

# AutoSave Change Management

## Support for IndraWorks MTX CNC

PRODUCT PROFILE



### 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.

The screenshot shows a comparison report with two main sections: 'Extended Data' and 'Project Files'. Each section contains a table of files and their comparison status.

Extended Data		
File ExtendedData\mat\ARMS.exe is in Ancestor 00000 but not Ancestor 00011	No Details	
File ExtendedData\mat\ARMSHelper.exe is in Ancestor 00000 but not Ancestor 00011	No Details	
File ExtendedData\mat\ARMSSetup.exe is in Ancestor 00000 but not Ancestor 00011	No Details	
File ExtendedData\mat\ARMSocket.dll is in Ancestor 00000 but not Ancestor 00011	No Details	
File ExtendedData\mat\prip32.dll is in Ancestor 00000 but not Ancestor 00011	No Details	
File ExtendedData\mat\rip32.dll is in Ancestor 00000 but not Ancestor 00011	No Details	

  

Project Files		
File ProjectFiles\IndraMotion MTX P60\indramotion_mtx_p60.diag has changed.	<a href="#">Details</a>	
File ProjectFiles\VP40\user\config\DDP.OPD>LoadingSequenceForMTX.xml has changed.	<a href="#">Details</a>	
File ProjectFiles\VP40\user\config\HMI\ScreenData.xml has changed.	<a href="#">Details</a>	

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MDT AutoSave version 5.06.01.08 [www.MDT\\_Software.com](http://www.MDT_Software.com)

The screenshot shows a web browser displaying the XML content of two compared files. The left pane shows the file from Ancestor 00011, and the right pane shows the file from Ancestor 00000. The XML structure is identical, but the values for certain elements differ, such as the 'Data' element at line 11 and the 'Data' element at line 15.

## 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	✓