

MDT AutoSave



Automation Change Management for the Mining Industry

SECURE RESTORE SAVE PROTECT DISCOVER TRACK CONTROL TRACK RECOVER MANAGE UNIFY SECURE RESTORE SAVE PROTECT MANAGE

Increasing Safety and Reducing Health and Environmental Concerns

Mining is often characterized by harsh surroundings and difficult operating conditions that are compounded by an increasingly challenging requirement to protect the local environment in which the mine operates. Such operating conditions place maximum attention on increasing safety and health safeguards as well as continuous monitoring of environmental issues. Furthermore, nearly all of the underground and above ground operations of a mine are controlled by a vast array of PLC and SCADA systems and even some DCS systems. Such operations often call for regular changes to be made to both PLC and SCADA software to take into account the changing production issues.



MDT AutoSave is part of a best practice change management and audit infrastructure required to maintain a high standard of safety in mining operations. AutoSave ensures proper rollback/recovery data exists by tracking changes in PLCs, human-machine interface systems and workstations while providing notification of changes.

Changes happen. Manage them.

MDT AutoSave empowers users to protect, save, restore, discover, and track changes in industrial programmable devices and plant-floor documents. AutoSave unifies automation software under one common user interface and results in a secure, well

documented, controlled environment that dramatically reduces coordination constraints, wasted effort, and safety issues. AutoSave allows users to:

Reduce Errors and Downtime

The key to rapid recovery is the ability to access and download the correct program to the device. In providing a common central repository of all changes, MDT AutoSave can ensure that if a device fails, the most current copies of program logic and documentation are available so plant operations can be restored quickly and correctly.

Increase Productivity

There can be numerous disks and laptops located throughout the plant, each containing different program and document versions. Inefficiencies are inevitable, costly and even dangerous. In providing a common central repository of all changes, historical changes can also be analyzed to identify bottlenecks and observe trends in programming practices so operational improvements can be made.

Improve Security

AutoSave is designed to manage access to program areas and programs via a flexible privileging system. When physical access to automation devices is prohibited (ensuring changes can only be made through MDT AutoSave) all changes in program logic are recorded by user, date, time, location and specific change detail. When physical access to the devices is possible, AutoSave periodically compares the program running in each device with the program copy on file in AutoSave and identifies any differences. An email notification is then sent highlighting these differences.

MDT AutoSave empowers users to:

- ▶ Reduce errors & downtime
- ▶ Increase productivity
- ▶ Protect users & assets
- ▶ Identify specific modifications



MDT AutoSave: Automation Change Management

AutoSave Supported Devices

AutoSave supports the most comprehensive range of devices and programming software in the industry including:

- Schneider
- Siemens
- Bosch
- Wonderware
- Omron
- Citect
- Mitsubishi
- GE Fanuc
- Rockwell Automation/Allen-Bradley
- ABB and more

Gain Complete Control Over Device Programs

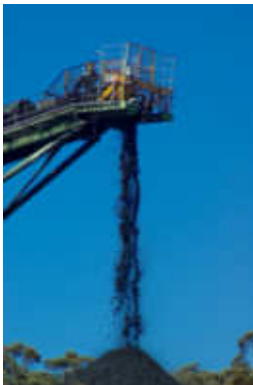
MDT AutoSave's client modules are integrated with your programming editors to offer both an interactive environment and background monitoring. You have complete control over your device programs including:

- Secure on- and off-line editing with immediate, central library archival of changes
- Historical tracking and audit trails
- Automatic change discovery and real-time notification
- Rapid disaster recovery
- Comparison on demand and automated comparison
- Version-specific modules for your editors

Our Customers

As a trusted provider of disaster recovery and change management solutions, over 4,700 end users in numerous industries worldwide have selected products from MDT Software to effectively manage an increasing array of software on the plant floor. MDT's AutoSave is the corporate standard for plant automation device management in many of the most advanced manufacturing facilities in the world. Our customers include:

- 3M
- **Alliance Coal, LLC**
- Allvac
- BAA
- **BHP Billiton**
- Campbell's Soup Company
- **Caterpillar**
- Chevron
- Chrysler
- Coca-Cola
- Continental Corporation
- ConvaTec
- Coors Brewing
- Corn Products
- Delphi
- Fonterra
- Ford Motor Company
- General Mills
- General Motors Corporation
- Georgia Pacific
- GlaxoSmithKline
- Hewlett-Packard
- **Hillside Aluminum**
- Iams
- Kraft Foods
- Lawrence Livermore National Labs
- Lorillard Tobacco
- **Melox**
- **Mozal Aluminum**
- Miller Brewing
- National Starch & Chemical
- Michelin
- Nestlé
- Newport News Shipbuilding
- Procter & Gamble
- **Rio Tinto**
- SABMiller plc
- Sara Lee
- **Scaw Metals**
- **Shagang Steel**
- Tennessee Eastman Chemical
- Toyota
- Tropicana
- Unilever
- **Vale (formerly CVRD)**
- Vistakon
- Visteon Automotive Systems
- Weyerhaeuser
- Whirlpool



For More Information

To find out more how MDT AutoSave can help you manage PLC program changes as well as gain control over all the automated devices and documents on the plant floor, please visit www.MDTsoft.com.