# **AutoSave Change Management**

# Support for IndraWorks MTX CNC



#### **PRODUCT OVERVIEW**

The AutoSave suite of products provides the software tools needed to manage all your automation programs. It controls and tracks the changes to your industrial programmable devices and program sources including BRC—Indramat MTX device programs.

The module requires the installation of the provided AutoSave Remote Module Service (ARMS) executable on the HMI.

AutoSave works directly with the HMI software to offer you both an interactive environment and background monitoring, resulting in a comprehensive change management solution. You have complete control over your device programs including:

- On-demand Upload, Download, and Compare
- Scheduled Comparison
- Historical Tracking and Audit Trails
- Automatic Change Notification
- Quick Disaster Recovery

#### **CLIENT / SERVER / AGENT**

This AutoSave IndraWorks MTX CNC module is comprised of an AutoSave server acting as the master control center that coordinates all change-related programming activities and stores program files. The AutoSave client and agent software provide upload and download capabilities to capture and restore changes for the unit made outside of AutoSave. These operations are conducted using AutoSave's ARMS services.

#### **ARCHIVED CONTENTS**

AutoSave creates revision copies comprised of all the files and information within the program's file list for the device; the list is essentially the project directory with some specific files excluded including .tar, .log, and .tmp files. All are saved as a unit. The complete unit is restored to the client/agent whenever needed for subsequent use.

### **SECURED PROGRAM ACCESS**

The AutoSave client interface allows users to access the AutoSave functions using a login and password. At login, the AutoSave server determines the level of access to the different areas and programs permitted to the user and the client PC.

### **VERSION CONTROL**

When the user requests a program via AutoSave, the file becomes locked and indicates who has the file checked out. The system denies access to others while the program is in use. When the user completes the use of the files, changes are uploaded via AutoSave with a revision note and the creation of a new current copy. The previous current copy is relegated to a numbered ancestor and the program is unlocked.

#### **UPLOAD**

The Upload (backup) operation through Automation Builder requires the CNC to be stopped, in manual mode, with all channels in reset; thus the client-based upload is used so a user is managing the CNC and the creation of a new revision. To address uploads for scheduled comparisons, the agent operations perform the FIS upload via OPC but no revision should be created in this manner.

#### **DOWNLOAD**

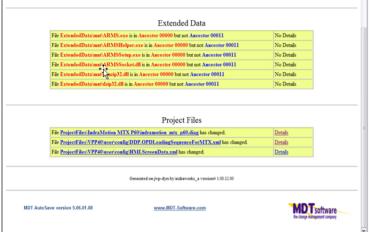
The Download (restore) operation through Automation Builder requires the CNC to be stopped, in manual mode, with all channels in reset. As such, the module does not support an agent-based download. Instead, a user initiates a client-based download to the device by selecting the current copy or any available ancestor or version with which to update the device's files. Accessing the download function only via a context menu provides additional security, as does AutoSave's prompting for confirmation before initiating the download.



## **IndraWorks MTX CNC Product Profile**

#### **COMPARISON FEATURES**

The module utilizes the basic MDT ASCII compare methods, that is, binary files indicate if there are binary differences (no details), text files have a link to the details, and missing files in either slot are reported as such.





#### **COMPARISON ON DEMAND**

Any two copies of a program, such as current, local, ancestor, version, or processor, can be compared to each other. This comparison is done on an as-needed basis and may be performed from any client with access to the device program.

### **AUTOMATED COMPARISON**

The IndraWorks MTX CNC module allows for scheduled, unattended comparisons of configured groups of programs. Using the agent to perform the actual upload and comparison, the module can compare the device's copy to the current copy or compare the current copy to a selected version (permanent or master copy). It does NOT support the **AutoUpdate** feature option to create a new current copy since this is the FIS upload result.

#### **NOTIFICATION**

Notification e-mail can be automatically sent to selected users when comparisons or changes are made.

| System Highlights                      |   |
|--|---|
| Client: Real-time Ancestry             | ✓ |
| Server: Auto Unattended Operation      | ✓ |
| Agent: Parallel/Distributed Processing | ✓ |
| Secured Program Access                 | ✓ |
| Version Control w/file compression     | ✓ |
| Device Upload                          | ✓ |
| Device Download                        | ✓ |
| Client Highlights                      |   |
| Compare                                | ✓ |
| Server / Agent Highlights              |   |
| Time-Base Scheduling                   | ✓ |
| AutoCompare                            | ✓ |
| AutoNotify                             | ✓ |

