

Release Notes For AtlasII 1.00-3 Coder and 5418-7013 Rev A Footprint (Scheduled Maintenance Release)



DATE:

Feb 5th, 2021

BACKGROUND:

AtlasII GAP Programmer 1.00-3 is a scheduled maintenance release done to address various Bug fixes and enhancement requests to the Coder / Operating System through. This release is made from AtlasII 1.00-2 GAP coder.

A new footprint for AtlasII Control, 5418-7013 Rev A is also released as part of this maintenance release. This new footprint provides critical bugfixes and enhancements requests as well. Please see below for complete list.

There is no compatibility break between AtlasII 1.00-3 Coder and 5418-7013 Rev A footprint. Both are backwards compatible. However some of the new coder features involving new system logging functionalities require the new footprint as well

COMPATABILITY:

To use this version of GAP/Coder, you must use GAP Editor 3.09c or higher.

To use this version of GAP/Coder, you must use SOS 4.07 or higher.

To use this version of GAP/Coder, you must use AppManager 3.15 or higher.

To use this version of GAP/Coder, you must use Control Assistant 4.08b or higher.

To use this version of GAP/Coder, you must use Toolkit 4.7.2 or higher.

NEW FEATURES:

- Bug Fixes and Enhancements as requested through the knowledge base

ISSUES/FEATURES ADDRESSED IN ATLASII 1.00-3 CODER RELEASE

No.	Issue no. #	Description	Solution
1	Bug #96274	out of bounds string copy will cause memory corruption every time tunable is toggled.	made sure the string copy doesnt overflow.
2	Bug #89302	No EGD Producer Data Going out on Ethernet Port 4	Added code to Subscribe/Unsubscribe Port 4 For EGD properly
3	Feature #87495	Add application information to the VXM info file	Since vxm file is not the correct place for the application build info to go in. Coder now generates a .appinfo file which will be also copied to the control for records.
4	Feature #69102	Record incomming Servlink connection request info in PMLog.txt	Added the requested functionality

No.	Issue no. #	Description	Solution
5	Feature #69985	Add tunable logging in AtlasII	Added the requested functionality
6	Bug #64954	EGD Multicast only works on ENET Port 1	Added code so that all 4 userports can subscribe/unsubscribe multicast
7	Bug #64862	TSS_ATL Atlas Speed Input Low RPM Config Min Speed not 1/50	The clamping is intentional due to hardware restrictions. Added a note in block help under special instructions explaining the details
8	Bug #84687	empty DATA_n field on CAN_WRITE causes RG slip	copen send pdo now sends 0x0 instead of 0xff if data bytes is empty
9	Bug #90574	SAMP_ITUNE Sampling incorrectly	Changed code so that range check happens with explicit casting rather than implicit casting
10	Bug #76470	C Function File count limit	Increased limit of C function block instances to 1500
11	Bug #67932	{PID#18391}add footprint revision to log.txt	Added the requested functionality
12	Feature #69102	AtlasII Power sense card failure to initialize	Added IOWaittime, which is a small delay prior to IO accesses , giving IO modules enough time to copy the 32 bit data over to the DPRAM correctly.
13	Bug #90546	PC104_ATL calibration GAP block ADDR_x input ranges are not big enough for 5200 CPU	Fixed the range check to match 5200 cpu's
14	Bug #93971	CoderSim PWR_UNITS/PT_UNITS Calc Error	normalized the units used in simulation to match the real control
15	Bug #93982	{PID#18691}Coder/Compiler crash during coding (out of memory)	This is a host OS vs GNU compiler compatibility issue which we cannot do anything about. So added more info and potential worarounds to the error message if the users ever got a "CC1.exe out of memory" error
16	Bug #67789	generate a warning if RCV_BUF_SZ may be set to low on COPEN_NTW	Added code to calculate expected buffer size based on the input nodes defined on the network. Also this will generate a warning incase the expected is lower than the user input.
17	Bug #69067	EE file can be corrupted when doing back 2 back saves from servlink	Added a mutex around the eesave resource forcing only one thread to use it a time
18	Bug #67870	EGD Broadcast Address Help	Added detail instructions with examples on how to calculate the broadcast address.

No.	Issue no. #	Description	Solution
19	Bug #101782	AtlasII Power sense card failure to initialize	Added iosafetime which provides ample time for the IO card to present its data on to the DP ram.
20	Bug #103836	udp port number not passed correctly	fixed the data type casting issue. Now port numbers will always be passed in as unsigned short
21	Bug #103842	WGOS_DelayUs() doesnt work as intended	Fixed the definition of WGOS_DelayUs() to use hardware timer value.

ISSUES/FEATURES ADDRESSED IN 5418-7013 REV A FOOTPRINT RELEASE

No.	Issue no. #	Description	Solution
1	Bug #80158	VxWorks Urgent/11 Vulnerabilities	Bug fix for tcp urgent/11 pointer issues published by windriver in july 2019. Please see windriver security advisory for more details
2	Feature #69984	Add tunable logging in AtlasII 1.x	Added the footprint support required for this functionality
3	Feature #69064	Log new application loads and unloads in log.txt	Added the required functionality
4	Bug #76446	VxService:Healthmonitor task data access exception	reduced the stack consumption checks to rate group tasks only
5	Bug #69979	windriver patch for vxWorks 6.8.3	installed latest cumulative network patch for vxWorks 6.8.3 from windriver
6	Bug #69103	{PID#18215}PMLog Additions	Added the footprint support required for this functionality. Also added code to log details for incoming appmanager connections
7	Bug #67802	{PID#16893}logconfig caused EGD failure	Rearchitected system logging mechanism to routed to low priority threads to avoid system hogging
8	Feature #67330	TimeStamps in System log files for 5200 CPU	Added the required functionality
9	Bug #70005	VXWorks 6.9 CVE-2013-0711	Installed windriver patch for this issue
10	Bug #70002	VxWorks 6.9 CVE-2013-0713	Installed windriver patch for this issue

No.	Issue no. #	Description	Solution
11	Bug #69999	VxWorks 6.9 CVE-2013-0714	Installed windriver patch for this issue
12	Feature #69984	Status title for Cyber Security need to be modified in controlinfo	Instead of "cybersecurity", the verbage modified "Account Management" and "Encrypted Communication"
13	Feature #80153	Production request : Change the default IP's in the format projects	Added the footprint support required for this change
14	Feature #80148	Add Appmanager compatibility check in footprint	Added the footprint support required for this functionality. Default minimum appmanager version changed to 3.15
15	Feature #67209	Feature request : option to save wv log to a custom path @ 6.8 FP	Added the footprint support required for this functionality
16	Bug #94327	Prevent wrong servicepack from being installed on wrong footprint	compatibility will now restrict this servicepack to atlas HW partnumber 604-1234 only
17	Bug #73437	Flex and Atlas report that they support GetIOModules command	Fixed code to respond back to appmanager properly
18	Bug #67070	Appmanager Shows incorrect application status	Added exception handling in the intercomm task so that it never gets stuck
19	Feature #75633	AM beacon cyber vulnerability needs to be addressed	Added a new function to enable/disable autodiscovery feature.

UNSUPPORTED BLOCKS:

The following blocks may be available in the Template and GAP Editor, but are not supported for customer use in the AtlasII 1.00-0 release version of the Coder (compiler):

- [CAL_ID](#)
- [I_TO_NAN](#)
- [PC104_ATL](#)

PART NUMBERS:

Version 1.00-3
Gap/Coder Part Number: 9927-2371

AtlasII 1.00-2 Release Notes



DATE:

October 1st, 2016

BACKGROUND:

AtlasII GAP Programmer 1.00-2 is a maintenance release done for various Bug fixes the Coder / Operating System for Woodward controls

COMPATABILITY:

To use this version of GAP/Coder, you must use GAP Editor 3.09c or higher.

To use this version of GAP/Coder, you must use SOS 4.07 or higher.

To use this version of GAP/Coder, you must use AppManager 3.07a or higher.

To use this version of GAP/Coder, you must use Control Assistant 4.08b or higher.

To use this version of GAP/Coder, you must use Toolkit 4.7.2 or higher.

NEW FEATURES:

- PID OPTI Enhancements
- Bug Fixes

ISSUES RESOLVED:

Issue #	Description	Solution
15563	Loading new App causes control exception when using PNET_GEN, PNET_UNITL, PNET_DSCL.	Fixed code to gracefully kill and clear memory for "PNETEXEC" at App Shutdown.
18024	C_USER Block limit.	Removed the limit check on number of C Block instances
17916	ACT_FLEX-RB_SRC_FLT and RB_RET_FLT cannot be cleared	Fixed specific code to clear them properly
17770	ACT_FLEX fault output inconsistency.	Error tolerance increased from 5% to 10%
18102	Actuator SRC and RET faults.	Fixed by increasing tolerance level .
17903	COPEN_NTW CAN_RST consumed 200 bytes of memory.	Fixed so that connect is called once at startup and is disconnected once at app end
17850	Datalog_m in continous mode consumes Ram memory.	Fixed code to clear "/Ramlog" at App Init.
Help Fixes: 18190		

UNSUPPORTED BLOCKS:

The following blocks may be available in the Template and GAP Editor, but are not supported for customer use in the AtlasII 1.00-0 release version of the Coder (compiler):

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- [PC104_ATL](#)

PART NUMBERS:

Version 1.00-2

Gap/Coder Part Number: 9927-2371

AtlasII 1.00-1 Release Notes



DATE:

2nd November 2015

BACKGROUND:

AtlasII GAP Programmer 1.00-1 is a maintenance release of the Coder / Operating System for Woodward controls

COMPATABILITY:

This version is **NOT compatible with Atlas II controls that were using previous Coder versions (4.0x, 5.0x)**. If it is desired to upgrade an AtlasII to have the ability to operate with Coder 1.00, the CPU must be returned to Woodward to be re-programmed. This conversion is **NOT** available through a service pack.

To use this version of GAP/Coder, you must use GAP Editor 3.09c or higher.

To use this version of GAP/Coder, you must use SOS 4.07 or higher.

To use this version of GAP/Coder, you must use AppManager 3.07a or higher.

To use this version of GAP/Coder, you must use Control Assistant 4.08b or higher.

To use this version of GAP/Coder, you must use Toolkit 4.7.2 or higher.

NEW FEATURES:

- PID OPTI Enhancements

UNSUPPORTED BLOCKS:

The following blocks may be available in the Template and GAP Editor, but are not supported for customer use in the AtlasII 1.00-0 release version of the Coder (compiler):

- [CAL_ID](#)
- [I TO NAN](#)
- [PC104_ATL](#)

PART NUMBERS:

Version 1.00-0
Gap/Coder Part Number: 9927-2371

AtlasII 1.00-0 Release Notes



DATE:

March 26, 2015

BACKGROUND:

AtlasII GAP Programmer 1.00-0 is a new release of the Coder / Operating System for Woodward controls

COMPATABILITY:

To use this version of GAP/Coder, you must use GAP Editor 3.09c or higher.

To use this version of GAP/Coder, you must use SOS 4.07 or higher.

To use this version of GAP/Coder, you must use AppManager 3.07a or higher.

To use this version of GAP/Coder, you must use Control Assistant 4.08b or higher.

To use this version of GAP/Coder, you must use Toolkit 4.7.2 or higher.

NEW FEATURES:

- This version of the Coder / Template is dedicated to the AtlasII platform only. The Product Release Strategy has evolved so that other platforms such as MicroNet, 2301, and LECM each have their own dedicated Coder and Template versions. Common GAP blocks that all platforms use are included in this Coder / Template version. However, platform specific blocks from other platforms are not included.

UNSUPPORTED BLOCKS:

The following blocks may be available in the Template and GAP Editor, but are not supported for customer use in the AtlasII 1.00-0 release version of the Coder (compiler):

- [CAL_ID](#)
- [I_TO_NAN](#)
- [PC104_ATL](#)

PART NUMBERS:

Version 1.00-0

Gap/Coder Part Number: 9927-2371