



Safe Commands and IGSS Audit Trail

Speaker Notes



**INSIGHT
AND
OVERVIEW**

List of topics (Safe Commands)

- What is a Safe Command?
- Define users in User Administration
- Safe Commands in Supervise
- Safe Commands in Definition

What is a Safe Command?

If you want to secure that operator commands on certain objects are safeguarded against faulty use or unauthorized use, apply Safe Commands

Safe commands come in three flavors:

- Confirm
- Confirm with password
- Confirm 2 users

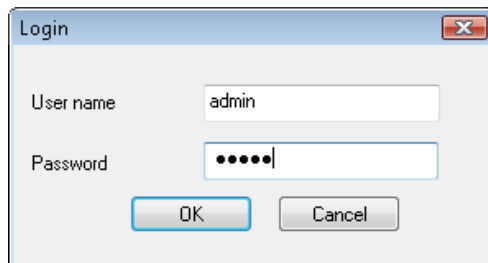
NOTE:

Confirm password and **Confirm 2 users** only make sense, if you have user administration enabled.

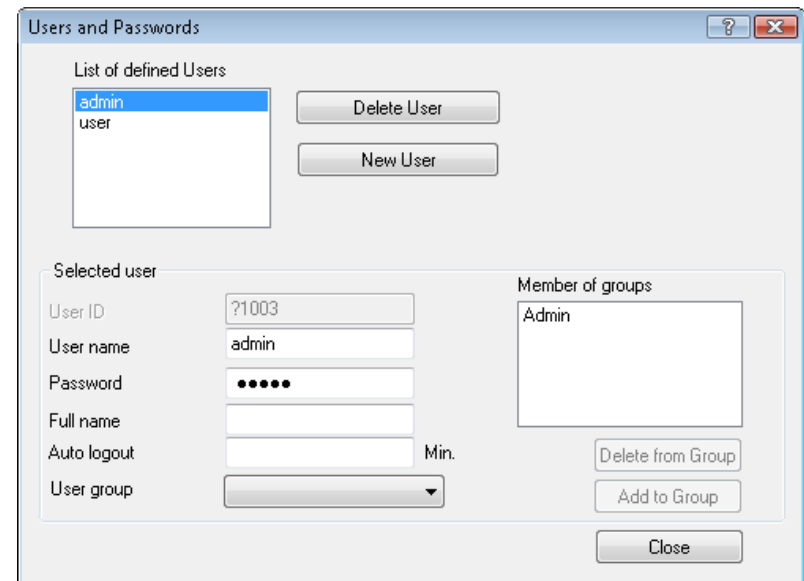
Objects can be protected both with Protect and Safe Commands.

Define users in User Administration

1. Open the **User Administration** module.
2. Enter user name = admin and password = admin.
3. In the **File** menu, select **Users and Passwords**.
4. Explain that two users have been set up for the Demo.



Login dialog box showing user name 'admin' and password '.....' entered. Buttons for OK and Cancel are visible.



Users and Passwords dialog box showing a list of defined users: 'admin' and 'user'. The 'admin' user is selected. Below the list, the 'Selected user' section shows fields for User ID (?1003), User name (admin), Password (.....), Full name, Auto logout (Min.), and User group. The 'Member of groups' section shows 'Admin' in a list box. Buttons for Delete User, New User, Delete from Group, Add to Group, and Close are visible.

Safe Commands in Supervise

1. Click **News in IGSS V8 > Safe Commands**
2. Three types – Confirm, Confirm with password, Confirm 2 Users.
3. Click on the first and third pump.
4. Explain the options and remember to mention User Administration.

Confirm

The operator must confirm the command before it is sent to the process PLC

CLOSE

OPEN



Confirm by Password

Operators must give user name and password in order to send PLC commands

CLOSE

OPEN



Confirm by two Users

Two operators must give user name and password to send PLC commands

CLOSE

OPEN



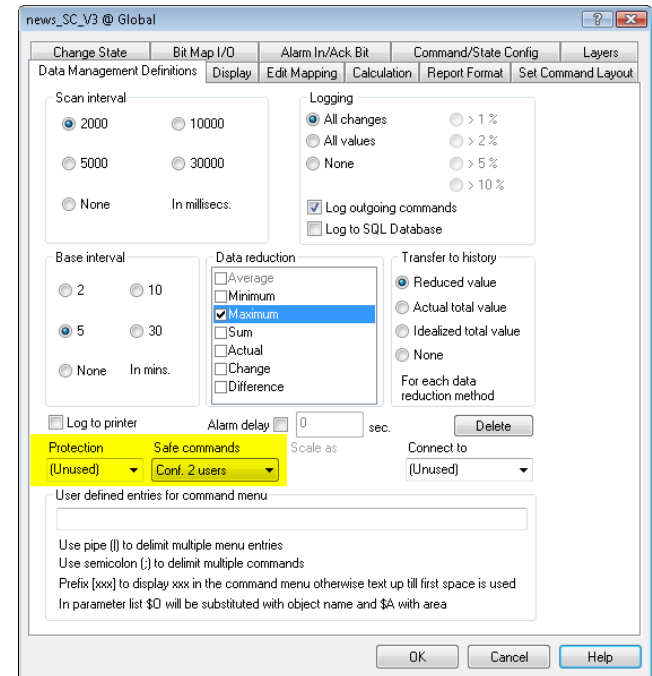
The three valves to the right are protected by safe commands. Try to send a command to each, to see the effects of safe commands.

Username = user / admin

Password = user / admin

Safe Commands in Definition

1. Open the **Definition** module.
2. Go to **News in IGSS V8**.
3. In the **View** menu, select **Safe Commands**.
4. Right-click the third valve and select **Properties**.
5. Click the **Data Management Definitions** tab.
6. Show that **Confirm 2 Users** is selected, but could be expanded with the **Protect** object.



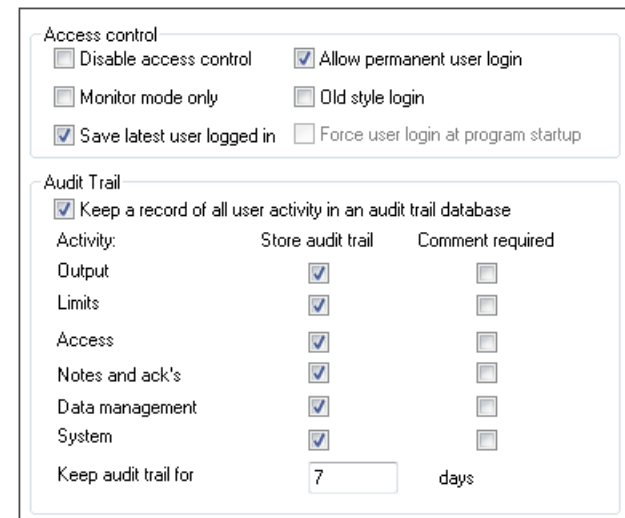
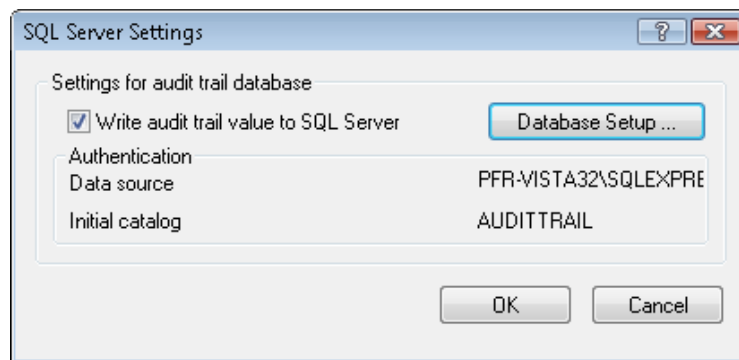
List of topics (Audit Trail)

IGSS Audit Trail

- Set up Audit Trail
- User logs in
- All user activities are recorded
- Change the view period
- Create filters and views
- Create a user note

Set up IGSS Audit Trail

1. Open **System Configuration**.
2. Click the **Files** tab, then **SQL Settings** under **Audit Trail**.
3. Set up the SQL Server according to the help file.
4. Go to the **Startup** tab and enable **Audit Trail**.
5. Go to the **Access Control** tab and select the relevant settings under **Audit Trail**.



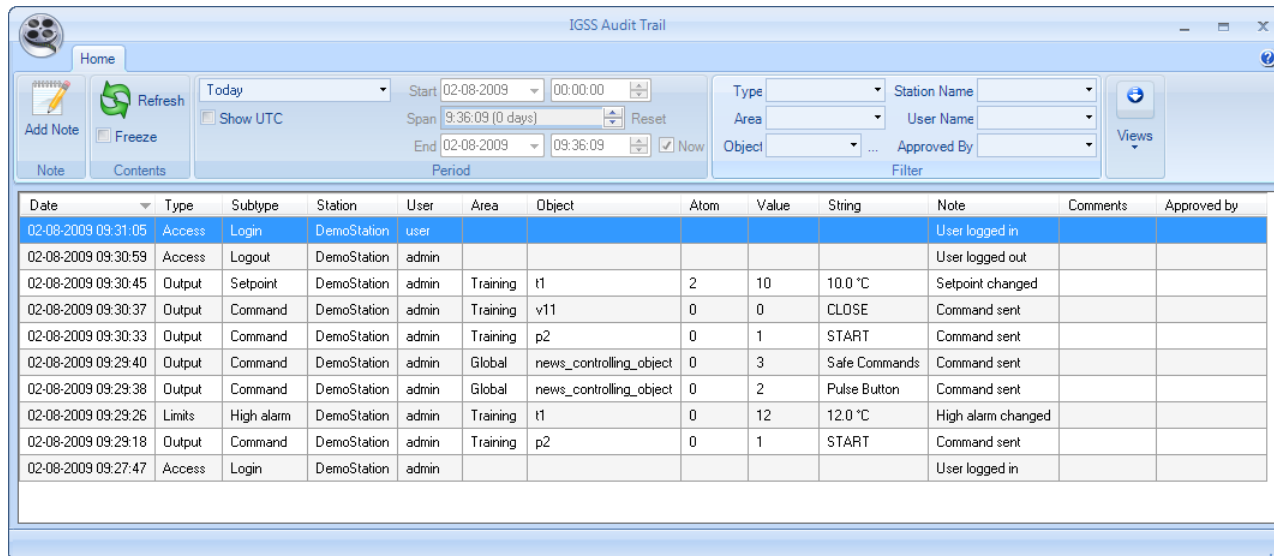
Restart IGSS and log in

1. Stop and start IGSS.
2. Log in as the **admin** user.



All user activities are recorded

1. Go to **Training > Refuse Disposal**.
2. Start/stop the pumps and change the set point of **t1**.
3. Log out and log in as **user**.
4. Activate the **IGSS Audit Trail** module.
5. Explain what we see in the Action List.

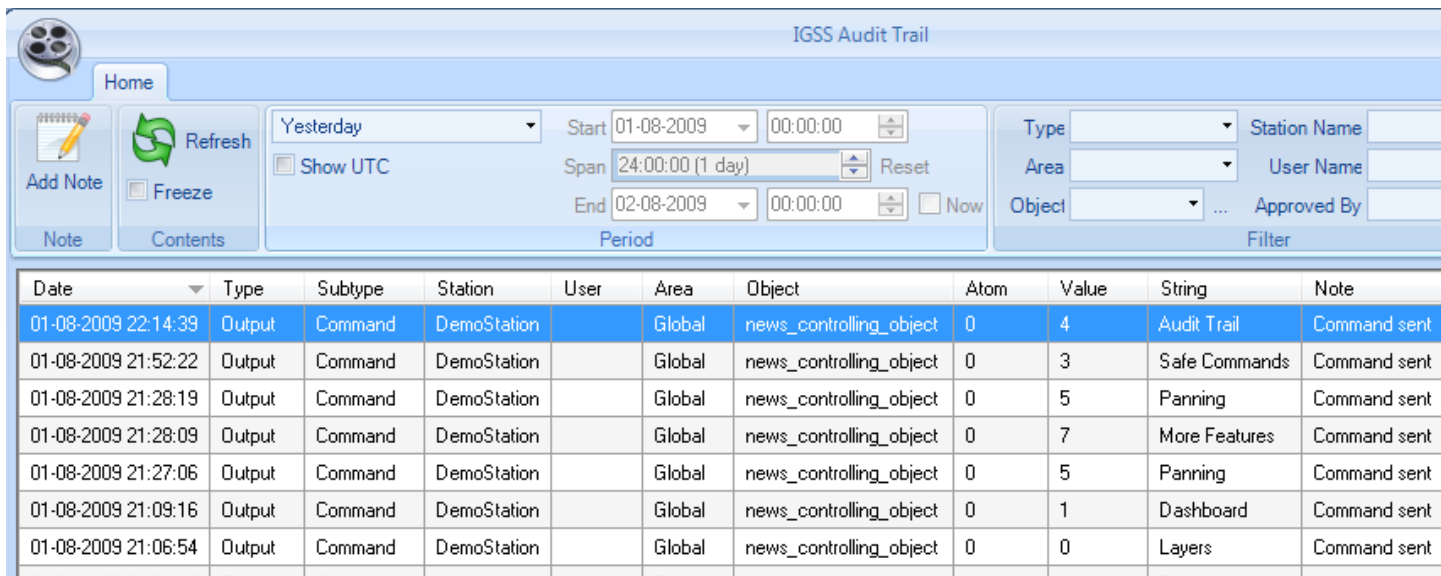


The screenshot shows the IGSS Audit Trail application window. The interface includes a toolbar with 'Add Note', 'Refresh', 'Freeze', and 'Show UTC' buttons. A search and filter section contains dropdown menus for 'Type', 'Area', 'Object', 'Station Name', 'User Name', and 'Approved By', along with date and time pickers for 'Start', 'Span', and 'End'. Below the toolbar is a table with the following data:

| Date | Type | Subtype | Station | User | Area | Object | Atom | Value | String | Note | Comments | Approved by |
|---------------------|--------|------------|-------------|-------|----------|-------------------------|------|-------|---------------|--------------------|----------|-------------|
| 02-08-2009 09:31:05 | Access | Login | DemoStation | user | | | | | | User logged in | | |
| 02-08-2009 09:30:59 | Access | Logout | DemoStation | admin | | | | | | User logged out | | |
| 02-08-2009 09:30:45 | Output | Setpoint | DemoStation | admin | Training | t1 | 2 | 10 | 10.0 °C | Setpoint changed | | |
| 02-08-2009 09:30:37 | Output | Command | DemoStation | admin | Training | v11 | 0 | 0 | CLOSE | Command sent | | |
| 02-08-2009 09:30:33 | Output | Command | DemoStation | admin | Training | p2 | 0 | 1 | START | Command sent | | |
| 02-08-2009 09:29:40 | Output | Command | DemoStation | admin | Global | news_controlling_object | 0 | 3 | Safe Commands | Command sent | | |
| 02-08-2009 09:29:38 | Output | Command | DemoStation | admin | Global | news_controlling_object | 0 | 2 | Pulse Button | Command sent | | |
| 02-08-2009 09:29:26 | Limits | High alarm | DemoStation | admin | Training | t1 | 0 | 12 | 12.0 °C | High alarm changed | | |
| 02-08-2009 09:29:18 | Output | Command | DemoStation | admin | Training | p2 | 0 | 1 | START | Command sent | | |
| 02-08-2009 09:27:47 | Access | Login | DemoStation | admin | | | | | | User logged in | | |

Change the view period

1. The default period is Today.
2. Change the period to **Yesterday**.
3. Go back to **Today**.

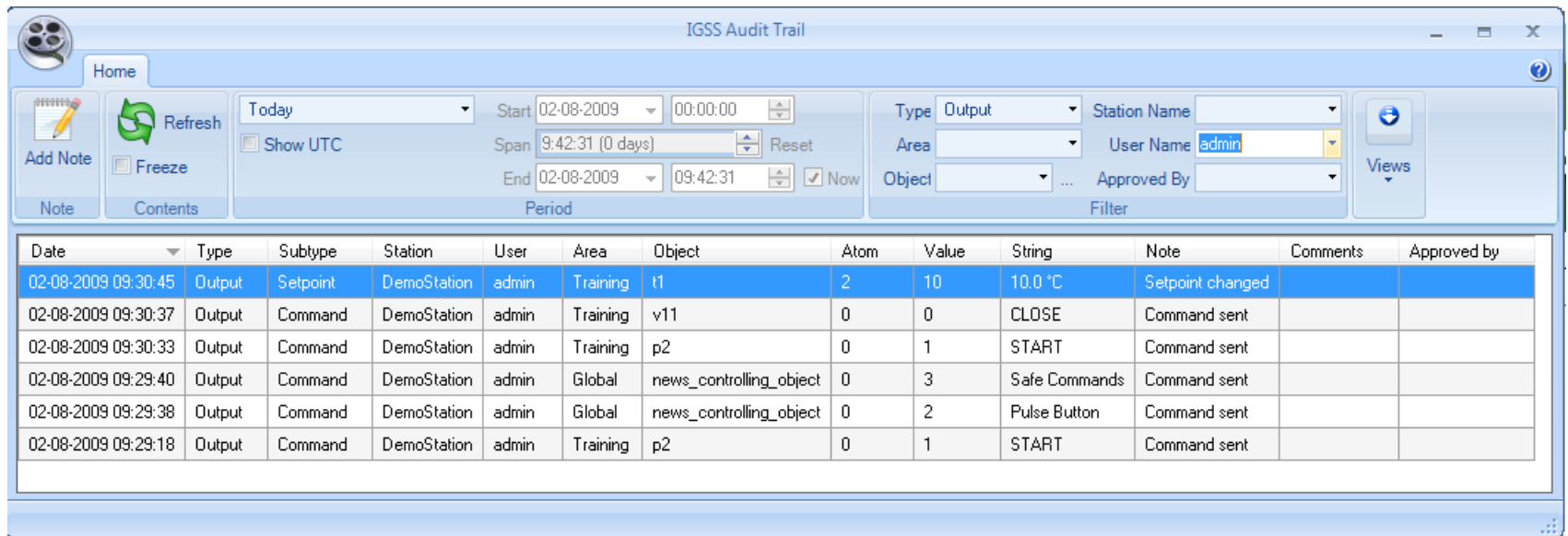


The screenshot shows the IGSS Audit Trail application interface. The 'Home' tab is active. In the filter section, the 'Period' dropdown is set to 'Yesterday', with a start date of 01-08-2009 00:00:00 and an end date of 02-08-2009 00:00:00. The 'Span' is set to 24:00:00 (1 day). The 'Type' dropdown is set to 'Output', and the 'Station Name' is 'DemoStation'. The 'Area' dropdown is set to 'Global', and the 'Object' dropdown is set to 'news_controlling_object'. The 'Filter' section also includes 'User Name' and 'Approved By' fields.

| Date | Type | Subtype | Station | User | Area | Object | Atom | Value | String | Note |
|---------------------|--------|---------|-------------|------|--------|-------------------------|------|-------|---------------|--------------|
| 01-08-2009 22:14:39 | Output | Command | DemoStation | | Global | news_controlling_object | 0 | 4 | Audit Trail | Command sent |
| 01-08-2009 21:52:22 | Output | Command | DemoStation | | Global | news_controlling_object | 0 | 3 | Safe Commands | Command sent |
| 01-08-2009 21:28:19 | Output | Command | DemoStation | | Global | news_controlling_object | 0 | 5 | Panning | Command sent |
| 01-08-2009 21:28:09 | Output | Command | DemoStation | | Global | news_controlling_object | 0 | 7 | More Features | Command sent |
| 01-08-2009 21:27:06 | Output | Command | DemoStation | | Global | news_controlling_object | 0 | 5 | Panning | Command sent |
| 01-08-2009 21:09:16 | Output | Command | DemoStation | | Global | news_controlling_object | 0 | 1 | Dashboard | Command sent |
| 01-08-2009 21:06:54 | Output | Command | DemoStation | | Global | news_controlling_object | 0 | 0 | Layers | Command sent |

Create a filter

1. In the **Home** ribbon under **Filter**, choose **Output** under **Type** and **admin** under **User**.

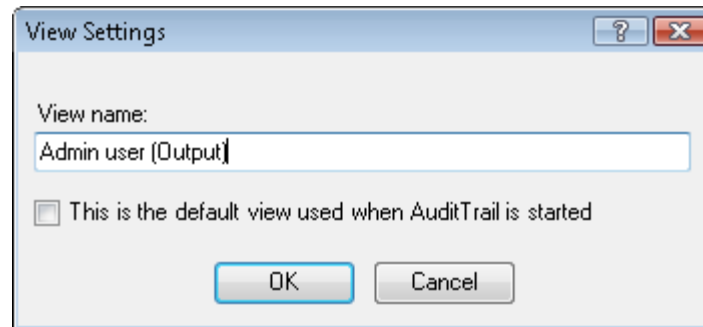


The screenshot shows the IGSS Audit Trail application window. The 'Home' ribbon is active, and the 'Filter' section is configured with 'Type' set to 'Output' and 'User Name' set to 'admin'. The 'Period' section shows a date range from 02-08-2009 00:00:00 to 09:42:31. The main data table displays a list of audit trail entries.

| Date | Type | Subtype | Station | User | Area | Object | Atom | Value | String | Note | Comments | Approved by |
|---------------------|--------|----------|-------------|-------|----------|-------------------------|------|-------|---------------|------------------|----------|-------------|
| 02-08-2009 09:30:45 | Output | Setpoint | DemoStation | admin | Training | t1 | 2 | 10 | 10.0 °C | Setpoint changed | | |
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| 02-08-2009 09:29:18 | Output | Command | DemoStation | admin | Training | p2 | 0 | 1 | START | Command sent | | |

Create a view

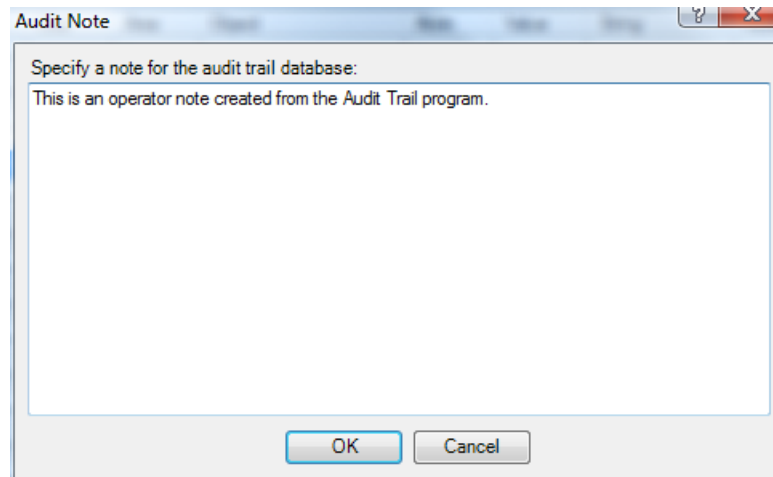
1. In the **Home** ribbon under **Views**, click the **Save as View** button.
2. Name the filter, **Admin user (Output)**.



Create a user note

1. In the **Home** ribbon, click the **Add Note** icon.
2. Enter the note.

This is a general note for the configuration which is not tied to a specific object.



Further information

- Please refer to the Audit Trail help file.

