

Change management: What is it and where is it going



What is asset/change management?

Asset Management according to Wikipedia

...Alternative views of asset management in the engineering environment are: the practice of managing assets to achieve the greatest return (particularly useful for productive assets such as plant and equipment), and the process of monitoring and maintaining facilities systems, with the objective of providing the best possible service to users in all dimensions (appropriate for <u>public infrastructure</u> assets).

From Google Dictionary change man-age-ment *noun*

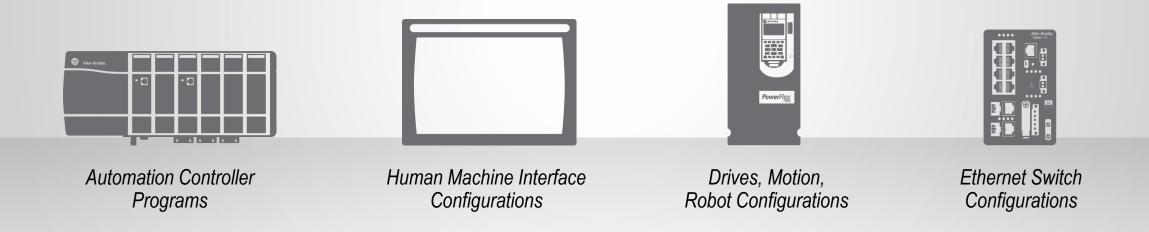
noun: change management

1.the management of change and development within a business or similar organization.

2.the controlled identification and implementation of required changes within a computer system.

Automation Assets

Water & Waste water facilities have **100s or 1000s OF AUTOMATION ASSETS** PHYSICAL, PROGRAMMED AND CONFIGURED COMPONENTS



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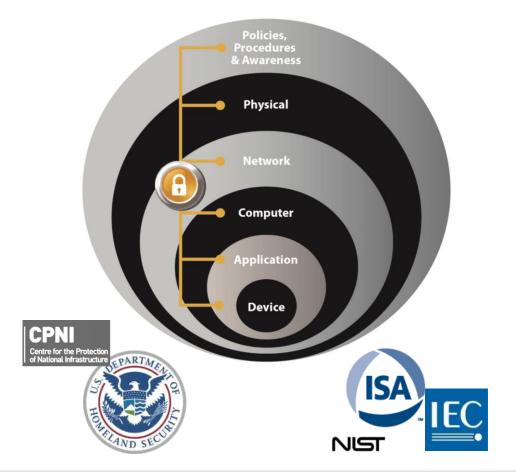
Common Challenges & Potential Risks





Good security follows a holistic Approach

A secure application depends on multiple layers of protection and industrial security must be implemented as a system.



Consider:

CIA Triad of Information Security Confidentiality Availability Integrity

Asset Management/Change Management Overview



ARCHIVE & DISASTER RECOVERY

- Centrally manage versions of programs, files and folders
- Automate backup of automation assets
- Generate detailed difference detection reports of assets



- Track user actions Who did What, When, Where?
- Produce ad hoc reports associating users, assets and programs to paint a full picture
- Automate the reporting process via email



- Restrict viewing of artifacts
- Helps prevent unauthorized access to make changes
- Helps prevent unauthorized users from creating new versions



EXTENSIBILITY

- Ability to extend and add support for thirdparty devices
- Web client available to track assets from a mobile device

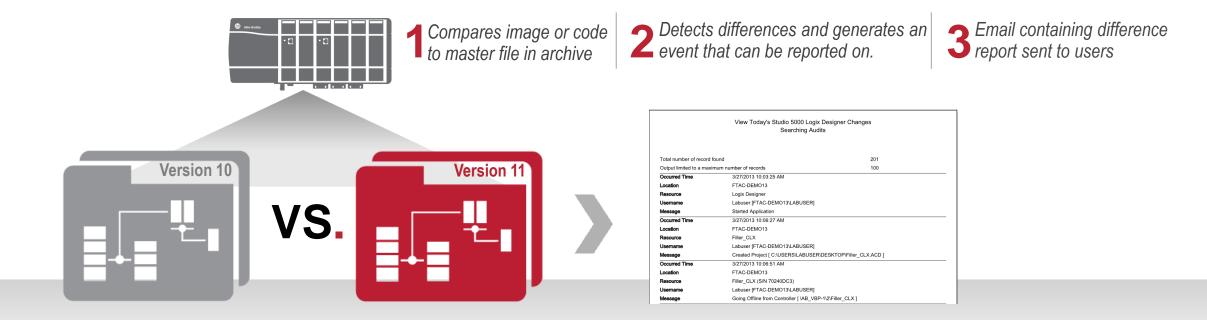
Archive: Version Control / Source Control



MASTER FILE Automatic version control maintains proper file management



Backup/Recovery

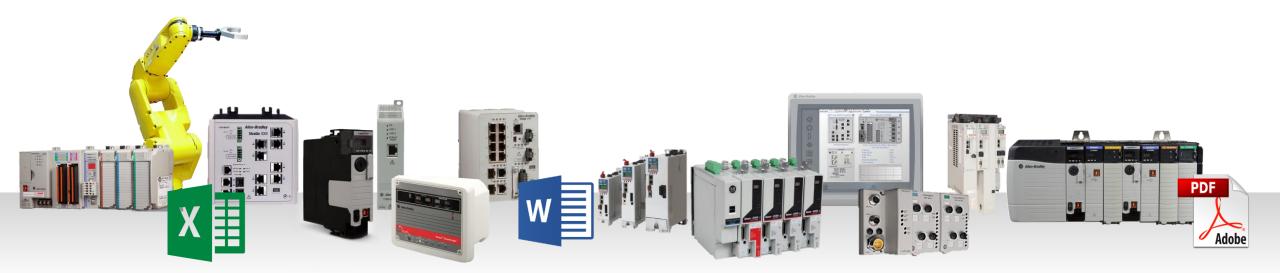


Backup/Recovery can be configured to create a new archive version WHEN A DIFFERENCE IS DETECTED





Backup/Recovery Options

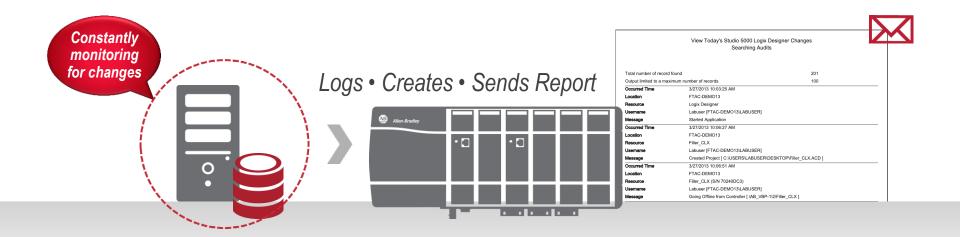


Controllers, Windows Files



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Tamper Detection



DETECTS CHANGES IN REAL TIME



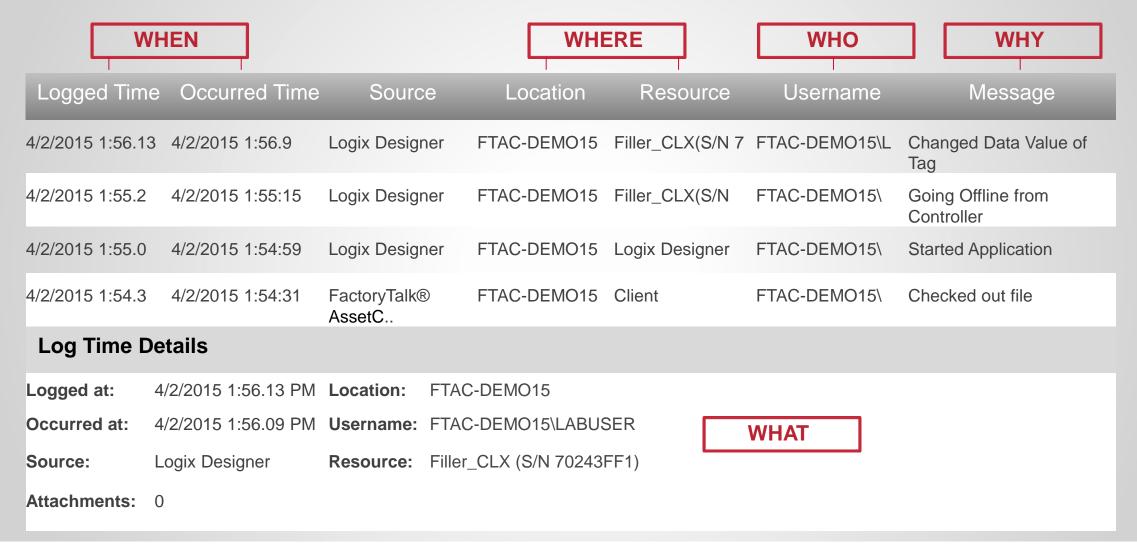
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Searching and Reporting

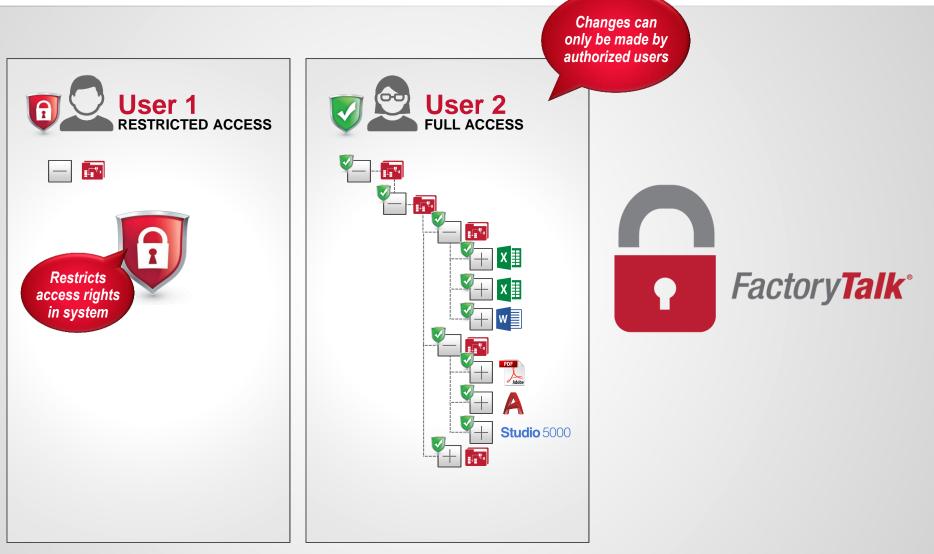




Track User Actions: Audits / Events

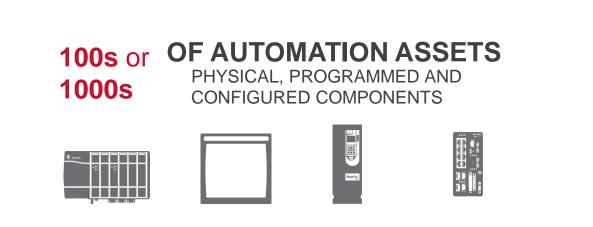


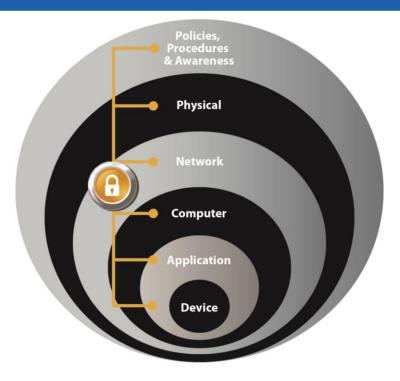
User Access and Authentication





Lesson's learned





Remember

CIA Triad of Information Security Confidentiality Availability Integrity