

# AutoSave

## Support for WinCC Flexible

*Enterprise tools for automation source management*

### 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 Siemens WinCC Flexible projects.

AutoSave's client application is integrated with the software to offer you an interactive environment. You have complete control over your device programs including:

- Secure File Access by Computer or Individual
- Launch of Editor with or without Save
- Device Upload and Download
- Comparison
- Historical Tracking and Audit Trails
- Automatic Change Notification
- Quick Disaster Recovery
- Separate modules for 2005 and 2008

### CLIENT / SERVER / AGENT

The WinCC Flexible modules are comprised of the AutoSave client installed on a Windows workstation; an AutoSave server acting as the master control center that coordinates all change-related activities and manages program file archives; and an agent providing distributed processing efficiencies for the server.

### ARCHIVED CONTENTS

The file set comprised of the files using the program name (~\*.\*) is saved as a unit. 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 folders 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 launches 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.

### BACKUP / BACKTRANSFER SETTINGS

The modules support Backup or Backtransfer modes.

- The default setting **Backup** transfers the Binary compiled files **ONLY**.
- The **Backtransfer** transfers the source files as well.
- The settings must be configured correctly in each project using WinCC's Project > Transfer settings. Once configured, you must ensure the project's Transfer options match the AutoSave program's 'Upload Options' settings.

### UPLOAD/DOWNLOAD

These operations use the transfer settings to determine which files to transfer to the server as a new current copy (upload) or to the device being transferred to (download). Accessing the download function only via a context menu provides additional security, as does AutoSave's prompting for confirmation before initiating the download.

## Features

### COMPARISON FEATURES

The modules provide server-based comparison functionality. The differences are displayed via text. They use the Siemens WinCC Flexible Compare to process the differences between .fwx compiled project files. Comparison reports utilize the basic MDT ASCII compare methods in which binary files indicate if there are binary differences (no details) and text files with differences and missing files in either comparison revision are reported as such.

Program Summary			
Program Name	RRG/flex05Proj_1		
Program Description			
Personality Type	flex_05		
Compare Date	2009-03-02 09:02:37		
	Anc_00001	Anc_00004	
File Date	2008-10-03 13:26:50	2008-10-27 13:21:30	
User ID	ing	ing	
Client ID	flex05-advanced-2	flex05-advanced-2	
Method	Local to Current	Upload	
Revision Comment	change in the program		

  

Project Difference Summary				
Item #	Object Name	Ancestor 00001 Last Modified Date	Ancestor 00004 Last Modified Date	Result
1	Project	09/18/08 13:25:12	10/27/08 13:18:10	Difference

  

```

Siemens Wincc Flexible FWX Compare
CompareFwx (V. 1.0.24, (C) Siemens AG 2004 ... 2005) started @ 3/2/2009 9:02:19 AM ...
File 1: "C:\TEMP\MDTAgent\DIR67\Slot1\Project.Device_1.fwx" vs.
File 2: "C:\TEMP\MDTAgent\DIR67\Slot2\Project.Device_1.fwx"

General, essential analysis ...

INFO: Compiler version 117506049
=====
vs.
=====
vs.

Deep analysis (including potentially consecutive effects) ...

vs.

... Resume: Differences not found @ 3/2/2009 9:02:20 AM

C:\TEMP\MDTAgent\DIR67\Slot2\Project.Device_1.VB.TXT - Script Compare
No Differences
    
```

### AUTOMATED, SCHEDULED COMPARISON

The WinCC modules allow for scheduled, unattended uploads and comparisons of configured groups of programs. Using the agent to perform the actual upload, AutoSave can compare the device copy to the current or a master copy or compare the current copy to a selected version (permanent or master copy).

### NOTIFICATION

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

### COMMUNICATIONS

Connectivity, linkage, and hardware configuration is stored in the WinCC Flexible project itself and not AutoSave. AutoSave's Admin Tool configuration requires just the basic steps needed to enable proper selection of the agent and to enable the device related functions on the user interface.

### Capabilities

System Highlights	
Client: Real-time Ancestry	<input checked="" type="checkbox"/>
Server: Auto Unattended Operation	<input checked="" type="checkbox"/>
Secured Program Access	<input checked="" type="checkbox"/>
Version Control w/file compression	<input checked="" type="checkbox"/>
Device Upload	<input checked="" type="checkbox"/>
Device Download	<input checked="" type="checkbox"/>
Client Highlights	
Editor Controlled Actions/ User Rights	<input checked="" type="checkbox"/>
Editor Launch and Start	<input checked="" type="checkbox"/>
Server / Agent Highlights	
Time-Base Scheduling	<input checked="" type="checkbox"/>
AutoUpload	<input checked="" type="checkbox"/>
AutoNotify	<input checked="" type="checkbox"/>

### EDITOR REQUIREMENTS

Separate modules support Siemens WinCC Flexible 2005 (Professional, 2005 Standard, and 2005 Compact - English versions only) and 2008.