

# AutoSave

## Support for G&L PiCPro

### *Enterprise tools for automation source management*

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#### OVERVIEW

The AutoSave suite of products provides you with the software tools needed to manage all your automation programs. AutoSave controls and tracks the changes to your industrial programmable devices and program sources including Giddings and Lewis PiCPro programs. AutoSave's Microsoft Windows-based client application offers you both an interactive environment and background monitoring, resulting in a comprehensive change management solution. You have complete control over your device programs including:

- Secure On-line, Off-line Edits
- Download
- Restrict File Access by Computer or Individual
- Scheduled Comparison
- Historical Tracking and Audit Trails
- Automatic Change Notification
- Quick Disaster Recovery
- Separate, version specific modules support PiCPro v16 SP2 and PiCPro v13.

#### CLIENT / SERVER / AGENT

The PiCPro modules complement the AutoSave system comprised of the client installed on a Windows workstation, an AutoSave server acting as the master control center that coordinates all change-related programming activities and stores program files, and an agent providing distributed processing efficiencies for the server.

#### ARCHIVED CONTENTS

The PiCPro file set is comprised of the files in the project's folder. The complete unit is restored to the client or agent whenever needed for subsequent use.

#### SECURED PROGRAM ACCESS

The GUI-based client interface allows a user to access the AutoSave functions with a login and password. At login, the AutoSave server determines the level of access to the

different areas and programs that are permitted to the user and the client PC. AutoSave provides audit trails and historical tracking of activities and updates.

#### VERSION CONTROL

When the user edits a program via AutoSave, the file becomes locked and indicates the user who has the file checked out. Other users see this lock condition when attempting to access the program. The system denies access to locked programs. When the user completes editing and saves the changes, AutoSave prompts for a revision note, creates a new current copy, relegates the previous current to a numbered ancestor, and unlocks the program. Simply downloading an ancestor or master copy to the device and restoring that copy to the current copy can undo unwanted programming changes.

#### UPLOAD

Because PiCPro v16 does not provide an Upload operation, the module cannot do so either.

#### DOWNLOAD

This option enables the user to select the Current copy or any available ancestor or version with which to update logic and data files from the server to the associated processor, starting picrow.exe with the selected AutoSave project. Because this process is driven by the module, the application editor is not altered during the "guided" process.

The module goes on-line via TCP/IP using the configured device information. The module checks for a "good" connection. Once established, it issues the Compile & Download using the Main Ladder to drive this function. At this point, picrow.exe pre-determines if this activity is valid (message boxes regarding failure may occur). Once it considers the operation valid, it displays a dialog placing the user in control to select the options and either Download or Cancel the operation.

G&L PICPRO PROFILE

## Features

### COMPARISON FEATURES

The Compare to Processor uses TCP/IP to connect to the device during the comparison part of the operation. The module goes on-line with the project and an Animate operation is initiated.

- If this fails, the contents of the message box are reported as the difference.
- If it does not fail, the module reports there is no difference.

The operation is a basic ASCII/Text and Binary comparison whether performed via Client or via Server.

### COMPARISON ON DEMAND

Any two copies of a program can be compared to each other or the device. The comparison is done on an as-needed basis and is performed from any client granted access to the device program.

### AUTOMATED COMPARISON

The module provides unattended comparisons of scheduled groups of programs. Sample summary report...

**AutoSave "Giddings and Lewis PiCPro v16"  
Difference Report**

Differences Detected(via CLIENT)

Program Name	/_PRJX/picpro_16/_SimpleX	
Program Description	AutoSave Simulation for project _SimpleX	
Personality Type	picpro_16	
Compare Date	10/15/2007 8:43:25 AM	

	Processor Copy	Local Copy
File Date	1/01/2007 11:22:57 AM	
User ID	sja	
Client ID	ws-sja-1	
Revision Method	Local to Version	
Revision Comment	original version 01	

**Project Difference Summary**

Item#	Contents	Reason	LINK
1	_SimpleX.map	Differences Detected	
2	_SimpleX.prj	Differences Detected	
3	next.bin	Missing in slot#1	
5	next.ldo	Missing in slot#1	
6	next.map	Missing in slot#1	
8	next.rem	Missing in slot#1	

Project/Program File List - (Not Modifiable)

File	Type	Transfer?	Compare?
*.*	Directory	YES	YES
*.BAK	Excluded	---	---
*.LBK	Excluded	---	---
*.RBK	Excluded	---	---

Sample detail report...

**Giddings and Lewis PiCPro V16.0 for PiC900 PLC**

\_SimpleX.map

LEGEND:

SIDE 1	DIFFERENT	SIDE 2	DIFFERENT	MISSING LINES EITHER SIDE
Item#	Line#	Processor Copy	Line#	Local Copy
1	1	Name Size Address	1	Name Size Address
2	2	cont_1 1 1000:0002	2	cont_1 1 1000:0002
3	3	coil_1 1 1000:0003	3	coil_1 1 1000:0003
4	4		4	
5	5	I/O Table 8008:0000 8008:0043	5	I/O Table 8008:0000 8008:0043
6	6	Cold Start 800D:0000 800D:0019	6	Cold Start 800D:0000 800D:0019
7	7	Warm Start 800F:0000 800F:0041	7	Warm Start 800F:0000 800F:0041
8	8	Global Call 8014:0000 8014:0005	8	Global Call 8014:0000 8014:0005
9	9	Appl. Seg. #1 801D:0000 801D:0021	9	Appl. Seg. #1 801D:0000 801D:0021
10	10		10	
11	11	Func. d/r tbl 8020:0000 8020:0000	11	Func. d/r tbl 8020:0000 8020:0000
12	12		12	

### NOTIFICATION

Notification e-mail is automatically sent to designated personnel when scheduled comparisons are completed and provides links to complete HTML detail reports.

### Capabilities

System Highlights	
Client: Real-time Ancestry	<input checked="" type="checkbox"/>
Server: Auto Unattended Operation	<input checked="" type="checkbox"/>
Agent: Parallel/Distributed Processing	<input checked="" type="checkbox"/>
Secured Program Access	<input checked="" type="checkbox"/>
Version Control w/file compression	<input checked="" type="checkbox"/>
Device Download	<input checked="" type="checkbox"/>
Client Highlights	
Compare	<input checked="" type="checkbox"/>
Server / Agent Highlights	
Time-Base Scheduling	<input checked="" type="checkbox"/>
AutoCompare	<input checked="" type="checkbox"/>
AutoNotify	<input checked="" type="checkbox"/>
Server Platform Support	
Windows	<input checked="" type="checkbox"/>

### PICPRO EDITOR REQUIREMENTS

These modules support PiCPro v16 SP2 and PiCPro v13. The modules are version specific, thus not interchangeable. They are supported on AutoSave for Windows only (5.03 tested). The PiCPro device support is based on the devices in the project; MDT tested TURBO 900 with v16.