

Configuration Audit Trail for DeltaV SIS™

Version	User	Date	Action	Archive Status
6	ANDY_C	9/3/2009 5:10:51 PM	Download Label: sent to C...	None
6	ANDY_C	9/2/2009 2:22:05 PM	Download Label: sent to C...	None
6	ANDY_C	9/2/2009 2:21:22 PM	Authorized	None
6	ANDY_C	9/2/2009 2:21:22 PM	Authorization: Plant Manag...	None
6	SUPERVISOR	9/2/2009 2:20:41 PM	Authorization: Supervisor A...	None
6	ANDY_C	9/2/2009 2:17:55 PM	Checked In	None
5	ANDY_C	9/2/2009 2:15:50 PM	Unauthorized	None
5	ANDY_C	9/2/2009 2:15:49 PM	Checked Out	None
5	ANDY_C	9/2/2009 9:59:22 AM	Download Label: sent to C...	None
5	ANDY_C	8/26/2009 3:06:56 PM	Download Label: sent to C...	None
5	ANDY_C	8/24/2009 4:09:17 PM	Download Label: sent to C...	None
5	ANDY_C	8/3/2009 7:00:52 PM	Download Label: sent to C...	None
5	ANDY_C	8/3/2009 6:59:10 PM	Authorized	None
5	ANDY_C	8/3/2009 6:59:09 PM	Authorization: Plant Manag...	None
5	ANDY_C	8/3/2009 6:58:46 PM	Authorization: Supervisor A...	None
5	ANDY_C	8/3/2009 6:58:10 PM	Checked In	None
4	ANDY_C	8/3/2009 6:56:06 PM	Rolled Back	None
4	ANDY_C	8/3/2009 6:56:06 PM	Checked Out	None

Configuration Audit Trail for DeltaV SIS Simplifies Safety Lifecycle Management

- Simplifies safety lifecycle management
- Tracks configuration changes
- Displays differences between different versions of a configuration item
- Creates change management reports
- Download authorization
- Module testing approval

The DeltaV SIS security system provides function locks, which allow the system administrator to control the privileges granted to individual users. Items may be checked out for editing only by approved users. When a change has been made, the configuration version of the item is automatically updated, the new version is time-stamped and a comment can be recorded when the item is checked back in. Embedded reporting tools provide the ability to print configuration change histories for any item in the configuration database.

Introduction

Configuration Audit Trail is a powerful tool that is available for the DeltaV SIS process safety system. Configuration Audit Trail tracks configuration changes and manages revision information for any item in the DeltaV SIS configuration database. This application creates and maintains a configuration change history for configuration items such as SIS modules, operator graphics and user accounts.



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Process Management

Benefits

Automatically records configuration changes. Configuration Audit Trail keeps a change history for safety modules, I/O and other configuration items in the DeltaV SIS configuration database.

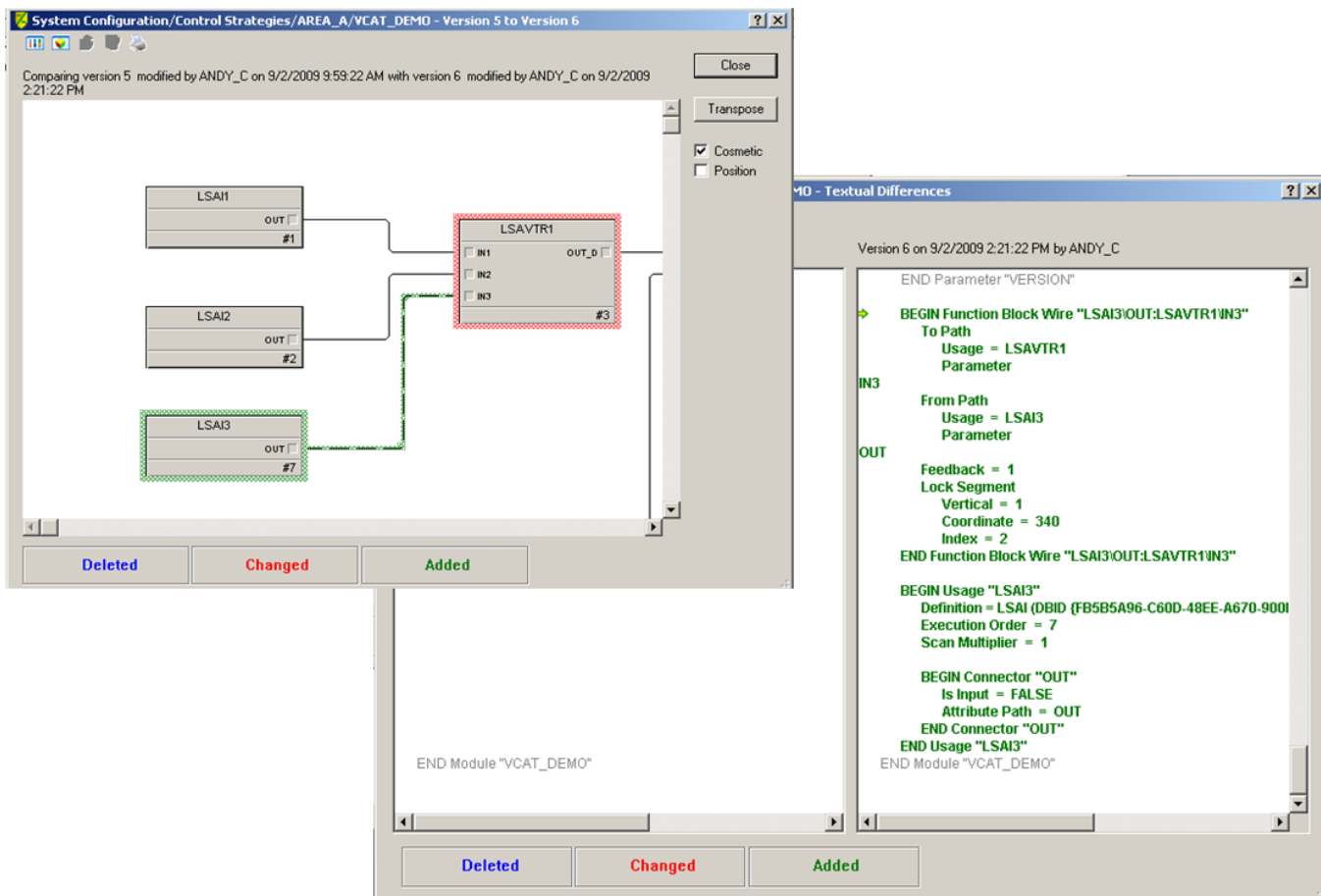
Easily review changes. Immediately determine who made a change, when the change was made, and the detailed difference information for the two versions being compared.

Return to prior version. The application provides a mechanism to roll back a specific item or the entire database to a previous version.

Includes change management reports. A variety of reports provides user documentation to simplify safety lifecycle management. Reports can either show the change history for an item, or the differences between versions of the item can be shown.

Download authorization. An optional feature that enforces up to five, depending on SIL level, electronic signatures before an SIS module can be downloaded in a DeltaV SIS logic solver.

Module testing approval. If enabled, this allows up to five electronic signatures to be required before an SIS module function test is approved. A record will be entered in the Configuration Audit Trail database when the function tests have been successfully completed.



View Differences in a Graphical or Textual Format

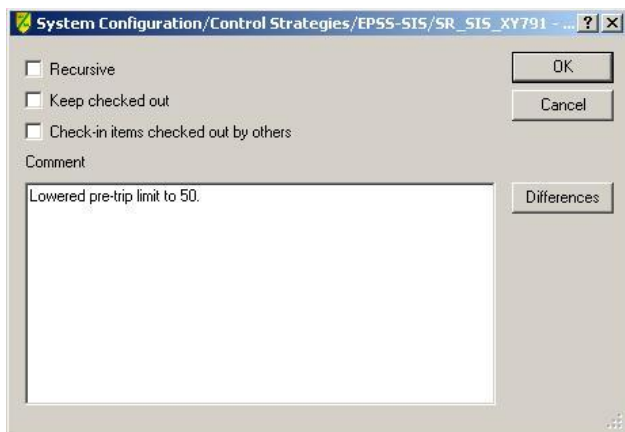
Product Description

Configuration Audit Trail is a tool for the DeltaV SIS process safety system that enables collection and management of revision information for items in the configuration database. Keeping detailed historical information on changes made to the safety system simplifies safety lifecycle management.

Configuration Audit Trail is an optional feature of DeltaV SIS which is tightly integrated with the configuration database. When enabled, it works seamlessly as part of the DeltaV SIS configuration tools, such as Explorer and Control Studio. Security function locks control access to Configuration Audit Trail.

Configuration Audit Trail tracks changes and creates a configuration change history for all configurable items in the DeltaV SIS system. Each time a new version is made, the version identifier is automatically updated. Users easily check out, save and check in the configuration items.

Only checked-out items can be edited. A time stamp and username are recorded in the Configuration Audit Trail whenever an item is checked-in. It is also possible to include comments indicating the reason for the changes. These comments can be viewed at any time from the item's history log. Items can also be opened as read-only.



Keep running commentary of configuration changes

History logs and difference reports can be viewed and printed from Control Studio and Explorer.

The DeltaV SIS administrative tools allow the Configuration Audit Trail database and the DeltaV SIS database to be backed up together in one operation. It is also possible to archive and restore versions of items in the audit trail database.

Sizing

The Configuration Audit Trail application uses a Microsoft SQL Server 2008 database for the storage of versioned configuration items. The audit trail database size increases as items in the DeltaV SIS configuration database are modified and additional versions of those items are saved in the SQL Server 2008 database. Disk space can be conserved by archiving older versions. These can be selectively restored if and when required.

Hard disk requirements

You will want to ensure that there is adequate disk space to install Microsoft SQL Server 2008 and create the Configuration Audit Trail database with room for expansion of the database. Therefore, the system ProfessionalPLUS Station should have a minimum amount of free space on the hard drive or partition where the DeltaV\DVDData directory is installed:

- For systems 10,000 DSTs or less: 13Gb
- For systems 10,000-20,000 DSTs: 17Gb
- For systems 20,000-30,000 DSTs: 21Gb

Ordering Information

Description	Model Number
Configuration Audit Trail	VE2139Sxxxxx, where the xxxxx* represents the DSTs to be ordered

**If DeltaV is the basic process control system used with DeltaV SIS, Configuration Audit Trail may be enabled for all items or only for DeltaV SIS items. If enabled for DeltaV SIS only, xxxxx must be sufficient to cover the total number of SIS DSTs. If enabled for the entire system, xxxxx must be sufficient to cover the sum of non-SIS and SIS DSTs.*

Related Products

- **DeltaV SIS Engineering Tools.** Reduce engineering time and complexity in hardware and safety loop configuration. With IEC 61508-certified function blocks and role-based user access, these tools are powerful, yet easy to use.
- **Operator Station for DeltaV SIS.** Increased visibility to your process with standard operating information and safety interlocks available in standard layouts and utilizing systemwide, built-in security.

Prerequisites

- When enabled, Configuration Audit Trail is always resident on the ProfessionalPLUS station and requires a server class computer. (Configuration Audit Trail uses Microsoft SQL Server 2008, which requires a Windows Server 2008 operating system. Since the Windows Server 2008 operating system requires a server class computer, the use of Configuration Audit Trail software requires a server class computer for the ProfessionalPLUS station.) For systems using Configuration Audit Trail, users simply check a box during installation to install the SQL Server 2008 software.

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