

Application Note 51226 (Revision A) Original Instructions

Woodward VxWorks[®] Real Time Operating System (RTOS) AtlasPC[™] ServLink/OPC Conversion

FROM: 8273-2xx TO: 8273-4xx



Read this entire manual and all other publications pertaining to the work to be performed before installing, operating, or servicing this equipment.

Practice all plant and safety instructions and precautions.

Failure to follow instructions can cause personal injury and/or property damage.



Revisions

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www.woodward.com/publications

The latest version of most publications is available on the *publications page*. If your publication is not there, please contact your customer service representative to get the latest copy.



Any unauthorized modifications to or use of this equipment outside its specified mechanical, electrical, or other operating limits may cause personal injury and/or property damage, including damage to the equipment. Any such unauthorized modifications: (i) constitute "misuse" and/or "negligence" within the meaning of the product warranty thereby excluding warranty coverage for any resulting damage, and (ii) invalidate product certifications or listings.



Woodward reserves the right to update any portion of this publication at any time. Information provided by Woodward is believed to be correct and reliable. However, no responsibility is assumed by Woodward unless otherwise expressly undertaken.

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Warnings and Notices

Important Definitions



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

- **DANGER**—Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING**—Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION**—Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE**—Indicates a hazard that could result in property damage only (including damage to the control).
- IMPORTANT—Designates an operating tip or maintenance suggestion.

	The engine, turbine, or other type of prime mover should be equipped with an overspeed shutdown device to protect against
Overspeed /	loss of life, or property damage.
Overtemperature / Overpressure	The overspeed shutdown device must be totally independent of the prime mover control system. An overtemperature or overpressure shutdown device may also be needed for safety, as appropriate.
	The products described in this publication may present risks that could lead to personal injury, loss of life, or property damage. Always wear the appropriate personal protective equipment (PPE) for the job at band. Equipment that should be considered includes but is not
Personal Protective	at hand. Equipment that should be considered includes but is not

Personal Protective Equipment

- Eye Protection
- Hearing Protection
- Hard Hat
- Gloves

limited to:

- Safety Boots
- Respirator

Always read the proper Material Safety Data Sheet (MSDS) for any working fluid(s) and comply with recommended safety equipment.

WARNING Start-up

Be prepared to make an emergency shutdown when starting the engine, turbine, or other type of prime mover, to protect against runaway or overspeed with possible personal injury, loss of life, or property damage.



Applications

On- and off-highway Mobile Applications: Unless Woodward's control functions as the supervisory control, customer should install a system totally independent of the prime mover control system that monitors for supervisory control of engine (and takes appropriate action if supervisory control is lost) to protect against loss of engine control with possible personal injury, loss of life, or property damage.

NOTICE

To prevent damage to a control system that uses an alternator or battery-charging device, make sure the charging device is turned off before disconnecting the battery from the system.

Battery Charging Device

Electrostatic Discharge Awareness

NOTICE	Electronic controls contain static-sensitive parts. Observe the following precautions to prevent damage to these parts:
Electrostatic Precautions	 Discharge body static before handling the control (with power to the control turned off, contact a grounded surface and maintain contact while handling the control). Avoid all plastic, vinyl, and Styrofoam (except antistatic versions) around printed circuit boards. Do not touch the components or conductors on a printed circuit board with your hands or with conductive devices. To prevent damage to electronic components caused by improper handling, read and observe the precautions in Woodward manual 82715, Guide for Handling and Protection of Electronic Controls, Printed Circuit Boards, and Modules.

Follow these precautions when working with or near the control.

- 1. Avoid the build-up of static electricity on your body by not wearing clothing made of synthetic materials. Wear cotton or cotton-blend materials as much as possible because these do not store static electric charges as much as synthetics.
- 2. Do not remove the printed circuit board (PCB) from the control cabinet unless absolutely necessary. If you must remove the PCB from the control cabinet, follow these precautions:
 - Do not touch any part of the PCB except the edges.
 - Do not touch the electrical conductors, the connectors, or the components with conductive devices or with your hands.
 - When replacing a PCB, keep the new PCB in the plastic antistatic protective bag it comes in until you are ready to install it. Immediately after removing the old PCB from the control cabinet, place it in the antistatic protective bag.

VxWorks[®] RTOS AtlasPC[™] ServLink/OPC Conversion

AtlasPC[™] CPU Application Software Upgrade Instructions

This document explains the steps required to implement the change suggested in the AtlasPC[™] VxWorks®—ServLink Communications Robustness service bulletin 01308.



- 1. Install Microsoft's ".NET Framework" on each service PC*. The .NET Framework is required by some of Woodward's service tools.
 - If the service PC does not already have the .NET Framework, run the install program "setup_ms_net.exe" from the field upgrade CD



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- On each service PC, run the install program "Setup.exe" from the field upgrade CD (1796-1055New). This will install the following Woodward programs on the service PC:
 - VxWorks AtlasPC Field Conversion (8928-1076New)

 - GAP216.....(9927-790D)
 - Watch Window II 2.5 (9927-427G)
 - AppManager 2.4.....(9927-785D)

 - SOS ServLink OPC Server 1.0 (9927-1223New)

Installation Notes:

The following prompt will be displayed while running the GAP216 installation program.

Gap Pro	grammer version 3.06-1 Setup 🛛 🛛 🕅
?	The file 'gap.mnu' already exists. Would you like to replace it?
	(<u>Y</u> es <u>N</u> o

Answering YES will cause the existing .mnu file to be overwritten. This will cause the GAP program to revert to the default RUN menu. If the user has configured the RUN menu then select NO.

Registeri	ng File Type 🛛 🔀
?	The file type '.gap' has already been registered with Windows. Do you want to replace those settings?
	<u>Yes</u> <u>N</u> o

Answering YES will associate the .GAP file extension with GAP 2.16 (double clicking a .gap file will cause GAP2.16 to be used to open the file) To keep .GAP associated with a previous version of GAP select No.

When prompted to restart the computer, Select YES to reboot.

Possible Errors:



If Microsoft .NET is not installed the above error message will be displayed. Cancel the installation at this point, Install Microsoft .NET (run the install program "setup_ms_net.exe" from the field upgrade CD) and then restart the installation process.

- 3. Coding the existing application for the 3.06-1 coder:
 - a. If Woodward has not provided a new application file, re-code the existing application.
 - 1. To re-code the existing application, refer to section, "Converting Existing Application to Coder 3.06-1".
 - 2. When the existing application has been converted continue with 3b.
 - b. Using GAP216, load your GAP application. GAP216 will be located under Start/Programs/Woodward/GAP or a shortcut to GAP216 can be created by following the steps outlined in the section titled, "Creating a shortcut to GAP2.16".
 - c. Run the completeness check (File/Completeness Check). This will produce a file with the ".cdr" extension.
 - d. From the "Run" menu, select "Code for Control" to execute coder306 on the current ".cdr" file. This will produce a file with the ".out" extension. If this step does not sucessfully run the Coder to compile the application into a ".out" file, create a shortcut to Coder3.06 by following the steps outlined in the section titled "Creating a shortcut to Coder 3.06".
- 4. Update the footprint on the control:
 - a. Run the program AppManager 2.4. It will be located under Start/Programs/Woodward/AppManager.
 - b. Using AppManager, ensure that the application running on the control is stopped (if necessary, select the application and then select "Control/Stop Application").
 - c. Select the menu option "Control/Install Service Pack" and select the file named "ServicePack5418-2073New.exe" from the field upgrade CD. This will cause the control to reboot.

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- 5. Transfer the new application to the control and start it:
 - a. After the control has rebooted, use AppManager to transfer the ".out" file created in step 3c to the control. You may use the "Control/Transfer Application Files" menu command of AppManager to do this.
 - b. Select the new ".out" file in the application names window of AppManager and issue the "Control/Start Application" command.
- 6. Verify the following items. If any of the version numbers are incorrect, verify that the newly installed program is being used. All of the programs are available for download at www.woodward.com:
 - a. If you have already installed licenses for Monitor GAP or Watch Window II and have installed these applications to the same directories, the licenses will still be valid. Verify that these products have the correct level of licensing.
 - b. The version in the About window of the GAP program is 2.16.
 - c. The version in the About window of the AppManager program is 2.4.1.1.
 - d. The version in the About window of the Watch Window II program is 2.5.0.13.
 - e. There is an entry called "SOS ServLink OPC Server in your Program Files path ("Start/Programs/Woodward/SOS ServLink OPC Server").
 - f. Using AppManager, select the control and then select "Control/Control Information" and verify that the Footprint part number is "5418-2073" and the Footprint revision and AMService versions are "New".
- 7. To use OPC-based tools (including Monitor GAP and Watch Window II) to communicate with the control, it will be necessary to configure the SOS ServLink OPC Server. Please consult the topic "Running the SOS ServLink OPC Server" below.
- 8. For each control that is being upgraded, write the old and new part numbers of the control on one of the enclosed labels and stick it on an open surface of the control chassis.
- 9. Complete the "Atlas PC CPU Application/Software Upgrade Verification" form at the end of this manual and return to Woodward.

Running the SOS ServLink OPC Server

When a service tool like Monitor GAP or Watch Window II attempts to make an OPC connection, it presents the dialog below:

OPC Connnection	×
OPC server type Servlink <u>O</u> PC serve	ſ
C Servlink <u>D</u> DE serve	er 👘
C Embedded OPC ser	rver (on the control)
Connection type <u>L</u> ocal Server <u>R</u> emote Server	Name or IP address of server node : 190.14.99.76
Conne	ct Cancel

Selecting the options "ServLink OPC server" and "Local Server", as above, will cause the OPC ServLink server to run. If it was already running from a previous use, it will use that instance.

If this is the first time the ServLink OPC Server has run on the client machine, the following interface will be presented:

Servlink OPC server	Connect Servlink to control			Х
File Session Options F	TCP (Ethernet)	•	Connect TCP	
Running	Serial	T	Connect Serial	

To connect to the control using TCP (Ethernet), it is necessary to type in or select the IP Address of the target control(s). To connect Serial, select the appropriate available port descriptor (for example, "COM1").

After the control has connected, the ServLink OPC server window can be closed or minimized. It will go to the system tray (at the lower-right of PC monitor) where it looks like this:



The next time the SOS ServLink OPC server runs, it will attempt to resume connections to the same controls as in the previous session.

To modify the connections or operating parameters of the SOS ServLink OPC Server, double-click on the icon in the system tray at any time. To add or remove connections, select from the Session menu:

🏆 S	ervlink OPC server			
File	Session Options He	elp		
Port	New Session	d	ApplicationId	Status
190.1	Delete Session	84	testapp2-1Fri Mar 19 13:50:58 2004	Connected
	Connect			
	Disconnect			
Runn	Set Controlld			

The "New Session" command will result in a dialog (as above) that allows you to select a new TCP or Serial connection.

The sessions that are running on the SOS ServLink OPC Server determine which controls' values that OPC clients (like Watch Window II and Monitor GAP) will have access to.

How to Use the SOS ServLink OPC Server with non-Woodward OPC Client Tools

Due to the variations in the configuration of third party OPC client drivers, it is not possible to document all the specific steps to connecting to the SOS ServLink OPC Server. The following information is intended to be a generalized guide to configuring the HMI driver.

The HMI OPC client driver must be configured to connect to LOCAL HOST. The OPC server must be running on the local HMI computer.

The client tool should have an interface for selecting an installed OPC server. The name of the Woodward ServLink OPC Server is:

"Woodward.ServLink.OpcDa.1"

The HMI tool can launch Woodward's ServLink OPC Server, or it can be launched manually by running the file "SOS.exe" from the install directory ("C:\Program Files\Woodward\SOS ServLink OPC Server"). Connections can be managed as in the above example ("Running the SOS ServLink OPC Server").

The client tool should also have an interface for selecting values. The ServLink OPC values in GAP adhere to the following naming pattern:

"<Control ID>.<GAP tag name>"

For example:

"VXA11184.EMDRP_RMP.IN_RAMP.RAMP"

If you previously had a Woodward control with an embedded OPC server connected to an OPC-based HMI, you will have to update the OPC server name and tags to match these conventions.

Recommended HMI Networking





More information is available in the SOS ServLink OPC Server help documentation ("Start/Programs/Woodward/SOS ServLink OPC Server/ServLink OPC Server Help").

Appendix. Converting Existing Application to Coder Version 3.06-1

Create Export File of All Sheets in Existing Application File

1. Open Existing GAP file with GAP2.16. Because the GAP application was created with a previous version of GAP, the following error box will appear.

Warning	<u>×</u>
⚠	This application was created with an earlier version of the GAP program. If you save this application with this version of the GAP program, you will not be allowed to use older versions of the GAP program with it.

Check OK. Once the application has been saved in GAP 2.16, the application will not open with previous versions of GAP.

2. **Print Sheet #1 of the GAP application.** This step is recommended as the Revision Data and coversheet data is not retained when the application is exported.



3. Export all the Sheets in the Application Go to File > Export Multiple Sheets

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Open		,			3			2				1		-
Save		Shift+S									REVISIONS			_
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complete	I ICSS CI ICUN	SHILTS	\vdash	44 NEW	LIMITER (Energy Limit Setpoint)		NEW	SM_LOOIC (Brake,Breaker,Start,Stop,ESC SR4 TUDD1 (Seculated Onto Rockics)	<u> </u>					
Create Ex	ternal Application Link			46 NEW	G MV DRVR (Gate Valve Driver)	85	NEW	SM TURB2 (Simulate Turbine MM/Speed)						
Create AS	iCII File	•		47 NEW	GATE MAINT (Gate Maintenance Tools)	87	NEW	SIM_BLADE (Simulated Blade Position)						
Database		•		48 NEW	CAM_DATA (CAM Curve Data - Head)	88	NEW	SITE LODIC 1 (Redundancy logic)						
Export M	ultiple Sheets			49 NEW	C/M DATA (C/M Curve Data - Curve)	89	NEW	SITE LOGIC 2 (H/T Redundancy logic)						H
Import M	Itinle Sheets		<u> </u>	50 NEW	BLADELOGIC (Blade Reference Logic)	90	NEW	SITE LOGIC 2 (Pressure Seltches)						
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Reset Bloc	ck Identifiers			54 NEW	PID TOOLS (PID Tuning & Max Sheed Tool)	0.4	NEW	SITE LODIC 6 (Tart Mida Salact)	_					
Decise B.				65 NEW	CREEP DS (Creep & Deadstop Detection)	95	NEW	SITE LODIC 7 (Oate Look)						
ennt				56 NEW	BRAKE_CTRL (Brake Control)	96	NEW	SITE LODIC 8 (Gate & Bade Oil Shutoff)						
Print Cros	s-Reference List			67 NEW	BRAKE (Brake Control)	97	NEW	SITE LOGIC 9 (Mains Logio)						Ľ
Publish				58 NEW	POS_SW (Position Suitches)	98	NEW	SITE LOGIC 10 (MW Ramp Rate)						
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	30 NEW ACCEL CTRUSTION	o Acceleration C	Control	70 NEW	MODBUS AR (Analog Read 30001-30040)		-		_		5,000			
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- 1 [32 NEW OFLINE_PID (Offline	e Speed PID)		72 NEW	MODBUS_AR (Analog Read 30081-30100)						A-04,015			1
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- I F	34 NEW POS PID (Gate Post	tion PID)		74 NEW	MON ALRM (Custom Alarm Logis)	+	-		_		17-00,00%			
- I F	35 NEW HEAD (Head Calcula	tion & Manual Co	ntrol)	75 NEW	ALARMS (Alams 001-020)		-				- ext. 10.0			
- I F	30 NEW MW_FB_CRV(MW/F	reedback Curve I	Osta-Head)	76 NEW	ALAMMS (Alams 021-040)	+ +	-+		_		The following settings appear	distance managery.		
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- 1	39 NEW MW SP CRV/MW S	Setpoint Curve Do	#a-Curve)	79 NEW	ALARMS (Alarms 081-100)		-		_		Canada San San	CK		h
	40 NEW MW CRV SELMW	To Gate Pos Cur	ve Select)	80 NEW	MON TRIPS (Custom Trip Logic)						Ornin a chairte	fahan malana SV ay	Nider .	
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4. Select Export All. This will bring up a file save dialog box.

Select Sheets for Export		×
I - SYS_INFO cover sheet		Export <u>S</u> elected
2 - HARDWARE (Hardware Layout & Sim Enable)		
3 - CPU_ETH(CPU Com, Ethernet, Clock)		Export All
4-SHEEL4		
5 - SMARTCORE (Speed Inputs)		• • I
6 - SMARTCORE (Analog Inputs)		<u>C</u> ancel
7 - SMARTCORE (Analog Outputs)		
8 - SMARTCORE (Actuator Outputs)		
9 - SMARTCORE (Discrete Inputs 1-12)		
10 - SMARTCORE (Discrete Inputs 13-24)		
11 - SMARTCORE (SIO Ports 1, 2 and 3)		
12 - POWERSPPLY(Discrete Outputs)		
13 - POWERSENSE (Gen PT/CT Inputs)	-	
, , , , , , , , , , , , , , , , , , , ,		

5. Enter the file name and location of where the .mod file is to be saved.



6. When the export file is completed, the following dialog box will appear. Click OK to complete the export.

Export S	Sheets
•	Multiple sheet export complete. File is "C:\DemoGap\DemoGAP.mod".
	OK

Importing the .MOD file into Coder Template 3.06-1

1. Open a new instance of the GAP2.16 program. The following dialog box will be displayed. Select NEW.



2. Select the Template Version 3.06, then click OK.

Sele	ect Template Version	×
	ABLS 4.00 (Rev. 2.01, Built 01/20/99 16:26:33)	
	MicroNet® 3.00 (Rev. 2.01, Built 04/26/99 08:29:38)	
	MicroNet® 3.01 (Rev. 2.01, Built 02/17/00 15:42:32)	
	MicroNet® 3.02 (Rev. 2.01, Built 02/20/01 10:57:00)	
	MicroNet® 3.03 (Rev. 3.00, Built 08/01/01 13:35:50)	
	MicroNet® 3.04 (Rev. 3.00, Built 04/24/02 14:02:52)	
	MicroNet® 3.05 (Rev. 3.00, Built 10/04/02 07:40:28)	
	MicroNet® 3.06 (Rev. 3.00, Built 10/15/03 06:56:52)	
	NetCon® 2.06 (Rev. 2.01, Built 01/20/99 16:03:06)	
	NetCon® 2.08 (Rev. 2.01, Built 01/20/99 16:05:24)	
	OK Cancel	

3. A new application will be created. Go to File > Import Multiple Sheets.

🚾 GAP	- (untitled), Sheet 1														ļ,	. 8 ×
File Edi	it Select Add Hardware	View Secur	ity Tools	5 Option	is Run Help											
New		•	1					÷		2		1				
Open		*				>				2			REVISIONS			1
Save		Shift+S		STATUS			ST	ATUS			REV	DESC	RIPTION	DATE	APPROVED	1
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Create	e External Application Link						-									
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Expor	rt Multiple Sheets															
Impor	rt Multiple Sheets						_									
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Before importing the .mod file, the user will be prompted to save the .GAP application. Enter the desired file name and location then click on OK.

Save As						? ×
Save <u>i</u> n:	🔁 DemoGap		•	+ 🗈 💣		
History Desktop My Documents My Computer	DemoGAP.DIR DemoGAP.gap					
	File <u>n</u> ame:	NewDemoGAP.gap			•	<u>S</u> ave
	Save as type:	GAP Apps (*.GAP)			•	Cancel

4. Once the file is saved, the next dialog box will prompt the user to open the desired .MOD file. Select the file created during step 4 of "Create Export File of all sheets in existing application file".

Open				<u>?</u> ×
Look <u>i</u> n:	🔁 DemoGap			
History Desktop My Documents My Computer	DemoGAP.DIR NewDemoGAP.DI	R		
	File <u>n</u> ame:	DemoGAP.mod	•	• <u>O</u> pen
	Files of <u>type</u> :	Module File		Cancel

Clicking on OPEN will start the import process. Occasionally during the process, an error dialog box will be displayed.



This error is not critical and does not indicate that the import has failed. Simply click on OK to complete the import process. When the import is completed the following dialog box will be displayed:

GAP - C:\DemoGap\NewDemoGAP.gap, Sheet 1		_ 8 ×
File Edit Select Add Hardware View Security Tools Options Run Help		
		1
Calibration Enabled X D.SF_SEL_1 (Sh2-2C) The module in file "C:\DemoGAP.mod" has been imported. 105 sheets were added.	This box indicates that the import was successful.	
Import Warnings		
This box identifies the		
differences between the		
two templates.		
a l		-
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5. Complete the Import by filling in the Title Block and Revision Information. To enter the title data, reference the Cover Sheet that was printed in a previous step. Then position the mouse in the TITLE area of the lower right hand corner and double click. This will bring up the title block information dialog box.

	4			3		ŧ	2				1	
										REVISIONS		
STATU	8	st	ATLIS		ST	ATUS		REV	DESCRIPTIO	ON	DATE	APPROVED
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on ne	0.00	41	FILE V	LAN DET AAN Services	- 0m	TUE V	TRIPS Advanced Trips 001 000	- T	TIME OF LAST GAP APPLK	ATION SAVE : Th	u May 13 13:3	9:44 2004
2	HAROWARE (Hardware Laware & Sim Enable)	42		Mill PiD (Load PiD w/Dman)	42		EVENT LOGS (Alarm and Trip Eventiatehor)					
3	CPU ETH/CPU Con, Bhernet, Clock)	40		LIMTLODIC (Limiter Logic)	82		DATALOGOER (Analog/Boolean Data Logging	0				
4	SHEET 4	-44		LIMITER (Energy Limit Setpoint)	84		SIM_LOGIC (Brake,Breaker,Start,Stop,ESD)					
5	SMARTCORE (Speed Inputs)	45		MANUAL (Manual Setpoint Control)	85		SIM_TURB1 (Simulated Gate Position)					
6	SMARTCORE (Analog Inputs)	-46		G VLV DRVR (Gate Valve Driver)	- 85		SIM TURI2 (Simulate Turbine MM/Speed)					
7	SMARTCORE (Analog Outputs)	47		GATE_MAINT (Gate Maintenance Tools)	87		SIM_BLADE (Simulated Blade Position)	_				
8	SMARTCORE (Actuator Outputs)	48		CAM_DATA (CAM Curve Data - Head)	- 88		SITE LODIC 1 (Redundancy logic)	_				
0	SMARTCORE (Discrete Inputs 1-12)	-40		CAM DATA (CAM Curve Data - Curve)	89	-	SITE LODIC 2 (H/T Redundancy logis)	-				
10	SMARTCORE (Discrite Inputs 13-24)	50		BLADELOGIC (Bade Peterence Logic)	90		SITE LODIC 2 (Pressure Subches)	_				
10	SMARTCORE (SID Ports 1, 2 and 3)	61		BLADE REF (Bade Reference)	91	-	SITE LODIC 3 (Sump Level Settones)	-				
12	POWERSPICT(Geo PT/CT Invets)	63		BLD MAINT (Blade Mintegance Tools)	03		SITE LODIC & (Base Subcries)	-				
14	POWERSENSE (But PT/CT Insutt)	64		PID TOOLS (PID Tuning & Max Streed Tool)	04		SITE LOGIC 6 (Tart Mode Select)	-				
15	POWERSENSE (Synchronize)	65		CREEP DS (Creep & Deadstop Detection)	95		SITE LODIC 7 (Gate Look)					
18	Al0_C0MB0 (Speed inputs)	58		BRAKE_CTRL (Brake Control)	96		SITE LODIC 8 (Gate & Bade Oil Shutoff)					
17	AVD COMED (Analog Inputs 1-6)	67		BRAKE (Brake Control)	97		SITE LODIC 9 (Maine Logio)					
10	AIO_COMBO (Analog Inputs 7-11)	50		POS_SW (Position Switches)	98		SITE LOGIC 10 (MM Ramp Rate)					
19	AIO_COMBO (RTD Inputs 12-15)	59		SPEED_SW(Speed Seitches)	99		SITE LOGIC 11 (Manual Nethead enable)	_				
20	All COMED (Availing Outputs)	60		MODEUS COM (Modbur Communication)	100		VERSAMAK (COMMUNICATIONS)	_				
21	AIO_COMBO (Atlas Temperature Sensor)	61		MODBUS_BW (Boolean Write 00001-00040)	101		MI_1_DO (VERS/MAX NODE 1 MOD 1, 1-8	2				
22	RBM_LOC (Remote/Local Select)	62		MODBUS_BW (Boolean Write 00041-00080)	102		MI_1_DO (VERSAMAX NODE 1 MOD 1, 9-1	(6)		_		
22	AUTO M/N (Auto/Man Select)	63		MODBUS BR (Boolean Read 10001-10040)	103	-	MMI 2 DD (VERS/MAX NODE 1 MOD 2, 1-	8	10.00 S 10.00 S	1-1.980		
24	STAT STOP (daristop topc)	0.4		MODDUS_DR (boless Feed 10041-10000)	104		AME 2 DO CALLSHAME NODE 1 MOD 2, 9-1	2	P.A.	0 AUG 23,84	NES ALARA BELINTS	0.41
20	(INLINE SEL (Online Mode Select Lonic)	60		MODBUS BR (Boolean Read 10121,10160)	- 00		386EL 00	-		-1,000 mil		
27	SYNC CNDS (Synchronous Condenser Logic)	07		MODBUS BR (Boolean Read 10101-10200)					14 AL	M. JAU		
28	SPD_0VRD (Speed Channel Override Logic)	68		MODBUS BR (Boolean Read 10201-10240)						in an		
29	SPD SELECT (Speed Channel Select Logic)	69		MODBUS BR (Boolean Read 10241-10280)						-100,000		
30	ACCEL_CTRL(Startup Acceleration Control)	70		MODBUS_AR (Analog Read 30001-30040)						E PERMIT		
31	OFFLN REF (Offline Speed Setpoint)	71		MODBUS_AR (/malog_Read 30041-30080)								
22	OFLINE_PID (Offline Speed PID)	72		MODBUS_AR (Analog Read 30001-30100)	-			_		a segure		
33	POS_REF (Oate Position Reference)	73		MODBUS_AW (Analog Wite 40001-40010)	+			_				
34	POS PID (Gate Position PID)	74		MON ALRM (Custom Aam Logic)	+			_		17-93.00 X		
20	HEAD (Head Calculation & Manual Control)	75		ALARMS (Alarms 001-020)	+	-		-		1.1.14		
	Mill FB CRV(Mill Feedback Curve Data Read)	- 10		ALAPART (Marris 021-040)	+	-		-		The falle-reg settings agritud	defections may apply.	
20	May SP CRUMM Service Convertiges (1976)	20		ALADAS (Alams 01:000)	+			-		A Design COM Cuts	and the state of the state of the	
39	MW SP CRV/MW Setpoint Curve Data-Curve)	79		ALAPMS (Alarms 081-100)	-			_		ő (*** **********	K	
40	MW CRV SEL(MW To Gate Pos Curve Select)	80		MON TRIPS (Custom Trip Logic)						A Desta Lota Mart		ephistor.

DemoGAP - Template 3.05 (Rev. 3.00 Built 10/04/02 07:40:28) X Company: WOODWARD Item Number: 5414-7778 Ŧ INDUSTRIAL CONTROLS DIVISION **Division:** Ŧ Project No.: 31361 Location: FORT COLLINS, COLORADO, U.S.A. Ŧ Code Ident.: ANY TURBINE - DEMO JVOLK Eng. Appr.: Title: **GOVERNOR - ATLAS** Eng. Date: 15JAN04 ANY SITE UNIT #6 JVOLK Drawn Appr.: CODER 3.06-1, GAP 2.16 15JAN04 Drawn Date: Default Coder File Name: <u>0</u>K Cancel <u>H</u>elp

The exact information that is entered into the title block will depend on the engineering change / review process that is in place for controlling the controller application software. Entering a default Coder File name is optional: this will automatically populate the coder file name when the completeness check function is run.

Application Note 51226

VxWorks RTOS AtlasPC ServLink/OPC Conversion

Use the last line of the Title block to enter the Coder version and GAP version that were used to create the application. This provides an easy way to identify which GAP / Coder versions were used to create the application file.

If it was desired to retain the revision information of the application file, go to FILE > Publish.

GAP	- C:\Demo	Gap∖NewDem	oGAP.gap, S	Sheet 1											- 8 ×
File Edi	it Select	Add Hardware	View Secu	rity To	ols Optio	ns Run Help									
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				(B-304)	41	LIMTI ODIC (Limiter Look)	82	+	DATALOGOER (Antonibusian Data Logic	20					· ·
Comp	leteness Che	eck	Shift+C		44	LIMITER (Energy Limit Setpoint)	84		SIM LOGIC (Brake, Breaker, Start, Stop, ESD)						
Create	e External Ap	oplication Link			46	MANUAL (Manual Setpoint Control)	85		SIM_TURB1 (Simulated Gate Position)						
Create	e ASCII Ele				45	G VLV DRVR (Gate Valve Driver)	85	\vdash	SIM TURB2 (Simulate Turbine MM//Speed)	_					
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Datab	ABC				40	CAM DATA (CAM Curve Data - Piezo)	89	\vdash	SITE LODIC 2 (H/T Redundancy logic)	-					
Expor	rt multiple Sh	ieets			50	BLADELOGIC (Blade Reference Logic)	90		SITE LOGIC 2 (Pressure Seltches)						
Impor	rt Multiple Sh	ieets			61	BL/IDE REF (Blade Reference)	<u>\$1</u>		SITE LOGIC 3 (Sump Level Switches)						
Impor	rt Watch Wi	ndow Tunables			52	8 VLV DRVR (Blade Valve Driver)	92	\vdash	SITE LODIC 4 (Bade Seltcher)	_					
Reset	Block Identi	fiers		\vdash	63	BLD_MAINT (Blade Maintenance Tools)	93	\vdash	SITE LODIC 6 (Mode Select)	_					
					54	CREEP DS (Creep & Deadstop Detection)			SITE LODIC 7 (Bate Lock)	_					
Print.					56	BRAKE_CTRL (Brake Control)	96		SITE LODIC 8 (Oate & Blade Oil Shutoff)						
Print C	Cross-Refere	nce List			67	BRAKE (Brake Control)	97		SITE LOGIC 9 (Maint Logic)						۲ I
Publis	h			L	50	POS_SW (Position Switches)	98	$ \rightarrow $	SITE LOGIC 10 (Mill Ramp Rate)	_					
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I	3	HEAD (Head Calco	station & Manual Co	etrol)	76	ALAPANS (Alartis 001-020)	-			-		171-00,00-C			
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	38	MW_SP_CRV(MM	/ Setpoint Curve Du	ata-Head)	78	ALARMS (Alarms 061-080)	+	\vdash		_		O Denie COV CU	II. made adjusted parameter		F 1
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If the completeness check has not been run, the following dialog box will appear.

Publish	×
?	This application has not been marked as having passed the completeness check. Run completeness check?
	<u>Y</u> es <u>N</u> o Cancel

Select Yes to run the completeness check. A dialog box should appear that indicates that the completeness check was successful. If the completeness check was not successful, the cause must be identified before continuing.



Select File > Publish and enter the desired revision data. If it is desired to retain the old revision information, enter each line from the original application revision box.



The REV status of the pages is not exported when the .MOD file is created. All sheets will stay at revision status NEW.

Creating Shortcut for GAP2.16

- 1. Go to the c:\Gap_Cdr directory and search for the GAP216.exe file.
- 2. Right click on the file name and select Create Shortcut. The shortcut will be created in the c:\Gap_cdr directory. Move this shortcut to the desired location. In this example the shortcut was moved to the desktop.

🔄 Gap_cdr		- 0 ×	
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3. Select the shortcut, right click and then select Properties.



If it is desired to have the shortcut open a specific GAP application, enter the file name at the end of the TARGET command line.

In the Start In line, enter the directory location where the DemoGAP.gap file is located.

Shortcut to Gap2:	L6.exe Properties	<u>?</u> ×							
General Shortcut Security									
Sh	ortcut to Gap216.exe								
Target type:	Application								
Target location:	Target location: Gap_cdr								
<u>T</u> arget:	C\Gap_cdr\Gap216.exe DemoGap.gap								
Run in separa	te <u>m</u> emory space 🔲 Run as different <u>u</u> ser								
<u>S</u> tart in:	C\DemoGap								
Shortcut <u>k</u> ey:	None								
<u>R</u> un:	Normal window	•							
C <u>o</u> mment:									
	<u>F</u> ind Target <u>C</u> hange Icon								
	OK Cancel App	ily							

This example will open the DemoGAP application file that is located in the C:\DemoGap directory, using GAP2.16 each time that the shortcut is double-clicked.

Creating Shortcut for Coder 3.06-1

- 1. Go to the C:\Gap_cdr directory and locate the file Coder306.exe.
- 2. Select the file and right click using the mouse.
- 3. Select Create Shortcut
- 4. Copy the shortcut to the desired location. In this example the shortcut was copied to the local desktop.



5. Select the shortcut and right click to access the Properties menu.

6. Select Properties to configure the shortcut.



If it is desired to have the shortcut code a specific .cdr file, enter the application .cdr file name at the end of the TARGET command line.

In the Start In line, enter the directory location where the DemoGAP.cdr file is located.

Shortcut to coder	306.exe Properties
General Shortcut	Options Font Layout Colors Security
Sh	ortcut to coder306.exe
Target type:	Application
Target location:	Gap_cdr
<u>T</u> arget:	C\\Gap_cdr\coder306.exe DemoGap.cdr
🔽 Run in separa	te <u>m</u> emory space 🗖 Run as different <u>u</u> ser
<u>S</u> tart in:	C\DemoGap
Shortcut <u>k</u> ey:	None
<u>R</u> un:	Normal window
C <u>o</u> mment:	
	OK Cancel Apply

This shortcut will compile the DemoGap.cdr file, located in the C:\DemoGap directory using the Coder3.06-1 compiler.

Atlas PC CPU Application Software Upgrade Verification

Submitting this completed form to Woodward will allow us to update our records in order to serve your future needs better.

Old Atlas PC System P/N

New Atlas PC System P/N _____

Atlas PC System S/N ______(from the back cover of the Atlas)

After performing the system upgrade, please verify and sign the following information:

1.	Installation	complete and	d operational?	Yes / No

2. New label has been applied to chassis? <u>Yes / No</u>

Upon completion, return this form to:

Woodward–Customer Service Department 1000 East Drake Road Fort Collins, CO 80525

Fax: +1 970 498 3050

We appreciate your comments about the content of our publications.

Send comments to: icinfo@woodward.com

Please reference publication 51226A.



PO Box 1519, Fort Collins CO 80522-1519, USA 1000 East Drake Road, Fort Collins CO 80525, USA Phone +1 (970) 482-5811 • Fax +1 (970) 498-3058

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