

### Software version history:

Released Version	Description
iX 2.20 SP1	Service Pack including improvements and bug fixes
iX 2.20	New release including improvements and bug fixes
iX 2.10 SP3	Service Pack including improvements, bug fixes and support for iX T7BR
iX 2.10 SP2	Service Pack including small improvements and bug fixes
iX 2.10 SP1	Service Pack including small improvements, bug fixes and support for the following targets: iX T4A SoftControl,T7A SoftControl,T10ASoftControl iX T7B SoftControl,T12B SoftControl,T15B SoftControl
iX 2.10	New release including improvements, bug fixes and support for the following targets: iX T7AM, iX T15BR, iX T15BM
iX 2.0 SP1	Service Pack including bug fixes and a small improvement
iX 2.0	New release including improvements, bug fixes and support for the following targets: <ul style="list-style-type: none"> <li>iX T7B, iX T12B, iX T15B, iX T12C, iX T15C and iX T21C</li> </ul>
iX 1.31	New release including improvements, bug fixes
iX 1.30	New release including improvements, bug fixes and support for the following targets: <ul style="list-style-type: none"> <li>iX T4A, iX T7A and iX T10A</li> </ul>
iX 1.20 SP2	Service Pack including support for iX TA Panels, improvements and bug fixes
iX 1.20 SP1	Service Pack including improvements and bug fixes
iX 1.20	New release including improvements, bug fixes and support for the following targets: <ul style="list-style-type: none"> <li>iX Panel K60, iX Panel K70 and iX Panel K100</li> </ul>
iX 1.10	New release including improvements, bug fixes and support for the following targets: <ul style="list-style-type: none"> <li>iX Panel T40, iX Panel T60, iX Panel T70, iX Panel T100 and iX Panel T150</li> </ul>
iX 1.0 SP1	New release including improvements and bug fixes
iX 1.0	Initial release of iX Developer with support for the following targets: <ul style="list-style-type: none"> <li>iX Panels Pro</li> <li>PC</li> </ul>

Supported operating systems	Description and comments
The following versions of Microsoft operating systems are supported:	Windows 7 32 bit SP1 Windows 7 64 bit SP1 Windows 8.1 32 bit Windows 8.1 64 bit Windows 10 32 bit Windows 10 64 bit

### New features, removed functionality and bug fixes in iX Developer 2.20

Version	New features/ Bug fix	ID (internal)	Description
2.20 SP1  b2.21.28	New features	#13390	Added new tab functionality: Close All and Close All But This
		#18649	Added size recommendations for projects. Refer to the manual for specific recommendations.
		#20182	Added functionality so that the “download all source code” check box in the download window is remembered. Also added “Transfer Options” to the options window, where this check box’s initial value can be set.
	Removed	#19632	Support for SQL CE was removed.
		#11412	The bundled database viewer application was removed.
	Bug fixes	#4597	Fixed issue where 3 <sup>rd</sup> party control caused a crash when screen jumping to a screen with alarm viewer object.
		#6585	Fixed issue with gain entries being overwritten when importing variables.
		#8870	Fixed issue where screen jumps to a screen with alarm viewer were slow.
		#9694	Fixed issue with failing project transfer when project’s database is large.
		#12774	Fixed issue where importing large recipe collections was slow.
		#12953	Fixed issue where default text values were not shown after import or export of multiple languages.
		#13046	Fixed issue where a screen with many analog numerics opened slowly

			on certain targets.
		#13406	Fixed issue where import tags gave an exception when using multiple controllers.
		#13472	Fixed issue with the edit button being disabled for exported projects.
		#13522	Fixed issue where the user would get an error saying "DataItem doesn't belong to a global data item or index register".
		#14503	Fixed issue where the value changed event of an analog numeric was fired when closing screen, even if the value was not changed.
		#15198	Fixed issue with database being invalidated when importing a tag list without changes.
		#16101	Fixed issue where the application would crash when using acknowledge all alarms action.
		#16339	Fixed issue with memory leakage when the database reached its maximum size.
		#16572	Fixed issue with numeric keyboard and screen delay.
		#17121	Fixed conversion problems which caused a "Project cannot open due to an unknown failure" message.
		#17147	Fixed issue with an error, caused by the docking control, which occurred when the software tried to open a window.
		#17319	Fixed issue where the selected alarm would change if a new alarm was triggered. The selection will now follow the alarm as it moves down in the list. If the selected alarm is removed from the list, the selection will reset to the topmost alarm.
		#18031	Fixed crash if using alias tags on screen open event.
		#18247	Fixed issue with the media player lagging.
		#18269	Fixed issue with sort order in the project creation wizard.
		#18289	Fixed issue where modified screen saver settings were not downloaded to the panel.
		#18370	Fixed issue with default tag read access with aliases.

	#18510	Fixed issue where action on an internal bool or string tag with condition !=0 would result in an exception being thrown.
	#18568	Fixed issue where converted project would crash in simulation mode.
	#18633	Fixed issue with word wrap not working for certain languages.
	#18634	Fixed issue where some pictures or symbols would be invisible after project conversion.
	#18860	Fixed so that default time zone for new projects is "None" on all platforms.
	#18929	Fixed crash when downloading to target running a project from an older version.
	#18992	Fixed bootup crash where internal tags would be added to the controller file.
	#19101	Corrected the Chinese translation in the start dialog.
	#19033	Fixed crash in simulation mode with project containing SQLite script with join commands.
	#19496	Fixed bug where scaled tag values were stored with too many decimals.
	#19937	Fixed issues with MouseEnter/MouseLeave events when security was configured.
	#19922	Fixed COM registration error when restoring from USB.
	#19983	Fixed issue where decimal values were exported as strings.
	#20013	Fixed issue where dynamic text was not correctly stored in the alarm server.
	#20114	Fixed a security issue where some objects were accessible when they shouldn't be.
	#20267	Fixed issue where export of two recipes with the same setup would generate two different layouts in the export file.
	#20348	Fixed issue where all objects were greyed out in the object dropdown.
	#20412	Fixed issue where the verify project function was not working properly.

2.20  b2.20.2296	New features		Added support for Foreground screen.
			Added support for read/write Tag expressions.
			Added support for passive value change events. <ul style="list-style-type: none"> <li>- The passive event will only trigger when the tag is active, and the tag can be deactivated when it is not in use.</li> </ul>
			Added new object, Tag Monitor.
			Improved performance <ul style="list-style-type: none"> <li>- Screen switching time.</li> <li>- Faster value update rate on screen</li> <li>- Startup time of panel.</li> <li>- Smaller project size. Shorter transfer time More utilized CPU and memory usage.</li> <li>- Added support for screen caching.</li> <li>- Added support for objects with built-in bitmaps will render without transparency               <ul style="list-style-type: none"> <li>o Styled buttons</li> <li>o Circular meter</li> <li>o Linear meter</li> <li>o Trend viewer</li> <li>o Certain conditions must be fulfilled, e.g. no dynamics</li> </ul> </li> <li>- Optimized Function key code generation</li> <li>- Report Generator</li> </ul>
			Added support for SQLite, database. This database is recommended to use.
			Added Database System Tags <ul style="list-style-type: none"> <li>- Database Error Active</li> <li>- Database Error Message</li> <li>- Database Max Size Exceeded</li> </ul>

		<p>Added Database settings in Project Group</p> <ul style="list-style-type: none"> <li>- Database , selection of the type of SQL database</li> <li>- Max size, when exceeded System Tag "Database Max Size Exceeded" is set</li> <li>- Back Up database at startup.</li> </ul>
		Added action "Back Up all Databases for recovery".
		<p>Changed action names for backup actions for database. New names:</p> <ul style="list-style-type: none"> <li>- Back Up Alarm, Data Logger and Recipe Database</li> <li>- Back Up Alarm, Data Logger and Recipe Database for Project Restore</li> </ul>
		Improved handling of database, not deleting all databases when recipe values or Data Logger changed.
		<p>Improved handling of non-volatile values. Non-volatile values are now kept in storage when new version of project downloaded to panel and no longer cleared at startup, i.e. reset to default or initial value, if specified.</p> <p>If previous behavior wanted, use "Clear non-volatile values" action in combination with the "Close application" action.</p>
		Improved Key beep handling.
		Added support for OPC UA when simulating project.
		Support for Windows 8.1.
		Support for Windows 10.
		<p>Improved support for Chinese virtual keyboard.</p> <p>Feature is available for iX TxA/iX TxE/iX TxF-2 panels with image version 1.11 build 1238 or higher and on iX TxBx panels with image version 1.4 build 21 or higher.</p>
		Support for Hebrew, Arabic and Korean virtual keyboards is now also available on iX TxBx panels with image version 1.4 build 21 or higher.
		Improved installation, only one .exe file and improved look and feel.
		Added backup button before conversion between panel types or between versions (2.10->2.20).

			Improved Security, making it possible to change the AutomaticLogoutMinutes and the AutomaticLogoutEnabled properties in Runtime via script.
	Removed		Windows XP is no longer a supported operating system.
			Windows Vista is no longer a supported operating system for iX Runtime. Still supported for iX Developer.
			Preload of screens is replaced by possibility of caching screens.
	Bug fixes	#10087	Fixed issue in iX Web Browser. Address and Home properties were replaced with null values if the address does not exist on local network of the build computer.
		#10316	Fixed issues with recipe database table layout which was rearranged when changing names on recipe items in DesignTime. Now Recipe data columns are always sorted in alphabetical order.
		#13685	Fixed issue with a System.IO.IOException that occurred regularly in log.log files.
		#13687	Fixed issue with sending queries to Non Volatile Database even if no Non Volatile tags were used.
		#13820	Fixed issue with Tag actions which were not working on Closed Event for a Modal Popup screen on panel targets, based on CE OS.
		#14366	Fixed issue with hourglass that was visible infinitely when running OPC UA on iX TxA.
		#14698	Fixed issue with TrendViewer Legend. Float values are now readable in historic mode.
		#14754	Fixed issue with data decimals which were truncated when importing tag list using switch /ImportTag.
		#14967	Fixed issue when using iX OPC UA Server. After communication error recovery, old stored value was presented until next Value read refresh (Polling rate time).
		#15040	Fixed issue with OPC DA Client Memory leak when reconnecting to an OPC server.
		#15175	Fixed issue in Multiple Languages. Strange object text when copying

			object containing multiline.
		#15268	Fixed issue with newly created alarms that are shown in simulation mode but don't show up on TxB panel.
		#15592 #16582	Fixed issue with Data Logger logging double rows/the same active time twice.
		#16101	Fixed issue with Application crash System.InvalidOperationException.
		#16957	Using Beijer Alarm template does no longer generate a build error
		#17240	Target Memory is now aligned between "Create new project"-wizard and when building the project, showing the same value.
		#17307	Fixed issue with Korean keyboard which did not display characters, only   -characters, when Arial font was used in project.
2.10 SP3 b2.16.154	New features		Support for Chinese Characters in Alarm Distribution via SMS  Feature currently only available for iX TxA/iX TxE/iX TxF-2 panels with image version 1.11 build 1238 or higher.
			Support for Chinese Characters Alarm Distribution via printer
			Decreased web client timeout from 15 to 5 minutes.
			Support for setting own user key for translation by Microsoft Translator
			Support for Google Translate and for setting own user key.
			Reference Manual added to the Start-menu.
			Support for Hebrew virtual keyboard.  Feature currently only available for iX TxA/iX TxE/iX TxF-2 panels with image version 1.11 build 1238 or higher.
			Support for Arabic virtual keyboard.  Feature currently only available for iX TxA/iX TxE/iX TxF-2 panels with image version 1.11 build 1238 or higher.
			Support for Korean virtual keyboard.  Feature currently only available for iX TxA/iX TxE/iX TxF-2 panels with

			image version 1.11 build 1238 or higher.
			Enabled FTP access from SD card and USB memory.  Feature currently only available for iX TxA/iX TxE/iX TxF-2 panels with image version 1.11 build 1238 or higher.
			Parameter collection for the alarm distributor's e-mail device expanded with alarm group.
			Improved conversion between Information Designer and iX, regarding Macro.
			Included signed Java applet, which make it possible using Remote Access Viewer even after Java 7u51 update and to use VNC from Web browser even after Java v8 update 25 is installed on PC.
			Added HEX and RGB values for color in property grid.
			Resolved issue with keeping the chosen column width of the Database Viewer in Runtime.
			Added support for SSL encryption of E-mails.  Enhanced performance of the advanced encryption is currently only supported in iX TxA/iX TxE/iX TxF-2 panels with image version 1.11 build 1238 or higher.
	Bug fixes	#13280	Resolved issue with backlight setting "Keep on if notifier window is visible". The setting was not saved after a power cycle of the panel, but is now saved.
		#13337	Resolved issue with Alarms that were not visible if action "Show Screen" was set for the Alarm Group.
		#13395	Resolved issue with Analog numeric objects showing numbers outside the object, if outline was used.
		#13432	Resolved issue with Ellipse objects that were not rendered correctly on panel targets, based on CE OS.
		#14042	Resolved issue, when getting an error message saying "Current row was deleted" due to corrupt database and the panel hanged in the startup phase. Now the database is automatically repaired and the panel is restarted.
		#14207	Resolved issue when changing Daylight saving from summer to winter

			time which did not work correctly in iX TxA panels.
		#14320	Solved issue with tags indicating that they were bad in the tag server when they were not automatically flagged as bad in the OPC/UA server.
2.10 SP2 b2.15.5751	Changed functionality		The default value for Security – Access denied visibility has changed from <b>Normal</b> to <b>Disabled</b> .
	Bug fixes	#8443	Resolved issue with missing backslash '\' on iX virtual keyboards
		#9695	Resolved issue with error message shown for Database viewer object in TxC RT the first time it is opened.
		#9859	Resolved issue with misaligned lines when converting to another target
		#9954	Resolved issue with change of Date and Time in RT that affected the sampling interval of Data Logger
		#9981	Resolved issue with misaligned lines and objects caused by resizing PC project
		#11340	Resolved issue with exporting of Remote Acknowledge Expressions for Alarms
		#12185	Resolved issue with iX Design Time crash when Component Library is expanded
		#12513	Resolved issue with Trend Viewer Legend, not able to access all curves on PC/iX RT
		#12532	Resolved issue in Alarm Viewer - Alarm text not updated if language was changed
		#12549	Resolved issue with database export actions, when configured in scheduler the time format in generated files was changed if project was upgraded from 2.0 to iX 2.10 or iX 2.10 SP1
		#12856	Resolved issue where iX Runtime crashes without generating any crash logs
		#12926	Solved issue with freezing iX Developer when changing target from T7A to PC.

	#13126	Resolved issue with Analog Numeric objects, that could get wrong size in panel runtime/simulator
	#13149	Resolved issue with Audit Trail settings when it comes to Alarm Viewer actions
	#13151	Improved performance when browsing external OPC server.
	#13156	Resolved issue with Remote Access - View Only / Full Access, password does not work
	#13174	Resolved issue with application that did not start up in RT when project was downloaded
	#13182	Resolve issue with panel crash if analog numeric objects have no fill color and screen has no fill color and bevel is used.
	#13278	Resolved issue where lines could be misaligned when converting to another target
	#13350	Resolved issue for iX PC application which took very long to start and when started it crashed within a few days with a System.ArgumentOutOfRangeException exception
	#13360	Resolved issue when changing date/time and then stopping Data Logger, the timestamp of the empty row that was generated in the database was wrong
	#13369	Resolved issue with crash when both OPC UA Client and OPC UA Server is used in the same project
	#13566	Resolve issue where SystemTagScreenName and SystemTagScreenID did not update correctly at moderate CPU loads
	#13646	Resolved issue with tag value that got stuck after momentary action
	#13759	Resolved issue with iX Developer calculating project size incorrectly
	#13860/ #13861	Resolved issues with Data Logger: <ul style="list-style-type: none"> <li>Exceeding maximum number of logged rows</li> <li>Rows missing</li> <li>Multiple log entries for the same time</li> </ul>

2.10 SP1 b2.15.469	Function		Support for new panel targets: iX T4A SoftControl,T7A SoftControl,T10A SoftControl iX T7B SoftControl,T12B SoftControl,T15B SoftControl
			Version check on PC and iX T12C, iX T15C, iX T21C targets. Not possible to download project to mismatching Runtime versions.
			Added OPC UA client subscription settings: Max subscriptions and Max items per subscription.
			Improved tree view visualization when importing tags from OPC servers not supporting browsing of groups and items.
			Alarm Viewer button functionality now available as separate actions, in order to interact with Alarm Viewer from any screen object in the same screen as the Alarm Viewer, or a local Function Key.
	Bug fixes	#4045	Resolved issue Mismatch on drawn objects supporting Bevel and Outline when you check between Designtime and Runtime on iX TxA and TxB panel types.
		#7072	RollerPanel object leak memory on iX TxA and TxB panel types in Runtime is resolved.
		#7083	Animated Label object leak memory on iX TxA and TxB panel types in Runtime is resolved.
		#7095	Action Menu leak memory on iX TxA and TxB panel types in Runtime.
		#7182	Issue resolved when using Chinese OS the font msjh.ttf is selected. This increased the project size with approximately 20 MB
		#7394	When repeat count is active for all alarms and "show latest occurrence" is set in alarm server settings. The alarms always come in the order of first occurrence, even if one alarm is "counted up", is resolved.
		#7448	Changing the name of an alarm group didn't remove the old group name from the alarm viewer filter settings is resolved.
		#9120	When using the OPC UA feature and Multiple tags connected to the same OPC UA address can get out of synch upon rapid toggling, is resolved.
		#9220	When configured and saving a project with panel in Portrait mode could cause that the screen layout will now be shown inside the panel frame area.

	#9324	If you export all the recipes in a recipe collection to a CSV-fil (comma or semicolon separated) and then import that CSV-file back into the recipe collection citation marks are added around string tags, is resolved.
	#11058	Norwegian is now available in Bing translation dialog.
	#11066	In Designtime you can't reuse Dynamic text in Alarmrow when export/import alarms between different iX projects, is resolved.
	#11541	3:rd party controls change names when saving/reloading/converting the project. Result that the project didn't work as expected and Script was not executed correctly, is resolved.
	#12073	Visible dynamics was lost when importing Exter project with objects that having visible dynamics. is resolved.
	#12190	Some objects that is used in the component library in 2.0 SP1 is not converted properly when the project is opened in 2.10. If one object isn't converted the whole screen ends up empty.
	#12205	Miscellaneous issues when converting projects from iX 2.0 to 2.10 is resolved.
	#12207	After upgraded to iX 2.10 and using TxA FW b1080, the application could crash when pre-loading the screens was activated is resolved.
	#12269	If you install iX Developer on a PC that already has Microsoft .NET 4.5 installed then the .NET 4.0 framework will not be installed. This lead to a warning shown in iX Developer.  Suppressed the warning in the iX logger, since the correct assembly will be resolved from the GAC (Global Assembly Cache) internal in the operating system.
	#12443	Using a SetAnalog action and set the value to zero on the first try will could cause mismatch of the value, is resolved.
	#12489	Resolved issue when using the OPC UA feature and idling panel when rest of system reboots will cause a Memory leak in the panel.
	#12494	iX Developer could crash when clicking on Translate button when Custom Culture feature was installed on PC.
	#12495	TxA and TxB panels - Multipicture objects was stretched even though stretch was disabled if lock aspect ratio was disabled.
	#12504	TouchComboBox - Size of dropdown list is changed in iX 2.10 compared to iX 2.0. Now it's possible to view as many items as

			possible on the screen.
		#12574	Analog numeric: Decimal input limits results in strange error message is resolved.
		#12602	Resolved issue in iX Developer DesignTime, reduce the memory consumption, specially for large projects (about 1MB RAM) to avoid OutOfMemoryException.
		#12859	Alarm Distributor, only one of a number of buffered alarms is printed on USB printer is resolved.
		#12889	Text object in Combo box was cut in half, is resolved.
iX 2.10 b2.10.1042	Function		Support for new panels: iX T7AM, iX T15BR and iX T15BM.
			Improved Project and ip settings copy, from SD card and USB
			New action for Project database backup
			SNTP client
			Support for Portuguese language in Developer
			Improved property grid. <ul style="list-style-type: none"> <li>• Possibility to make own favorite property grid</li> <li>• Enhanced action functionality in the property grid</li> <li>• Possibility to expand/collapse groups of properties</li> <li>• Possibility to copy properties</li> </ul> Show only changed properties
			Direct address input on object using Tag browser
			Remove unused tags. Unused tags can be detected and deleted
			Improved translations
			Import of multiple pictures
			Smooth movement of needle in Circular meter object
			Text id on Multiple Languages
			Improved filter functionality in component library

			400 vector based XAML symbols added to the component library
			Support for XAML object
			Script action, to be able to run functions from a script module
			Object variations. Functionality to directly show pre-made graphical design and to save your self-created graphical design.
			Color change on Alarm Viewer, Database Viewer and AuditTrail Viewer
			New Action group "Recent", show 4 latest used actions
			Improved picture browse dialog
			System text import, pre-made texts for some languages
			Shortened startup time for iX Developer
			Support for additional customer features
			Removed obsolete component library symbols
	Removed	#3956	ValueOn / ValueOff event now works on internal tags
	Bug fixes	#3639/ #4091	Screen Close Action does now work correctly if more than one popup are displayed at the same time
		#6995	Popup Numeric keypad from an Analog Numeric object is now not displaying the Prefix and Suffix in it.
		#7285	Resolved issue when Roller Panel in some cases never stopped rolling
		#7598	Resolved issue that there in some cases could be a mismatch between visual tags and tags.neo file after removing tags created using Create series on an object
		#7888	Issue with mismatching Data Types iX Developer <> output when importing Information Designer project containing ASCII object, is resolved.
		#8067	Resolved issues with resizing line that could result in either not resizing at all or if possible a negative value could be achieved
		#8185	Resolved issue that in some cases, when using Create series, changing the address of one tag could change the address of a second tag

	#8312	Resolved issue with memory leak in Alarm Distributor
	#8325	Resolved issue that boot-up time of iX-application was affected by number of logged rows in database
	#8429	Issue with objects moving relative to each other, when using snap to grid and several objects moved simultaneously, is resolved
	#8493	Resolved issue with dynamic min/max of trend curves that did not show its history properly, when leaving screen and coming back
	#8524/ #9137	Removed possibility to edit Outline Thickness in Property Grid for grouped objects, since iX could in some cases crash when changing outline thickness on grouped objects
	#8554	Resolved issue with too many active tags that would make the application crash. The limit is now four times higher
	#8631	Resolved issue with strange time sync problems, by synchronizing between system tag writes
	#8632	Resolved issue with not updating System Tag for Latest Loaded Recipe Name, even if the recipe data was transferred to the controller
	#8697	iX Developer is now able to handle Database export to write-protected ("Locked") SD card, which could crash the runtime before.
	#8780	Resolved issue with default style for button, which could lead to that configuring a button with no outline still resulted in a button with an outline in runtime (WinCE only), by adding a new button default style to be used in design time.
	#8855	Resolved issue with erroneous data in Exported CSV files
	#9002	Resolved issue in Webserver that iX.Tag.subscribeToChange now only should execute the connected function if the value of the tag is changed
	#9073	Resolved memory leak issue, that could result in application runs out of memory and closes, by improving logging to database
	#9287	Resolved issue with communication error notification window that became stuck after a while even if communication was reestablished. The issue was due to date change
	#9334	Resolved issue with application crash when making >1000 screen changes, when having communication error.

	#9360	Resolved issue with graphics corruption in runtime, when an even outline thickness is used at Dynamic move.
	#9362	Resolved issue with text position within analog numeric when aligning text to the right. This did not look good in runtime compared to design time
	#9364	Resolved issue with outline thickness on analog numeric, that did not look good in simulation or in runtime (WinCE only),
	#9507	Resolved issue with Alarm Distributor resending alarm mails at startup if multiple alarms were triggered in rapid succession
	#9509	Resolved issue with Close Application -action that did not work. Still the project does not restart automatically, if no tag is connected to any controller
	#9511	Resolved issue with memory leak while communication error
	#9583	Resolved issue with bit actions (e.g Set/Reset/Toggle) that did not update the tag value, when in Recipe Offline mode
	#9637	Resolved issue with memory leak and application crash, when using distributing alarms
	#9710	Resolved issues with changing language (directly or through a tag) when doing a screen jump. Sometimes not all texts were translated
	#9789	Resolved issue, that it was not possible to download project to panel if project name or path to project did include 'I' when using Turkish operating system
	#9954	Resolved issue with change of Date and Time in runtime that affected the sampling interval of Data logger.
	#10187	Resolved issue with settings for Visible/isEnabled that were not converted correctly, when converting project from iX 1.31 to iX 2.0
	#10369	Resolved issue when importing a screen containing a control connected to a text library group, the library was not imported, and no build or runtime errors were generated. Now a build error is generated
	#10542	Resolved issue when adding a new language to Demo sample for PC 1024x768, that generated a crash in multiple languages
	#10801	Resolved issue with stopped polling on all configured stations, when having a project with a communication driver with several stations (for example Modbus Master) and first configured station (node)

			goes down.
		#11541	Resolved issue with third party controls that changed names when saving/reloading/converting the project.
		#11917	Resolved Webserver issue when sending requests via REST-API. This will now not generate high CPU-load and increased memory consumption.

### Bug fixes in iX Developer 2.0 SP1

Version	Function / Bug fix	ID (internal)	Description
iX 2.0 SP1 b2.0.463	Function	#6501	Improved functionality for the onscreen numeric keyboard, changing showing (.) or (,) depending on region setting.
	Bug fixes	#7942	iX TxC application crashes after boot-up, AlarmDistributor could not be created
		#7961	iX crashes when selecting tag/Data Logger item in Trend Viewer (if Accessibility tools are enabled)
		#7978	Estonian flag is not correct (Component Library)
		#8076	ValueChanged event triggers multiple times, when using PreventDuplicateEvents=false on Tag
		#8085	Alarm communication between server and client interrupts from time to time when there is a clock drift
		#8200	Unable to download application over Ethernet to QTERM-A7. Download times out.
		#8215	Runtime crash when trying to export Data Logger or Recipe from a PC Runtime Database that is larger than 256 MB.
		#8225	New framework 4.5 properties show up in Property Grid, even if they shouldn't.
		#8159	Visible dynamic ignored when using blink. When blink turned off visible dynamic also ignored.

	#8160	Blink and visible on same tag on rectangle freeze object in visible state if two objects configured.
	#8161	Dynamic visible tag is overruled by security visibility.
	#8167	Redesign of security and dynamic IsEnabled to work together.
	#8396	Not possible to install on WinXP without internet connection (framework 3.5).
	#7835	Backlight is turned on even if "Keep backlight on if the notifier window is visible" is disabled.
	#7838	Non-volatile internal tag cannot be used as "Tag for current Language".
	#7839	Dynamic min/max value on Y-axis causes X-axis (time scale) to reset itself in History Mode.
	#7845	Tags still poll when the Data Logger is stopped even if they are not used by other objects anywhere else.
	#7849	Keyboard covers security dialog.
	#7882	Visibility/Dynamics with the object Line over another Line shows the wrong thickness.
	#7886	TrendViewer's Curve Visible property does not work the same way as in iX 1.31.
	#7887	MouseUp Action not working properly on grouped buttons.
	#8247	iX Developer: Project download does not include the time settings correctly when time zone is set to GMT in project.
	#8256	AlarmItem state is not translated in runtime.
	#7431	Cannot access Driver Routing Parameters in iX Dev 2.0.
	#7550	FTP paths containing national characters making it impossible to connect.
	#7136	Unable to Build / Rebuild panel project if screen resolution is 1024x768 and iX Developer is maximized in W7 64-bit.
	#7164	Tags connected to an OPC server gets stuck if set/reset too quickly from a

			"momentary" button.
		#7165	Recipe Import - Not working with scaled tags.
		#7167	Not possible to save/build iX 1.31 project in iX 2.0, due to Database export actions located in designers wasn't converted.
		#7274	Fixed memory leak in Group objects on PC platform.
		#7399	Copy tags from tag list doesn't work.
		#7410	Reconnection OPC Client does not work correctly, [RST] packet from server is ignored.
		#7297	Value of external tags are frozen directly after a screen jump.
		#7604	Dynamic - Visibility doesn't work with grouped line object.
		#7613	Jump to previous screen does not work if pop up windows have been displayed.
		#3646	Logged in user is not added to Audit Trail database at an Alarm Acknowledge event.

### New features, removed functionality and bug fixes in iX Developer 2.0

Version	Function / Bug fix	ID (internal)	Description
iX 2.0 b2.0.356	Function	#6023	Support for new panels: iX T7B, iX T12B and iX T15B.
		#6145	Support for new panels: iX T12C, iX T15C and iX T21C.
		#3395	X/Y Chart
		#4813	Alias
		#4950	Array Tags
		#5491	Improved Screen Explorer
		#2294	Import/Export Recipe to FTP/USB/CF
		#5046	OPC UA Client

	#5047	OPC UA Server
	#5000	Web server Requires panel image version b148 (iX TxA) or greater.
	#5485	New display tag
	#2300	Report Generator - Enhanced printing function Requires panel image version b148 (iX TxA) or greater.
	#4737	Upload/download and verify project from panel Requires panel image version b148 (iX TxA) or greater.
	#6113	Action Menu object
	#6110	Animated Label object
	#6111	Touch Combo Box object
	#6112	Touch Listbox object
	#6107	Roller Panel object
	#5016	Scale Dynamics in RT CE
	#4195	Trend and Data Logger separated.  When converting project from previous iX versions all curves in trends will still exist but configured as realtime trends. Manual configuration will be needed to log history data.
	#5487	Styled System Dialogs
	#5429	Multi Text for button
	#5238	Improved ADP import
	#3899	Rebuild Project Button
	#6128	Project transfer: Only files in the root folder of Project Files is deleted.
	#5488	Context sensitive help
	#4131	Database Clear Action
	#4134	Data Logger start/stop

		#3910	Analog numeric: Show with the character # the number of characters in Designtime when "Limit number of characters" is checked.
		#3915	Font color icon in Ribbon is updated to the color of the selected object.
		#3912	Key combination to create e.g circle from ellipse, square from rectangle and straight lines.
		#3916	Possibility to save favourite colors in color picker dialog.
		#2277	Renaming of screens, tags, recipes etc -> Update all references so that you don't get build errors.
		#3905	Improved Audit Trail Viewer RT.
		#3909	Improved Enter-behaviour in minitoolbar when choosing tags.
		#3918	Improved RT Keyboard handling.
		#3898	Print Screen Action.
	Removed		Support for old panels removed (T40, T60, T70, T100, T150, K60, K70 and K100). Projects created for these panels can be converted to the newer panels by the following steps.  1) Convert the project to corresponding TAx panel or iX TxA in a pre iX 2.0 version.  2) In iX 2.0, convert the project from TAx panel or iX TxA panel to any of the newer panels, iX TxA, iX TxB or iX TxC.
			Some script functionality is removed.
	Bug fixes	#5709	Analog numeric String with Limit Characters do not work for numbers.
		#5705	Problem with Font when installing iX.
		#5812	All added picture previews found in designer are turned upside down.
		#4997	Database Export - Audit Trail, does not work.
		#5535	iX RT Analog Numeric, comma(,) input does not work from a physically connected alphanumeric keyboard.
		#4998	Database viewer in iX for T150 cannot show Chinese language.
		#5613	Style " eclipse" reverse the scale on "slider" and "linear meter" objects.
		#5644	Data Logger "log changes only" tickbox has no effect. All values are logged.

	#5541	iX crash when trying to enter a value in the controller field when using magnification in OS.
	#4788	Action Close, has different behaviour if you're using it as single action or multi action.
	#4758	OPC DataItem is dropped if closing the screen directly after assigning the values to the OPC DataItems.
	#5426	Modbus Master Driver - Import/Export to Excel does not work.
	#5038	Alarm distributor don't support ÅÄÖ if using Print Device (Serial Printer).
	#5529	Chinese doesn't work in the Audit Trail Viewer.
	#4089	iX Alarm Item Action -> Show Screen Action with position X/Y given does not open the popup.
	#4993	Blink for Dynamics can't be cleared.
	#4983	Using national characters in the project name causes the project startup to fail after a transfer to a panel.
	#4379	Graphic drawing: When selecting object they move 1-2 pixels.
	#4735	Screen actions can be set but doesn't work.
	#5873	Possible to access C# functions, events and properties not supported by Compact Framework.
	#6067	Analognumeric validation warning color always shown when value changed from lower limit to upper limit.
	#6235	MouseUp event actions are not performed on buttons that are pressed when a screen jump is triggered.
	#6243	iX alarm viewer, ack all action re-acks all previously ack'ed alarms. Breaks functionality of Alarm Distributor.
	#6271	Multi-Language editing objects in closed screen, old text overwrites new.
	#6512	Turkish i in a Script will make iX freeze.

### New features and bug fixes in iX Developer 1.31

Version	Function / Bug fix	ID (internal)	Description
iX 1.31 b1.31.93	Function	#4963	Analog meter with clockwise/anti clockwise scale.
		#4932	Added QTERM A7 and A12 panels support in iX developer standard version.
		#4387 #4720	Portrait / landscape mode for iX T7A, iX T10A panels. Require panel image version b141 or greater.
			Added system tags for LED control iX TxA panels. Require panel image version b141 or greater.
			Pincode/password for access to servicemenu in iX TxA panels. Require iX TxA panel image version b141 or greater.
		#4399	New transfer functionality for PC with Xp operating system.  For Windows 7 and Vista operating system the current transfer to folder functionality must be used.
		#2950	Improved Information Designer Import.
		#4452	Added ADP import.
	Bug fixes	#3461	F5 and F6 altered, F5=build/RUN, F6=Validate.
		#4669	Alarm Viewer - Shading effect making text less readable corrected.
		#4773	iX RT crashes when changing languages.
		#4777	iX TxA Downloading recipe crashes the application.
		#4908	iX panels reboots and freezes in controller settings after security auto logout.
		#4969	Database size not allowed to exceed 256Mb limit corrected for PC.  Max database size PC: 3999 Mb. iX panel: 128Mb.
		#5032	Polyline not working on some installations of iX due to regions setting.
		#5140	Grafic drawing: When marking object they move 1-2 pixels.

		#5130	Multilanguage text can be duplicated making it impossible to open project. 'An item with same key has already been added.'
		#5057	Opc Client crashes the application because of overflow when calculating downtime.
		#4868	System.IndexOutOfRangeException: Index was outside the bounds of the array.
		#5160	Line and Polyline is not possible to select if "Snap object to grid" is enabled.
		#4571 #4724	Better support for large pictures in iX.
		#4670, #4434	Improved handling when converting applications.
iX 1.30 b1.30.445	Function	#2296, #2297, #2298	Support for iX T4A, iX T7A and iX T10A
			New images for iX Panels with support for new hardware version, IML_b0373 och IML_b0374.
		#2248, #2249	New menu languages: Simplified Chinese and Traditional Chinese.
		#2256	Support for Simplified Chinese and Traditional Chinese input keyboards in runtime.
		#2263	Improved performance when building and compiling a project.
		#2312	Improved performance at screen switch time.
		#2174	Support for animated .GIF objects.
		#2268	Improved layout in runtime for small displays:  Styles, adjusted for small displays, added.  Larger handle for sliders.  Number of major ticks reduced for meter.  Possibility to choose horizontal or arc shaped scale for circular meter.

		#2269	Improved Alarm Viewer:  Improved performance.  Improved design.  Improvements when using Alarm Viewer in smaller displays.
		#2173	Support for showing number of occurrences of alarm in Alarm Viewer.
		#2176	Support for making security settings for each screen.
		#2309	Global grid settings for screen designer added.
		#2899	Multistate button object added.
		#2275	Structure of component library improved.
		#2278	Support for database export.
	Bug fixes	#2885 (#3288)	Dynamic visibility stopped working as soon as security was assigned to an object.
		#3204 (#3224)	iX runtime issue when using custom pictures in symbols.
		#2918 (3207)	iX runtime terminated if an object was grouped together with AlarmViewer.
		#3114	iX Panel TA150 froze when the AutoLogout action and Automatic screen jump were performed simultaneously.
		#3149	Trend would sometimes terminate when new data was triggered and the trend was disposed due to a coming screen change.
		#3313	Automatic logout failed after a while when making repeated screen jumps at high frequency.
		#3372	Trend terminated when automatic logout and screen change were performed at high frequency.
		#3404	Automatic logout and screen change at high frequency made panel locked in screen change after a while.
		#3177	Automatic logout based on security settings did not work in runtime.

**New features and bug fixes in iX Developer 1.20 SP2**

Version	Function / Bug fix	ID (internal)	Description
iX 1.20 b1.22.12	Function		Support for iX Panel TA70, iX Panel TA100 and iX Panel TA150.
		#2147	Possibility to change driver settings and panel IP address in runtime.
	Bug fixes	#2341	Tag import did not support offset/gain.
		#2115	Cancel in screen script for popup screen would position the popup screen behind the regular screen in runtime.
		#83	The MouseDown action (for button) on EPC would trigger e.g. a digital bit twice when pressed.

### New features and bug fixes in iX Developer 1.20 SP1

Version	Function /Bug fix	ID (internal)	Description
iX 1.20 b1.20.530	Function	#2103	New merge strategy in case of name conflict when importing tags, alarm items or text libraries.
		#1182	New merge switch when importing tags from the command line: <b>/MergeImportTags</b> Imported tags are merged with existing tags. Values from the import file are copied to existing tags. If the switch is omitted, an overwrite is made = existing tags are removed and new tags are created with values from the import file.
iX 1.20 b1.20.530	Bug fixes	#2113	iX Developer projects were dependent on regional/culture settings on the computer. iX Developer did not store region-dependent operating system settings. When opening a project with another regional setting it did not work in all cases, depending of the different settings for selected regions (ex. comma vs. decimal point).
		#2114	EPC Runtime in demo mode: Problem to read BIOS and find "iX" license handling.
		#2222	Adding GeneralDynamic to IsReadOnly on a analog numeric and connecting it to a tag with local data type bool and globals as default would generate an error in runtime.

### New features and bug fixes in iX Developer 1.20

Version	Function /Bug fix	Description
iX 1.20 b1.20.506	Function	New menu languages: Italian, Spanish, French.
		Support for keyboard panels (K60, K70, K100).
		Navigation Manager pan/zoom tool.
		Debug button for script debugging.
		Tags: Startup value added. Nonvolatile option added. Datatype for global tags can be different than the connected controller tags. Tag import with file preview and tree structure view for struct/arrays.
		Expressions on tag value, allow for bit addressing in words, math functions etc.
		Separate objects for Picture and Multipicture.
		Import/export of alarms added.
		Popup windows : flexible position.
		Trend improvements: Values cursor added. Individual ON/OFF of curves. Zoom/pan. Performance.
		Improved FDA Show all actions in grid with checkboxes. Cyclic datalogging. FDA Description on all objects.
		Improved Circular Meter with added color scale functions .
		Buttons stylable.
		Database viewer object added.
		Text library: value intervals added.
		Blink support for graphical objects.
		Create series in designtime added.
		New system tags: Current user, CE Image version.
		New action: Close application.
		Communication drivers now support for tunneling, transparent mode.
iX 1.20 b1.20.506	Bug fixes	Branding support implemented.

		VNC: Remote Access Dosent work with Decanter project, VSC.exe stops working when connecting.
		VNC server in iX can only handle 7 characters in password.
		Trend: Dynamic Min / Max dosent update on trend when changing values (must shange screen to get new values in trend).
		Unable to enter number in analog numeric if display format is string. and first write 123 and hit enter the you can't enter a new value.
		Audit Trail: You have 2 value field, not logic.

**New features and bug fixes in iX Developer 1.10**

Version	Function /Bug fix	Description
iX 1.10 b1.10.99	Function	Support for Google/Microsoft automatic translation in Multiple languages function.
		Two new system tags: Image version and iX version.
		Forced write action for tags.
		Change of OPC server connection in startup wizard .
		New default style for some objects and new quick styles.
		Performance improvements in design time: - Startup time
		Performance improvements in runtime CE: - Startup time
		Support for PC/ iX Panel Pro /iX Panel T40, T60, T70, T100, T150
		Application conversion iX Panel <-> iX Panel Pro/PC.
		Automatic graphic resizing when changing screen resolution.
		Import of Information Designer projects.
		The new designer tool Object Browser makes it possible to - Lock/unlock individual objects. - Hide/show individual objects. - Move objects in Z-order .
		The new designer tool Cross References - Shows where a tag is used. - Possibility to jump to referenced location.
		Tag filter with IntelliSense/auto complete (also in screen objects) .
		Screen templates/library makes it possible to - Import template screens (tags can be added automatically). - Save screen as template screen.
		New Property Grid with - All object settings in one place. - Advanced settings added .
		User-configurable Quick styles.
		Blend-style position/size-cursors.
		Popup screen position and size can be set with mouse.
		Selectable grid settings.