



**What's New in IGSS V8**

**Speaker Notes**



**INSIGHT  
AND  
OVERVIEW**

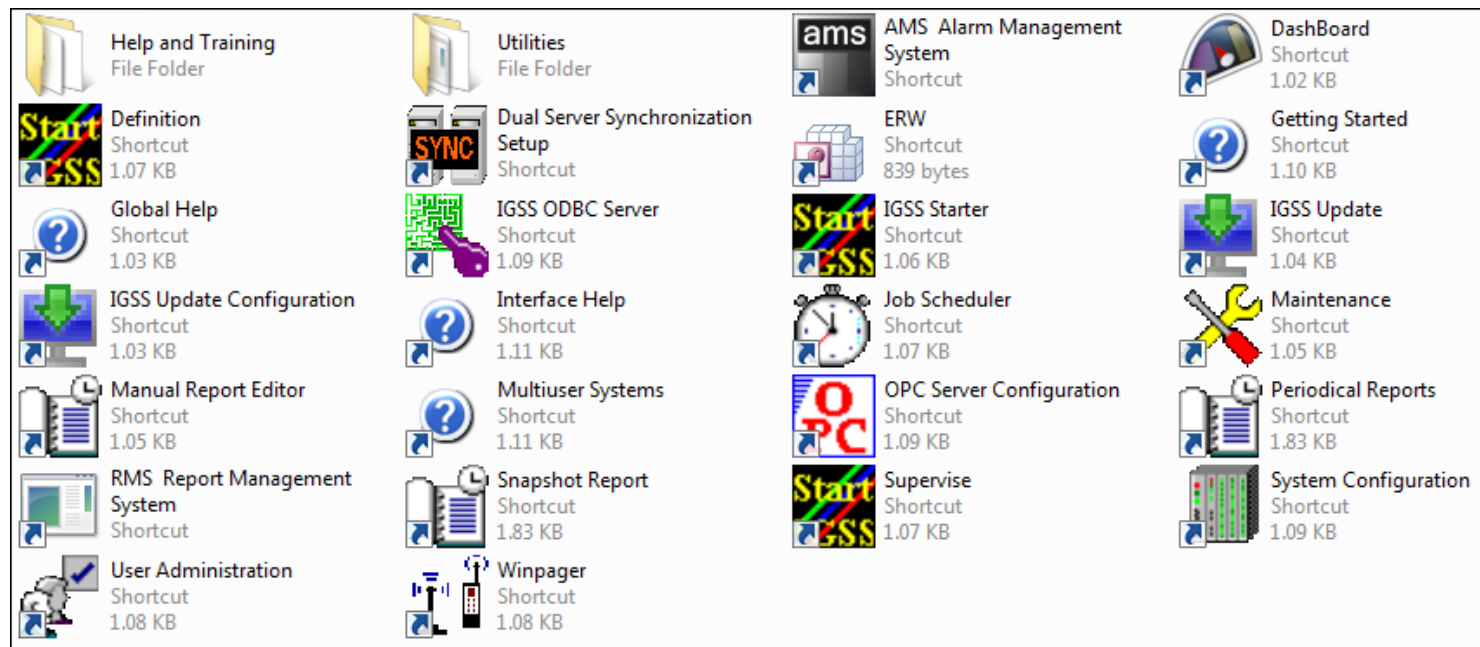


# List of topics

Subject	Time
Start menu changes	Dashboard + Audit Trail (new apps) + Utilities folder
Supervise and Control	IGSS Dashboard + Object Watch + Pulse button + Clear selection of objects
Graphs and Trends	Add objects to graphs on-the-fly
Security and Tracking	Safe Commands + Audit Trail
New Design Tools	Layers and Views + Property Table View at Area level
Multi-Monitor Support	Panning on single-screen stations

# Start menu changes

1. Two new modules have been added – Dashboard and Audit Trail
2. New folder in Start menu – Utilities  
Mention Convert and T7T – Start T7T and explain its use



# Supervise and Control (1)

## IGSS Dashboard

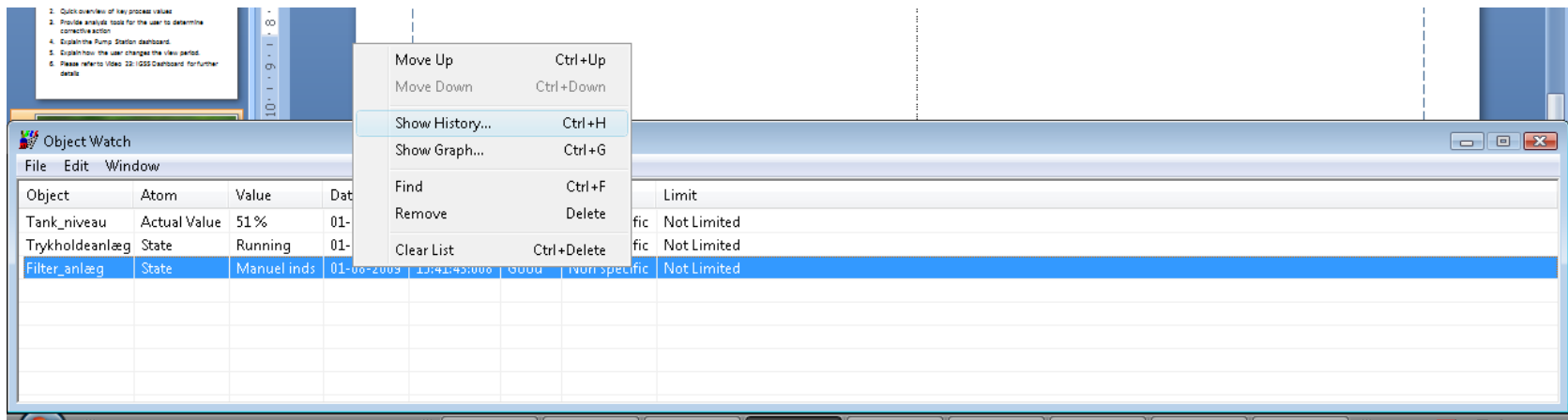
1. Quick overview of process status
2. Quick overview of key process values
3. Provide analysis tools for the user to determine corrective action
4. Explain the Pump Station dashboard.
5. Explain how the user changes the view period.
6. Please refer to Video 23: IGSS Dashboard for further details



# Supervise and Control (2)

## Object Watch

1. Click **Customer Cases > Waste Water**.
2. Click **Water Treatment** button.
3. In the **View** menu, select **Watch Window**.
4. In the **Window** menu, select **Always on Top**.
5. Insert a couple of objects in Object Watch.
6. Show the right-click menu. Choose **Show Graph**.



# Supervise and Control (3)

## Pulse button

1. Click **News in IGSS V8**.
2. Click **Pulse button** button.
3. Works on the button descriptor in IGSS.
4. Hold down the button to activate one command (start).
5. Release the button to activate another command (stop)
6. Tell the user to go to Definition to see how it is set up.

Press down the button to run the pump!  
Release the button to stop the pump!

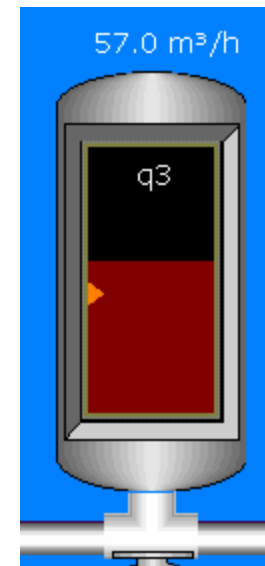
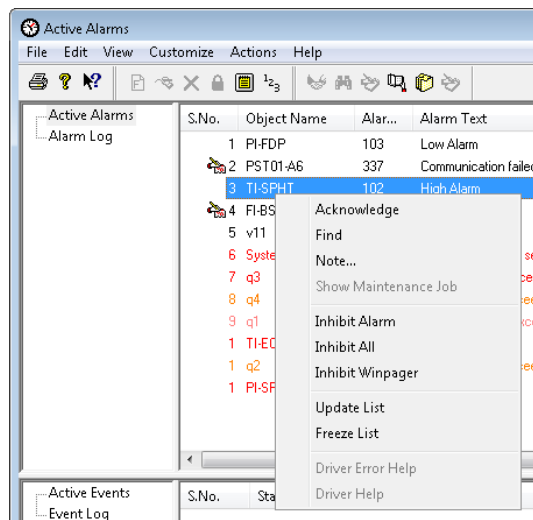
Run Pump



# Supervise and Control (4)

## Clear selection of objects

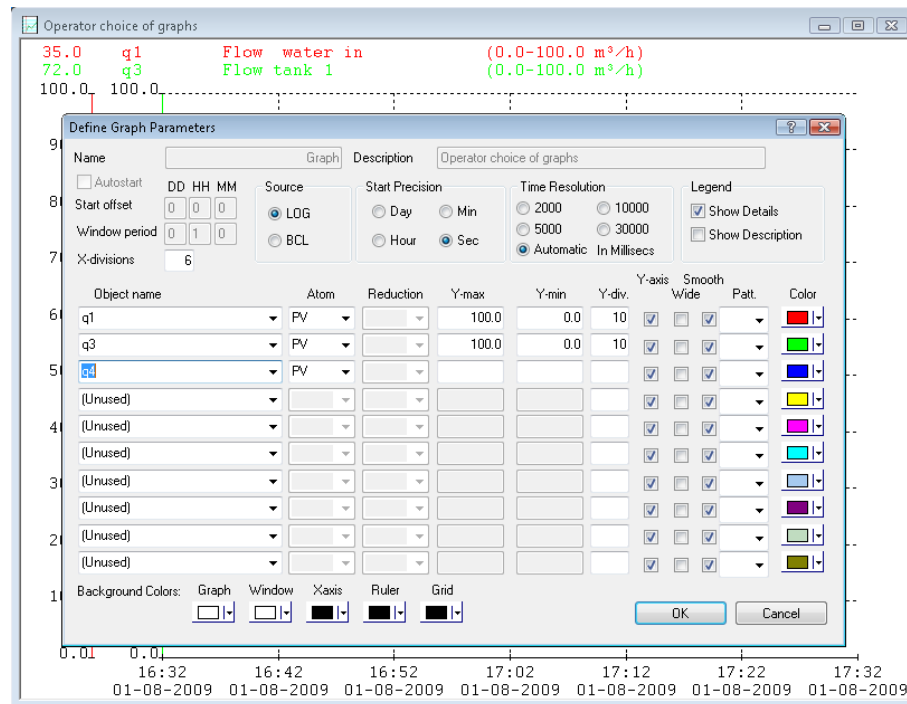
1. Open the Alarm List.
2. Right-click a q1-q4 alarm and select Find.
3. Highlight the selection on the diagram.



# Graphs and Trends

**Add new objects to graphs on the fly**

1. Click **Training > Dairy Diagram**.
2. Select q1 + q3 with a lasso.
3. Create **Dynamic Graph**.
4. Right-click and select **Edit Graph Parameters**.
5. Insert q4 in the graph.



The screenshot shows a software interface with a graph and a dialog box. The graph displays data for 'q1' (Flow water in) and 'q3' (Flow tank 1) over time. The 'Define Graph Parameters' dialog box is open, showing settings for the graph's appearance and data source.

**Operator choice of graphs**

35.0 q1 Flow water in (0.0-100.0 m³/h)  
 72.0 q3 Flow tank 1 (0.0-100.0 m³/h)  
 100.0 100.0

**Define Graph Parameters**

Name: Graph Description: Operator choice of graphs

Autostart

Start offset: DD: 0, HH: 0, MM: 0

Window period: 0 1 0

X-divisions: 6

Source:  LOG  BCL

Start Precision:  Day  Min  Hour  Sec

Time Resolution:  2000  10000  5000  30000  Automatic In Millisecs

Legend:  Show Details  Show Description

Object name	Atom	Reduction	Y-max	Y-min	Y-div.	Y-axis	Smooth	Wide	Patt.	Color
q1	PV		100.0	0.0	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Red
q3	PV		100.0	0.0	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Green
q4	PV					<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Blue
(Unused)						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Yellow
(Unused)						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Magenta
(Unused)						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Cyan
(Unused)						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Purple
(Unused)						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Grey
(Unused)						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Brown

Background Colors: Graph Window X-axis Ruler Grid

OK Cancel

0.01 0.01 16:32 16:42 16:52 17:02 17:12 17:22 17:32  
 01-08-2009 01-08-2009 01-08-2009 01-08-2009 01-08-2009 01-08-2009 01-08-2009

# Security and Tracking (1)

## Safe Commands

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.

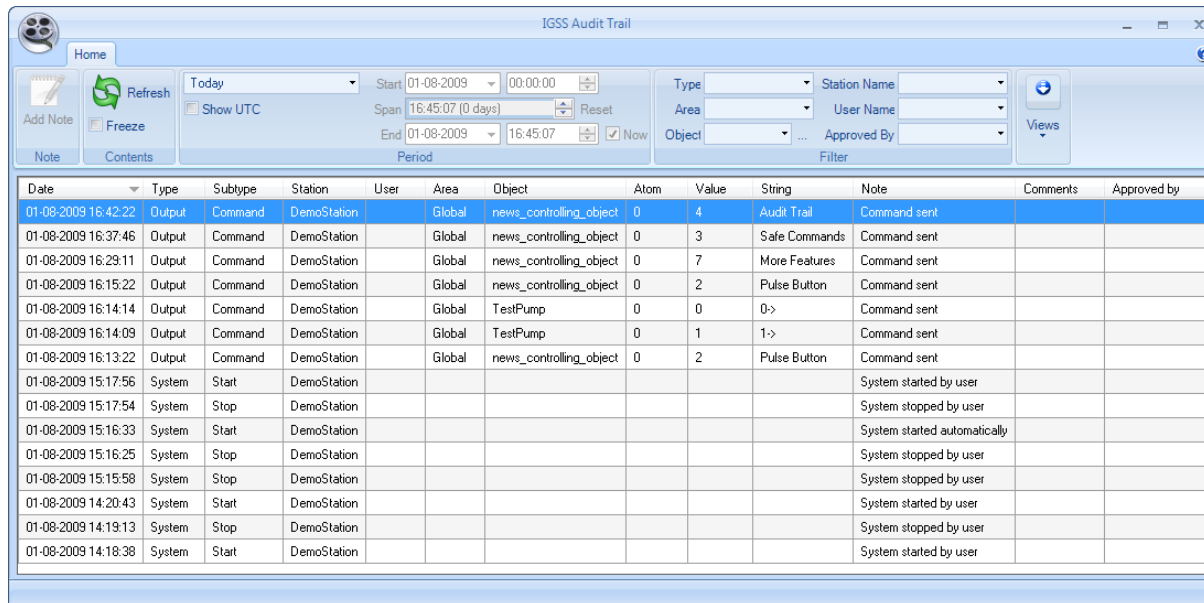
Username = user / admin

Password = user / admin

# Security and Tracking (2)

## IGSS Audit Trail

1. Click News in IGSS V8.
2. Click Audit Trail.
3. Explain that Audit Trail records all user and system activities.
4. Not activated by default in Demo.
5. An SQL Server Station must be configured to use it.
6. More details in Video # 22.



The screenshot shows the 'IGSS Audit Trail' application window. It features a toolbar with 'Refresh', 'Add Note', and 'Freeze' buttons. The main area contains a table with columns for Date, Type, Subtype, Station, User, Area, Object, Atom, Value, String, Note, Comments, and Approved by. The table lists various system events, including commands sent and system starts/stops.

Date	Type	Subtype	Station	User	Area	Object	Atom	Value	String	Note	Comments	Approved by
01-08-2009 16:42:22	Output	Command	DemoStation		Global	news_controlling_object	0	4	Audit Trail	Command sent		
01-08-2009 16:37:46	Output	Command	DemoStation		Global	news_controlling_object	0	3	Safe Commands	Command sent		
01-08-2009 16:29:11	Output	Command	DemoStation		Global	news_controlling_object	0	7	More Features	Command sent		
01-08-2009 16:15:22	Output	Command	DemoStation		Global	news_controlling_object	0	2	Pulse Button	Command sent		
01-08-2009 16:14:14	Output	Command	DemoStation		Global	TestPump	0	0	0->	Command sent		
01-08-2009 16:14:09	Output	Command	DemoStation		Global	TestPump	0	1	1->	Command sent		
01-08-2009 16:13:22	Output	Command	DemoStation		Global	news_controlling_object	0	2	Pulse Button	Command sent		
01-08-2009 15:17:56	System	Start	DemoStation							System started by user		
01-08-2009 15:17:54	System	Stop	DemoStation							System stopped by user		
01-08-2009 15:16:33	System	Start	DemoStation							System started automatically		
01-08-2009 15:16:25	System	Stop	DemoStation							System stopped by user		
01-08-2009 15:15:58	System	Stop	DemoStation							System stopped by user		
01-08-2009 14:20:43	System	Start	DemoStation							System started by user		
01-08-2009 14:19:13	System	Stop	DemoStation							System stopped by user		
01-08-2009 14:18:38	System	Start	DemoStation							System started by user		

# New Design Tools (1)

## Multifunctional diagrams with Layers and Views

1. Click **News** in **IGSS V8**.
2. Click the **Layers** button. Notice that only information related to layers is now shown.
3. Each button activates a diagram view where only the specified layers will appear.
4. The user can activate views from the **View** menu or ..
5. The views can be controlled directly from the PLC with a digital object.
6. Right-click in the New Features in IGSS V8 group to show the states of the digital object, **news\_controlling\_object**.

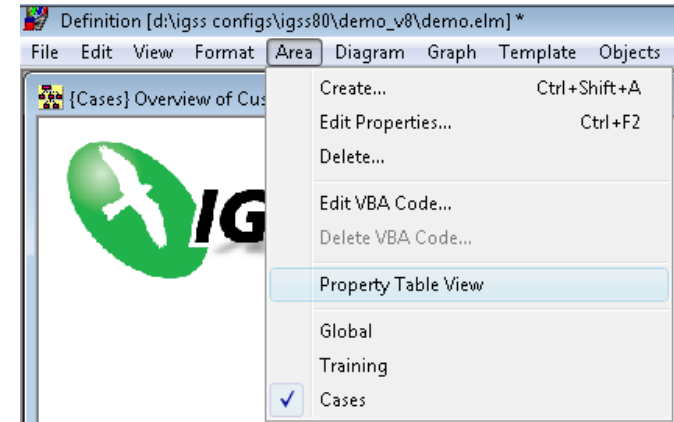


*Further details in video # 24.*

# New Design Tools (2)

## Change properties for many objects at area level

1. All objects in an entire area can be manipulated in one operation.
2. Open the **Training** area.
3. Open the **Property Table View** and click on the **Atom** node.
4. Create a filter as "q\*".
5. Change the node number from 0 to 2 for all atoms.

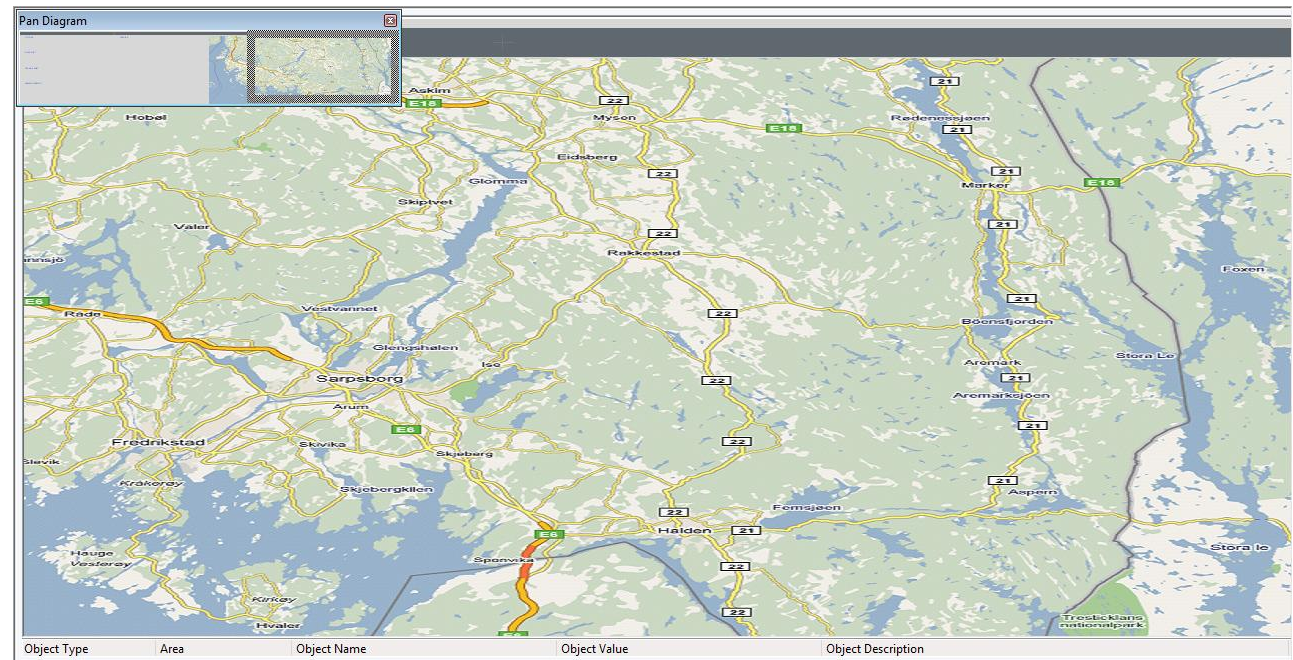


Object name	Area	Atom	Defined	In	Out	Driver	Node
q*							
q4	Training	High Alarm	Yes	No	No	7TMODGPRS (DemoStation)	0
q4	Training	High Limit	Yes	No	No	7TMODGPRS (DemoStation)	0
q4	Training	Actual Value	Yes	No	No	7TMODGPRS (DemoStation)	0
q4	Training	Set Point	Yes	No	No	7TMODGPRS (DemoStation)	0
q4	Training	Low Limit	Yes	No	No	7TMODGPRS (DemoStation)	0
q4	Training	Low Alarm	Yes	No	No	7TMODGPRS (DemoStation)	0
q4	Training	Alarm-In	No	No	No	7TMODGPRS (DemoStation)	0
q4	Training	Alarm-Out	No	No	No	7TMODGPRS (DemoStation)	0
q4	Training	High Scale	No	No	No	7TMODGPRS (DemoStation)	2

# Multi-Monitor Support

## Panning

- This option is only relevant for multi-screen applications.
- Navigate wide diagrams designed for multi-monitors from a single monitor IGSS station.
- In the View menu, choose **Show Pan Control**.
- Locate the pan control.
- Select the area of the diagram you want to view on your single monitor.





# More new features ...

For a detailed description of all new features in IGSS V8, please refer to this webpage

[News in IGSS V8](#)

<http://www.7t.dk/igss/default.asp?showid=431>