ-3723 It is now possible to enforce an encrypted connection to the OPC-UA server
- WEBIQ-3761 When certain errors occurred that related to Windows WinHTTP interface the exact Windows error code was not shown before - this has been added now
- WEBIQ-3762 Added support for the reverse proxy on ctrlX systems
- WEBIQ-3785 License activation did not work when the Windows "WinHTTP Web Proxy Auto-Discovery" (WPAD) service had been disabled. WebIQ now does not rely on that service anymore.
- WEBIQ-3801 License Agent: can be configured by a JSON file which will now be created by default (it was supported before, but not created if it did not exist)
- WEBIQ-3819 Removed PnP DeviceID from licensing data to prevent licenses from becoming invalid when the firmware or driver is updated (specifically Windows)

WebIQ Designer

- WEBIQ-3227 Fix: When updating to a newer version of WebIQ some dialogs inside the System dialog that had changed were not shown in the latest version because of caching
- WEBIQ-3426 Fix: Layout Manager: When a widget was inserted into a view of a screen sometimes it jumped back to the first view
- WEBIQ-3471 Fix: Localization Manager: when a localization variable was selected and the locale changed the configuration on the right did not change automatically
- WEBIQ-3671 Fix: To prevent an unsupported connection of a newer WebIQ Designer to an older WebIQ Server (for ws-host and ws-port params) this will no longer be possible.
- WEBIQ-3690 Fix: IQ Responsive Menu: in very rare circumstances duplicate entry ids could have been generated leading to follow-up errors

- WEBIQ-3692 Fix: Process Data Manager: In rare circumstances when configuring virtual items they would be shown twice
- WEBIQ-3693 Fix: In certain circumstances an error was shown when configuring a composite widget
- WEBIQ-3694 Fix: An error message was shown and the composite could not be deleted from the widget list when the composite had been created with WebIQ \leq 2.11.0
- WEBIQ-3695 Fix: Process Data Manager: tooltip for input/display limits has been clarified
- WEBIQ-3728 Fix: Item Manager: It was possible to create duplicate virtual item names through renaming
- WEBIQ-3738 Fix: It was possible to select virtual items in Alarm Manager and Recorder Manager even though they are not supported there
- WEBIQ-3749 Fix: UX inconvenience in Responsive Menu configuration allowing users to drag the configuration itself
- WEBIQ-3753 Fix: Composite Widgets: in certain configurations when modifying a composite widget other instances were modified but not the selected instance
- WEBIQ-3763 Fix: The alarm condition != was not displayed correctly in Alarm Manager
- WEBIQ-3776 Fix: Renamed 'less' to 'LESS' in build output messages for better understanding
- WEBIQ-3780 Fix: A localization was missing for an error message that occurred when an access group could not be added
- WEBIQ-3799 Fix: Process Data Manager: when a variable was created with invalid simulation parameters a very generic message was shown - now a helpful message is shown instead that identifies the corresponding variables.
- WEBIQ-3820 Fix: UI-Action composite-placeholders did not allow setting of items and localizable strings
- WEBIQ-2458 Alarm Manager: alarms can now be duplicated
- WEBIQ-3041 Alarm Manager: Removed unsupported alarm condition operations +, -, * and / (no operand can be entered)
- WEBIQ-3494 Alarm Manager: alarms can now be imported and exported
- WEBIQ-3679 The click area in the project list for the three-dots-menu has been enlarged for easier access
- WEBIQ-3681 It is now possible to access the configuration and about dialogs when an HMI has been loaded
- WEBIQ-3683 The widget meta data format has been extended for referring to resources
- WEBIQ-3684 Widget templates and composites can now be imported and exported
- WEBIQ-3691 'Trends' has been renamed to 'Trend Groups' throughout WebIQ Designer
- WEBIQ-3712 When opening the widget list the view navigation will now be moved to the right for better UX while having the widget list pinned and working with views
- WEBIQ-3713 When connected to a remote system using --ws-host and --ws-port these will be shown in the title bar (ctrlX)
- WEBIQ-3715 Now all Roboto font styles can be selected in the IQ styling for texts in widgets
- WEBIQ-3722 When updating a package a lot less messages will be shown, furthermore, errors will be highlighted
- WEBIQ-3746 It is now possible to access the configuration and about dialogs when an HMI has been loaded
- WEBIQ-3788 When connecting to WebIQ on a ctrlX system directly and then to the local WebIQ Server - or vice versa - a login was required in WebIQ Designer as only a single login token was supported.

WebIQ Visuals

- WEBIQ-3391 Fix: Recipe Select: overlay keyboard was not shown on click even though enabled
- WEBIQ-3531 Fix: Auto-Logout time was limited to a maximum of around 28 days (with 'unlimited' still working)
- WEBIQ-3665 Fix: IQ Image Changer, IQ Label, Label: bitmasks did not work with bits \geq 31

- WEBIQ-3670 Fix: Unit classes did not work correctly with alarm widgets and only displayed the unit class number, not the unit class text
- WEBIQ-3689 Fix: IQ Trend: when tolerances were used and did not change for long periods of time this resulted in missing or wrongly drawn tolerance lines
- WEBIQ-3696 Fix: Recipe Edit: when using string items with an enabled numpad in the widget it was also shown on string items
- WEBIQ-3697 Fix: IQ AlarmList: the columns comes/goes did not use the specified global alarm date format localization variable 'alarmlist_dateformat'
- WEBIQ-3698 Fix: IQ Alarm List: a JavaScript error was logged to the console and the filter box displayed '--' by default
- WEBIQ-3706 Fix: it was not possible to make 'Selected Values' and other similar config patterns available to outside the composite in several widgets
- WEBIQ-3717 Fix: Recipe Select, Recipe List: when used inside composite widgets, certain elements were missing in the snippets section
- WEBIQ-3759 Fix: When a recipe had been created followed by a change of the language no further recipe could be created and no error message was shown
- WEBIQ-3779 Fix: Widgets with quick search input fields including in WebIQ Designer: when values were entered in such a field and then characters were deleted using the backspace key the number of results was sometimes not shown correctly in the list.
- WEBIQ-3787 Fix: Composite Widget: when an item property of a condition modifier was set through a snippet and the modifier had been removed an invalid modifier remained that prohibited editing of the composite widget
- WEBIQ-3789 Fix: IQ Radial Gauge/IQ Linear Gauge: When a linear gradient had a value set larger than 100% the HMI could no longer be edited in WebIQ Designer and the gauge would not work correctly
- WEBIQ-3390 IQ Slider: added support for inverted usage, i.e. maximum value on the left, minimum value on the right
- WEBIQ-3705 New API function `shmi.setCompositePlaceholders` allows to change composite placeholder values programmatically.
- WEBIQ-3714 Roboto Black font is now also shipped with WebIQ
- WEBIQ-3716 Trend-Select: now keeps the color, filling, tolerances etc. settings for a trend item after deselecting and selecting it again
- WEBIQ-3719 Trend-Set Select: new widget for managing trend sets through the HMI
- WEBIQ-3721 It is now possible to export trend data with a UI action
- WEBIQ-3726 New functions for custom scripts have been added to detect whether running inside WebIQ Designer: `shmi.isDesignerPreview()` and `shmi.isDesignerEditor()`
- WEBIQ-3783 UI-Action: a new UI Action 'trend-set-values' is now available that can be used to apply trend sets to a trend display widget
- WEBIQ-3795 Screen: new option 'delete inactive views' has been added for performance improvement (but with implications you need to be aware of)
- WEBIQ-3803 IQ Date/Time: the default item 'Systemzeit' will now be preset