Release Notes for SigmaLogic™ Software Package

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LogicWorks Configuration Utility 1.1.2.2

1. New Features

Number	Summary	Release Notes
797	Include Default achive for Sigmalogic v1.2.1 Embedded Code in the LogicWorks 1.1.2 build	Starting with LogicWorks v1.1.2 , LogicWorks will send SigmaLogic Embedded Code v1.2.1.2 to the unit when the user chooses Configure-Update-Return to Factory

2. Bug Fixes

Number	Summary	Release Notes
793	Using Imported SigmaWin+ file causes continual reboots	In LogicWorks v1.1.1 and earlier, Importing a SigmaWin+ file will write an improper value into the Axis1.xml file for Pn170h(368). Upon reboot, the parameter will be sent to the servopack, but will be rejected as out of range. After reboot, the verification/reboot process will keep repeating.

3. Known Issues

Number	Summary	Release Notes	Workaround
591	LogicWorks Crashes when clicking flag reference text	Double clicking on the reference text in the Flag Reference Table will cause the program to close immediately.	Single-click over the flag reference text to place the cursor in the text field or drag the mouse over the text to highlight it for change.
595	No project compare on Connection	The offline file contents are not automatically compared to the actual configuration when Connection is made to a SigmaLogic axis. This can result in a difference between what the user sees in the configuration utility screens and what is stored in the axis.	Establish a Best Practice procedure to manually compare the file name to the current configuration name or to always Receive the current configuration immediately after Connection to a SigmaLogic unit.
638	LogicWorks does not display the values for CN13 Analog I/O	Support for monitoring and controlling the CN13 Analog I/O points from the PLC was added in SigmaLogicEmbeddedCode v1.2.0 and SigmaLogic_AOI v1.2.0. However these values are not currently displayed on the LogicWorks Status and I/O monitoring pages.	Use PLC to monitor and control the CN-13 Analog I/O using Tags 'AxisRef'.I.AnalogInput and 'AxisRef'.O.AnalogOutput.
732	LogicWorks writes incorrect Pn522 (Positioning Completed Width) value when the value being written is small	In LogicWorks-v1.1.1 and earlier, values entered for Configure-Options- Position Completion Window that are smaller than 0.01 will result in an actual window of 0 encoder counts at the motor. Depending on the tuning of the axis, the servopack may never report 'In-Position' via the PSET output to the controller, or the signal could be very jittery and unstable. For some moves, such as during the homing process, a debounced In-Position signal is	Set a value for Position Completion Window that is greater-than or equal to 0.01 user units.

	checked as part of the process. If the signal is unstable, the debounce will not be met and the process could "Hang".

SigmaLogic Embedded Software v1.2.1.2

4. New Features

NONE

5. Bug Fixes

Number	Summary	Release Notes
731	SigmaLogic: Home to Overtravel with C-channel using MAH_Yaskawa AOI does not set position correctly at the end of homing	In SigmaLogic embedded code v1.2.0 and earlier, the final desired home position is set prematurely in the process prior to the offset move. This results in an incorrect home position at the end of the process. This issue only affects homing type 'Homing to Overtravel using C-Channel'.
747	Axis will not stop automatically when MAJ - Jog, MTRQ - Torque or MAG - Gear is released	In SigmaLogic embedded code v1.2 and earlier, internal conflicts could exist between the Jog, Gear and Torque control AOIs and the MAS Motion Axis Stop/Abort block. These conflicts could result in either the axis not stopping or not starting properly, often on subsequent movements. With the change in v1.2.1, the conflicts are avoided, but note that MAS cannot interrupt a stopping action already in progress. Use caution that the deceleration rate for the initial Jog/Gear/Torque control is set adequately.

6. Known Issues

Number	Summary	Release Notes	Workaround
600	HSI does not wait for move to be In Position	For all other moves, move complete status is sent to the PLC when the commanded profile is finished AND when the motor position is within the range specified by the LogicWorks configuration under Configure - Options - Position Completion Window. In v1.1.0, the High Speed Index moves do not wait to be in the position completion window. Move complete is set when the commanded profile is finished.	Add external delay for subsequent processes/actions that depend on the motor being settled into its final position.
650	Sequence Table execution resumes in certain cases where servo is disabled, then re-enabled	In SigmaLogic AOI v1.2.0, MSF_Yaskawa (Motion Servo OFF) was allowed to execute even though another AOI could be active, such as MSQR_Yaskawa (Motion Sequence Run). Disabling the axis during motion will cause an application fault which normally would abort the sequence. However, if the sequence was waiting for a flag either Before or After motion, then no fault would be generated and the sequence table would still be executing even though the servo would not be capable of motion.	The user should issue MAS_Yaskawa (Motion Axis Stop) prior to issuing MSF_Yaskawa (Motion Servo OFF) to properly stop an axis and abort sequence execution. Alternatively, the user could set the Cancel input on MSQR_Yaskawa. Canceling the sequence will stop motion.

SigmaLogic AOI for RSLogix 5000 v1.2.0 (Same as previous package release)

7. New Features

Number	Summary	Release Notes

592	User cannot disable the servo with MSF_Yaskawa if another block is active	In SigmaLogicAOI v1.1.0, the MSF_Yaskawa instruction will return FLT_BSY if another AOI is already active. This will prevent the application from disabling the axis should it be urgent to do so. In MSF_Yaskawa v1.2.0, the servo may be disabled immediately even if another AOI has control.
639	Add AOI support for CN-13 Analog I/O monitoring and control by the PLC	Prior to SigmaLogicAOI v1.2.0, monitoring and control of the Analog I/O on CN-13 was not supported. With v1.2.0, changes have been made to the User-Defined Datatypes: Yaskawa_IN_from_Servo, Yaskawa_Out_to_Servo and Yaskawa_EIP_Servo. Changes have also been made to MCFG_Yaskawa to map the new data to Tags 'AxisRef'.I.AnalogInput and 'AxisRef'.O.AnalogOutput. Units are in Volts. The Analog Input can be read to 4 decimal places precision. The Analog Output can be set to 3 decimal places precision.
643	There is no compatibility checking between AOI and SigmaLogic Software versions	The initial release of the SigmaLogic Add-On-Instruction set did not perform any version checking against the SigmaLogic embedded software. Going forward, as features are added, the memory map may change or the embedded code may change to provide the necessary functionality. Starting in SigmaLogic_AOI v1.2.0, an output has been added to the MCFG_Yaskawa block to indicate if there is a mismatch. Operation will continue, but the user should take note of this alerting-type output and investigate if the AOIs or the SigmaLogic software should be changed. For users of v1.1.0 AOIs and v1.2.0.6 embedded software, the impact is minimal. Support was added to read the Analog Input and set the Analog Output. All other functionality and Instance mapping remained the same.

8. Bug Fixes

None

9. Known Issues

None