



Release Notes for iCube Control Products

Release 2026.6

Date: 2026-09-01

Version Information:

iCube Engineer	2026.6	Build 9.0.19421
iC9226M-EC Firmware	2026.6.1	Build 2026.6.1.214948
iC9226M-FSoE Firmware	2026.6.1	Build 2026.6.1.214924
iC9115S Firmware	2026.6.1	Build 2026.6.1.214943
iC9115X Firmware	2026.6.1	Build 2026.6.1.214944
Profinet Version	114	
Ethernet/IP EDS Version	1.2	
Based on PLCnext Runtime Version	2025.6	
Based on PLCnext Engineer Version	2026.0	

(PLCnext Technology, PLCnext Engineer, PLCnext Store and Proficloud are registered trade marks of Phoenix Contact GmbH & Co. KG.)

1. NEW FEATURES

1.1 Breaking Changes

ID	Title	Description
73350	Backward compatibility for projects and firmware due to breaking changes introduced in V2026.6	iCube Engineer 2026.6 exhibits the following known backward compatibility issues and breaking changes: 1. One of the installed 3rd party components, Wibu Codemeter 9.0, is not compatible with Windows 10, which causes the iCube Engineer installer to produce an obscure error message. A workaround is available to pre-install a newer version of the component: please see the entry for known issue 88637. 2. For user projects which include PLCnextBase library, version 1.7.2 is required for compatibility with firmware 2026.6. This generally means also updating the project controller resource and toolbox libraries to the 2026.6 version. 3. In 2026.6, Y_YA_TON_Retained function block has an LTIME datatype associated with the VAR_IN_OUT variable. Users must update their variable in the code to be of type LTIME. 4. A newer method (curl command) for FTP file transfer is now being used for send and receive files using Function Blocks in the Comm Toolbox. Users who wish to keep old functionality with FTP Send can replace the old function block with Y_CO_FTP_Send_File_Legacy. This keeps the interface the same. iC9000 Series controller family firmware exhibits the following known backward compatibility issues and breaking changes: 1. The controller firmware is now based on PLCnext Runtime firmware 2025.6. Please see the "Must Read" section on plcnext.help for general information! 2. The controller firmware linux distribution is now based on systemd rather than busybox. This changes how IP addresses are stored in the configuration. Firmware update to 2026.6 preserves the settings, but downgrade from 2026.6 to earlier versions may lose the IP address settings and return to the default IP address. 3. User apps created with C++ PLM or ACF modules built with iCube Engineer Toolchain must be rebuilt with the updated 2026.6 SDK. 4. iCube Apps which rely on certain deployment modes such as Linux Daemon mode must be rebuilt as containerized apps.

		5. Locally hosted motion axes groups which were originally configured using iCube Engineer 2024.9 are no longer compatible with firmware 2026.6. These must be re-created in the updated project plant, with controller resource 2025.6 or later. See release notes for Defect-83768 for details. 6. The archive project created from WBM1.0 (from Firmware version ≤ 2026.0) can't be used on devices with WBM2.0 (from Firmware version ≥ 2026.6). To use project archive features, update the firmware of the controller with the running project to FW 2026.6 or later . Connect to the WBM and create a new archive with the "backup & restore" functionality. 7. On the MC_TrackConveyorBelt function block, TrackOption.SyncIn.ConveyorDistance = 0 is no longer supported and will report an error. Define a ConveyorDistance > 0.
--	--	---

1.2 Platform

ID	Title	Description
67791	Integrate PLCnext Runtime 2025.6	The iC9000 series family of controllers' firmware is now updated to be based on PLCnext Runtime version 2025.6. One of the most immediately visible changes is the new updated WBM 2.0, with new presentation style and features.
79023	Integrate PLCnext Engineer 2026.0	iCube Engineer is now updated to be based on PLCnext Engineer version 2026.0.

1.3 Safety

ID	Title	Description
79714	Support SPLC1000 FW V3.0 for iC9226M-FSOE iCube Controller	Controller model iC9226M-FSoE now provides support for v3.0 of the safety PLC hardware module.

1.4 Security

ID	Title	Description
64136	iC9115 secure-by-default configuration	The iC9115S and iC9115X controllers are shipped with secure-by-default settings. These settings provide a base for future compliance with security regulations. This results in several notable functions and restrictions: • The device supports secure boot. • The root user is disabled, and cannot be enabled by the end user. • User authentication can no longer be disabled via the WBM. • The firewall is enabled by default, with only specific ports opened. • Certain network services such as Ethernet/IP and SSH are disabled by default, but can be managed via the WBM. See also the "Must Read" section on plcnext.help .

1.5 iCube Engineer

ID	Title	Description
26856	EtherCAT Slave Configuration - EtherCAT Junctions such as Beckhoff CU1128 and MOXA - EJS Series to support Star topology	iCube Engineer adds support for handling EtherCAT junction devices to support the star topology. Compatibility notes: Each junction device has specific details about how the connections to sub devices are implemented and realized in the device tree and ESI file. Because of this, models must be individually qualified and supported. Additional models not specifically called out as supported may not be discovered automatically or organized automatically in the device tree.
60422	Support of SRA (Safety Related Application) Parameters	iCube Engineer now includes support for managing SRA parameters for EtherCAT FSoE devices.
60423	Support of EtherCAT 2-port EtherCAT Junction EK1122-0080	iCube Engineer adds support for handling EtherCAT Junction devices to support the star topology. Compatibility notes: Each junction device has specific details about how the connections to sub devices are implemented and realized in the device tree and ESI file. Because of this, models must be individually qualified and supported. Additional models not specifically called out as supported may not be discovered automatically or organized automatically in the device tree.
78504	iCube Engineer: Enabling Compliance with EU Machinery Safety Regulation	iCube Engineer is updated for compliance with the EU Machinery Safety Regulation.
79028	EtherCAT Hot Connect Configuration	EtherCAT HotConnect configuration has been improved with detailed settings for each device. Devices can be organized into hot connect groups, and set to fixed or floating topology mode, with multiple supported Device ID settings.
79032	iCube Engineer - Multi-Languages support - 2026.6	iCube Engineer is now localized for English, German, Japanese, and Chinese languages.
90213	EtherCAT SubDevice AoE NetId configuration	For EtherCAT SubDevices which support AoE, the AoE NetId can now be configured in iCube Engineer.

1.6 IO Devices

(none)

1.7 Runtime

ID	Title	Description
20497	Web Based Servo Drive Parameter Maintenance	The updated WBM 2.0 now includes a page view where the user can manage the Pns of connected and configured Yaskawa SERVOPACKs. The Pns can be verified or written to ROM, according to either the default values or the project-specific values.
58111	Support inclusion of the safety project in the WBM project backup	The safety project is now included with the user PLC project with the new Project Backup feature of the WBM. This replaces the Project Archive feature of previous WBM.
63392	Web based interface language support - Chinese and Japanese - 2026.6	The new WBM 2.0 is now localized in English, German, Japanese, and Chinese.
66430	WBM 2.0 Project Backup Functionality Extensions	The new WBM 2.0 Project Backup functionality includes extensions and changes beyond those delivered with the base PLCnext Runtime v2025.6. The project backup file packages can be uploaded and downloaded from the WBM. User motion data files such as cam files can be backed up and restored with the package.
78502	iC9226M-FSOE: Enabling Compliance with EU Machinery Safety Regulation	Controller model iC9226M-FSoE is now compliant with EU Machinery Safety Regulation requirements.

1.8 Servo and Motion

ID	Title	Description
80267	Sigma-XS, Sigma-XW and Sigma-XT firmware version 0018 ESI 0x2000B and ASM-X version 3 support	iCube Engineer includes catalog entries for Sigma-XS, XW, and XT SERVOPACKs with firmware version 0018 and ESI version 0x2000B. This enables compatibility support with ASM-X version 3.

1.9 Libraries

ID	Title	Description
3533	Teach Pendant features - Smart Pendant support for use with HC robots in Singular control applications	Smart Pendant support is now possible using by Y_MS_YrcPendantDriver function block. However, Pd_Connected output for Y_MS_MSyncIO function block does not work and will always return FALSE due to difference between Smart Pendant and Classic Pendant. Application note "How to use the C# Pendant Application to teach and interact with the project in iCube Engineer" shows usage example with screensots.
82864	MoveCircular support for the MotomanSync Library	MotomanSync motion groups now support the MC_MoveCircularAbsolute function block.

1.10 HMI

ID	Title	Description
78506	Container based iCube WebHMI App	The Web HMI iCube App delivered with previous releases of firmware is no longer compatible with firmware 2026.6. An updated containerized compatible version is now provided.

1.11 Other

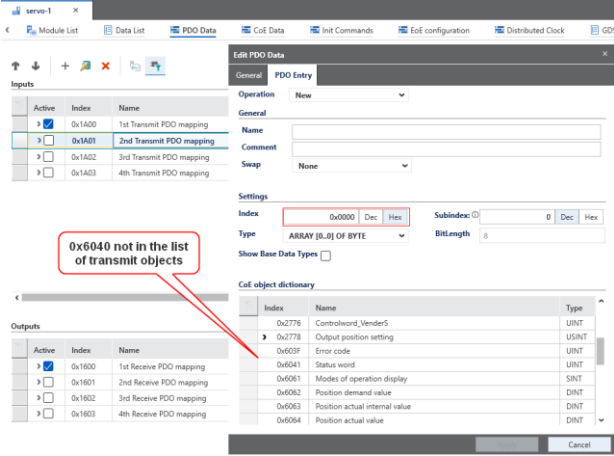
ID	Title	Description
69669	CPU Unit: iC9115S/X, EtherCAT master without safety, limited to single axis control	Single-axis controller models iC9115S and iC9115X are introduced with this release. The iC9115X is a single-axis controller with integrated digital I/O and counter module, and connects directly to a Sigma-XS servopack. The iC9115S is a standalone variant with integrated power supply and higher CPU speed. Both controllers require an EtherCAT cable connection to the supported servopack, and also support additional non-servo connected EtherCAT devices. Both models are implemented with secure-by-default technology.
83385	iCube Controller - EU Data Act conformity	The iC9000 Series controller family is updated for conformity with EU Data Act requirements.
83386	iCube Engineer - EU Data Act conformity	iCube Engineer is updated for conformity with EU Data Act requirements.

2. FIXES INCLUDED IN THIS RELEASE

2.1 Fixed iCube Control Safety Related Issues with this Release

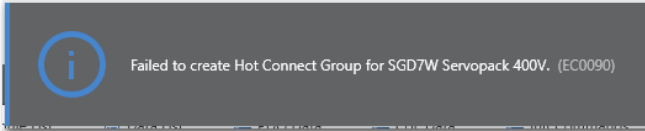
ID	Title	Description	Resolution
33996	FSOE CPU is not working without FSoE module	Safety PLC will not run without a configured FSoE module. The SF ER will be lit all the time.	With SPLC1000 FW version 3 a safety PLC project can run without an FSoE devices present in the project.
80147	Safety Process Data Size shows increased value in iCube Engineer 2026.0	The Safety PLC Statistics page in iCube Engineer 2026.0 shows a larger safety process data size than is actually used by the safety project.	This issue is resolved in iCube Engineer 2026.6 and the Safety PLC->Statistics page shows correct values for safety process data size.

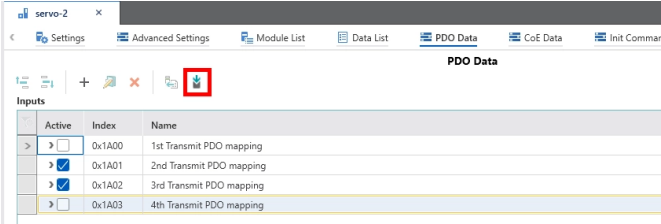
2.2 Fixed in iCube Engineer with this Release

ID	Title	Description	Resolution
70345	Y_PE_Reset is not working	Users using the MC_Reset FB for VFDs on EtherCAT cannot use MC_Reset if MC_Power and/or MC_MoveVelocity are in error.	Code added to correctly initialize states in Y_PE_VFD_Driver
70347	ESI File SigmaX: missing PDO mapping EtherCAT register to read the input Transmit Data (read from SubDevice)	Some models of Sigma-X servos do not include the proper ESI file tags to use receive (R) objects as transmit (T) objects. For example, the control word (0x6040) can be used as both receive and transmit, but iCube Engineer doesn't list it in the transmit section.  Disclaimer: An object missing from the transmit list doesn't automatically mean that it is because of this issue; it might simply be that that's the expected behavior.	This Defect has been fixed with catalog resource version (>= 0x2000B). Please refer to the Workaround as an alternate path. Workaround for older servopacks: Do not map objects to the PDO that are not available in the servo's firmware version being used.
70397	Motion Group: Labelless Axis disappears from Mechanism tab when tabbing away and back	If the user has incomplete axes configuration rows in the group mechanism tab, and the user switches tabs, on coming back to the mechanism tab, the user will be unable to continue with the axes configuration process. The Add Axis button will be greyed out.	The group mechanism tab can now be returned to and edited. If the configuration is incomplete, the project will fail to build until it is fixed.

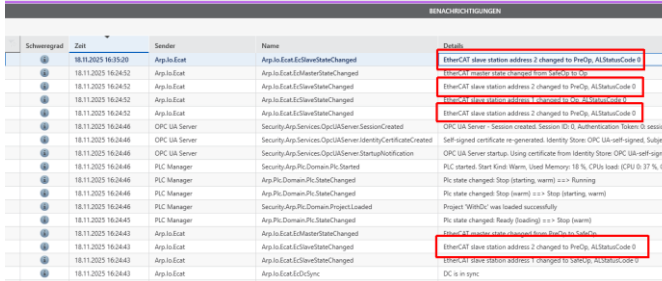
71076	Deleting Controller and restoring from recycle bin gives unrecoverable errors: Internal error Object reference not set to an instance of an object.	Internal Errors arise if a controller is deleted and restored from the recycle bin.	The defect was fixed.
72297	Motion Group: MPP3S/H doesn't accept change of predefined parameter	User is not allowed to change the parameters of the servopacks linked to the axes of an MPP3H/S delta robot through iCube Engineer.	This Defect has been fixed. For an alternative workaround solution: Use SigmaWin+ to change and save the parameters of the servopacks running the axes of an MPP3H/S robot.
78176	Y_PE_VFD_Power not enabled after disabling Y_PE_VFD_Driver FB while running in Velocity mode	EtherCAT VFD users who use PLCopenPart1 function blocks should make sure that the driver function block is not disabled while the VFD is commanding a velocity reference through the MC_MoveVelocity block. If the driver is disabled, the user will not be able to use MC_MoveVelocity without power cycling the VFD.	Updated drive state checking to allow the MC_MoveVelocity block to control the VFD when the driver is disabled and then re-enabled.
79778	PDO Editor: Edit button is blocked when a PDO line is correctly selected	In the PDO Data tab of any EtherCAT subDevice following the step below, the edit button becomes grey out: 1. select a PDO 2. click the Edit button to open the PDO editor 3. Modify if needed and close the PDO editor 4. select the same PDO line ==> The edit button is now not clickable to open the PDO Editor again	This defect is fixed
79785	Auto-generation of variables: Replacing modules generates misleading/merged links between PDI and PLC variables	If a slicebus module is replaced by another module, the PLC variable mapping of the old module to PDIs do not get replaced by the PLC variables created for the new module.	When a module with automated port mapping is replaced, the restored variable connection is removed.

79851	Replace Issue: Auto-generation variable: iCube Engineer silently changes the auto generated variable while re-ordering modules	Re-ordering SLIO module into the module list will generate a new linked variable and change the PDI link to this new variable which can be executed silently (without pop up warnign to the user depending of the scenario). This will have for consequence to break the link between the variable used in the code and the one linked in the PDI list of the module	There is no new variable generated when modules are re-ordered
80921	Changing the Velocity input of Y_GroupJogLinear mid-move freezes robot	Changing the "Velocity" input of the Y_GroupJogLinear function block during a jog move freezes the robot at the current position.	In Y_MS_GroupJogLinear and Y_MS_GroupJogDirect, change the delay time for the continuous jog command to be at least 300ms when inputs are changed, so the robot is stopped before jog command restarts.
81201	Automatic variable generation fails if modules in the COE bus coupler are added	If a module is added to the SLIO CoE bus coupler by dragging and dropping from the component tree to append after an existing module, automatic variables are not generated for the new module.	This defect is fixed
81483	Replacing a servo with another EtherCAT device leads to a software crash	In the EtherCAT device list, when the user replaces a servo with a non-servo device, saves the project , closes the project and reopens the project, an internal error is generated. Servo tabs are present in the device, and clicking the servo tab (eg. parameters) iCube Engineer crashes.	The defect is fixed.
81825	Y_YA_TON_Retained - Rolls over at ~2^32 microseconds (1hr 11minutes)	While using the Y_YA_TON_Retained timer, if the timer runs constantly for greater than 1 hour and 11 minutes, the accumulated time rolls over to 0.	Code fixed and the data type of the time variable is now of LTIME type.
83193	[Save/Load] Topology nodes are silently dropped during project load when a device is attached to a Junction Box port	iCube Engineer crashes when right-clicking the right side of a parenthesis in ST code in debug mode.	This defect is fixed.

86269	Incorrect external axis motion configuration for SSI counter modules when connected after safety module on Slicebus	When configuring SliceBus with both safety slices and counter module slices, if any safety slices appear before the counter module slices in the ordering, then the position data of the counter module is not correctly imported into the motion kernel. Reading the external encoder position instead reads unrelated data, which can produce unpredictable position data results.	The connection with the counter module data was fixed.
86278	Advanced EtherCAT Settings: Inadequate messaging on trying to group devices	When trying to add an EtherCAT device to an HC group, the following message can appear "Failed to create Hot Connect Group for ": 	The defect has been fixed.
86867	Adding a second Delta group changes the parameters of servos linked to the first delta in the project	When a second Delta motion group is added to the project, the parameters of the SERVOPACKs linked to the first Delta motion group are reset. This causes multiple errors, as the reset parameters no longer match the recommended settings for a Delta group.	The defect is fixed.
86994	Network configuration mismatch after bus scan with existing configuration on controller	When a bus scan is performed in a new project, while configuration is already present on the controller, a network configuration mismatch may occur with different Identification Values reported for the configuration versus the network. When this occurs, the Explicit Device ID shown in the device's Advanced Settings is incorrect.	This defect was fixed.

88136	PDO Data: Init Commands page does not update after checking/unchecking "Create the init commands ..." button	Init Commands page does not immediately update after checking/unchecking the "Create the init commands and download the PDO configuration during start-up" button. 	The defect is fixed.
88550	Advanced EtherCAT Settings - "Invalid Tree Operation - Sub tree is empty" when user tries to change topology after prior devices are deleted	Unable to change topology of a device if other devices in the plant ahead of the target device are deleted.	If the previous or next device is in a floating HotConnect group, deletion is not possible.

2.3 Fixed in iC9000 Series Runtime and Motion with this Release

ID	Title	Description	Resolution
16544	DHCP causes Profinet to exit the PLCnext application	When DHCP is enabled, the PROFINET functionality is not supported and is automatically disabled in the configuration.	The defect is fixed
71527	Ethernet/IP Scanner and Adapter component do not properly prohibit download changes on changed plant config	Changes made to the PLANT configuration under Ethernet/IP do NOT restrict "Write and Start Project changes", but the hardware configuration changes aren't taking effect until the next controller reboot or "Write and Start Project".	The firmware now detects changes to the plant and properly prohibits download changes.
78839	MC_TrackConveyorBelt: CommandVelocity jumps to 0 when tracking is aborted with External Encoder master axis	When using MC_TrackConveyorBelt with an external encoder master axis, and ending the tracking via MC_MoveLinearAbsolute or similar with mode MC_BufferMode#Aborting, the commanded velocity jumps to 0 at the point of the aborting move.	The commanded velocity is not normally calculated for external encoder axes: for this use-case, use internally a backward-differenced position sample to generate a pseudo command velocity internally.
79385	EtherCAT SubDevice state change notification does not report correct ALStatusCode	In certain scenario, some EtherCAT sub devices fail to move to a desired state and the log message : "EtherCAT slave station address x changed to , ALStatusCode 0" appears several times on the same EtherCAT state 	Add new notification which reports the slave error together with ALStatusCode
80572	050-1BA50 : Fatal motion kernel error when MC_TouchProbe.Sensor.Bit is set to an unsupported value	If setting MC_TouchProbe input Sensor.Bit to an unsupported value, for the 050-1BA50 counter module a fatal motion kernel error can occur, stopping the PLC and requiring a reboot.	The error handling was corrected to instead provide appropriate error information to the function block.

ID	Title	Description	Resolution
80574	050-1BA50 does not operate after changing position in Slicebus with 050-1BA00 or 050-1BA10 if a Power cycle is not performed	If the user uses the 050-1BA50 module in conjunction with another counter module like the BA00 or the BA10 on slicebus, and decides to re-order the modules on the slicebus and in the PLANT in the iCube engineer project, the BA50 will not start counting until the controller is rebooted once more, or an additional warm start is performed.	The defect is fixed
80575	TrackMasterAxis: Delayed or Queued execution mode causes error 9007 (DeferredExecutionModeError)	The ExecutionMode input into the MC_TrackConveyorBelt function block allows the user to defer execution of conveyor tracking until some or all of the current group moves are completed. MC_ExecutionMode#Immediately: Conveyor tracking starts immediately MC_ExecutionMode#Delayed: Conveyor tracking starts after the current group move is finished MC_ExecutionMode#Queued: Conveyor tracking starts after all buffered group moves are finished This defect describes behavior where the MC_TrackConveyorBelt function block would error out with a 9007 error code if Delayed or Queued modes were used.	The function block no longer reports incorrect errors when using delayed or queued mode.
80719	Conveyor tracking slave commanded velocity reports 0 in TrackMode 3 (tracking) for zero values of SyncIn.ConveyorDistance	When using MC_TrackConveyorBelt with input TrackOptions.SyncIn.ConveyorDistance = 0, an incorrect command velocity value 0 is produced by the trajectory generator. The position trajectory is unaffected, thus this only affects display and reporting, unless explicitly turning on controller-side velocity feedforward via MC_WriteParameter(1310, TRUE).	The value 0 for TrackOptions.SyncIn.ConveyorDistance is not supported, and now returns error 9006.

ID	Title	Description	Resolution
80869	Conveyor tracking an external encoder does not update Group velocities	Commanding a group via MC_TrackConveyorBelt with an external encoder as the ConveyorBelt results in the Group velocities (Group.Machine.CmdVel, Axis.CmdVel, World.CmdVel etc.) not being updated. They remain 0 for the duration of the group's motion.	Same root cause as 78839. The commanded velocity is not normally calculated for external encoder axes: for this use-case, use internally a backward-differenced position sample to generate a pseudo command velocity internally.
81733	Fatal Error: Watchdog timeout caused by use of Y_F1_ResetAbsoluteEncoder and Y_F1_ReadBoolParameter	If a user attempts to reset the absolute encoder of the four servopacks simultaneously using the Y_ResetAbsoluteEncoder FB, and read servo related parameters using the ReadParameter or ReadBoolParameter FBs, the controller goes to Error State, and iCube Engineer shows the Device to be Fatal error state.	An internal blocking state was fixed.

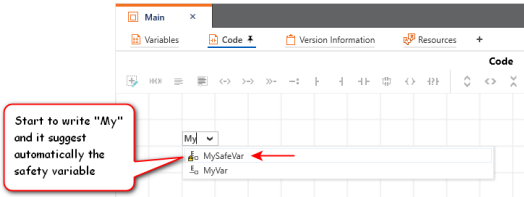
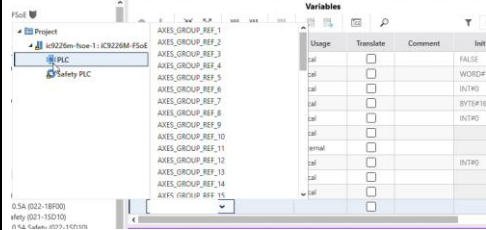
ID	Title	Description	Resolution
83768	Motion Group FBs not working (AXES_GROUP_REF_n has no updated value) after project conversion from older version to 2026.6 version and above	When defining AXES_GROUP_REF global variables in iC9226 firmware version 2024.9, the supported method requires an auxiliary function block AxesGroupRef in the user program to copy the data from a byte-array of fixed name ("AXES_GROUP_REF_n") to the actual AXES_GROUP_REF variable (e.g. "Group1"). Support for this strategy is implemented in iCube Engineer iC9226 controller resource version 2024.9 in the project. Beginning with iC9226 firmware 2025.6, and supported by iCube Engineer 2025.6 in combination with iC9226 controller resource version 2025.6 or later, this method is deprecated, and instead replaced by a direct-update method to the fields of the actual AXES_GROUP_REF variable ("Group1"). The old method, however, continues to work with firmware versions 2025.6 and 2026.0, regardless of the version of the controller resource in the project. Beginning with iC9226 firmware 2026.6, when combining the 2024.9 strategy (UpdateAxesGroupRef) with a newer controller resource in the project (2025.6+), the group data is not properly connected and reports all data as 0.	No direct solution is provided. Use the described workarounds. Either: 1. Keep the iC9226 controller resource version at 2024.9, in combination with `AXES_GROUP_REF_x`+`UpdateAxesGroupRef` group data update strategy, AND use firmware version 2026.0 or earlier. <i>OR</i> 2. Update the iC9226 controller resource version to 2025.6 or later AND regenerate the group data update strategy by deleting the group in the plant and re-creating it.

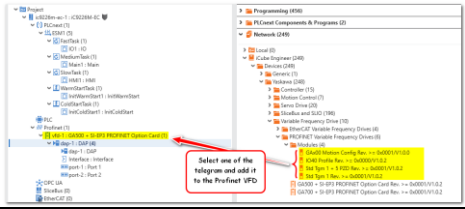
3. OPEN ISSUES

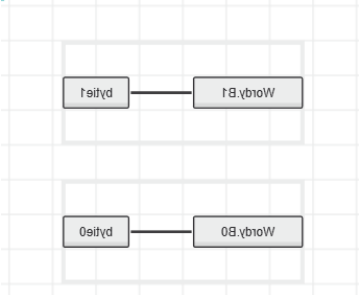
3.1 iCube Control Safety Process Related Known Issues

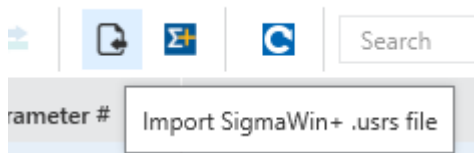
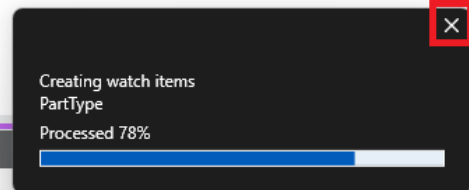
ID	Title	Description	Workaround
62023	iCube Engineer Incorrectly Reports Safety PLC Debug is Active	iCube Engineer reports Safety PLC Debug is active in cases where a Safety PLC project is not running. Examples include when the safety PLC is in Debug Stop state and also when a valid project has not been written to the Safety PLC.  From iCube Help (<i>Home -> Safety PLC Commissioning: From Compiling to Debugging -> Connecting vs. Monitoring Mode vs. Debug Mode</i>) Note When connecting to the Safety PLC while no project is yet stored on it (e.g., first time connection), the debug mode is active by default and the 'Debug Mode' icon appears pressed in the Safety Cockpit. The reason is that the Safety PLC expects to receive a project in this mode.	Check the Safety PLC status in the Safety PLC cockpit while connected to the Safety PLC to determine if the Safety PLC is in Debug Run or Debug Stop state, and also whether or not a project is present on the Safety PLC.
77691	Safety PLC: CMP2 CRC failed due to unsupported character ä & ö and others	When characters with accents (e.g. ä, ö, è, é, etc.) are used in safety PLC variable names or safety PLC projects, the following compiler errors will occur: • Characters with accents in variable names will cause "CMP2 - Compiler Error" • Characters with accents in safety PLC project name will cause "CMP2 - Error: Initialization of the second compiler failed"	Characters with accents are not currently supported for safety PLC variable names and safety PLC project names.

3.2 iCube Engineer Known Issues

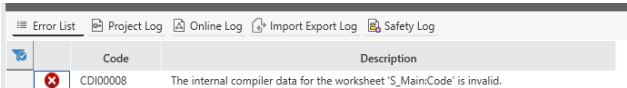
ID	Title	Description	Workaround
21016	Error (division by zero) is displayed in the wrong line of code	Errors such as division by zero may not be traceable to the exact line where the error occurred. The error line could be wrongly shown on a line in the vicinity of the error occurrence.	The error could be displayed on a line near the line where the error occurred.
32554	Safe variable aren't protected from the main PLC	Names of variables from the Safety PLC project will appear in a list of available variables when working in the standard PLC project. This occurs when typing a variable name - see the example below - as well as when browsing the variable names in the drop-down list. If a safety PLC variable is used within the standard PLC project this will cause an error when the project is rebuilt.  Start to write "My" and it suggest automatically the safety variable	When selecting a variable name, first open the variable list drop-down and then select "PLC" to filter only for standard PLC variables. 
41020	Limits for Safety PLC number of variables and process data mapping are not checked at compile time	There is no error message in iCube Engineer if the limits for Safety PLC variable assignments mapped to process data is exceeded until an attempt is made to download the project to the safety PLC.	Use the following limits for variables which are mapped to safety process data in the Safety PLC: - The total of all variables which are mapped to the safety process data must not exceed 19980 bytes. - Each safety variable which is mapped to process data occupies 16 bytes. - Each standard variable which is mapped to process data occupies 8 bytes.

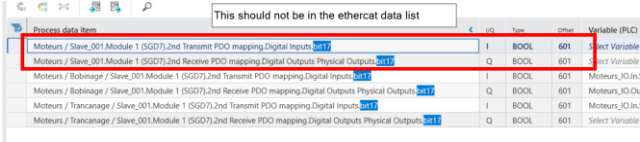
ID	Title	Description	Workaround
42328	SliceBus safety module diagnostics not available	Diagnostics for the SLIO safety modules on the SliceBus are not available through iCube.	Visually review LED states present on the SLIO safety modules and refer to the meaning of the LED indicators in the technical manual for the SLIO module, 021-1SD10, 022-1SD10. https://www.yaskawa.eu.com/controls/plc-control-systems/seriesdetail/serie/slio_1447 See the section "status indication" as a starting point.
43636	Drive scanned from the Profinet network doesn't automatically add the GAX00 Motion Config module	Executing a Profinet scan functionality on Yaskawa Profinet VFD doesn't add the Profinet telegram Part.	there are 2 solutions: - add the Profinet VFD from the catalog manually instead of automatically with the Profinet scan - add manually Profinet telegram to the Profinet VFD after the scan has been executed: 
46312	non safety FB from "Safety IEC 61131-3" library aren't supported on iC922xM-EC	If a WORD_TO_BYTES FB is used in the application, a compile error is generated mentioning that the iC922x resource does not support the WORD_TO_BYTES function block because this FB is part of the Safety IEC 61131-3 library.	- Do not use any FB from Safety IEC 61131-3 in a nonsafe PLC. - Use implicit addressing as shown below:

ID	Title	Description	Workaround
			 <pre> 1 byte1 := wordy.B0; 2 byte2 := wordy.B1; 3 </pre>
46399	Motion Axis generation fail to create the proper variable when Identity.Axis Number is changed from default	If a user modifies the axis number property of a motion axis and then adds additional motion axes to the project, then the automatic generation of the AXIS_REF variable in the PLC/global variable table is affected.	Do not change axis number property of a motion Axis if additional servopack need to be added to the project at a later stage.
49219	MSG_ONL0156: Unable to download project and unable to find the reason for the download failure	If the error message "MSG_ONL0156: Unable to download the project changes to the device" is shown, the user will have to check the reason for the download failure in the output log of the controller.	The output log can be obtained by SSH-ing into the controller. The output log can be obtained at /opt/plcnext/logs.
49821	OPC UA PubSub Subscriber can receive data from an incorrectly configured publisher	An incorrect configuration can lead to data inconsistencies that are easy to troubleshoot. For example, if there are two publishers, one publisher configured correctly and the second publisher configured incorrectly (with the same IDs as the first publisher), the subscriber will get data from both publishers. There is no mechanism to filter data from an inadvertent wrong configuration	The user should take care to configure and set up publishers correctly.
49949	Cannot Debug/Monitor Safety PLC Variables after Write and Start Standard PLC Project	After writing and starting a standard PLC project, done while debug and monitoring of both the Standard and Safety PLC projects are active, the values reported for Safety PLC variables will not match the actual values and a reintegration request is required.	Following the Write and Start of the Standard PLC project, it is necessary to set ACK_REI_FSOE_GLOBAL=True to provide a reintegration request. Once the reintegration request is provided, the variable values shown when debugging match the actual states.

ID	Title	Description	Workaround
			Set ACK_REI_FSOE_GLOBAL=FALSE to complete the process.
52815	Sigma-XT: "Import SigmaWin+ .usrs file" always imports the parameters for the first axis regardless of axis selected	"Import SigmaWin+ .usrs file" always imports the parameters for the first axis regardless of axis selected. 	Do not use the Import SigmaWin+.usrs file functionality in iCube Engineer for multi-axis servos.
54483	ECAT Online : mismatch analyzer is showing Sigma7W servopack modules in red	In the EtherCAT online functions page, modules that are part of multi module devices, are sometimes shown in red.	Check the state of the EtherCAT device and ensure that the device is in state 8 (OP state).
54492	iCube Engineer Active window crashes when attempting to cancel the load of a variable into the watches tab	While loading a new variable (which is a large structure) into the watches tab, canceling the operation by clicking the X in the "Creating watch items" window currently crashes the active iCube Engineer window. 	Wait for variable to load into watches tab completely, and then remove it.
55375	Multiple bus scan proliferates Motion Axes instances	Performing an EtherCAT bus scan does not automatically delete existing Motion Axes from the plant. This leads to proliferation of Motion Axis objects which are not connected to an underlying servo object, which causes additional configuration-related motion alarms.	The following recipe produces a clean bus scan without extraneous objects or variables: 1. Delete all EtherCAT servo nodes in the plant 2. Delete all servo Motion Axes in the plant 3. Delete all related global variables for servo-# and AXIS# from the PLC global variables list 4. Perform bus scan

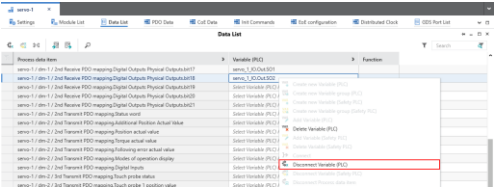
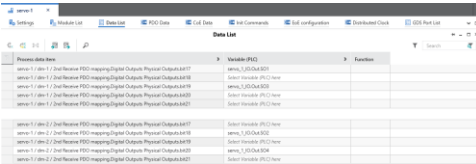
ID	Title	Description	Workaround
56341	ECAT Online : mismatch analyzer is showing SLIO Ecat module in red	The Mismatch Analyzer tab in the EtherCAT Online Functions page shows modules in EtherCAT devices in red.	None. This does not affect the functionality of the modules.
56946	EtherCAT Bus Scan: Unable to find modules of EtherCAT devices in certain conditions	EtherCAT Bus Scan: Unable to find modules on the CoE bus coupler in certain conditions. A first bus scan without an existing configuration on an iC9200 controller can result in modules not being discovered.	A configuration needs to be present in the ECAT master for a successful discovery of modules on a bus coupler. A write and download of the project with the bus coupler in the configuration will establish the required configuration. A secondary bus scan will result in the discovery of modules on the coupler. Safety modules will communicate over FSoE only if the bus coupler is set up in enhanced mode.
58211	IO variable generation: ComState structure elements display FALSE and are not linked to PDIs	ComState elements of autogenerated global variables for SLIO modules is not currently populated. It displays the value FALSE always	Do not use the elements of the ComState structure of autogenerated IO variables corresponding to SLIO modules.
58334	Importing csv file resulting in cryptic error message : Error during generating native code, internal meta-compiler	Importing a large csv file can cause a native code generation error.	Not available.
58873	No Error or notification when OPCUA PubSub license is missing	If the OPC UA PubSub license is missing or OPC UA PubSub service is not activated, there is no error notification when the project is written to the controller.	Activate the license and activate the service on the controller.
62334	Forced Output value of digital output variable in the project is unable to hold the forced value state.	Forced Output value of digital output variable in the project is unable to hold the forced value state.	Do not rely on the forced value of a variable in a project for critical logic decisions.
63567	License registration using YASINA gets stuck on loading due to missing ICE license container	iCube Engineer license registration is failing on https://ybpp.yaskawa.eu/	Contact Yaskawa support and mention work item #63567
63583	E1001 Critical internal error, Error During Generation of Native Code	E1001 Critical internal error and Error During Generation of Native Code messages are generated when a large variable is passed through a MOVE block with EN/ENO connections.	Not available.

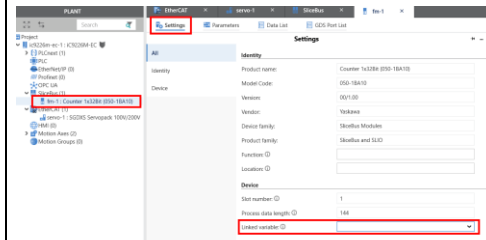
ID	Title	Description	Workaround
64039	More than 8 INPACT MotomanSync EtherCAT devices can be added to the PLANT in iCube Engineer	More than 8 MotomanSync connections can be added in iCubeEngineer.	Limit the maximum number of MotomanSync connections to 8. Please contact tech support or the online help for recommended settings for EtherCAT update rate and application task rates when MotomanSync groups are configured.
64995	Error Message CMP2 – Error: Initialization of the second compiler failed	This seems to happen because the length of the name of the project is too long.	Reduce the length of the name of the iCube Engineer project. The total file path length can only be 256 characters.
65722	Safety PLC: Unclear error message when using a not supported object in SNOLD (CDI00008)	Contact and coil types are restricted in SNOLD (Safety Network Oriented Ladder). Transition-sensing contacts or coils are not supported. When using these, the user will be presented with the following error message after building the project: 'The internal compiler data for the worksheet 'S_Main:Code' is invalid.' 	Do NOT use Transition-sensing contacts or coils in SNOLD 
66470	CoE objects missing from CoE Data tab for multiaxis servos	In the EtherCAT Online Functions page, on the CoE data tab of multi axes servos, all CoE objects are not displayed for the user to monitor/edit.	NA
67298	Existing iCube Engineer Project with iC9226M-FSoE loses entire PLANT tree	In certain situations the PLANT tree is deleted completely.	For iCube version 2025.6.2, when the PLANT tree is deleted after a crash or due to any other reason, it can be restored from the recycle bin without any problem.
67974	Servopack stuck in A.A12 - Arp.io.EtherCAT.Internal.StackLogging - ERROR - Notify EC_NOTIFY_FRAME_RESPONSE_ERROR (No response error for cyclic frame	In some scenarios, the EtherCAT devices can show an EtherCAT communication issue A.A12, but EC_Topology = TRUE and each EtherCAT slave are in Op state.	The error can be resolved with changing EtherCAT cycle time, rebuilding project and changing cycle time back to original value.
68861	Exception occurred:'Insert variable:'Arp.io.Ecat/... already exists"	Exception occurred: 'Insert variable:'Arp.io.Ecat/... already exists" at component Arp.io.Fblo.Ecat on SetupPlc error can happen if there are two PDI	Remove the EtherCAT device that is causing this. Re-add the device and check the data list

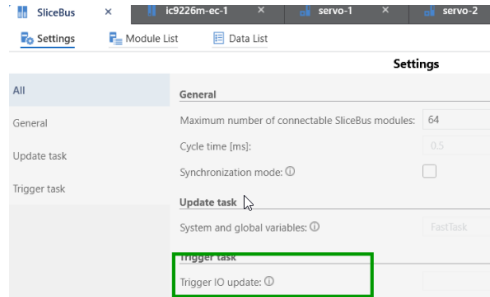
ID	Title	Description	Workaround
	at component Arp.Io.Fblo.Ecat on SetupPlc	variables with the same address. This could have happened because of a device being renamed. The symptom is shown below. 	to make sure that there are no duplicate entries.
69501	The referenced library could not be loaded because the library with the same ID has already been loaded	On replacing libraries the user gets a message "The referenced library could not be loaded because the library with the same ID has already been loaded".	Save the project. Close iCube Engineer and reopen it. Open the project again.
69853	OPCUA: Controller Service Activation breaks OPC UA via Namespace Index Changes	If OPC UA services activation are modified (e.g. enable OPC UA client, PubSub, Profinet services...) on the controller using WBM, then OPC UA communication that was configured using auto synchronization of tags between HMI Designer[OPC UA client] and iCube Controller[OPC UA server] will get affected.	Solution 1: Don't use the Auto synchronization of the variable, but use the manual import of OPC UA tag from the controller, by following the Application note : How to establish OPC UA communication between HMI Designer(Client) and iC9200 Controller(Server) Solution 2: Keep the services of the controller with the default value.
71092	Export to csv from the PLC data list does not work	Export to csv from the PLC data list does not export all items present in the PLC data list.	Use export as IEC 61131-10 file and select the PLC data list. Note that this will export the data list in the form of an xml file.
71193	Delta5: Z_2 is interpreted as an offset when it should be interpreted as a distance	The \$Z_2\$ parameter of the Delta-5 'Mechanism Customization' section is interpreted as a signed number and it's treated as an offset following the positive direction of the Z axis. So, if the user sets '+Z direction of MCS' to 'From Platform towards Base' and this parameter is positive, then the TCP position will be off by \$2 \cdot Z_2\$ in the Z axis.	If '+Z direction of MCS' is set to 'From Platform towards Base', input \$Z_2\$ as a negative value.
71225	Online Controller Scan Fails because NPCAP driver is not in the WinPCAP compatible mode.	Newer versions of Npcap may get installed by other programs, causing Online Controller Scan issues in iCube Engineer. Currently iCube Engineer uses 1.78, and versions newer than this may cause issues.	Newer version of Npcap need to be uninstalled, and iCube Engineer needs to be reinstalled to trigger the proper version of Npcap to be installed.

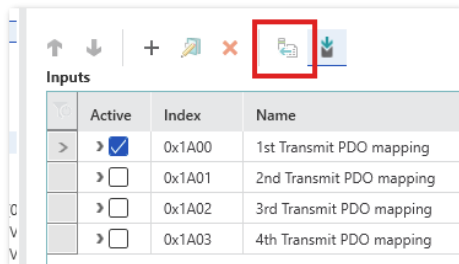
ID	Title	Description	Workaround
71389	iCube Toolchain: Error installing SDK when the user's home directory (TEMP/TMP) path has spaces	When using iCube Engineer Toolchain to install a target SDK (such as iC9226), if the user's TMP and/or TEMP environment variable path contains spaces, the SDK installation fails. This happens by default when the user HOME directory has spaces.	In a command prompt: - Change the TMP and TEMP environment variable to a path which doesn't contain spaces (e.g. C:\tmp) - set TMP=C:\tmp - set TEMP=C:\tmp - Use the CLI to install the SDK directly - See: iCube Engineer Online Help - Managing SDKs - plcncli.exe install sdk --path archive.xz --destination \path\to\install\dir The changes to TMP/TEMP are only in effect for the specific command prompt window, and are automatically discarded when the command window is closed.
71659	Replace Issue: Updating FDCML files / Copy and replace devices in PLANT nodes resets configuration of the device to default.	Using the "Copy" function on a device from the catalog in COMPONENT and using the "Replace" function in an existing device in the PLANT tree will result in a "delete previous device and a new one", meaning the user configuration of the device is reset to the default value. Any configuration done on the older device will be lost.	- Use Copy/Replace functionality for Controller Device ONLY (to update the FW version of the iC9226) - note: replacement of an FSoE controller by an EC controller is forbidden - Do NOT use Copy/Replace for any other device, it is advised to manually delete the previous device and add a new one.
71779	EtherNet/IP Adapter: Too many configured instances does not report an error in iCube Engineer	When the iC9226 is configured as an adapter to a scanner only 24 connections (one connection = T2O and O2T pair), seem to communicate with the scanner.	When the iC9226 is an adapter, configure only 20 connections for communication
71951	Cam Editor: Variables defined as external does not create a GlobalVars	If a variable in a Cam POU segment table is defined as External, it is not automatically created in GlobalVars. When it is added to GlobalVars, it's Initial Value is not read for purposes of drawing the graph.	Create a Local variable to use in the cam POU's Segment Table, setting it's Initial Value to the value to be used in the graph. At the beginning of the Code worksheet of the POU, set the

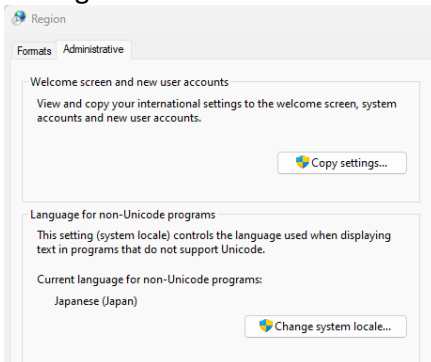
ID	Title	Description	Workaround
			value of that local variable equal to the desired global variable or structure element Example: <pre>localVar_1 := globalVar_1 localVar_2 "=" globalVar_2.LREALSubElement //CamSegment info follows</pre> Note that performing an "Export to ST Program" will erase the entire code worksheet and the variable assignments will need to be re-added.
73926	Incorrect message: The project cannot be loaded because it is too old to be converted	Unable to open a project saved as a pcwex file. The error message claims that this is because the project is too old to be converted.	The pcwex file system may be corrupt and does not contain all files required to open the project. If there are file back up applications running on the PC on which iCube Engineer is installed, some iCube Engineer files may get corrupted in the app's attempt to back up the iCube Engineer files. In order to preserve the integrity of files, keep saving versions of the file as pcweax archive files.
77061	Replace Issue: Project converted from 2024.3 to 2025.6 has compile error: Exchange variable has unsupported type.	Project converted from 2024.3 to 2025.6 has compile error: Exchange variable has unsupported type.	Double click on the error in the messages window and go to the data list which opens up. If there is a PDI of the same data type mapped to a variable, unmap the variable and map the erroneous variable to the PDI. Then unmap the erroneous variable and map the original variable. For example, if the error message is for exchange variable 'sdo_1_Data' being unsupported, and 'sdo_1_Data' is a SAFEBYTE of direction I, check to see if there is a PDI variable of type SAFEBYTE. If there is, disconnect the linked variable and link

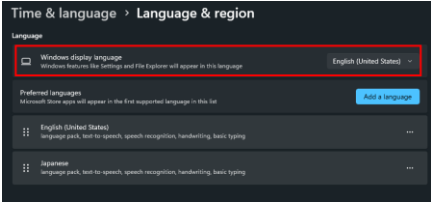
ID	Title	Description	Workaround
			'sdo_1_Data' to the PDI variable. Then unlink 'sdo_1_Data' from the PDI and link the original variable to the PDI variable.
77259	Unable to Write and start project after attempting Download Changes after Stopping program on Controller	If an attempt to "Write and Start Project Changes" is attempted while the PLC is in STOP state, a Write and Start Project cannot be performed. An error is shown in the notification log.	A second Write and Start will write and Star the project on the controller.
77587	SGD7W: Incorrect output signal mapping leads to incorrect Y_AX_BrakeRelease execution	Output signals SO2 and SO3 for an SGD7W SERVOPACK are not mapped to the expected axes, as defined in the SERVOPACK manual. SERVOPACK signals can be mapped to SO1 and/OR SO3 for Axis A, and to SO2 and/or SO4 for Axis B. This has for consequence to not open the brake while using Y_AX_BrakeRelease for the Axis B with SO2 (default value)	Find the mapping of SO2 and SO3, right-click on the variable row, and select "Disconnect Variable (PLC)".  Map SO2 to bit 18 of the output of the second module, and SO3 to bit 19 of the first module. The result should look as follows:  After this change, Y_AX_BrakeRelease can be used with SO2 as default value.
78148	Local Instance variables generate error PLCN0021 variable reference error every time a project change is made	In a project created in iCube Engineer 2024.9 and converted to 2025.6, every time a local variable is created, iCube Engineer generates error PLCN0021. The only way to continue is to rebuild the project to remove the error.	1. Rebuild the project to remove the compile errors. 2. Open a new project, recreate the PLANT and import all POU's and tasks (using IEC61131-10 import) from the project which was showing the PLCN0021 error.

ID	Title	Description	Workaround
79342	Duplication of PDO for stepping motor on 2024.9 remains on 2025.6, variable mapping lost after check/recheck Active	If PDO mapping for EtherCAT sub devices is edited, duplicate PDO Mapping entries are shown in the EtherCAT data list in 2024.9 projects. When the 2024.9 project is converted to 2025.6 or 2026.6, the duplicate entries are still shown.	There is no workaround in iCube Engineer 2025.6 or 2025.6. In iCube Engineer 2026.0 and greater, in the EtherCAT node's "PDO Data" tab, select the relevant PDO row in the table toggle the Active box for the affected PDO map. Note that all PLC variables mapped to the PDI variables will be lost. User will have to remap the PLC variables to the PDI variables manually.
80601	Projects with 2025.6 toolboxes with TLS dependencies are not compatible with iCube Engineer 2026.0 or later ("TLS_xxx2" is inaccessible)	1. User projects in iCube Engineer 2025.6 which use TLS function blocks, will see an error message that says that the IEC type 'TLS_xxx2' is inaccessible, when they convert the project to iCube Engineer 2026.0. 2. User projects in iCube Engineer 2025.6 using the Y_Comm_Toolbox_2025_6, Y_Group_Toolbox_2025_6, Y_PLCOpenPart4_Toolbox_2025_6, or Y_MSync_Toolbox_2025_6, will will see an error message that says that the IEC type 'TLS_xxx2' is inaccessible, when they convert the project to iCube Engineer 2026.0.	1. Include the PLCnextController system library in the project. 2. Update all toolboxes to the 2026.0 version.
80638	Downloading 2025.6 Project with 1BA10 counter module on slicebus or CoE bus coupler to 2026.0 iC9226 causes Exception upon download.	Downloading an iCube Engineer 2025.6 Project with 1BA10 slicebus counter module to an iC9226 with firmware 2026.0 causes exception upon download. The error message "PLC Failed: Exception occurred: The following connector configurations are faulty and cannot be established." is shown.	Unlink the variable attached to the module's settings page. 
80721	Delta2 MCS definition does not match the configuration set up by the user. X	Delta2 is using X Y Rz as its MCS and WCS for target positions and feedback from AxesGroupRef. State feedback is shown in indices 1, 2, and 6.	NA. Treat indices 1, 2, and 6 as X, Z, and Rz values.

ID	Title	Description	Workaround
	Z Rz not X Y Rz have the same behavior in the AXES_GROUP_REF		
80833	Exception (SliceBus related) when downloading project from iCube Engineer 2024.9.1 → iC9226M-EC v2026.0	If a trigger task is set for projects containing slicebus configurations in 2024.9 are downloaded to an iC9200 with firmware 2026.0, a slicebus related PLC exception occurs.	Unlink the task linked to the Trigger Task in the SliceBus Settings page. 
80834	EtherCAT Bus Scan: Modules on ECAT MDP Device not detected	Under certain conditions, modules which are installed on an EtherCAT device which supports MDP (Modular Device Profile, ETG5001) are not detected during a bus scan and as a result they are not added to the ECAT bus in an iCube Engineer project. Examples of Yaskawa MDP devices include Sigma-7 & Sigma-X servopacks and SLIO ECAT bus coupler 053-1EC01 (enhanced mode).	Download the project first to create a good EtherCAT configuration on the controller and perform a second bus scan.
80927	Logic analyzer causing iCube Engineer to become unresponsive	The LogicAnalyzer is slow to resize and the cpu utilization spikes while resizing or mousing over the LogicAnalyzer window.	Using the windows setting: System > Display > Graphics Click "Add desktop app". Select the path to the iCubeEngineer executable. For GPU preference, choose "High Performance ..." to use a non Intel graphics processor
81034	EtherCAT Coupler Cycles Between RUN/MF State When Safety Module Has Invalid FSoE Address (0)	If a safety module on the EtherCAT bus coupler has an invalid configuration (like FSoE address = 0), all the slices on the coupler will keep changing from Run to MF state.	Make sure FSoE modules are correctly configured as per the manual.

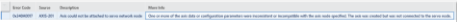
ID	Title	Description	Workaround
		In the EtherCAT Online functions page in iCube Engineer, there will be evidence of rescue scan requests after every few cycles. There are no errors or warnings in the notification logger. The EC slave continuously changes states. EC_TOPOLOGY_OK system variable toggles between TRUE and FALSE continuously.	
81433	Editing PDO objects in iCube Engineer 2024.9 and opening in 2025.6.2/2026.0 causes PDI data to shift offsets, change direction and disappear	Create a project with iCube Engineer 2024.9, update PDO mapping. Open with iCube Engineer 2026.0, some PDI which should be "I" appear as "Q" and some PDO objects are lost.	There is no workaround in iCube Engineer 2025.6.2 or 2026.0.
81577	Unable to Load PDO Information from a Sigma-X slave	The "Load PDO information from slave" button is unavailable for sigmaX drives. This fails on firmware versions 11 and 15. 	Configure the PDO manually.
81672	Changing settings (Extras → Options) requires a delay before closing iCube Engineer or the changes are not applied	Changes made in the Extras → Options dialog are not immediately applied and closing iCube Engineer immediately can cause the changes to be lost.	After making a change in the Extras → Options dialog, wait 30 seconds before closing iCube Engineer to allow the changes to be applied.
81811	iCube Engineer 2026.0 crash or compile error - "YHMI0001 The user must provide the project path"" and project name....." when converting a 2025.6 project, which includes an HMI.	iCube Engineer 2026.0 crashes or generates a compile error - "YHMI0001 "The user must provide the project path "" and project name "" fields. (HMI Project ID: 1)" on converting a 2025.6 iCube Engineer project, which includes an HMI.	Delete the HMI project from the PLANT in iCube Engineer. Add a new project and import the older HMI project from the HMI Project Options page.

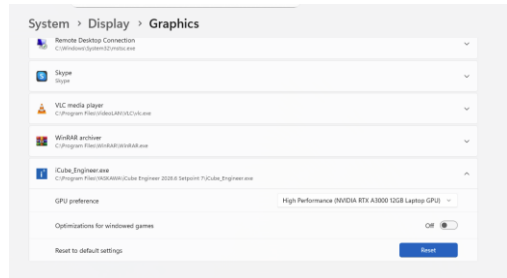
ID	Title	Description	Workaround
			
82225	Project becomes unresponsive when importing large GSDML file	If a user imports a large GSDML file, the project becomes unresponsive when saved or when autosave runs	If a large GSDML file needs to be used: 1. Unselect the Auto save option on iCube Engineer 2. Import files for devices/modules which need to be used in the project and not all files from the vendor. 3. If selection of a single device/module is not possible, please contact Yaskawa Tech support.
82855	Software crash: Right-click the right side of a parenthesis in ST code in debug mode	iCube Engineer crashes when right-clicking the right side of a parenthesis in ST code in debug mode.	Do not right-click the right side of a parenthesis in ST code in debug mode.
82969	[Replace Device] GetParentPlcNode returns null for devices connected to Subdevice ports during replacement	iCube Engineer crashes when right-clicking the right side of a parenthesis in ST code in debug mode.	Do not right-click the right side of a parenthesis in ST code in debug mode.
83257	When the language setting is set to Japanese, garbled characters occur when exporting/importing PLC data lists	When the language setting is set to Japanese, garbled characters show up when exporting/importing PLC data lists.	The problem can be resolved in the following way: • Check the non-unicode program setting is set to Japanese in windows settings. 

ID	Title	Description	Workaround
			- Check the Windows display setting is set to Japanese and the Japanese language pack is installed  Use the following directions when editing the .csv file in Excel: ----- Note: The PnE generated CSV file is UTF-8 encoded!!! When importing a CSV file into Excel, the expected encoding depends on: - Excel version - Operating system locale How you open the file (double-click vs. using Import) 1. Default Behavior Windows Excel (most versions): If you double-click a .csv file, Excel assumes it is encoded in the system's default ANSI code page (e.g., Windows-1252 for Western Europe, Shift-JIS for Japanese). → This often causes UTF-8 characters (like ä, ö, ü, ß, é) to display incorrectly.

ID	Title	Description	Workaround
			2. Correct Way to Import UTF-8 CSV in Excel To ensure Excel reads UTF-8 correctly: - Windows Excel 2016+ Go to Data → Get Data → From Text/CSV. Select your file. In the import dialog, set File Origin to 65001: Unicode (UTF-8). Load the data. - Older Excel (pre-2016) Save the CSV with a UTF-8 BOM (Byte Order Mark). Excel will detect UTF-8 if the BOM is present. Or use Data → From Text and choose UTF-8 manually. -----
83349	Use the Replace function on a device under an EtherCAT junction device's port corrupts the EtherCAT configuration of the project. [AXIS]	Replacing devices inside junction or switch ports can mess with the Advanced Settings of the replaced device.	Do not replace devices; delete the old one and add the new one as a separate device.
83407	FoE download cannot be closed/cancelled and crashes iCube if you click away from the FoE download page - Verification 2026.6	If the FoE feature in the EtherCAT Online Functions page is being used to update the firmware on an EtherCAT sub device, and the user navigates away from the FoE page or away from the Online Functions page, the firmware up will get disrupted and the user will not get a message about the current status of the update process.	Do not navigate or click away from the FoE page in the EtherCAT Online Functions page when the firmware of an EtherCAT sub device is being updated from iCube Engineer.
83451	Exporting and Importing POU changes location of the comments on LD/FBD code worksheet	Exporting and then importing a FBD POU with iCube Engineer (<2026.6) reorganized the comment position	Reorganize the code manually as expected.

ID	Title	Description	Workaround
		and the rung location to different position than originally.	
84305	Regression: Parameters do not get displayed when the parameter tab is opened for Sigma7 Yaskawa servos until tabs are toggled	Sometimes, when adding a SERVOPACK and opening the parameter tab, the tab is shown empty as follows: 	<u>Solution1 (quick fix):</u> open another tab of the SERVOPACK node then go back to parameter tab. <u>Solution 2 (when this appears frequently):</u> 1. Close ICE 2. Go to : C:\ProgramData\Yaskawa\iCubeEngineer\\DrivePn 3. Delete the full content 4. Open ICE again, the issue should not appear anymore ==> The only "disadvantage" of this solution is that the next time a new device with a parameter list is added to the project it will take a bit more time to be added\$. This has NO impact on project integrity and is safe to do.
86096	Station Address in EoE configuration tab not changing to a particular number and different than selected value in the online functions leading to 0x340a0004	The station address in the EtherCAT settings page may sometimes not match the station address in the EoE configuration page leading to the device not being identified correctly. For Yaskawa servo axes, it can lead to a 340a0004 alarm on startup.	Try to change the station address of the device to a value that was not used before.
86405	Re-ordering device list Issue: When position of SLIO modules are reshuffled in the EtherCAT Coupler the Axis related to those modules do not update as expected	If a counter module on an EtherCAT coupler has his position changed (example move from slot 1 to slot2), the encoder position won't be read anymore by the module. The user can check in the associated motion axis in the "Options" tab, the "Module number" value will still show the previous slot number. If the user unselects the "Selected Device" and selects it again, this time the "Module number" value is now correct BUT the position read from the module still doesn't read correctly.	Do not reorder counter modules, delete the modules and add a new one at the new place.

ID	Title	Description	Workaround
		In the motion Alarm the following error will appear: "0x340A0017 : Axis could not be attached to servo network node. One or more of the axis data or configuration parameters were inconsistent or incompatible with the axis node specified. The axis was created but was not connected to the servo node." 	
86608	Controllers: Multiple issues on deleting and restoring controller from the recycle bin.	- Deleting and restoring a controller with an etherCAT servopack configured in the plant results in the following issues: - Process data items & member variables for the servopack are lost, i.e. DataList tab for the servopack is empty. - There are unrecoverable compiler errors EC0021, EC0028, EC0037. - After a successful restore of the controller, another attempt on delete & restore results in an error message popup "Action could not be executed". - Restoring a iC9115S OR iC9115X with a local IO external axis results in the "Should the additional links be overwritten" and "Action could not be executed" popups.	- Delete the servopack and add a new one. - Open a new project. - No workaround.
86622	Cam Editor: ICE crashes on opening cam program	In some situations, depending on the user graphics settings, iCube Engineer can crash when the Cam Editor is opened.	Under System > Display > Graphics add the iCube application to the list of applications. For GPU preference select the computer's dedicated GPU.

ID	Title	Description	Workaround
			
86626	ServoNet External Axis incorrectly added by default with SGD-V-OF option card, without also selecting Operation mode: External Axis Monitoring	When adding option card SGD-V-OFxxx to a SGD7S or SGDXS servopack in the plant, a ServoNet External Axis is created in the plant by default, even if the use case for the module is for full-closed or semi-closed feedback of the main axis only. The ServoNet External Axis module is intended only to service the Semi-Closed Loop + External Encoder Monitoring operation mode. In other operation modes, errors will occur with the automatically created motion axis.	When using the full-closed or semi-closed mode without external encoder monitoring, delete the automatically created ServoNet Motion Axis from the plant. When using the semi-closed + external encoder monitoring operation mode, remember to set the operation mode on the options tab accordingly, for the SGD-V-OFxxx module.
86715	Init Commands for SRA Parameters Do Not Update When Project Is Saved	After a device's SRA Parameter value is changed, saving the project does not cause the Init Commands for that device to be updated.	Rebuild the project.
87226	Advanced bus scan - Offline scan table does not show the submodules of an MDP servo	Offline scan table does not display the submodules of an MDP servo.	Add the submodules to the PLANT from the EtherCAT device list.
87897	iCube Engineer sets the controller UTC time to the current local time	When setting the controller date and time via iCube Engineer, in either the Cockpit or the PLCnext Online Parameters view, the local host controller's local-time is written directly to the controller's local-time, without accounting for time zone differences.	Use the WBM to set the controller time with time zone. Or, use the PLCnext Online Parameters view to set the value with an offset directly. Or, if SSH access is enabled, use standard linux "date" command to change the controller time and timezone.
87963	EtherCAT: Cut and Paste of ethercat devices in the plant results in internal error: The internal Ethercat configuration is corrupted.	Internal Errors are generated if etherCAT devices are cut and pasted.	Do not cut and paste devices in the ethercat list. Delete and re-add devices if a reorder is desired.

ID	Title	Description	Workaround
88014	EtherCAT Bus Scan - Does Not Detect All Servopacks in 16 Axis System	A bus scan attempting to discover devices when there are 16 or more axes in the EtherCAT network, fails to discover all the devices.	Manually add the devices in the network to the Device List page in the EtherCAT page.
88132	iC9115 : Internal error when the max number of EtherCAT device is reached	Under the EtherCAT node on an iC9115 controller, when 17 sub devices or more are added, an internal error is generated.	Extra EtherCAT devices have to be removed from the configuration.
88200	Regression: PDO Data: iCube Engineer Crashes after editing PDO map for a SGDXS servo on a project converted from ICE 2024.9	iCube Engineer can crash on a project containing an SGDXS created in iCube Engineer 2024.9, if the user tries to edit the PDO map of the SGDXS servo.	If a project was converted from iCube Engineer 2024.9, and the user desired to edit the PDO map of the SGDXS servo, first delete the servo and re-add it , and then edit the PDO map.
88250	iCube Engineer temporarily stops responding when multiple rungs are added at once in large projects	iCube Engineer temporarily stops responding when multiple variables are defined in one action.	Wait for the 20 seconds when multiple variables are defined at once.
88637	Inadequate messaging when attempting to install iCube Engineer 2026.6 on Windows 10	If a user tries to install iCube Engineer version 2026.6 on a Windows 10 system, the user will get a "setup has ended prematurely" message and a log to dig through. This is due to the installation component Wibu CodeMeter v9.0 not supported on Windows 10.	CodeMeter 9.10 adds support for Windows 10, and can be pre-installed by the end user. 1. Download Wibu CodeMeter version 9.10 from the official website: https://www.wibu.com/support/user/user-software.html . 2. Install CodeMeter 9.10 before installing iCube Engineer 2026.6 3. Install iCube Engineer 2026.6
88788	HMI: HMI Project archived in 2025.6 opening in 2026.6 SP10	When opening a 2025.6.2 Project Archive with HMI project included in 2026.6 the HMI is copied to the HMI default folder. In HMI Project Options there is an error error YHMI0001 'The user must provide the project path...' The project conversion of a project including a HMI Project fails.	1. Open the project in ICE 2026.6. 2. Navigate to the Plant View. 3. Right-click and Delete the HMI project node that is reporting the error. 4. Right-click and Add a new HMI project node to the device.

ID	Title	Description	Workaround
			5. Re-configure the HMI project by selecting the existing project path and name from scratch.
88862	Multi delete via EtherCAT -> Device List does not take affect	Selecting multiple devices in the EtherCAT Device List and deleting will not delete the devices. The devices will exist in the EtherCAT oide in the plant. If the user tabs and comes back to the Device List page, the devices can be seen again.	In order to delete devices, use the context menu on right clicking the device in the PLANT tree and delete.
88983	EtherCAT bus scan: Scanning SGDXS with fw version not in the catalog scans Configured Station Alias, expected was Explicit Device ID	If a SigmaX servo is scanned , but the CoE version is not available in the product catalog in iCube Engineer, the user is asked to pick the FDCML file that closely matches the device. The Device ID mode that is populated in the Advanced Settings page of the device is not Explicit Device ID (default mode for Sigma-X). Therefore the device ID value may also be wrong.	Manually correct the Device ID mode and Device ID value in the advanced settings page of a Sigma-X servo which is detected with a CoE version that is not available in the catalog of iCube Engineer.
89280	Kuebler Sendix Encoder - Error "Not all compatible roles could be created" when adding safety PLC variable to Padding 009 PDI	When a Safety PLC variable is added to the Padding 009 PDI, an error occurs "Not all compatible roles could be created".	The Padding 009 PDI is not needed to operate this device and so adding a Safety PLC variable is not necessary.
89346	Junction support - Replacing a device connected to a junction with another device that supports multiple modules makes it lose its modules	If a Single module device connected to a port on a junction device is replaced by a multi module device, the modules on the newly added device do not show up in the plant	Delete the replaced module and re-add the module.
89348	Junction Support - Replacing a junction with a servo or another junction leaves behind phantom ports	If a junction device is replaced by a servo or another junction device, some ports from the junction that is removed still linger in the PLANT view	Instead of trying to replace a junction device, try deleting the original junction and adding a new device
89422	Project conversion from iC9115S to iC9226M-FSoE causes error: The program instance 'sproxy_1' has an invalid program type	A controller replacement in iCube Engineer from an iC9115S to iC9226M-FSoE causes an error	Replace the iC9115S controller with an iC9226M-EC first, then replace the iC9226M-EC with an iC9226M-FSoE
89489	Bus Scan does not work if there are nested junctions	EtherCAT bus scan may not work if there are nested junction devices.	Manually add devices to the EtherCAT network

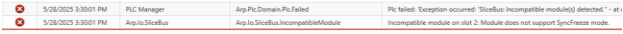
ID	Title	Description	Workaround
89537	EtherCAT device management: Replacing servos does not work, "Replace with a device instances is not supported"	Copy and Replace of servo devices in the EtherCAT node in the plant is not supported.	Replace is not supported. Delete and Add instead.
89610	EtherCAT advanced Settings: Internal error: "The internal EtherCAT configuration is corrupt" message when a device that is moved gets deleted	When an EtherCAT device is moved and devices before or after the moved device is later deleted, it can result in an Internal Error mentioning that the internal EtherCAT configuration is corrupted.	Delete the moved device to get rid of the internal error.
89688	0x340a0004: Configured servo network axis node was not found - iCube Engineer not creating the correct servonet.xml	If the 0x340a0004: Configured servo network axis node was not found alarm is seen in the WBM, it could be because the servonet.xml file which is created by iCube Engineer is incorrect.	Delete the servo connected to the axis that is in question. Re-add the servo and map the axis to that servo.
89731	Parameter Write to ROM failed with DP_CM_2004, when FW of Sigma 7 configuration and network doesn't match	Trying to write to ROM the parameter list of a SERVOPACK Sigma7 v80019 configured in iCube Engineer to a SERVOPACK Sigma7 v80023 will result into "Write to RAM failed, ERROR SDO: Data types does not match, the length of service parameter does not match (DP_CM_2004)" 	Update the version in the iCube Engineer project in order to have the FW version match.
89755	Sigma7W : Default value for Digital Output Bit mask disables iC9226 control of SO4 and SO5 output	The Digital Output Bit Mask (PnB8C) parameter's default value for the Sigma7W only allows use of SO2 and SO3 by the iC9226 when it should allow the use of SO2 ~ SO5 by default.	PnB8C needs should be manually set to 3,932,160 to allow the use of SO4 and SO5 by the iC9226.
89878	0x340a0004 Configured servo network axis node was not found because the wrong station number was being used in the EoE tab and shown in the online functions page	Station address of the ethercat node does not match on the device's settings page and the EoE page and Mismatch Analyzer page in the EtherCAT online functions page.	Change the Station Address in the EtherCAT settings page to a different value and then change it back to the desired value.
89930	iCube Engineer temporarily stops responding when multiple rungs are added at once in large projects - Copy	iCube Engineer temporarily stops responding when multiple variables are defined in one action.	Wait for the 20 seconds when multiple variables are defined at once.
90274	Moving Ebus from one coupler to another produces hot connect error	If EtherCAT slaves belonging to a Hot Connect group are moved from one EK1100 coupler to another	Before moving the slaves, disable the Hot Connect function for both EK1100 couplers: the

ID	Title	Description	Workaround
		EK1100 in the system tree, an error message regarding the Hot Connect configuration appears.	one to which the EtherCAT Terminal slaves are connected and the EK1100 to which the slaves are to be moved.
90276	Internal references inside ESI are not updated when ESI with references is imported with the same name	When an ESI file is imported that contains a new device and references to other files—but shares the same file name as an already imported ESI file—the references to the linked files are not resolved correctly. Instead, the referenced files from the previously imported ESI are used for the new ESI file.	Do not import an ESI file that contains references to other files and has the same file name as an ESI file that has already been imported. Ensure that ESI file names are unique. If an update of an ESI which has references to other files is necessary, the file name of the new ESI for the device must be renamed..
90279	Update offline CoE index or subindex value failed after reload of project	If a CoE object dictionary entry is changed from the CoE offline editor and the project is saved, closed and reopend the value of the CoE object dictionary is the default value.	This is an issue in the ui of the editor. The init command, which is necessary to change the value on the physical devices isavailable after reopening the project.

3.3 iC9000 Series Firmware Known Issues

ID	Title	Description	Workaround
34872	SliceBus network shutdown when a breakpoint is reached	If a breakpoint is activated for the first time (logic halts at the breakpoint), the PLC enters debugging state. In this state the various fieldbuses (EtherCAT, Slicebus) stop running and all outputs are set to state FALSE. The PLC leaves the debugging state only when all breakpoints in the project are removed.	It is not possible to keep the fieldbuses running when the PLC enters the debugging state. The PLC State can be monitored using the notifications tray in iCube Engineer. Do not use breakpoints if the application requires fieldbus activity while in the debugging state.
39022	Logic Analyzer inconsistent in picking the trigger for short duration pulses on local and remote modules	Logic analyzer cannot trigger a plot based on a rising or falling signal if the trigger variable (not a port variable) is tied to a process data item (like a digital input or output) and the signal has a small pulse width (1 or 2 ms).	Map the process data item to a port variable and use the port variable to trigger the logic analyzer.
40832	Non safe exchange variable has unstable state when the safe module is passivated	When the FSoE device communication state is not in "ProcessData" (regular operation), then the non-safe PLC exchange variable value is not valid.	Verify that that FSoE device is in "ProcessData" state before using the exchange variable value. Contact Yaskawa support for more information on how to use FSOE_MSTR_ADDR_0000x_PASS_OUT to check for the status of the device.
40870	No error generated when bypassing the 32 Megabytes data Memory limit	User is able to add variables that consume data memory greater than 64 MB.	Make sure that the total memory used in a project is less than 32 MB.
44020	SPLC1000 board with under/over temperature shutdown can not be diagnosed usefully	If an overtemperature/under temperature error occurs on the safety PLC, it goes into a Hard Fail-safe state: the safety CPU will set the red ERR LED and and stop all communication; all connected FSoE devices will enter fail-safe state after FSoE communication watchdog time. Once the heartbeat between the standard PLC and the safety PLC detects that communication between the safety PLC and standard PLC has stopped, the data from the safety PLC will no longer be valid.	Include heartbeat logic in the code on the standard PLC to detect that the safety PLC is unresponsive and to determine if the data from the safety PLC is valid.

ID	Title	Description	Workaround
49233	EOE: Virtual MAC causes switching issue	If multiple EtherCAT devices are configured with the same virtual MAC address, Ethernet over EtherCAT (EoE) communication may become unstable or unreliable. Ensure each device has a unique virtual MAC address to maintain consistent communication.	To avoid communication issues, assign a unique virtual MAC address to each EtherCAT device. Alternatively, isolate the devices on a dedicated local switch to prevent MAC address conflicts.
51216	LLDP duplication between PROFINET Device/Controller and Ethernet/IP Adapter	Ethernet/IP and Profinet Device have different specifications and implementations for LLDP frame emission. Thus, multiple frames are emitted, with different content, if both components are enabled. This can cause some automatic device configuration issues with the Profinet network.	It is recommended to disable the Ethernet/IP component when using the Profinet Device/Controller component, and vice versa. This can be configured using the WBM System Services view. If both Ethernet/IP and Profinet are required in the application, please contact Yaskawa support for assistance to defeat the Ethernet/IP LLDP feature.
53415	Wrong online values in execution mode are displayed	The value of an expression will not be shown if the expression contains variables in it. For example, On line 2, the value of the right side of the equation is not shown. On lines 4 and 5, the value of the right side of the equations of the two lines are evaluated and displayed correctly. <pre> 1 x 1 := INT#1; 2 test1 5 := ESM_DATA.ESM_INFOS[x 1].TASK_COUNT; 3 4 test2 5 := ESM_DATA.ESM_INFOS[1].TASK_COUNT 5; 5 test3 0 := ESM_DATA.ESM_INFOS[2].TASK_COUNT 0; </pre>	Not available.
56171	Unable to download to iC9226 if Profinet Controller is enabled and Profinet license doesn't exist.	Activating the Profinet Controller services without the Profinet license will unload the project in the controller and forbid any new project download.	Do not activate the Profinet Controller functionality if the controller doesn't have prior a Profinet license.

ID	Title	Description	Workaround
56683	Ethernet/IP: IO connection RPI/API not checked against actual maximum update rate	The Ethernet/IP Scanner and Adapter components share a single cyclic update rate, which is configured in iCube Engineer on the Assemblies tab, Schedule Interval field. Neither outgoing scanner IO connections nor incoming adapter IO connections correctly advertise the RPI / API on the wire, if lower than this configured limit. This can lead to unexpected timeouts or connection errors.	Set the Schedule Interval to the minimum expected production interval for all scanner and adapter connections expected in the system.
61581	Powercycle test iC9226M-FSoE with two Sigma 7 are interrupted by instable EtherCAT connection due to EoE communication	If EoE is active on Sigma-7 servos connected to the iC9000 controller, the Servopack could get stuck in state INIT on system power up. The communication is stable as soon as EoE is deactivated or, when HotConnect is enabled when EoE is active.	Deactivate EoE if it is not necessary for the application, and keep HotConnect capability enabled for all devices that support Hot Connect. If the Sigma-7 servo starts up in INIT state, perform a warm start of the controller.
69262	040-1BA00 and 040-1CA00 with Hardware Revision 1 and 2 don't support slicebus synchronization mode	040-1BA00 and 040-1CA00 with Hardware Revision 1 and 2 can't be configured on the slicebus with Synchronization mode ON. The following Error will be thrown:  When notification logger is checked, the following error can be found: 	Do not use the devices that need synchronization mode and 040-1BA00 or 040-1CA00 (HW 1 or 2) together on the slicebus. Use a 040-1BA00 and 040-1CA00 with Hardware revision 3. A change of hardware version from version 1 or 2 to 3, needs to be discussed with the sales or after-sales representative. The other option is to change the configuration and separate the module that needs synchronization and the 040-1BA00 or 040-1CA00 (HW1 or 2) on a different bus (Profinet coupler, or EtherCAT bus coupler). Note: with Hardware Version 3, the module doesn't support synchronization mode either, like many other devices, but there is no more incompatibility with the other module. The full list of modules that support synchronization mode is available online.

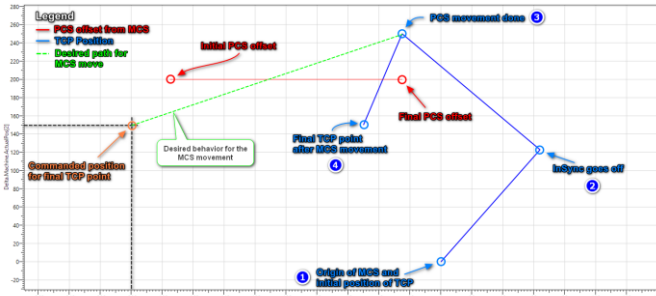
ID	Title	Description	Workaround
70769	Cold start when a project name is changed does not automatically back up a retain data file	If a cold start is automatically performed by the controller, because of a project name change, the controller does not back up the retain data in a back up file. The user will lose any retained data.	Ensure that project name is not changed between "Write and Start Project" commands if the user wishes to maintain retained data.
71246	Writing "SAVE" to register 16#1010 on a SigmaX amplifier while MC_Power is enabled does not notify the user that the save command did not work.	On a Sigma-X servo, if the SAVE function is executed by writing to Index 1010 when the servo is not in a writeable state, there is no indication on the Y_EC_COE_SdoWrite FB that lets the user know that the SAVE was not successful. The Done output becomes TRUE , which gives the user the wrong impression that the save took place.	Read back the parameter to ensure that it was successfully written. Do not rely on the Done output of the Y_EC_COE_DdoWrite FB only.
71446	"SOFTWARE UPDATE" Feature No Longer Available in WBM System Services	"SOFTWARE UPDATE" Feature is not Available in WBM System Services	Not available.
79386	SliceBus is projected with 500µs cycle time, but with 2026.0 SP5 a real cycle time of 1ms is measured - in SP3 it was 500µs	Slicebus update rate of 500us may not work if with a large number of modules present on the backplane. Cycle time depends on the number of bytes being exchanged. If a 500us update is configured with modules that exchange a large data packet in total, the entire network may become non functional (as seen in the WBM as topology not OK and status not OK), or the network may function at a rate of 1ms. If a line extension is configured with a cycle time of 500 µs, and - the I/O data size exceeds 500 Bytes, and - the number of modules is greater than 20, then customer support shall be contacted to clarify if it is supported.	Set the slicebus update rate to a higher value.

ID	Title	Description	Workaround
80886	OPC UA Client reports "BadConfigurationException" was returned during 'ActivateSession' and connection fails when WBM User Authentication is disabled.	OPC UA communication/session with authentication/credentials will stop working with 'BasConfigurationException' if the user authentication gets disabled from the WBM.	<u>Two solutions:</u> 1. Keep user authentication active for OPC UA communication. 2. Create a new OPC UA session with anonymous credentials
82586	integrate_pxc_2025.x : firmware downgrade from 2026.6 to 2026.0 leaves extra files behind which interfere with next firmware update	When downgrading firmware from 2026.6 to 2026.0 or earlier, some files are left behind in the filesystem related to the firmware update process. This consumes significant flash media space and causes an unexpected error state after the next	1. When downgrading from firmware 2026.6 to firmware 2026.0, perform a type-1 reset afterward. - This will reclaim the flash media space used by the stale files and prevent future firmware update problems. 1. When later upgrading from 2026.0 to 2026.6 and the PLC enters a Stopped Suspended state: - Perform a type-1 reset (recommended) OR - Recovery is also possible via the WBM System / Update page view: 1. Cancel the incorrect "pending installation" 1. Resume 1. This also clears out the flash media space used by the stale files, but is only available on FW 2026.6 or later.
83373	EoE on an iC9226 controller does not work reliably unless EoE is enabled on all devices which have EoE capability	If there are devices on the EtherCAT network that are EoE capable , but have EoE disabled, other devices that have EoE enabled may not be able to respond over EoE.	All devices that support EoE must have EoE enabled for EoE to work on the entire network.
85624	Firewall is difficult to configure for Ethernet/IP communications	The WBM Firewall Basic Configuration tab does not have a convenient selection to open the necessary ports to support Ethernet/IP.	If the security context allows it, consider disabling the firewall via the WBM page. Or: using the WBM Firewall IP Input/Output configuration pages, manually add the following rules: - Input Accept TCP port destination 44818 (required for adapter) - Output Accept TCP port destination 44818 (required for scanner) - Input and Output Accept UDP port destination 2222 (both are required for either adapter or scanner)

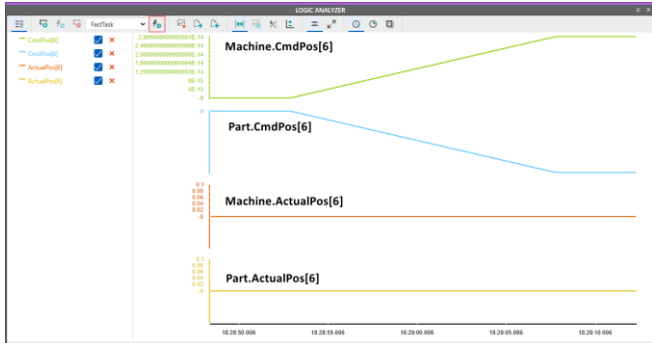
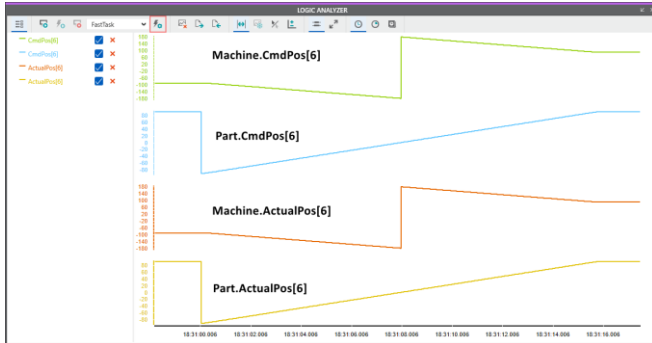
ID	Title	Description	Workaround
85804	WBM: It is possible to remove Admin user and have no user defined with Authentication activated	It is possible to keep WBM login authentication enabled and also delete all users configured on the system. If this happens, the user will be locked from logging into the controller.	User will have to perform a factory Reset Type 1 using the physical switch on the controller. Note that the current project and IP address of the controller will be reset.
85893	Breaking change: Archive from WBM 1.0 (ic9226 FW<=2026.0) is="" not="" compatible="" with="" wbm="" 2.0="" (ic9226="" fw="">=2026.6)	The Archive from WBM 1.0 (ic9226 FW<=2026.0) is="" not="" compatible="" with="" wbm="" 2.0="" (ic9226="" fw="">=2026.6)	1. Update the firmware of the controller with the running project to FW 2026.6 or later 2. Connect to the WBM and create a new archive with the "backup & restore" functionality
87413	EtherCAT Online Functions History tab time column is incorrect	Time Column of the History tab of the EtherCAT Online Functions page shows the wrong date.	NA
87898	WBM 2.0 not compatible with Safari (MacOS) browser or iOS with any browser - login redirection loop (work around)	iCube Control WBM 2.0 (beginning with firmware version 2026.6) is not compatible with Apple Safari browsers on MacOS 26.5.1 or iOS 26.5.1, nor on any browser on iOS, including Google Chrome. The login page enters an redirection loop and does not proceed to the application.	For desktop solutions, use another browser such as Google Chrome or Mozilla Firefox. For mobile solutions, use a non-iOS device.
88701	WBM2.0: iCube Engineer can't connect to the controller after setting "Maximum session time" to 0 - documentation implies 0 means no timeout	If "Maximum session time" is set to 0 in the WBM, user will not be able to connect to the controller in iCube Engineer	Set "Maximum session time" to any number greater than 0
88856	Regression: OPCUA: Write operations over OPCUA is significantly slower compared to 2025.6	With Firmware 2026.6, OPC UA write operations are slower than in 2025.6 by 50 %	NA
88889	Project integrity check - There is no META-INF/ASiCManifest*.xml	In the controller's WBM, on the Security/Project Integrity page, for the "Signature Verification" drop-down menu, only the "Disabled (hash verification only)" option is supported. All other options are currently not supported.	no workaround

ID	Title	Description	Workaround
89221	iCube Technology App plcnexservices action "MUST_HAVE" does not start required services	When installing an iCube Technology App (like Web HMI App) that explicitly requests Runtime Services (e.g. GRPC LOCAL SERVER) as a mandatory dependency, the FW fails to automatically enable or start the service. Apps that rely on such a service fail to launch properly and generate confusing or unqualified startup errors.	Manually enable and start the dependant services via the WBM (_System Services_ page) before starting the application.
90349	iC9115S: EC_ER LED is unexpectedly ON	For the iC9115S product, in some situations the EC_ER LED is unexpectedly ON, despite no error in the network.	None available.

3.4 iC9000 Series Motion Known Issues

ID	Title	Description	Workaround
18996	Spike in commanded velocity and Torque at the end of MC_StepRefPulse implementation - missing decel input	There can be a jerk in motor position when the c pulse is detected using the MC_StepRefPulse using a high velocity.	Use a low value for velocity for detecting the c pulse when the MC_StepRefPulse function block is used.
26625	Y_AX_Home_LS_Pulse CreepDistanceLimit not enforced on Re-Trigger	The CreepDistanceLimit is not enforced when the Home_LS_Pulse function block is re-triggered because the MC_StepRefPulse function block is ignoring the distance limit during this case.	Not available.
33337	MC_TrackConveyorBelt: Wrong final position calculation for MCS move after PCS move that finishes after tracking	When using MC_TrackConveyorBelt, sending a PCS move to the motion buffer that finishes <u>after the tracking</u> has concluded, followed by an MCS move, will result in an incorrect final MCS position (provided that the MCS move is sent to the motion buffer while the PCS is not done). See reference graph below. 	- Send the MCS move to the motion buffer only when the PCS move has been finished. - Make sure that the PCS move finished before the MC_TrackConveyorBelt.InSync goes false.

ID	Title	Description	Workaround
33343	PLCOpenPart4: Blending from MCS to PCS not possible if WCS is set before PCS via Y_F4_SetFrameOffset	With this sequence: 1. Y_GroupSetFrameOffset(MCS -> WCS) 2. Y_GroupSetFrameOffset(MCS -> PCS) The MCS->PCS transformation is not correctly installed. Blending between these frames is not possible and results in a stop. If the order of calls to Y_GroupSetFrameOffset is reversed, no problem occurs.	When needing an MCS->WCS transformation, set the MCS->PCS transformation first, or do not set it at all.
40843	MC_GearInPos: PositionTracker can cause slave motion in opposite direction	In some situations, MC_GearInPos can cause temporary reverse motion during synchronization phase. This may be unexpected for some applications.	Verify the starting conditions when the block will be executed to check if there can be backward motion on the slave axis during the synchronization attempt. Use with caution if backward motion on the slave axis can cause damage.
46472	Large cam out disengage window causes an instantaneous jump in position when the slave is disengaged	A larger Y_CamOut disengage window can lead to an instantaneous jump in position on camming out.	The window should be calculated such that it is larger than the position travelled by the master in one motion network scan.

ID	Title	Description	Workaround
50808	Motion Group: Problems with PCS handling for group's rotational axis defined as a linear load type	If a group's rotational axis is defined as "Linear (finite)" in its configuration, the group will not handle said axis correctly when commanding trajectories using a PCS coordinate system. In such a case, multiturn rotations are not handled. For example, a rotation of 720° was commanded in the following image.  Also, PCS movements where the rotational axis' position crosses 0 might cause a jump in the MCS position, as seen in the following image. The servo will throw an alarm in such a case, stopping the motion of the whole group. 	Some possible workarounds are: • Do not use a PCS coordinate system • Select target positions that avoid conflicting trajectories • Add middle positions commanded in MCS to avoid conflicting trajectories

ID	Title	Description	Workaround
53109	SI-EP3 PROFINET Option Card for VFD: No information about STO inside Status Word available	In the Statusword of SI-EP3 PROFINET option card there is no information about STO (Safe Torque Off) inside the Status Word. Therefore there is no reaction possible with the MC Function blocks (e.g. MC_MoveVelocity, MC_ReadStatus) in case of STO	Using the Multiprotocol Card JOHB-SMP3 (PROFINET mode) there is the STO information in Status Word Bit 14. Control/Status has to be set on 1: Yaskawa P-Drive
61095	Y_WriteDriveParameter truncates input values which are out of range for the datatype	Y_WriteDriveParameter does not check that the input DINT value is within the range for a 16-bit signed or unsigned value, if the actual datatype of the parameter is a 16-bit size. The data is instead masked to include only the lower 16 bits. This can cause unexpected parameter write values without function block errors, if the input data is outside the datatype range for 16-bit parameters.	Check that the input value is inside the range [-32768, 32767] or [0, 65535] for signed or unsigned 16-bit parameters. Verify written parameters with Y_ReadDriveParameter.
61487	MSync: MC_MoveLinearRelative while tracking does not behave properly if IOP is non zero and PCS moves are commanded	Using MC_MoveLinearRelative with coordinate system PCS with MotomanSync group while tracking a part with a non-zero IOP leads the robot to move to an unexpected position.	Define the IOP input of the MC_TrackConveyorBelt to zero.
69803	Motion Group: Delta3/Delta5 unable to recover via MC_GroupReset after exceeding rMin/rMax limits	For a Delta-3 or Delta-5 axes group, if the central shaft limits rMin/rMax are exceeded (usually by means of an ACS move), then when an MCS move is attempted, the axes group will enter an alarm state which cannot be recovered using MC_GroupReset.	1. Disable the group via MC_GroupDisable 2. Use individual AXIS_REF moves via MC_MoveAbsolute to home the axes to a known good state 3. Enable the group via MC_GroupEnable 4. Clear the error condition via MC_GroupReset
69846	Delta3 - changing Z direction selection does not change rotation direction of Rz axis	When changing the direction sense of +Z axis on Delta-3 mechanism, the direction of the optional T axis does not change accordingly to satisfy right-hand-rule of the X and Z axes of the mechanism.	1. Change the positive direction of the T axis via servopack parameter Pn000.0. OR 2. Select a negative feed constant position scale in the T axis configuration.

ID	Title	Description	Workaround
69941	Delta5: Changing Z direction does not change rotation direction of Ry nor Rz axis	When changing the direction sense of +Z axis on Delta-5 mechanism, the direction of the T and B axes does not change accordingly to satisfy the right-hand rule of the X and Z axes of the mechanism.	Change the positive direction of the T and B axes via SERVOPACK parameter Pn000.0.
71273	Commanded Motion on a Scara that causes a switch in wrist pose results in motion alarm in the middle of the move	When the 'Wrist/B pose constraint' is set to something other than 'Unbounded', a jump will occur on the position of the B axis when crossing the 0° position. For example, when using 'Wrist/B pose constraint' as 'Right-Handed', if the current position of B is 30°, and a move results in this value going to -20°, motion will execute without problems until the B position reaches 0°, and then it will stop due to the jump in position.	Set 'Wrist/B pose constraint' to 'Unbounded'. If necessary, add via points to the move chain to produce the desired intermediate wrist-pose, to control the direction of wrist motion.
71526	FMK component does not properly prohibit download changes on changed plant config	Changes made to the PLANT configuration under Motion Axis and Motion Groups do NOT restrict "Write and Start Project changes", but the hardware configuration changes aren't taking effect until the next Controller Reboot or "Write and Start Project".	Use "Write and Start Project" every time a modification on the Hardware configuration is done (= any modification in the PLANT tree, "write and Start Project changes" should be used only for modification of code in the COMPONENT tree).
71717	Scara: Some MCS movements report 4681 position soft limits error even when position is within limits	In certain scenarios, MC_MoveLinearAbsolute/Relative with MC_CoordinateSystem#MCS can experience a false-positive error 4681 (position value exceeded configured limits) as a pre-move check.	Potential workarounds: 1. Temporarily disable the S and R ACS position soft limits (and/or corresponding axis position soft limits) when initiating the move, and then re-enable them immediately afterward. 2. Remove or substantially widen the position soft limits for the S and R axes. The user needs to implement code to prevent this axis from going outside the allowed limits of the machine. 3. Add additional via point moves to work around the limitations
78760	MC_GroupReset now has precondition of MC_GroupEnable, reports error 8961	As a side-effect of adding individual axis reset to MC_GroupReset, MC_GroupEnable is now required as a precondition.	Call MC_GroupEnable prior to MC_GroupReset.

ID	Title	Description	Workaround
80798	High Speed output on 050-1BA00 counter sends multiple outputs for first triggered output	Unexpected pulses are output if the COIN signal is re-armed, disabled or reconfigured while a COIN signal is being output	1. Arm sufficiently ahead of when the trigger might occur 2. Re-arm only after the pulse has finished being output 3. Choose a sufficiently narrow pulse width to make (2) practical for the application 4. Do not disable or enable the COIN while the pulse is being output
82406	050-1BA50 : Fatal motion kernel error when MC_TouchProbe.Sensor.Bit is set to an unsupported value - R8-HF1	If setting MC_TouchProbe input Sensor.Bit to an unsupported value, for the 050-1BA50 counter module a fatal motion kernel error can occur, stopping the PLC and requiring a reboot.	Only input supported signals to TouchProbe when addressing the 050-1BA50
88211	iC9115: Inverting input A/B phase polarities can cause one extra pulse count	For iC9115 local IO: Changing the state of the Phase A or Phase B signal polarity inversion configuration <u>during runtime</u> can cause the counter value to change unexpectedly by +1/-1 count.	Ensure that the Phase A and Phase B signal polarity inversion configuration is performed <u>at system startup</u> before reading the counter value, and do not change the polarity inversion configuration thereafter.
88921	0x21030104 -Motion scan sync timeout alarm on controller when EtherCAT cable is unplugged from junction	Disconnecting the EtherCAT cable abruptly when the EtherCAT update rate is 1 ms can sometimes cause the 0x21030104 -Motion scan sync timeout alarm	Reboot the controller to clear this alarm

ID	Title	Description	Workaround
89423	Regression: Write-and-start-changes (download changes) causes future stop/warm start error: "Plc failed: 'Exception occurred: GroupMap is null!'"	When performing write-and-start Changes (during Fast Edit mode), the operation succeeds. However, the next Stop->Warm Start cycle causes an error banner: "Plc failed: 'Exception occurred: GroupMap is null!' - at component Arp.Services.FMK on SetupPlc(isChanging=false, startKind=Warm)" The PLC can then no longer be stopped nor warm/cold/hot-started directly from iCube Engineer cockpit nor WBM. Saving or restoring retain data is not possible when in this error state.	When this situation occurs, restart the controller or perform "write and start project" from iCube Engineer. This preserves the retain data and is equivalent to a stop and warm start.
89544	MC_GroupReadStatus: MC_GroupReset needs to be executed twice to change the output state from GroupErrorStop to GroupStandby	If MC_GroupReset is executed to clear a motion alarm, the group state output is incorrect. GroupErrorStop remains TRUE despite the alarm being cleared successfully.	Execute MC_GroupReset twice to clear the alarm and update the Group state.
89548	Y_GP_ReadJointMap for coupled gantry mechanisms - Identifies the mechanism as Having Prime Axes	For coupled gantry mechanisms like H-Bot, T-Bot, Core XY, the Y_GP_ReadJointMap function block incorrectly returns a joint map with an architecture that shows prime axes.	Not available
89641	Y_AX_AxisControl: If the AlarmClear input is held TRUE while the EtherCAT cable to a slave is unplugged, alarms on the controller cannot be cleared after plugging the cable in.	This issue seems to be the result of the drive and controller alarms being registered before the device state changes from zero. Meaning the internal MC_Reset is being executed just before the slave is recognized and a valid state. In other words if the device state goes from 0 -> (not zero) during MC_Reset.Busy == TRUE this weird identification issue pops up.	Add some kind of logic to the Y_AX_Control FB that validates the slave state before executing the internal MC_Reset. Something like this. 