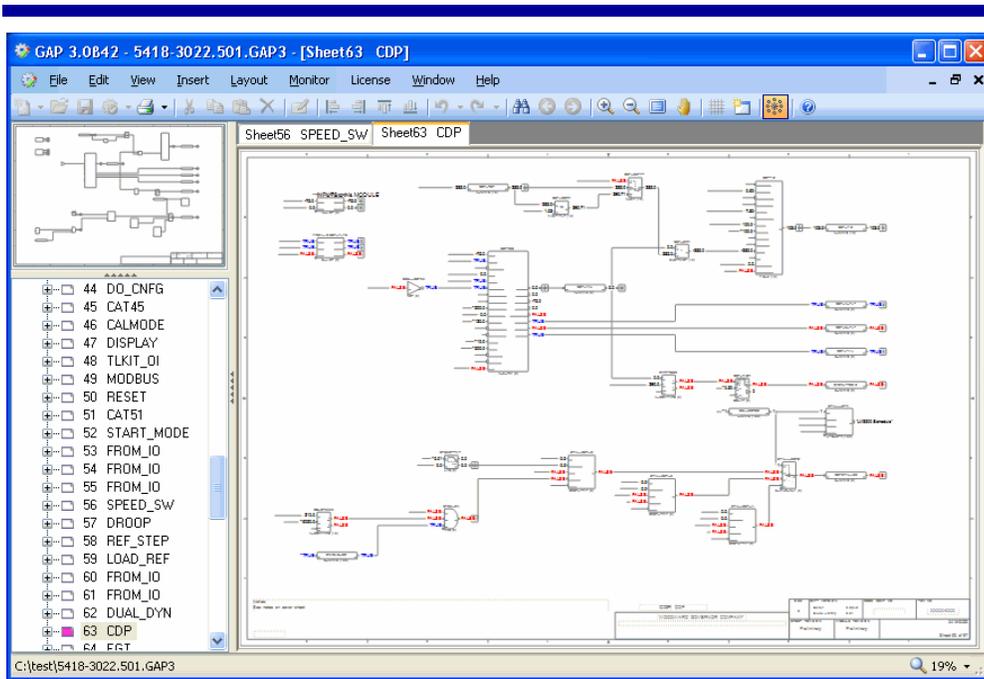


Monitor GAP™



Description

Monitor GAP™ is a licensed software service tool that allows service personnel to view and edit runtime values for GAP (Graphical Application Program) generated application software. GAP software is Woodward's pictures-to-code programming tool. This programming system uses libraries of control objects that are connected together in a graphical format. The final control design is displayed as a group of interconnected blocks that represent the functionality of the code running in the control hardware.

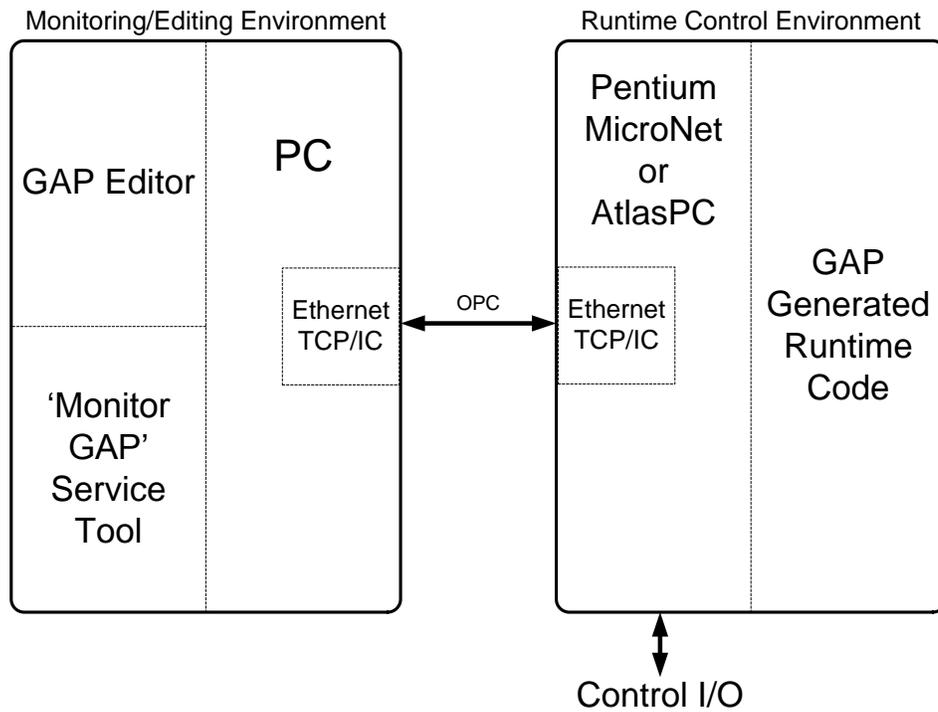
Monitor GAP works in parallel with the GAP graphical display and superimposes runtime values on that display. In addition, Monitor GAP can edit variables that have been previously declared as 'tunable' in the original GAP design.

The GAP editor includes Monitor GAP within its core structure. As such, Monitor GAP software can be activated by authorizing the Monitor license on an existing GAP editor installation.

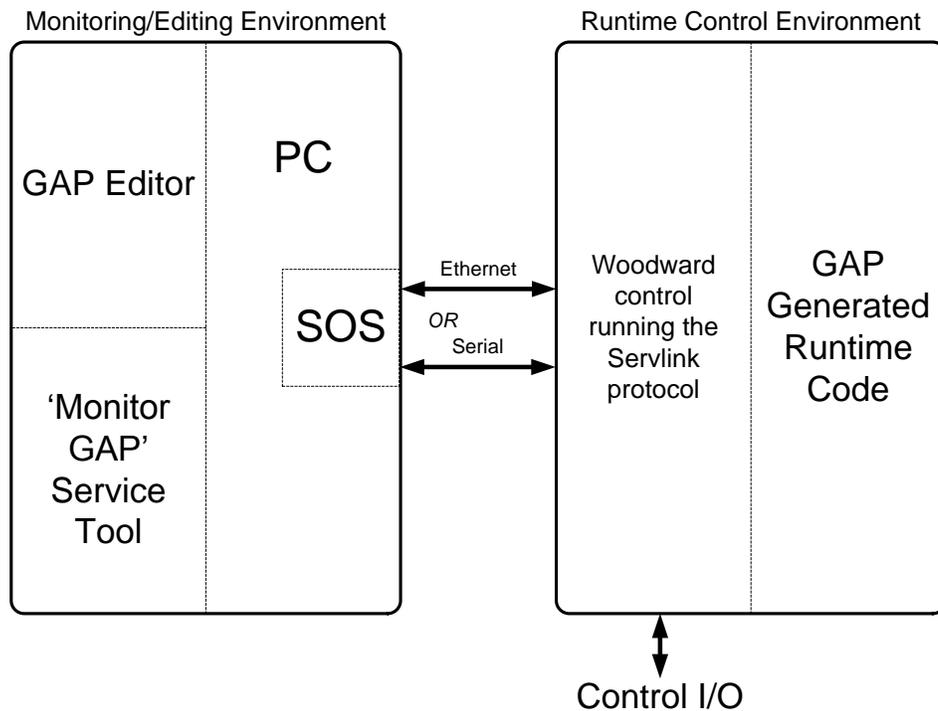
Monitor GAP runs on a PC and accesses runtime values from an OPC communications server. Some Woodward controls provide an OPC server directly to a TCP/IP network. Most controls communicate over a serial or Ethernet cable with the SOS Servlink OPC Server program that provides the OPC interface on a PC. Data is collected in real time so that the values displayed by Monitor GAP are always current.

Monitor GAP includes Woodward's Control Assistant software package for additional servicing capability. This package displays values in a tabular (rather than graphical) format and allows monitoring/tuning of variables, management of configuration and setpoints, and loading of new GAP-generated application software. With a separately purchased Control Assistant license, application values can be viewed live in a strip-chart window. See product specification 03201 for additional information on Control Assistant.

- Powerful troubleshooting tool for GAP-programmed controls
- Easy to use graphical format
- Monitor / Tune variables
- Boolean, real, integer, string, timer values
- Integrated with Woodward's Control Assistant program which provides tabular display and optionally live value trending
- Can be used with Woodward's NetSim™ Control Simulator or with a live control



OR



Applications

Monitor GAP™ can be used with any Woodward control that supports the Woodward Servlink protocol. It may also be configured to communicate with Woodward's NetSim control simulation program. Contact your Woodward representative for more information.

Generally, service personnel use Monitor GAP for troubleshooting during initial commissioning or subsequent system modifications. The tool allows the user to see graphically the progression of value changes as they 'ripple through' the control design. Correct performance responses are easily verified, and abnormalities are made apparent by examination of appropriate control blocks.

GAP 3.0B42 - 5418-3022.501.GAP3 - [Sheet63 CDP]

File Edit View Insert Layout Monitor License Window Help

Sheet56 SPEED_Sw Sheet63 CDP

FROM_IO.CDP_SIGS.LIST_1 IN_1
FROM_IO.CDP_SIGS.LIST_2 IN_2
FROM_IO.CDP_SIGS.LIST_3 IN_3
FROM_IO.CDP_SIGS.LIST_1 FLT_1
FROM_IO.CDP_SIGS.LIST_2 FLT_2
FROM_IO.CDP_SIGS.LIST_3 FLT_3
DISABLE_1
DISABLE_2
A_2_RM 0.0
SPREAD 0.0
VALUE_1 -75.0
VALUE_2 0.0
MAXDIFF_AL FALSE
IN_1_FLT TRUE
IN_2_FLT FALSE
ALL_FLT TRUE
LO_SP
HI_SP
OVRD_LO
OVRD_HI
RST

DSBL_CDP02
NOT (5)

CDPHSS

RESET.RESET.B_NAME

A_2_RM (5)

54 FROM_IO
55 FROM_IO
56 SPEED_SW
57 DROOP
58 REF_STEP
59 LOAD_REF
60 FROM_IO
61 FROM_IO
62 DUAL_DYN
63 CDP

CDP_A_FLT
CDP_B_FLT
CDP_CORR
CDP_ERR
CDP_FAIL
CDP_HIGH
CDP_PID
CDP_REF
CDP_SETPT
CDP_VAL
CDPHSS
CDPPID
CDPSTALLSD
DPS3 EN

C:\test\5418-3022.501.GAP3

77%

Monitor GAP Display

GAP 3.0B42 - latch2.501.GAP3

File Edit View Insert Layout Monitor License Window Help

Control Assistant - [TrendView]

File Edit View Transfer License Options Window Help

latch2.Sheet9 MP_RG_DLY latch2.Sheet6 A latch2.Sheet8 ASDD

latch2.Sheet6 A

EMDRP_RMP_IN_RAMP
EMDRP_RMP_IN_SW
RAMP (5)
LATCH (5)
ZMINUST_B (5)

EMDRP_RMP_IN_SW
A_SW (5)
z-minus 1
EMDRP_RMP_BO
ZMINUST_B (5)

EMDRP_RMP_IN_RAMP
R40.IN_RAMP RAMP
R20.IN_RAMP RAMP
R20.IN_RAMP MOVING_UP
R40.IN_RAMP MOVING_DN

	Y1	Y2	delta-Y
EMDRP_RMP_IN_RAMP	15.6327	1.94664	13.6861
R40.IN_RAMP RAMP	15.6373	1.92056	13.7167
R20.IN_RAMP RAMP	15.6375	1.93164	13.7059
R20.IN_RAMP MOVING_UP	1	1	0
R40.IN_RAMP MOVING_DN	0	0	0

C:\test\latch2.501.GAP3

68%

Woodward Governor Company

Monitor GAP with Control Assistant TrendView (separate license required)

Specifications

Minimum PC requirements include:

- Windows® XP, Vista, 7, 8, 10
- The .NET 4 Client Framework

The use of a system that does not meet minimum requirements will in most cases result in degraded performance.

Installation

1. The free installation software may be downloaded directly from the Woodward website (www.woodward.com/software.aspx). Enter "GAP Editor/Monitor" into the search box in the middle of the page.
2. Run the installation program on the PC on which you want to install Monitor GAP.
3. Contact your local Woodward representative to obtain a license that will authorize the Monitor GAP software.
Note: The Monitor GAP license is independent of the license for the GAP Editor/Coder.
4. From the same website, follow the instructions for Software Authorization.

Note: The Internet download and license request from the Woodward website may be performed on any computer, but the installation and license activation must be performed on the target computer.

Running Monitor GAP

Prior to running Monitor GAP, the user must have already installed a copy of the GAP application software.

The default installation location can be found by clicking the "Start" button on the main toolbar and then clicking the "All Programs" menu item. Look for an icon called "GAP3 Editor" in the Woodward/GAP3 folder to begin operation.

When connected to a control and running Monitor GAP, the GAP Editor functions are disabled. Monitor GAP always runs in read-only mode regardless of whether the Editor/Coder license has been activated or not.



PO Box 1519, Fort Collins CO 80522-1519, USA
1041 Woodward Way, Fort Collins CO 80524, USA
Phone +1 (970) 482-5811

Email and Website—www.woodward.com

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