Release Notes for SigmaLogic^{TM} Software Package

Release Date 12/05/2014

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LogicWorks Configuration Utility 1.1.1.2

1. New Features

Number	Summary	Release Notes
644	Update LogicWorks internal file for 'Return to Factory Settings'	LogicWorks has been updated to include the most recently released version of the SigmaLogic Embedded Software used for Configure-Update-Return to Factory Defaults. The new version is 1.2.0.6.

2. Bug Fixes

None

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.

SigmaLogic Embedded Software v1.2.0.6

4. New Features

Number	Summary	Release Notes
628	Add support for CN-13 Analog Input monitoring at the PLC	Initial release v1.1.0 does not support the Analog I/O on CN13. In v1.2.0, the Analog input at CN13-AI_01 [+/- xx.xxxx Volts] can be monitored by the PLC using Tag 'AxisRef.I.AnalogInput'. The user must also update the PLC program to use SigmaLogic_AOI release 1.2.0 or higher. Changes were made to the supporting Datatypes and to MCFG_Yaskawa AOI to support the analog I/O data transfer.
635	Add support for CN13 Analog Output control from the PLC	Initial release v1.1.0 does not support the Analog I/O on CN13. In v1.2.0, support has been added to allow the PLC to command the Analog Output at CN13-AO_01 [+/- xx.xxx Volts] using Tag "AxisRef.O.AnalogOutput". The user must also update the PLC program to use SigmaLogic_AOI release 1.2.0 or higher. Changes were made to the supporting Datatypes and to MCFG_Yaskawa AOI to support the analog I/O data transfer.

5. Bug Fixes

Number	Summary	Release Notes
597	Wait for Flag - Rising Edge not working properly	In the Before Move section of sequence execution, Wait for Flag - Rising Edge will pass if the Flag is ON when entering that step. The off-to-on transition is not being detected properly in v1.1.0. In v1.2.0, detection of both Rising Edge and Falling Edge has been fixed.
606	PLC sometimes misses the Move Done signal	Depending on the Ethernet/IP communication speed, moves made with the MAM_Yaskawa Add-On Instruction would sometimes appear to 'lock-up'. This symptom is that the move is performed correctly and reaches the target position, but the PC output indicating that the process is complete is never returned by the function block. This issue has been fixed in v1.1.1.1 (pre-release) by using a more secure signal handshake method for the move complete bit in the E/IP structure.
615	Sequence Table "Jog" does not advance to next step	In SigmaLogic embedded code version 1.1.0, the step number during a Blended Move is improperly incremented. This causes a variety of sequencing issues including improper setting of flags, branching and reporting of the current step. This has been repaired in version 1.2.0.
616	Sequence Table - After Blend Move, Set Flag does not work	In SigmaLogic embedded code version 1.1.0, the step number during a Blended Move is improperly incremented. This causes a variety of sequencing issues including improper setting of flags, branching and reporting of the current step. This has been repaired in version 1.2.0.
619	MSQR Current Step does not match LogicWorks Active Step	In SigmaLogic embedded code version 1.1.0, the step number during a Blended Move is improperly incremented. This causes a variety of sequencing issues including improper setting of flags, branching and reporting of the current step. This has been repaired in version 1.2.0.
620	Branching not successful in some cases	In SigmaLogic embedded code version 1.1.0, the step number during a Blended Move is improperly incremented. This causes a variety of sequencing issues including improper setting of flags, branching and reporting of the current step. This has been repaired in version 1.2.0.

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	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	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

disabled, then re-enabled	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.	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

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