



Nanotec Rockwell AOI's Changelog

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1 Release 1.6.0

1.1 Update

- NTEC_Comms was updated to fix the issue of reading a “zero” value from NTEC_Read AOI and then bypassing setting our ReadValue output tag due to a “NE” function (Not Equal to [0]). Rewriting the logic allows a zero value to successfully be read out of the NTEC_Read AOI which was previously causing conflicts with position limits and other tag values.
- Updates were made to NTEC_MAS (Motion Axis Quickstop), NTEC_MAS (Motion Axis Stop), NTEC_MSF (Motion Servo Off) as well as NTEC_Comms in order to be able to issue these “stopping” commands and interrupt a currently running Motion Axis command (ex. position, velocity or torque).

2 Release 1.5.0

2.1 Update

- CPS instructions were set to corrected length which was previously overwriting Position Limit values in our UDTs array. This was causing issues with subsequent MAM AOIs which referenced these limits. Length parameter was corrected and eliminated issue
- Update to COMM AOI in reference to Homing AOI which was not properly setting bit low upon homing a second time. Updated the referenced bit and fixed this issue so we can home more than once without power cycling

3 Release 1.4.1

3.1 Patch

- Update to Comms AOI which removes an XIC where it was constantly triggering VerifyLimits AOI on and off repeatedly

4 Release 1.4.0

4.1 Update

- Update to MAJ AOI to exit successfully in the event of a quickly triggered Enable signal. Added function to wait for enable to go off before exiting MAJ to solve this stuck condition. [AUG 2024]
- In the input checking logic, in the MAJ and MAM, change the velocity limit max and min to Motor speed max and min. The velocity limit max and min are changed to the velocity setpoint in a CMD 23 for Velocity Profile. So, can't really use as permanent limits. [AUG 2024]
- In the MAJ input limits check logic, remove the check that velocity is not equal to 0. Allow set to a velocity of 0. Keep this check in the MAM. [AUG 2024]
- In the MAJ, MAM, and LimitCheck AOIS, add a normally closed contact to verify the Write AOI is not enabled before going to that state. If the AOI was turned off before this state 110 had finished, the Write is still active and will not ever finish, because never scanned with false enable input in order to clean up memory bits. [AUG 2024]

5 Release 1.3.1

5.1 Patch

- LimitsReadDone bit is latched inside the Comms AOI. This is apparently not cleared on a program re-boot. Unlatch this bit in the prescan routine and enable input off routine. [JUL 2024]

6 Release 1.3.0

6.1 Update

- Update to address the error recovery in all modules and to address the error checking state in NTEC-read/write AOIs [MAY 2024]

7 Release 1.2.2

7.1 Patch

- Update to NTEC_Write AOI, which would keep this AOI from exiting in the event of wrong input parameters [APR 2024]

8 Release 1.2.1

8.1 Patch

- Patch to MAFR to allow from a fault recovery [MAR 2024]

9 Release 1.2.0

9.1 Update

- Observed issue where the drive was not in Error, but the AOI would show error and stay in this state continuously. Updated MAFR end condition (state 1000) as well as addressing simultaneous state calls in MAFR [FEB 2024]
- Update to end condition which fixed issues with the drive "at speed" feedback bit for the MAJ and MAS

10 Release 1.1.0

10.1 Update

- AOI reported as "unsupported format error", removed "source protection enabled" in order to load properly into Studio 5000 and able to view logic [JAN 2024]

11 Release 1.0.0

11.1 Release Date

- Original versions AOI released early Dec 2023