



IGSS Maintenance

Speaker Notes



**INSIGHT
AND
OVERVIEW**

Contents of this lesson



Topics:

- **The Maintenance module**
- **The Maintenance list**
- **Creating maintenance jobs**
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The Maintenance module



- Allows staff to create maintenance jobs to ensure timely maintenance on the process components
- Show maintenance alarms to ensure that the staff will perform the maintenance job on time
- The Maintenance module is included in the Standard version of IGSS – no extra costs.



The Maintenance List (Demo)



- **Job Handler** tab for the end user
- **Configuration** tab for the system designer

Maintenance

Job Handler Configuration

Acknowledge Complete Restart Refresh List Print Open Job Note View Description Find in Supervise

Maintenance Job View Job Documents Search

View Filters

Maintenance Jobs Due
All Maintenance Jobs

	Area Name	Object Name	Object description	Title	Mnt Type	Started	Activated	Acknowledged	Completed	Progress	Due In	Interval
▶	Cases	CS.M.124	Net pump 2	CS.M.124 - Annual ...	Periodical	02-07-2010 09:45:04	12-07-2010 10:57:35	Pending...	12-07-2010 10:57:48	26,9%	266 days	52 week
	Cases	CS.M.121	Net pump 1	CS.M.121 - Annual ...	Periodical	02-07-2010 10:07:00	12-07-2010 10:57:35	12-07-2010 10:57:35	12-07-2010 10:57:48	26,9%	266 days	52 week
	Cases	CS.M.121	Net pump 1	CS.M.121 - Pump r...	Used time	02-07-2010 09:53:56				1,4%	7441,2 ...	15000 h
	Cases	CS.M.124	Net pump 2	CS.M.124 - Pump r...	Used time	15-07-2010 08:44:51				0,0%	-	15000 h
	Cases	CS.MV.202	Motor valve for net pump 2	CS.MV.202 - Valve ...	Changes	13-07-2010 10:12:54				0,0%	242576...	50000 c
	Cases	CS.MV.201	Motor valve for net pump 1	CS.MV.201 - Valve ...	Changes	13-07-2010 10:13:24	13-07-2010 10:25:09			100,0%	Now	50000 c

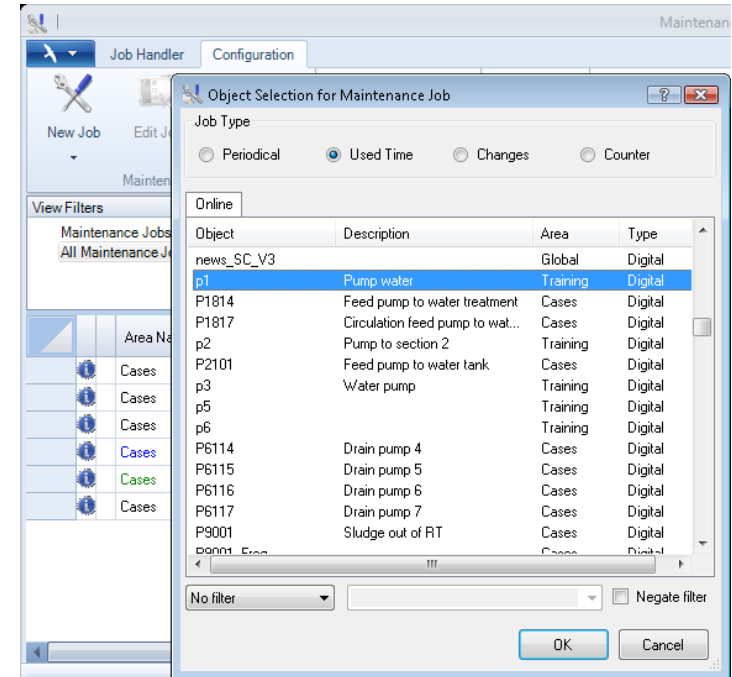
Acknowledged job: CS.M.124 - Annual maintenance check

Measured : 11:02:28

Creating a Maintenance job



1. On the **Configuration** tab, click **New Job**.
2. Under **Job Type**, select **Used Time**.
3. In the list of objects, select the pump **p1**.
4. Click **OK**.



Type	Description
Periodical	Fixed maintenance interval
Counter	Fixed value or counter
Used Time	Hours of operation (digital only)
Changes	Number of state changes (digital only)

Define the maintenance job



1. In the **Alarm fired when job is due** field, select the alarm to link to the maintenance job. This triggers that the reminder appears in both the Maintenance and the Alarm List.
2. Click the **Use Alarm Text** button to insert it as the title.
3. Specify the maintenance interval.
4. Select the **ON** state. Only this state will be monitored.
5. Enter the next interval in the **Next job after** field.
6. Enter instructions on the **Job Description** tab.
7. Link to an electronic manual on the **File** tab.

This screenshot shows the 'Edit Used Time Job' dialog box with the 'Job Description' tab selected. The title is 'Calibrate pump'. The 'Maintenance interval' is set to 500 Hours. The 'When job completed' section has 'Next job after' selected with a value of 1000 Hours. The 'States (1)' list shows 'ON' selected. The 'Alarm fired when job is due' field is set to '7000 : Calibrate pump'. The 'Job Description' text area contains the instruction 'Find the calibrator in building A121'. The 'File' tab is also visible.

This screenshot shows the 'Edit Used Time Job' dialog box with the 'File' tab selected. The title is 'Calibrate pump'. The 'Maintenance interval' is 500 Hours and 'Next job after' is 1000 Hours. The 'States (1)' list shows 'ON' selected. The 'Alarm fired when job is due' field is '7000 : Calibrate pump'. The 'File' tab is active, showing a 'Location' field with the path 'C:\IGSS90\IGSS\eng\QuickStart.pdf' and a 'View' button. The 'Job Description' tab is also visible.

Handling maintenance alarms



The screenshot shows the 'Maintenance' software window. The top menu bar includes 'Job Handler' and 'Configuration'. Below the menu is a toolbar with icons for 'Acknowledge', 'Complete', 'Restart', 'Refresh List', 'Print', 'Open Job Note', 'View Description', 'View Job File', and 'Find in Supervise'. A tooltip 'Set Selected Job as Completed.' is visible over the 'Complete' icon. Below the toolbar is a 'View Filters' section with 'Maintenance Jobs Due' and 'All Maintenance Jobs' options. The main area is a table with columns: Area Name, Object Name, Object description, Title, Mnt Type, Started, Activated, Acknowledged, Completed, Progress, and D Ir. The table contains several rows of maintenance jobs with their respective progress percentages.

	Area Name	Object Name	Object description	Title	Mnt Type	Started	Activated	Acknowledged	Completed	Progress	D Ir
	Training	p1	Pump water	Calibrate pump	Used time	18-10-2010 11:17:41	18-10-2010 11:37:36	18-10-2010 11:37:56	18-10-2010 11:...	0,1%	1,
	Cases	CS.M.124	Net pump 2	CS.M.124 - Pump r...	Used time	15-07-2010 08:44:51				0,0%	-
	Cases	CS.MV.201	Motor valve for net p...	CS.MV.201 - Valve ...	Changes	13-07-2010 10:13:24	13-07-2010 10:25:09			100,0%	N
	Cases	CS.MV.202	Motor valve for net p...	CS.MV.202 - Valve ...	Changes	13-07-2010 10:12:54				0,0%	24
	Cases	CS.M.121	Net pump 1	CS.M.121 - Annual ...	Periodical	02-07-2010 10:07:00	12-07-2010 10:57:35	12-07-2010 10:57:35	12-07-2010 10:...	26,9%	26
	Cases	CS.M.121	Net pump 1	CS.M.121 - Pump r...	Used time	02-07-2010 09:53:56				1,4%	74
	Cases	CS.M.124	Net pump 2	CS.M.124 - Annual ...	Periodical	02-07-2010 09:45:04	12-07-2010 10:57:35	12-07-2010 10:57:35		29,7%	25

Measured : 11:41:00


1. Select the job in the list.
2. Click **View Description** to view text instructions.
3. Click **View Job File** to view linked files.
4. Click **Acknowledge** (works in both Alarm and Maintenance)
5. Click **Complete** when job has been done.

Maintenance jobs in Alarm List



- Clearly marked with Maintenance icon
- **Acknowledge** in Alarm List or Maintenance List
- **Complete** only available in the Maintenance List

The screenshot shows a software window titled "Active Alarms" with a menu bar (File, Edit, View, Customize, Actions, Help) and a toolbar. On the left, there is a tree view with "Active Alarms" and "Alarm Log". The main area is a table of active alarms. The table has columns for S.No., Alar..., Priority, Area ..., Object Name, Alarm Text, Start Date, Start Time, Acknowledge ..., and Acknowledge ... A small maintenance icon (a crossed wrench and screwdriver) is visible next to the 7th row of the table.

S.No.	Alar...	Priority	Area ...	Object Name	Alarm Text	Start Date	Start Time	Acknowledge ...	Acknowledge ...	Et
1	321	5	Global	Node.0.81.0	Communication error on node 0 - MD...	18-10-2010	11:51:02:003			
2	3262	5	Cases	LT6151	High Level in Tower	18-10-2010	11:51:00:008			
3	102	5	Cases	TI-EQW	High Alarm	18-10-2010	11:51:00:008			
4	5842	4	Cases	LT6156	Højt niveau	18-10-2010	11:50:53:007			
5	102	5	Cases	PI-SPHT	High Alarm	18-10-2010	11:50:52:003			
6	2051	6	Cases	V6137	Running time error	18-10-2010	11:50:48:014			
	7	7000	4	Training	p1	Calibrate pump	18-10-2010	11:49:23:843		
8	212	4	Training	q1	High alarm level exceeded	18-10-2010	11:49:09:010			
9	211	9	Training	q2	Low alarm limit exceeded	18-10-2010	11:47:54:006			
9	211	9	Training	q4	Low alarm limit exceeded	18-10-2010	11:43:15:017			
1	210	12	Training	q3	High alarm limit exceeded	18-10-2010	11:42:21:018			
1	21	4	Global	Driver	Comm. port problem on output	30-09-2010	14:55:15:942			
1	1069	15	Cases	VTHBP=R1=C1...	Vakuumanlæg: Temperatur kølevand ...	30-09-2010	14:38:18:000			
1	205	7	Training	v11	Valve blocking	30-09-2010	14:38:14:011	30-09-2010	14:38:14:011	
1	102	5	Cases	FI-BSF	High Alarm	30-09-2010	14:38:11:012			
1	102	5	Cases	TI-SPHT	High Alarm	30-09-2010	14:38:11:012			
1	337	5	Training	PST01.AE	Communication failed	30-09-2010	14:38:08:002			

For Help, press F1

Try it yourself ...



Exercise: Create Maintenance Jobs

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