



Alarm User Guide
IGSS Version 9.0

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Chapter 1: The Alarm List

1.1 Introducing the Alarm List

Process alarms and 'IGSS Alarm'

IGSS Alarm is a fast and powerful alarm handling routine which is an integral part of the IGSS process control system. This is an enormous advantage to both the plant operator and the system designer as all interfacing between alarm management and process supervision and control functions is dealt with automatically by IGSS.

Your plant signals an alarm situation whenever the control process generates an error which may be some electrical equipment not functioning properly, or some measured values stepping out of the predefined limits. Thus it could for instance happen that the water level of a tank level rises dangerously high or a valve did not close properly where it should have done. In all these cases, alarm signals of higher or lesser importance are registered by IGSS and indicated to the operator in various ways:

- The alarm counter, which is a [special icon](#) displayed on the screen in the taskbar or in a user-defined spot, is automatically incremented with each new alarm and thus indicates the number of unacknowledged alarms.
- The symbol in the process screen which represents the faulty plant component changes color or begins to flash.
- A text message explaining the nature of the alarm appears in the [message line](#) of the currently displayed process screen.
- The alarm and all its relevant information is recorded in two lists
 - the Active Alarms
 - the Alarm Log

for evaluation, archiving, reporting and further processing.

- Depending on its severity, the alarm may be announced by an acoustic signal and service personnel may be called over the paging system.

Below the **Alarm List**, you will find the **Event List**. [Click here](#) for further information.

How is an alarm identified ?

A process alarm is primarily identified by its [alarm number](#) .

Each alarm number is linked to a specific plant component - an object - and thus indicates that this particular object is in the state of alarm.

All characteristics of that alarm - priority, color, alarm text, acknowledged or not acknowledged - are stored under this number.

Alarm characteristics

Apart from the identifying alarm number, each alarm is given a set of attributes which describe nature and severity of the process alarm:

- Priority, from 1 to 255
- Date and time of alarm occurrence
- Date and time of alarm end
- Time of alarm acknowledgement
- Name of the faulty plant object
- Name of the plant area to which the object belongs
- Worst process value measured for the faulty plant object
- Node (PLC) and driver identification
- Name of the user who has acknowledged the alarm

These details are automatically recorded in both the alarm list and the alarm log.

The Alarm icon



Special icon permanently displayed during process supervision for quick operator access to the **Alarm** program and the alarm list. Double click on the alarm icon in order to open the alarm list on the screen.

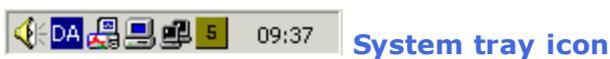
The meaning of the counter in the alarm icon is defined during system design. It may indicate:

- a. the number of unacknowledged alarms (default setting)

OR

- b. the number of process objects that are in the state of alarm.
- The alarm icon automatically adopts the color of the pending alarm with the highest priority so that you are always informed about the severity of the alarms still awaiting acknowledgement and correction.

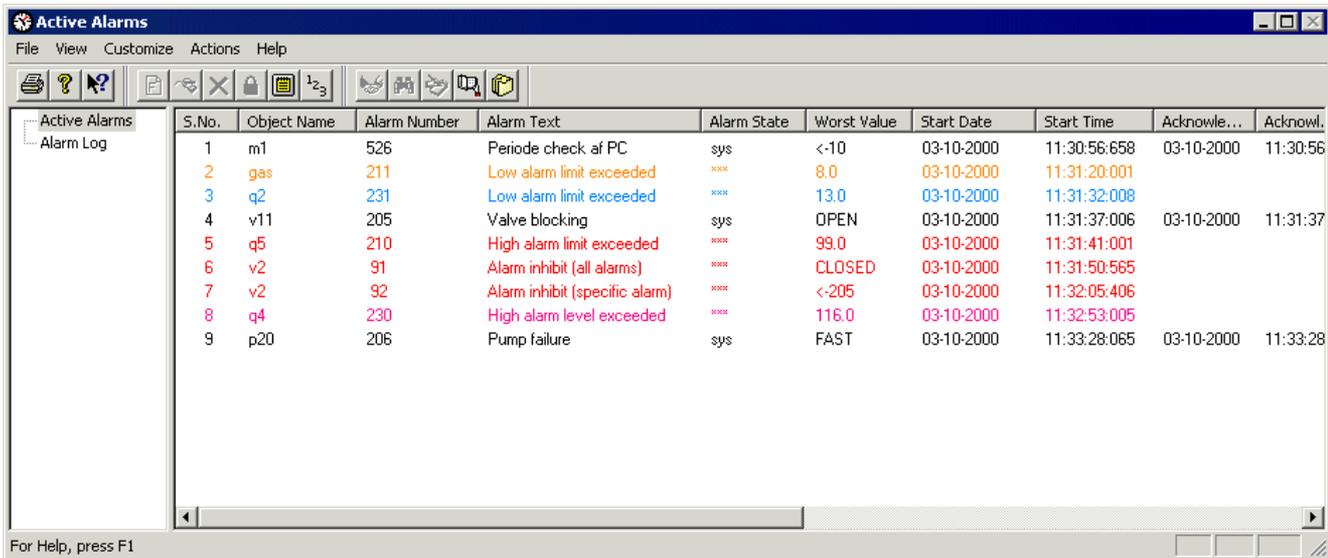
The alarm icon is permanently displayed, either in the taskbar in the bottom line of the screen, provided that the taskbar is enabled for your application, or in a predefined spot on the screen, irrespective of which process diagram is currently being displayed.



The alarm icon is also displayed in the system tray.

The Alarm List

Click the picture for further information



Active Alarms versus Alarm Log

Every alarm triggered in the plant and defined as such during project design is principally registered in two different lists which are generated automatically by IGSS: the ALARM LIST and the ALARM LOG.

These lists provide the operator with important information about the alarm situation.

Active Alarms	Alarm Log
contains all pending alarms, i.e. those alarms that are currently active.	Contains ALL process alarms, including those that have been acknowledged or whose cause has in the meantime been corrected.
Alarms are automatically deleted from the list when the alarm situation has ended AND the alarm has been acknowledged. Alarms that are acknowledged but whose cause has not yet been eliminated, or alarm situations that have been corrected but not yet acknowledged, remain in the alarm list, i.e. they are considered as being active or pending.	Alarms are not automatically deleted from the alarm log, irrespective of their 'age'.
The alarm list is a subset of the alarm log.	The alarm log contains the pending alarms registered in the alarm list AND the 'old' alarms.
You may define your own sorting and filter criteria and thus exactly define which type of alarms you want to have displayed in the alarm list and in which format and layout.	You yourself define the period of time to be covered by the alarm log. You may for instance decide to call up an alarm log that shows all

Active Alarms	Alarm Log
All edit functions offered in the menu bar (filter, sort, find, note, freeze, delete, update etc.) can be applied to the alarm list.	alarms - acknowledged or not – from the last 24 hours. All edit functions offered in the menu bar (filter, sort, find, note, freeze, delete, update etc.) can be applied to the alarm log.

1.2 Viewing the Alarm List

Open the alarm list or the alarm log

There are THREE ways to open the ALARM LIST:

Using the process screen.

1. In a process screen, a faulty object might have started flashing or has changed its color to draw your attention to the alarm situation.
2. Place the cursor on the object.
3. Press the right mouse button.
4. The list of active alarms is opened; you can now find out more about the alarm situation.

Using the [alarm icon](#)

1. Click the alarm icon.
2. This directly opens the alarm list.

Using the Menu Bar of IGSS Alarm

1. You are in **IGSS Alarm**.
2. In the Menu Bar, click **View** → **Tree View**.
3. The left section of the screen will show you the tree **Active Alarms** and **Alarm Log** together with the currently set filter criteria.
4. You can now toggle between [Active Alarms and Alarm Log](#) by simply clicking the relevant option. The title bar indicates which list is just being displayed.

- The ALARM **LOG** can only be opened using the menu bar functions **View** → **Tree View**.

Interpret the contents of the list

The complete alarm list and alarm log provide the following information about the process alarm:

- S.No. = [Sequence Number](#)
- [Start Date](#)
- [Start Time](#)
- [Acknowledge Time](#)

- [End Time](#)
- [Object Name](#)
- [Worst Value](#)
- [Alarm Text](#)
- [Area Name](#)
- [Object Description](#)
- [Value](#)
- [Priority](#)
- [Alarm Number](#)
- [Acknowledge Date](#)
- [End Date](#)
- [Alarm State](#)
- [Driver Id.](#)
- [Node Id.](#)
- [User name](#)
- [The icons](#)

- You can adjust the information displayed or printed in the alarm list or log according to your own requirements. Not all of the above details need to be included in the list.

See also

1.3 Predefined System Alarms

1.4 Acknowledging Alarms

Acknowledge alarms in the alarm list

Procedure

1. In the Alarm List, select the alarm message you wish to acknowledge.
2. In the function menu, select **Actions** → **Acknowledge**.

First Shortcut

1. You are inside the Alarm List.
2. Click on the alarm message which you wish to acknowledge.
3. Click the right mouse button.
4. This opens the **Actions** function box and places it immediately next to the selected message so that you can now conveniently activate the **Ack** function.

Second Shortcut

1. You are inside the Alarm List.
2. Click on the alarm message which you wish to acknowledge.
3. Double click on the left mouse button. The alarm is acknowledged.

See also

Acknowledge alarms in the process diagram

You are in the online supervision mode and the symbol of a process object starts flashing, which means it is in the state of alarm.

Procedure

1. Click on the object that indicates an alarm state.
2. In the menu bar, go **Edit** → **Acknowledge alarm**.
3. The alarm is now acknowledged.

Shortcut

1. Right-click on the object that indicates an alarm state.
2. A popup menu appears next to the object offering you the **Acknowledge** command.
3. Click **Acknowledge**. The alarm is now acknowledged.

See also

1.5 Alarm Instructions and Notes

View the operator instruction

Background information

You can view an instruction for a given alarm registered in the alarm list or the alarm log, provided that an operator instruction has been specified by the development engineer during system design.

Procedure

1. In the alarm list or alarm log, click on the alarm whose operator note you wish to display.
2. In the function menu, select **Actions** → **Note**.

3. The dialogue which appears on the screen provides two tabs: 
4. Select **Alarm Text** to display the predefined instructions to the operator.

Shortcut

1. You are inside the list and a message line is selected.
2. Click the right mouse button.
3. This opens the **Actions** function box and places it immediately next to the selected message so that you can now conveniently activate the **Note** command, and open the **Alarm Text** tab.

See also

Write an alarm note

Background information

You can enter your own comments about an alarm situation. This may be useful if you wish to inform your colleagues, possibly the operator of the next shift, how you have dealt with the situation and which measures you have taken to eliminate the problem.

Procedure

1. With the mouse, select the alarm in the **Active Alarms** list for which you wish to write a comment.
2. Right click on the alarm and select **Note...** or go to the **Actions** menu and select **Note**.
3. The dialogue which appears on the screen displays two tabs: 
4. Select **Alarm Note**.
5. The text field underneath the **Alarm Note** tab is where you can enter your text.
6. After you finish entering your text Save with.

•

Click on  if you wish to print out your comment together with alarm information.

See also

1.6 Updating and Freezing the Alarm List

Update the list

Background information

The process values shown in the **Alarm List** and **Event List** are not continuously refreshed. They are updated whenever the **Worst Value** of the object value has changed, or at specific intervals set by the development engineer during system design. **IGSS** therefore provides an **Update** facility so that you can call up fresh process values whenever needed.

Procedure

1. In the **Tree View**, select the list you wish to update.
 2. Move into the selected list in the right-hand section of the screen.
 3. In the Menu Bar, click **Actions → Update**.
 4. The entire list is updated.
- For the options of the **Actions** menu to become available, you must have moved the cursor out of the **Tree View** into the alarm list or alarm log !

Shortcut

1. You are inside the list.
2. Simply click the right mouse button.
3. This opens the **Actions** function box so that you can now conveniently activate the **Update** function.

See also

Freeze the list

Background information

In situations where you have a cluster of alarms in rapid succession it might be useful to freeze the list for a short period at its current status. The freeze period is predefined by the development engineer during system design and cannot be changed by the operator.

Default setting: 30 seconds

Procedure

1. In the **Tree View**, select the list you wish to freeze.
 2. Move into the selected list in the right-hand section of the screen.
 3. In the **Actions** menu, select **Freeze**.
- For the options of the **Actions** menu to become available, you must have moved the cursor out of the **Tree View** into the **Alarm List** or the **Event List**.

Shortcut

1. You are inside the list and a message line is selected.
 2. Click the right mouse button.
 3. This opens the **Actions** function box so that you can now conveniently activate the **Freeze** function.
- A seconds counter in the screen title bar indicates the 'frozen' status and the number of seconds still to go.

See also

1.7 Customizing, Sorting and Filtering

Change the list format

Rearrange the columns

1. Open the **Alarm List** and make sure focus is on the right side of the list by clicking it with the mouse cursor.
 2. In the **Customize** menu, select **Alarm List Format....**
 3. The **Configure Columns** dialogue appears on the screen.
 4. The columns are arranged in the order shown in the **Columns Displayed** list.
 5. To change that order, select the title you wish to advance to the left or move to the right, and press **Move Up** or **Move Down** respectively.
 6. Save your settings with **OK**; the **Alarm List** or **Event List** will now rearrange its columns accordingly.
- With **Default** and **OK** you can at any time reset the format to its [original status](#). This may be the IGSS default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

See also

Rename a column

1. In the **Customize** menu, select **Alarm List Format....**
2. The **Configure Columns** dialogue appears on the screen.
3. In the **Columns Displayed** list, select the column whose title you wish to rename.
4. The selected name will appear in the window immediately above the list.



5. Now, overwrite the 'old' name by the new one and confirm with OK.
- With **Default** and **OK** you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

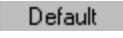
See also

Remove columns

Using menu functions

1. In the **Customize** menu, select **Alarm List Format....**
2. The **Configure Columns** dialogue appears on the screen.
3. In the **Columns Displayed** list, select the title you wish to delete.
4. Click on  to delete the title.
5. Confirm with .

Directly in the list

1. Click on the right-hand limiting line of the column you wish to remove, using the left mouse button and keep the mouse button pressed.
 2. The cursor changes its shape to a cross and highlights the vertical column delimiter.
 3. Keep the left mouse button depressed and drag the cursor to the left until the right line covers the left line. In this way, the width of the column has been reduced to nothing and the column is removed from the list.
- With  and  you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.
 - Only a column which was removed (collapsed) directly in the list by dragging its right-hand limiting line to the left until clearance, can be retrieved again directly in the list, without using menu functions.

The first method of removing columns is the more permanent layout change. It can only be undone by using the **ADD** button in the **Configure Columns** dialogue.

See also

Add columns

Using menu functions

1. In the **Customize** menu, select **Alarm List Format..**
2. The **Configure Columns** dialogue appears on the screen.
3. In the **Available Columns** list, select the column title you wish to add.
4. Click on  to insert the name in the **Columns Displayed** list.
5. Confirm with .

- With and you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

Directly in the list

1. Place the crosshair cursor onto the limiting line of the collapsed column and drag it to the right until the retrieved column has reached the width required.
- Only a column which was removed (collapsed) directly in the list by dragging its right-hand limiting line to the left until clearance, can be retrieved again directly in the list, without using menu functions.

See also

Change the column width

Using menu functions

1. In the **Customize** menu, select **Alarm List Format**.
2. The **Configure Columns** dialogue appears on the screen.
3. In the **Columns Displayed** list, select the title of the column whose width you wish to change.
4. The current width of this column is displayed in the **Width** field.



5. Enter a new value to change the size of the column and confirm with .

Directly in the list

1. Click on the right-hand edge of the column whose size you wish to reduce or widen, using the left mouse button and keep the mouse button pressed.
 2. The cursor changes its shape to a cross and highlights the vertical column delimiting line.
 3. Maintaining the left mouse button depressed, drag the line to the left or to the right.
 4. Release the mouse button as soon as you have obtained the required column width.
- With and you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

See also

Save the selected list format as default

Save the list format as the default format

Background information

A specific format of the alarm list can be saved in order to act as the default format for all subsequent display operations. The characteristics of this format are defined in the **Configure Columns** dialogue. As a result, any settings that might be carried out in the **Configure Columns** dialogue at later stages can be conveniently reset to the preset default format by simply pressing the **Default** button of this dialogue.

Procedure

1. Go **Customize → Alarm List Format ...**. The **Configure Columns** dialogue appears.
 2. Set the format of the alarm list as required.
 3. Confirm with **OK**.
 4. Now, select **Customize → Save Format as Default** and activate this command with a mouse click. The format set in the **Configure Columns** dialogue will now act as the default format. As a result, pressing the **Default** button in the **Configure Columns** dialogue will have the effect of reverting all format changes to the preset default format.
- If no user-specific default format was set, or if the system designer has disabled the **Save Format as Default command**, pressing the **Default** button in the **Configure Columns** dialogue restores the [IGSS default format](#).

See also

Sort the alarm messages

Change the sorting order in the list

There are two different ways to sort the lines of the list and define the sorting criteria:

- using the functions of the **Customize** menu
 - directly in the list
- The alarm list is displayed and you wish to have all alarms sorted according to their time of occurrence so that the most recent alarm is shown at the top of the list. This information is registered in the [Start Time](#) column.

Using menu functions

1. In the **Customize** menu, select the edit function **Set Sort Order ...**
2. The **Sorting Order** dialogue appears on the screen.
3. In the table, click on the **Start Time** entry.
4. Select **Descending** and keep on clicking on **Move Up** to step by step move **Start Time** to the top of the list.
5. Confirm with **OK**
6. The alarm messages are now sorted so that the most recent alarms are at the top of the list and the oldest alarms are displayed at the end of the list.

7. Generally, you define the priorities of the sorting criteria by sorting the column titles in the table using **Move Up** and **Move Down**, and for each sorting criterion you decide whether it is to be applied in **Ascending** or **Descending** order.

Directly in the list

You can change the sorting order directly in the alarm list (or: alarm log) by clicking on the column title you wish to use as sorting criterion. For our example:

1. Click on the column title **Start Time**.
 2. You will see that the list is immediately sorted in chronological order, i.e. the most recent alarms are shown on the top of the list.
 3. If you click once again on **Start Time**, the order is reversed and the 'oldest' messages are moved to the top of the list.
- The default sorting criterion is: [Alarm State](#)
 - With **Default** and **OK** you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

See also

Filter out specific information from the list

Define a new filter

The **Customize** menu provides THREE functions that help you to define and edit filter criteria for filters in the **Alarm List** or **Event List**: **New Filter** **Edit Filter** and **Delete Filter**.

- To set a new filter, you must have selected **Active Alarms/Alarm Log** or **Active Events/Event Log** in the **Tree View** in the left-hand section of the screen.
- You wish to see all acknowledged messages that have occurred in the period from April 10 to April 15, 1997. We will define and save three filter conditions and logically link them by an AND operator. This filter criterion is then saved under the name of "Filter1".

Procedure

1. Press **Customize** → **New Filter**.
2. The dialogue **Defining Filters for Alarm List** is opened.
3. Under **Edit Conditions**, define the **Begin Date**.

And
 Or

Property: Acknowledge Date
 Condition: on
 Value: 25-06-2009

Protect
 Prompt for period
 Format
 Global Filter
 Exclusive

4. Click **Add to List** to save the first condition in the **Existing Filter Conditions** table.
5. Select the logical operator **AND**.
6. Now define the **End Date** and again save it with **Add to List**.
7. Again, select **AND** as the logical operator.
8. Finally, define the third condition:
Property: Acknowledge Date
Condition: between
Value: set date and time of the interval
9. Save the third condition with **Add to List**.

10. Now name the new filter
11. Confirm / Save with .

To display a list containing only those messages that meet the new filter criteria, close the **Defining Filters for Alarm List** dialogue and navigate to the **Tree View**, on the left-hand section of the screen. Click Active Alarms and select Filter1.

- The Alarm Log has the default filter **Past 1day Log** which may have been enabled or disabled for your application by the system design engineer. This standard filter can neither be changed nor deleted.

Format as 'Alarm Print'

If this option is selected, up to three extra lines will be shown for each alarm. These will show the historic object value, as it was, when the alarm was started, acknowledged or ended. This format is equal to the format used for alarm list printouts.

See also

Edit an existing filter

The **Customize** menu of the Menu Bar provides THREE functions that help you to define and edit filter criteria for the display of the alarm list or the alarm log: **New Filter**, **Edit Filter** and **Delete Filter**.

To edit an existing filter, you must have selected **Active Alarms/Alarm Log** or **Active Events/Event Log** in the **Tree View** in the left-hand section of the screen, and in the tree branch - the filter you wish to change.

Procedure

1. In the Menu Bar, select **Customize**→ **Edit Filter**.
 2. The dialogue **Defining Filters for Alarm List** is opened.
 3. In the list **Existing Filter Conditions**, select the filter criterion you wish to change.
 4. Under **Edit Conditions**, modify the filter condition and confirm with **OK**.
 5. In the **Save Filter as** box you may save the modified filter under the same name, or create an additional filter by saving it under a new name.
- The **Alarm Log** has the default filter **Past 1day Log** which may have been enabled or disabled for your application by the system design engineer. This standard filter can neither be changed nor deleted.

Note: If the filter is protected, you must have the **Can Administer** right to edit it. User rights are defined in the **User Administration** program.

See also

Set a default Active alarm list filter

You can set a specific filter as the default filter for the Active alarm list. In a multi-user environment, this setting only applies to the machine on which it is set. The default filter can thus not be uploaded to the IGSS server and distributed to the other operator stations.

The default filter will be applied when you open the **Alarm** program.

1. Select the filter you want to set as the default. The system default is the root filter named **Active Alarms**.
2. Select **Customize** → **Set as Default Filter** or click the corresponding icon in the toolbar, . Notice that the padlock is recessed when you select the default filter.

Set a default Alarm log filter

If the alarm log limit of 10,000 records is exceeded, the Alarm log list will not be displayed.

If you want to see the alarm log list, you must create an Alarm log filter in order to filter and display the Alarm log list.

You can create a default alarm log filter which will automatically filter the alarm log list when you click the **Alarm log** folder in the left pane of the **Alarm list** form.

To create a default Alarm log list filter, you must create an Alarm log filter and make sure to include an asterisk '*' to the filter name.

For example, if you create an alarm log filter called "Pump alarms ", you can set the filter as the default Alarm log list filter by changing the name of the filter to "*pump alarms".

You can only have one default Alarm log list filter.

See Also

"Filter out specific information from the list" on page 37

Delete an existing filter

The **Customize** menu of the Menu Bar provides THREE functions that help you to define and edit filter criteria for the display of the alarm list or the alarm log: **New Filter, Edit Filter and Delete Filter**.

To delete an existing filter, you must have selected **Active Alarms/Alarm Log** or **Active Events/Event Log** in the **Tree View** in the left-hand section of the screen, and in the tree branch - the filter you wish to remove.

Procedure

1. In the Menu Bar, select **Customize→ Delete Filter**.

CAREFUL

The filter is deleted IMMEDIATELY and WITHOUT any further confirmation !

- The **Alarm Log** has the default filter **Past 1day Log** which may have been enabled or disabled for your application by the system design engineer. This standard filter can neither be changed nor deleted.

See also

1.8 Printing Alarms

Direct alarm message printing

The system designer defines the alarm printer in the **System Configuration** program. For each object in the configuration the system designer decides whether or not to print alarm messages directly. If the option is enabled, the alarm message will be printed on the alarm printer.

The operator has no access to the above functions.

If enabled by the system designer, the plant operator has the right to [save the current alarm list format](#) as the default format for direct alarm message printing.

See also

Use the alarm list format for direct message printing

Background information

A specific format of the alarm list can be saved in order to act as the default format for message logging on the alarm printer. The characteristics of this format are defined in the **Configure Columns** dialogue. As a result, any settings that might be carried out in the **Configure Columns** dialogue at later stages can be conveniently reset to the preset default format by simply pressing the **Default** button of this dialogue.

Procedure

1. Go **Customize → Alarm List Format ...**. The **Configure Columns** dialogue appears.
 2. Set the format of the alarm list as required.
 3. Confirm with **OK**.
 4. Now, select **File → Save Format for Alarm Printer** and activate this command with a mouse click. The format set in the **Configure Columns** dialogue will now act as the default format for alarm printing. As a result, pressing the **Default** button in the **Configure Columns** dialogue will have the effect of reverting all format changes to the preset default format.
- If no user-specific default format was set, or if the system designer has disabled the **Save Format for Alarm Printer** command, pressing the **Default** button in the **Configure Columns** dialogue restores the [igss default format](#).
-

See also

Printing the alarm list /alarm log

Printing out the Alarm List or Alarm Log as it is displayed on the screen.

1. In the menu bar, select **File → Print**.
 2. Make your selections in the **Print** dialogue.
 3. Confirm with **OK**.
- **Cut to Paper Width**
If this function is selected, the contents of the displayed Alarm List or Log is cut off if it exceeds the right margin of the printing paper.
If this function is not selected and the contents of the list exceeds the width of one print page, printing is continued on a second page. In this way you may join two printed pages to see the entire contents of the list on paper.
-

See also

Alarm: Command line interface

Introduction

The command line interface is an alternative to the graphical interface to this program. It allows you to manipulate the program either directly from a command prompt or from the **Job Scheduler** program.

Using this interface you can automatically print the **Alarm List** with a fixed interval or activated on an event in the IGSS system. You can also send the output in an e-mail or export it as a comma-separated file (.CSV)

Procedure

Click here  to learn how to use the command line interface either with the **Job Scheduler** program or the Windows command prompt.

Syntax conventions

The following symbols are used:

Symbol	Description
Bold	Required parameter.
<placeholder>	Placeholder for a variable parameter.
 (pipe symbol)	Separates required parameters. You must use at least one of these parameters in the syntax and you may use two or more of them. NOTE: To separate these parameters, put a space between them.
[parameter]	Optional parameter that you may include in the command line.

Syntax

Use the following syntax (separate parameters with a space):

```
Alm -f<filter name> [-ds<start date>] [-ts<start time>] [-de<end date>] [-te<end time>] [-all]
[-note] [-page]
```

- You must check the **Prompt for period** box in the **Defining Filters for Alarm List** dialog when you create a filter that you will access from the command line. If disabled, Alarm will use the default period.
- The last three command line parameters are equivalent to the three check boxes in the [print dialogue](#) of the alarm program.

Parameter	Description
-f<filter name>	Name of the filter to use. If the name contains spaces, enclose the name in quotation marks (""). You can also use the root filters: "Active Alarms" and "Alarm Log".
-ds<start	Start date in the format yyyy/mm/dd or as an offset defined with the

Parameter	Description
date>	\$ parameter (offset in days).
-ts<start time>	Start time in the format hh:mm:ss or as an offset defined with the \$ parameter (offset in seconds).
-de<end date>	End date in the format yyyy/mm/dd or as an offset defined with the \$ parameter (offset in days).
-te<end time>	End time in the format hh:mm:ss or as an offset defined with the \$ parameter (offset in seconds).
-all	All columns are printed (otherwise the columns exceeding one page are not printed)
-note	Includes alarm notes on the printout.
-page	Inserts page breaks after alarm notes.
-landscape	Landscape makes alarm print in landscape mode
-CSV	Output is to be exported as a comma-separated file (.CSV) and not printed. The comma-separated file must either be saved at a location using the -file<path> parameter or sent as an attachment to an e-mail message using the -mail<address> parameter.
-file<path>	The full path to the destination file, including the name of the .csv file. The default filename is yyyy-mm-dd-hh-mm-ss.csv The default file path is the GSS folder of the local installation.
-mail<a-dress>	The output is to be sent as an attachment to the recipient's e-mail address. If the output is to be sent to more than one e-mail recipient, separate any additional e-mail addresses with a semicolon. You do not need to use the -file<path> to include the .csv in the e-mail message, but if you do use the -file<path> parameter, then the specified file will be included in the e-mail message. If you do not use the -file<path> parameter, the default file name will be used for the e-mail attachment.
-title	The subject line in the e-mail message.

Job Scheduler example

This example prints the alarms matching the **Analog Alarms** filter. The start date is set to the previous day (\$date-1) and end date is set to today \$(date). Start time (-ts) and end time (-te) are both set to 7:00 a.m. All columns are printed and alarm notes are included.

Program path:

```
"[IGSS InstallPath]\Gss\Alm.exe"
```

Parameters:

```
-f"Analog Alarms" -ds$(date-1) -ts07:00:00 -de$(date) -te07:00:00 -all  
-note
```

Working folder:

-

Command prompt example

This command line prints all alarms matching the **Purification** filter from the previous day. The printout shows all columns and includes alarm notes.

```
Alm -fPurification -ds$(date-1) -ts00:00:00 -de$(date) -te00:00:00 -all -note
```

1.9 System Alarm

The System Alarm

In the IGSS software, there is an object called **System**. This object is used by the IGSS system to generate alarms under specific conditions.

- The **System** object, which is a predefined analog object, can be viewed in the **Object Browser** in the **Definition** program. If this object is deleted or renamed, the IGSS system will crash and freeze up until the object is restored.

A system alarm is triggered from the **System** object under the following four conditions.

1. When the amount of free space on the hard disk of the IGSS single user or server PC is nearly gone
2. When the path to the IGSS application's **report folder** is incorrect
3. When there are insufficient Windows user permissions given to the report folder when running in a multi-user environment
4. When the occurrence of an Event in the Event list is also to be displayed in the Active Alarm list

Let's look at the alarm messages displayed for each situation.

1. Insufficient hard disk space

When the IGSS system registers a low level of hard disk space, then the **System** alarm is triggered after activating the **IGSS Starter** . The message looks like this:



Figure 1: Basic System alarm message

You must then shut the IGSS system down and remove enough files from the hard disk to free up at least 20% of hard disk capacity. Then start the IGSS system up again.

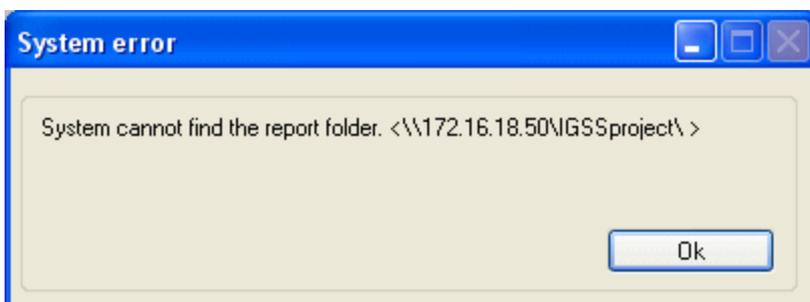
The occurrence of this alarm by itself is rare because hard disk capacity nowadays is hardly ever exceeded by normal **SCADA**¹ systems.

However, the alarm is triggered in connection with the presence of other conditions, which need attention by the user. These are described in the next two cases.

2. Error in connection with the IGSS application's report folder: cannot find the report folder

When this situation occurs, the **ALL LOGGING STOPPED** alarm, as shown in Figure 1 above, will be triggered as well as a dialog box with an alarm message. When this happens, the **ALL LOGGING STOPPED** alarm can be ignored as the true cause of the alarm state.

This alarm arises typically when configuring a multi-user system and looks like this:



¹Supervisory Control & Data Acquisition

Figure 2: Cannot find the report folder warning

This message indicates that the path to the IGSS application's report folder has somehow been incorrectly keyed in. Therefore, check first in the **System Configuration** module on the server PC on the **Configuration** tab under **Report folder**. Check the following two things:

1. Make sure that you've correctly keyed in the UNC path to the report folder, i.e. \\<IP address>or <PC name>\<report folder name>\
 - Remember to include the last forward slash after the name of the report folder.
2. Make sure that you've spelled everything correctly

This should remedy the problem.

3. Error in connection with the IGSS application's report folder: access denied

When this situation occurs, the **ALL LOGGING STOPPED** alarm, as shown above, will be triggered as well as a dialog box with an alarm message. When this happens, the **ALL LOGGING STOPPED** alarm can be ignored as the true cause of the alarm state.

This alarm arises typically when configuring a multi-user system and looks like this:

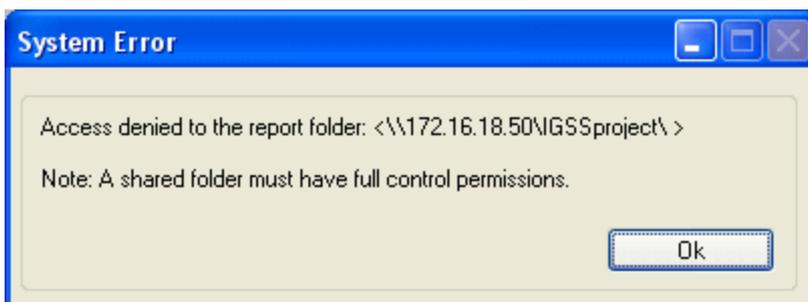


Figure 3: Access denied warning

This message indicates that sharing and/or setting of permissions on the report folder has not been correctly carried out. Do the following:

1. Use Windows Explore to find the folder where the IGSS application resides.
2. Right click on the folder name and choose **Sharing and Security...**
3. Share the folder and then click on the **Permissions** button to set user permissions to **Full Control**.
4. Click **OK** to save and exit.

This should remedy the problem.

4. Display an Event in the Active Alarms list

This last example of the triggering of a **System** alarm is not related to an error situation. Here the **System** object is used to display the occurrence of an **Event** in the **Active Alarms** list. For a detailed explanation click this link [Event](#).

Chapter 2: The Event List

2.1 What is the Event List ?

The operator uses the Event List to get a quick overview of the most important system and object events. The events in the list are user-defined and can be configured both from the **Definition** program and the **Supervise** program.

The Event List is presented just below the Alarm List. It contains two root nodes, Active Events and Event Log. For both of these root nodes, filters can be defined exactly as in the Alarm List.

As is the case for the Alarm List, columns can be rearranged and the events can be sorted differently.

For details about the individual event types, the fields in the list, etc., read the other topics in this book or click the **See Also** button.

S.No.	Start Date	Start Time	Event	Info 1	Info 2	Info 3
1	29-09-2004	15:05:58:088	User login/logout	Logout	Mike	PFR-HOME
2	29-09-2004	14:26:25:276	Stop p1			
3	29-09-2004	14:26:21:300	Start p1			
4	29-09-2004	14:16:51:000	Email report to municipal authorities			
5	29-09-2004	14:16:28:197	User login/logout	Login	Mike	PFR-HOME
6	29-09-2004	14:16:11:944	User login/logout	Logout	Per	PFR-HOME
7	29-09-2004	14:15:50:593	User login/logout	Login	Per	PFR-HOME
8	29-09-2004	14:10:57:462	Start/stop writing of data files	Start Write		
9	29-09-2004	14:10:57:462	Start/stop of configuration	Data collection started		

2.2 Active Events and the Event Log

The Event List has two root nodes in the tree view.

- The **Active Events** node shows all events from the last hour or the 500 latest events.
- The **Event Log** node shows all historical and active events. The max. no. of events in the list is governed by the **Max. alarm log entries** setting on the **Alarm** tab of the **System Configuration** program. Please note that the max. number of entries include both alarms and events.

For both nodes filters can be defined. The filters will appear below the root node. The root node can be expanded to show the filters or collapsed to hide the filters.

Defining filters is very easy. [Click here](#) for details.

In this example, we have defined a filter extracting user login/logout information. We know that the event type has been named "User login/logout" so this is our filter criterion.

S.No.	Start Date	Start Time	Event	Info 1	Info 2	Info 3
1	01-10-2004	09:55:51:463	User login/logout	Login	Mike	PFR-HOME
2	01-10-2004	09:55:43:792	User login/logout	Logout	Bob	PFR-HOME
3	01-10-2004	09:28:23:414	User login/logout	Login	Mike	PFR-HOME

2.3 The fields in the Event List

The table below shows an explanation of the fields specific to the Event List. The name of the event is defined either in the **Definition** program or the **Supervise** program. For an overview of the event types, click the header in the table.

Event type	Event	Info 1	Info 2	Info 3
OP Connect/Disconnect	User-defined name	"Connect", "Disconnect", "Lost connection", "LAN B"	IGSS station name	-
Periodical	User-defined name	-	-	-
System start/stop	User-defined name	"Data collection started" or "Data collection stopped"	-	-
User defined	User-defined name	-	Object name	Area name
User login/logout	User-defined name	"Login" or "Logout"	User name	IGSS station name
Writing stopped/started	User-defined name	"Start write" or "Stop write"	-	-
Error packet	User-defined name	Driver number, node number	Error group (decimal or hexadecimal)	Error code, subcode (decimal or hexadecimal)

2.4 Showing events in the Alarm List

Enabling alarm on event

When new events are defined, it is possible to enable the **Alarm on event** check box. This means that the event will appear both in the Event List and in the Alarm List. The operator will thus see the number of alarms change in the **Alarm Icon** and see the alarm in the list.

Edit Event

Event

Name: Display color: Alarm on event

Type: Periode: To history

First event at:

Criteria

You can edit fields directly in the list

Object names can be typed or dragged from the object browser

Type	Object	Atom	Relation	Object/value	Atom
NA	p1@Global	Command	= (value)	0.000000	

Negate result of all criterias

Viewing events in the Alarm List

The alarm will be shown as alarm number 90. The alarm text will be the event name. The alarm properties including alarm and acknowledgment colors are taken from alarm number 90. If required, the alarm properties can be changed in the **Definition** program.

This example shows a number of events at the top of the **Alarm List**.

S.No.	Object Name	Priority	Alarm Number	Alarm Text	Start Date	Start Time	Acknowledge D...
1	System	3	90	Email report to municipal authorities	01-10-2004	11:16:51:001	
2	System	3	90	Start/stop writing of data files	01-10-2004	11:14:53:672	
3	System	3	90	Start p1	01-10-2004	11:14:29:147	
4	q3	12	210	High alarm limit exceeded	01-10-2004	10:39:00:006	
5	q4	9	211	Low alarm limit exceeded	01-10-2004	10:06:52:003	
6	q1	4	212	High alarm level exceeded	01-10-2004	09:45:02:009	
7	q2	9	211	Low alarm limit exceeded	01-10-2004	09:44:18:006	
8	q2	2	93	Winpager Inhibit	15-10-2003	20:06:49:993	01-10-2004
9	v11	7	205	Valve blocking	15-10-2003	17:16:33:001	15-10-2003
1.	PST01-A6	5	337	Communication failed	15-10-2003	17:16:19:001	
1.	m1	5	200	Maintenance alarm	15-10-2003	17:16:01:506	
1.	b1	5	200	Maintenance alarm	15-10-2003	17:16:01:506	15-10-2003

Acknowledging event alarms

From the **Alarm List** the operator can acknowledge the alarm. Once acknowledged, the alarm is also ended and is archived in the **Alarm Log**.

2.5 Printing event alarms

Prepare the Event List for printing

1. In the **Customize** menu, select **Alarm Print Format**.
2. Do the following:
 - In the **Columns Displayed** list, remove all unwanted columns.
 - In the **All Columns** list, select the columns specific to the **Event List** one-by-one and click the **Add** button. These fields will be printed when a new event occurs. For all other alarms, the fields will be empty.
 - In the **Columns Displayed** list, use the **Move Up** and **Move Down** buttons to adjust the order.

[Show picture](#)

3. Click the **OK** button.

Print the Event List

1. In the **File** menu, select **Print**.
 2. If required, change the print settings.
 3. Click **Print**.
- The list will now be printed according to the setup in the **Alarm Print Format** dialog box.

Print events on the alarm printer

In order to have all events printed on the alarm printer as soon as they occur, set up the following:

1. In the **System Configuration** program, click the **Reports** tab.
2. In the **Alarm printer** section, select **Direct** (one line at a time on a matrix printer) or **Windows** (the page is printed when the page is filled).
3. Click the **Printer** button and select the relevant printer.

4. Close the program and save changes.
5. Open the **Definition** program
6. In the **Edit** menu, select **Alarm Texts**.
7. Select alarm text number 98 named **Event** and click **Edit**.
8. In the **Edit Alarm Description** dialog box, select the **To Print** check box.

[Show picture](#)

9. Click **OK** and then **Close**.
10. In the **File** menu, select **Install Configuration**.
 - If you select **Online Update** in this case, the change will not be applied. The **Data Collection** must be restarted for the change to take effect.
4. From the **IGSS Starter** program start the configuration again.
 - New events will now be printed on the alarm printer. The alarm number will be 98 and the alarm text will be "Event".

2.6 Updating and Freezing the Event List

Update the list

Background information

The process values shown in the **Alarm List** and **Event List** are not continuously refreshed. They are updated whenever the **Worst Value** of the object value has changed, or at specific intervals set by the development engineer during system design. **IGSS** therefore provides an **Update** facility so that you can call up fresh process values whenever needed.

Procedure

1. In the **Tree View**, select the list you wish to update.
2. Move into the selected list in the right-hand section of the screen.
3. In the Menu Bar, click **Actions** → **Update**.
4. The entire list is updated.
 - For the options of the **Actions** menu to become available, you must have moved the cursor out of the **Tree View** into the alarm list or alarm log !

Shortcut

1. You are inside the list.
2. Simply click the right mouse button.

3. This opens the **Actions** function box so that you can now conveniently activate the **Update** function.

See also

Freeze the list

Background information

In situations where you have a cluster of alarms in rapid succession it might be useful to freeze the list for a short period at its current status. The freeze period is predefined by the development engineer during system design and cannot be changed by the operator.

Default setting: 30 seconds

Procedure

1. In the **Tree View**, select the list you wish to freeze.
 2. Move into the selected list in the right-hand section of the screen.
 3. In the **Actions** menu, select **Freeze**.
- For the options of the **Actions** menu to become available, you must have moved the cursor out of the **Tree View** into the **Alarm List** or the **Event List**.

Shortcut

1. You are inside the list and a message line is selected.
 2. Click the right mouse button.
 3. This opens the **Actions** function box so that you can now conveniently activate the **Freeze** function.
- A seconds counter in the screen title bar indicates the 'frozen' status and the number of seconds still to go.

See also

2.7 Customizing, Sorting and Filtering

Change the list format

Rearrange the columns

1. Open the **Alarm List** and make sure focus is on the right side of the list by clicking it with the mouse cursor.
2. In the **Customize** menu, select **Alarm List Format....**
3. The **Configure Columns** dialogue appears on the screen.

4. The columns are arranged in the order shown in the **Columns Displayed** list.
 5. To change that order, select the title you wish to advance to the left or move to the right, and press **Move Up** or **Move Down** respectively.
 6. Save your settings with **OK**; the **Alarm List** or **Event List** will now rearrange its columns accordingly.
- With **Default** and **OK** you can at any time reset the format to its [original status](#). This may be the IGSS default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

See also

Rename a column

1. In the **Customize** menu, select **Alarm List Format....**
2. The **Configure Columns** dialogue appears on the screen.
3. In the **Columns Displayed** list, select the column whose title you wish to rename.
4. The selected name will appear in the window immediately above the list.



5. Now, overwrite the 'old' name by the new one and confirm with OK.
- With **Default** and **OK** you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

See also

Remove columns

Using menu functions

1. In the **Customize** menu, select **Alarm List Format....**
2. The **Configure Columns** dialogue appears on the screen.
3. In the **Columns Displayed** list, select the title you wish to delete.
4. Click on **<- Remove** to delete the title.
5. Confirm with **OK**

Directly in the list

1. Click on the right-hand limiting line of the column you wish to remove, using the left mouse button and keep the mouse button pressed.
 2. The cursor changes its shape to a cross and highlights the vertical column delimiter.
 3. Keep the left mouse button depressed and drag the cursor to the left until the right line covers the left line. In this way, the width of the column has been reduced to nothing and the column is removed from the list.
- With and you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.
 - Only a column which was removed (collapsed) directly in the list by dragging its right-hand limiting line to the left until clearance, can be retrieved again directly in the list, without using menu functions.

The first method of removing columns is the more permanent layout change. It can only be undone by using the **ADD** button in the **Configure Columns** dialogue.

See also

Add columns

Using menu functions

1. In the **Customize** menu, select **Alarm List Format**.
 2. The **Configure Columns** dialogue appears on the screen.
 3. In the **Available Columns** list, select the column title you wish to add.
 4. Click on to insert the name in the **Columns Displayed** list.
 5. Confirm with .
- With and you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

Directly in the list

1. Place the crosshair cursor onto the limiting line of the collapsed column and drag it to the right until the retrieved column has reached the width required.
- Only a column which was removed (collapsed) directly in the list by dragging its right-hand limiting line to the left until clearance, can be retrieved again directly in the list, without using menu functions.

See also

Change the column width

Using menu functions

1. In the **Customize** menu, select **Alarm List Format**.
2. The **Configure Columns** dialogue appears on the screen.
3. In the **Columns Displayed** list, select the title of the column whose width you wish to change.
4. The current width of this column is displayed in the **Width** field.



5. Enter a new value to change the size of the column and confirm with :

Directly in the list

1. Click on the right-hand edge of the column whose size you wish to reduce or widen, using the left mouse button and keep the mouse button pressed.
 2. The cursor changes its shape to a cross and highlights the vertical column delimiting line.
 3. Maintaining the left mouse button depressed, drag the line to the left or to the right.
 4. Release the mouse button as soon as you have obtained the required column width.
- With and you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

See also

Save the selected list format as default

Save the list format as the default format

Background information

A specific format of the alarm list can be saved in order to act as the default format for all subsequent display operations. The characteristics of this format are defined in the **Configure Columns** dialogue. As a result, any settings that might be carried out in the **Configure Columns** dialogue at later stages can be conveniently reset to the preset default format by simply pressing the **Default** button of this dialogue.

Procedure

1. Go **Customize** → **Alarm List Format** The **Configure Columns** dialogue appears.
2. Set the format of the alarm list as required.
3. Confirm with **OK**.

- Now, select **Customize** → **Save Format as Default** and activate this command with a mouse click. The format set in the **Configure Columns** dialogue will now act as the default format. As a result, pressing the **Default** button in the **Configure Columns** dialogue will have the effect of reverting all format changes to the preset default format.

- If no user-specific default format was set, or if the system designer has disabled the **Save Format as Default command**, pressing the **Default** button in the **Configure Columns** dialogue restores the [IGSS default format](#).

See also

Sort the alarm messages

Change the sorting order in the list

There are two different ways to sort the lines of the list and define the sorting criteria:

- using the functions of the **Customize** menu
 - directly in the list
- The alarm list is displayed and you wish to have all alarms sorted according to their time of occurrence so that the most recent alarm is shown at the top of the list. This information is registered in the [Start Time](#) column.

Using menu functions

- In the **Customize** menu, select the edit function **Set Sort Order ...**
- The **Sorting Order** dialogue appears on the screen.
- In the table, click on the **Start Time** entry.
- Select **Descending** and keep on clicking on **Move Up** to step by step move **Start Time** to the top of the list.
- Confirm with **OK**
- The alarm messages are now sorted so that the most recent alarms are at the top of the list and the oldest alarms are displayed at the end of the list.
- Generally, you define the priorities of the sorting criteria by sorting the column titles in the table using **Move Up** and **Move Down**, and for each sorting criterion you decide whether it is to be applied in **Ascending** or **Descending** order.

Directly in the list

You can change the sorting order directly in the alarm list (or: alarm log) by clicking on the column title you wish to use as sorting criterion. For our example:

- Click on the column title **Start Time**.
- You will see that the list is immediately sorted in chronological order, i.e. the most recent alarms are shown on the top of the list.
- If you click once again on **Start Time**, the order is reversed and the 'oldest' messages are moved to the top of the list.

- The default sorting criterion is: [Alarm State](#)
- With and you can at any time reset the format to its [original status](#). This may be the igss default setting or a default format which you have set yourself using the [Save Format as Default](#) command.

See also

Filter out specific information from the list

Define a new filter

The **Customize** menu provides THREE functions that help you to define and edit filter criteria for filters in the **Alarm List** or **Event List: New Filter Edit Filter** and **Delete Filter**.

- To set a new filter, you must have selected **Active Alarms/Alarm Log** or **Active Events/Event Log** in the **Tree View** in the left-hand section of the screen.
- You wish to see all acknowledged messages that have occurred in the period from April 10 to April 15, 1997. We will define and save three filter conditions and logically link them by an AND operator. This filter criterion is then saved under the name of "Filter1".

Procedure

1. Press **Customize** → **New Filter**.
2. The dialogue **Defining Filters for Alarm List** is opened.
3. Under **Edit Conditions**, define the **Begin Date**.

Edit Condition

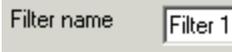
And
 Or

Property: Acknowledge Date
 Condition: on
 Value: 25-06-2009

Protect
 Prompt for period
 Format
 Global Filter
 Exclusive

juni 2009						
ma	ti	on	to	fr	lø	sø
25	26	27	28	29	30	31
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5

4. Click **Add to List** to save the first condition in the **Existing Filter Conditions** table.
5. Select the logical operator **AND**.
6. Now define the **End Date** and again save it with **Add to List**.
7. Again, select **AND** as the logical operator.
8. Finally, define the third condition:
 - Property:** Acknowledge Date
 - Condition:** between
 - Value:** set date and time of the interval
9. Save the third condition with **Add to List**.

10. Now name the new filter 
11. Confirm / Save with .

To display a list containing only those messages that meet the new filter criteria, close the **Defining Filters for Alarm List** dialogue and navigate to the **Tree View**, on the left-hand section of the screen. Click Active Alarms and select Filter1.

- The Alarm Log has the default filter **Past 1day Log** which may have been enabled or disabled for your application by the system design engineer. This standard filter can neither be changed nor deleted.

Format as 'Alarm Print'

If this option is selected, up to three extra lines will be shown for each alarm. These will show the historic object value, as it was, when the alarm was started, acknowledged or ended. This format is equal to the format used for alarm list printouts.

See also

Edit an existing filter

The **Customize** menu of the Menu Bar provides THREE functions that help you to define and edit filter criteria for the display of the alarm list or the alarm log: **New Filter**, **Edit Filter** and **Delete Filter**.

To edit an existing filter, you must have selected **Active Alarms/Alarm Log** or **Active Events/Event Log** in the **Tree View** in the left-hand section of the screen, and in the tree branch - the filter you wish to change.

Procedure

1. In the Menu Bar, select **Customize**→ **Edit Filter**.
2. The dialogue **Defining Filters for Alarm List** is opened.
3. In the list **Existing Filter Conditions**, select the filter criterion you wish to change.
4. Under **Edit Conditions**, modify the filter condition and confirm with **OK**.
5. In the **Save Filter as** box you may save the modified filter under the same name, or create an additional filter by saving it under a new name.

- The **Alarm Log** has the default filter **Past 1day Log** which may have been enabled or disabled for your application by the system design engineer. This standard filter can neither be changed nor deleted.

Note: If the filter is protected, you must have the **Can Administer** right to edit it. User rights are defined in the **User Administration** program.

See also

Set a default Active alarm list filter

You can set a specific filter as the default filter for the Active alarm list. In a multi-user environment, this setting only applies to the machine on which it is set. The default filter can thus not be uploaded to the IGSS server and distributed to the other operator stations.

The default filter will be applied when you open the **Alarm** program.

1. Select the filter you want to set as the default. The system default is the root filter named **Active Alarms**.
2. Select **Customize** → **Set as Default Filter** or click the corresponding icon in the toolbar, . Notice that the padlock is recessed when you select the default filter.

Delete an existing filter

The **Customize** menu of the Menu Bar provides THREE functions that help you to define and edit filter criteria for the display of the alarm list or the alarm log: **New Filter, Edit Filter and Delete Filter**.

To delete an existing filter, you must have selected **Active Alarms/Alarm Log** or **Active Events/Event Log** in the **Tree View** in the left-hand section of the screen, and in the tree branch - the filter you wish to remove.

Procedure

1. In the Menu Bar, select **Customize** → **Delete Filter**.

CAREFUL

The filter is deleted IMMEDIATELY and WITHOUT any further confirmation !

- The **Alarm Log** has the default filter **Past 1day Log** which may have been enabled or disabled for your application by the system design engineer. This standard filter can neither be changed nor deleted.

See also

Chapter 3: The Super Alarm Program

3.1 What is Super Alarm ?

Definition

Super Alarm allows you to receive alarms from plants at remote locations via the Internet. These alarms can be viewed on so-called client PCs at one or more locations geographically removed from the plant.

Use

The following describes some typical situations where Super Alarm might be employed.

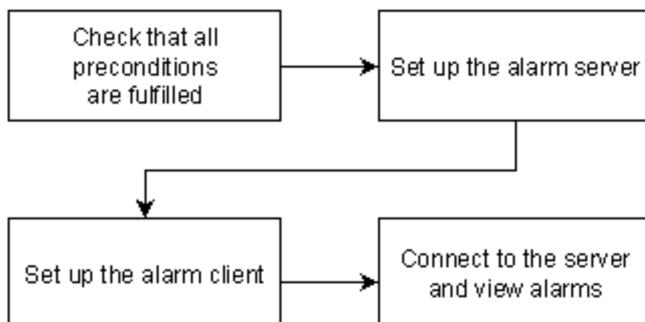
- Main plant responsible for alarm surveillance of one or more secondary plants
- Production operations HQ in a large production complex located away from actual production lines responsible for total production surveillance.
- Evening, night shift or weekend duty personnel carrying out surveillance responsibilities from their private residences.

3.2 How it works

The Super Alarm workflow

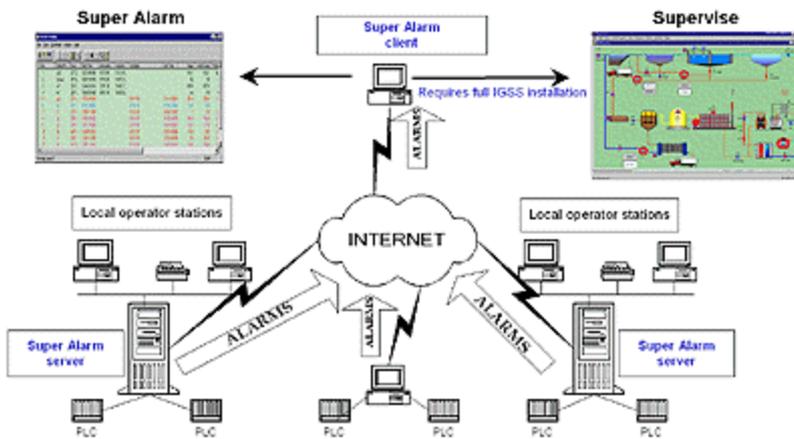
The following flowchart gives you an overview of the workflow involved in setting up and using Super Alarm.

For details about a step, click its box.



Graphical overview

The following figure shows a simple Super Alarm setup.



3.3 Before you begin

Before you start setting up the alarm server(s) and client(s), the following preconditions must be met:

- The **AMS/WinPager** option must have been purchased and installed on the alarm server(s).
- Each alarm that you want to view through Super Alarm must have the **To WinPager** option enabled (this is done as part of the alarm text definition)
- The alarm server(s) and client(s) must be connected to the Internet via TCP/IP

When these preconditions are fulfilled, click **See Also** to continue with the alarm server and client setup procedures.

See Also

3.4 Set up the alarm server

On the alarm server, you specify each user you want to authorize to view alarms via Super Alarm.

1. Open the **System Configuration** program.
 2. Select the server station and click the **Access Control** tab.
 3. Click **Add User**.
 4. Type the appropriate user name and password and click OK.
- The users permitted to use Super Alarm are completely separate entities from the users defined in User Administration. An authorised Super Alarm user need not necessarily be an authorised user in User Administration and vice versa.

5. Repeat steps 2 and 3 for all Super Alarm users.
6. In the **TCP/IP port** field, type the logical port number you want to use.
 - It is recommended to use the default port number. Do not use port numbers lower than 4000, as they are often used for other purposes.

The Super Alarm server is now set up and the client can connect to the server using an authorized user name and password.

To edit or remove a Super Alarm user, select the user name and click **Edit User** or **Remove User**, respectively.

3.5 Set up the alarm client

If you have a full IGSS installation, skip step 1.

1. It is recommended that you install the **Demo version** of **IGSS** onto your computer to run the **Super Alarm** program.
2. To start the **Super Alarm** program, make a shortcut to the **Alarm** program and add the command line parameter `-s`. Double-click the shortcut.

[Show picture](#)

1. Select **Internet** → **Configure Servers**.
2. Click **Add**.
3. Do one of the following:
 - In the **Server Name** box, type the computer name or host name of the alarm server (do not use the IGSS server name).
 - In the **IP Address** box, type the IP address of the alarm server.
2. In the **TCP/IP Port** number box, type the logical TCP/IP port number as specified in **System Configuration** on the alarm server.
The default port number is automatically suggested.
3. In the **User name** box, type the name of an authorized user.
4. In the **Password** box, type the password.
5. In the **Description of server** box, you can type an optional description of the server.

Example

1. Click **OK**.
2. Repeat steps 4 to 10 for each alarm server you want to connect to.
3. Click **Close**.

- The alarms from the configured servers will now appear in the list. The **Server ID** column shows you which server sent the alarm. For an example, click **See Also**.

If you get three asterisks (***) in the **Server ID** column, the alarm client is not connected to the alarm server. In that case, check that the TCP/IP connection between the server and the client is properly configured.

3.6 Example: Viewing alarms from remote plants

In this example, the alarm client is connected to three different IGSS servers: The Main, East, and South plants.

Note that the **Server ID** column identifies the server which delivered the alarm. In this case, we have configured the servers with the full host name including the Web server name, for example, **South.sevent.dk**. Alternatively, you can use the computer name or the IP address of the alarm server. But the latter is, of course, harder to recognize for the user.

To show you what happens if the alarm client is not properly connected to the alarm server, a fourth IGSS server has been configured, **North.sevent.dk**. As you can see, three asterisks (***) appear in the **Server ID** column and the **Alarm text** "Not connected to server" is shown.

Server ID	Start Date	Start Time	Acknowledge Time	End Time	Object Name	Worst Value	Alarm Text	Area Name
***	21-01-00	14:51:47:034			North.sevent.dk		Not connected to server.	
East.sevent.dk	13-01-00	11:34:08:201			wpelm2	550.0	Winpager alarm	Global
East.sevent.dk	13-01-00	11:34:20:950			wpelm	550.0	Winpager alarm	Global
Main.sevent.dk	17-11-99	14:21:16:003		15:48:5...	gas	300.0	High alarm limit exceeded	Global
Main.sevent.dk	17-11-99	14:21:33:008	14:21:33:008		v11	OPEN	Valve blocking	Global
Main.sevent.dk	17-11-99	14:25:19:003		14:29:0...	q5	99.0	High alarm limit exceeded	Global
Main.sevent.dk	17-11-99	14:25:24:000		14:31:3...	l1	15	High alarm limit exceeded	Global
Main.sevent.dk	17-11-99	14:48:48:009		14:57:2...	q6	99.0	High alarm limit exceeded	Global
Main.sevent.dk	17-11-99	15:18:54:046		15:28:4...	t1	160.0	High alarm limit exceeded	Global
Main.sevent.dk	17-11-99	15:23:00:009		16:08:4...	System	99	Disk usage above second mark	Global
South.sevent.dk	22-11-99	13:03:22:007	13:03:22:007		v11	OPEN	Valve blocking	Global
South.sevent.dk	22-11-99	13:10:30:003			gas	152.0	High alarm limit exceeded	Global
South.sevent.dk	22-11-99	13:22:45:009			q6	90.0	High alarm limit exceeded	Global
South.sevent.dk	22-11-99	13:55:59:007			l1	7	High alarm limit exceeded	Global

Chapter 4: Command Line Interface

4.1 Alarm: Command line interface

Introduction

The command line interface is an alternative to the graphical interface to this program. It allows you to manipulate the program either directly from a command prompt or from the **Job Scheduler** program.

Using this interface you can automatically print the **Alarm List** with a fixed interval or activated on an event in the IGSS system. You can also send the output in an e-mail or export it as a comma-separated file (.CSV)

Procedure

Click here  to learn how to use the command line interface either with the **Job Scheduler** program or the Windows command prompt.

Syntax conventions

The following symbols are used:

Symbol	Description
Bold	Required parameter.
<placeholder>	Placeholder for a variable parameter.
 (pipe symbol)	Separates required parameters. You must use at least one of these parameters in the syntax and you may use two or more of them. NOTE: To separate these parameters, put a space between them.
[parameter]	Optional parameter that you may include in the command line.

Syntax

Use the following syntax (separate parameters with a space):

```
Alm -f<filter name> [-ds<start date>] [-ts<start time>] [-de<end date>] [-te<end time>] [-all]
[-note] [-page]
```

- You must check the **Prompt for period** box in the **Defining Filters for Alarm List** dialog when you create a filter that you will access from the command line. If disabled, Alarm will use the default period.

- The last three command line parameters are equivalent to the three check boxes in the [print dialogue](#) of the alarm program.

Parameter	Description
-f<filter name>	Name of the filter to use. If the name contains spaces, enclose the name in quotation marks (""). You can also use the root filters: "Active Alarms" and "Alarm Log".
-ds<start date>	Start date in the format yyyy/mm/dd or as an offset defined with the \$ parameter (offset in days).
-ts<start time>	Start time in the format hh:mm:ss or as an offset defined with the \$ parameter (offset in seconds).
-de<end date>	End date in the format yyyy/mm/dd or as an offset defined with the \$ parameter (offset in days).
-te<end time>	End time in the format hh:mm:ss or as an offset defined with the \$ parameter (offset in seconds).
-all	All columns are printed (otherwise the columns exceeding one page are not printed)
-note	Includes alarm notes on the printout.
-page	Inserts page breaks after alarm notes.
-landscape	Landscape makes alarm print in landscape mode
-CSV	Output is to be exported as a comma-separated file (.CSV) and not printed. The comma-separated file must either be saved at a location using the -file<path> parameter or sent as an attachment to an e-mail message using the -mail<address> parameter.
-file<path>	The full path to the destination file, including the name of the .csv file. The default filename is yyyy-mm-dd-hh-mm-ss.csv The default file path is the GSS folder of the local installation.
-mail<address>	The output is to be sent as an attachment to the recipient's e-mail address. If the output is to be sent to more than one e-mail recipient, separate any additional e-mail addresses with a semicolon. You do not need to use the -file<path> to include the .csv in the e-mail message, but if you do use the -file<path> parameter, then the specified file will be included in the e-mail message. If you do not use the -file<path> parameter, the default file name will be used for the e-mail attachment.
-title	The subject line in the e-mail message.

Job Scheduler example

This example prints the alarms matching the **Analog Alarms** filter. The start date is set to the previous day (`$date-1`) and end date is set to today `$(date)`. Start time (`-ts`) and end time (`-te`) are both set to 7:00 a.m. All columns are printed and alarm notes are included.

Program path:

```
"[IGSS InstallPath]\Gss\Alm.exe"
```

Parameters:

```
-f"Analog Alarms" -ds$(date-1) -ts07:00:00 -de$(date) -te07:00:00 -all  
-note
```

Working folder:

```
-
```

Command prompt example

This command line prints all alarms matching the **Purification** filter from the previous day. The printout shows all columns and includes alarm notes.

```
Alm -fPurification -ds$-1 -ts00:00:00 -de$ -te00:00:00 -all -note
```

Chapter 5: Reference and Lookup

5.1 Conventions in this Manual

The following typographical conventions are used:

Convention	Description	Example
User interface element	When referring to labels and names in the user interface.	The Data Management tab.
User input	When the user has to type specific data in IGSS.	Type the following description: Incoming flow in Tank 2
Module name	When referring to a module in IGSS	Open the Definition module.
Note	A note emphasizes or supplements important points of the main text. A note provides information that may apply only in special cases.	By default, the timestamp is in universal time format, UTC ¹ . This can be changed in the Driver Log Filters dialog box.
Tip	A tip suggests alternative methods that may not be obvious in the user interface. A tip also helps the user in working more effectively with IGSS. A tip is not essential to the basic understanding of the text.	Alternative to this simple find function, you can also filter on text in the messages in Driver Log Filters dialog box.
Warning	A warning is an important note that is essential for the completion of a task. In some cases, disregarding a warning may result in undesirable functionality or loss of data.	If you disregard the System alarm, you may risk loss of data in the LOG and BCL files.

5.2 Getting Help in IGSS

IGSS comes with a comprehensive help system designed to help both system designers and operators to get started with IGSS as quickly as possible.

Documentation overview

The IGSS documentation includes the following items:

¹Universal Time Coordinated (formerly Greenwich Mean Time), used as the basis for calculating time in most parts of the world. IGSS uses this time format internally in the database. You can switch between UTC and local time by enabling or disabling the "UTC" field in various dialog boxes in the system.

Documentation item	Description
Getting Started	An introduction to IGSS and its most fundamental terms and features. Getting Started is intended to get you up and running as fast as possible. The manual provides a system and architecture overview followed by a number of real-life use cases you can go through before building your first real IGSS project. The manual is available in Adobe Acrobat format (.pdf).
Module help	For each module there is a help file with the same name as the module itself, for example, Igss.chm for the Master module, Igss.exe. The help file is invoked by clicking the  in the upper right corner of the module. The Table of Contents will then allow you to browse through the topics.
Dialog box help	For each dialog box there is a help topic with the following standard information: <ul style="list-style-type: none"> • Overview • Preconditions • Where do I find it? • Field help Dialog box help is invoked by clicking the help button  in the upper right hand corner of the dialog box.
Thematic help	IGSS also provides thematic help. When there is a special theme that requires special attention from the user, a dedicated help file is provided. Examples include "Driver-Specific Help" and "Database Administration Help".

Where are the help files located?

The IGSS help files are located in the appropriate language folder under the [IGSS InstallPath]. The help files are available in English at release time.

The paths to the help files are:

Language	Path
English	[IGSS InstallPath]\ENG
Danish	[IGSS InstallPath]\DAN
German	[IGSS InstallPath]\DEU

Translated help files

Selected help files have been translated into Danish and German. If you require help files in your language, please contact 7T.

Help updates

The IGSS help files are continuously updated and improved. Check regularly with the **IGSS Update** module in the IGSS Start menu.

5.3 Version Information (IGSS Help System)

© 7-Technologies A/S, IGSS Version 9.0

The IGSS help files are based on software build number 10305 (initial release)

English help files

To update the help files, you must activate the **IGSS Update** module in the IGSS Start menu. There must be a connection from the PC to the Internet. Every time **IGSS Update** is run, IGSS help files as well as IGSS system files will automatically be updated on the PC from the 7-Technologies web server.

You select the languages you want to update in the **Tools** menu of the **IGSS Update** module.

If you are not able to update the IGSS system directly via the Internet, the alternative is to download the updates from the 7-Technologies website as zip files. These can then be transferred onto a CD or USB memory stick, which is then the medium used to update on site.

After running **IGSS Update**, the build numbers in various IGSS modules may change to a higher number. This signifies that the module in question has been updated with newer files. Build numbers consist of four digits, where the first digit represents the year and the last three represent the day number in the year in question. The build number can be seen in the **About** dialog box which can be activated from the **Help** menu.

An example:

Build number = 10305

10 = the year 2010

305 = The 305th day of the year

Chapter 6: Glossary

A

Application menu

The Application menu is the first ribbon in the IGSS Master module. Click the icon to drop down the menu. The menu contains items that were typically found in the File menu in previous versions of IGSS. In most modules, an "Options" item allows the user to define global module settings. The Application menu was introduced in the Microsoft Office 2010 package. It replaces the Application button (nicknamed Doughnut) which was introduced in IGSS V7 and V8.

D

descriptor

A descriptor is the graphical display of an object. IGSS includes many types of descriptors including: - Built-in standard symbols - Animated symbols (Symbol Factory library) - Graphics and animation - Drawing symbols - Windows controls - ActiveX controls An IGSS object can be represented with different descriptors on different diagrams.

Q

Quick Access Bar

You can customize the Quick Access Bar to include the functions you use most frequently. Simply drag the relevant function from the ribbon to the Quick Access Bar.

R

Ribbon

The Ribbon is a new term/element in the Microsoft universe. The Ribbon replaces the well-known toolbars in applications. The Ribbon provides quick access to the most commonly used functions in the application. The Ribbon is divided into logical groups (the tabs) and each tab is divided into sections (the blocks in the tab). The Ribbon is context-sensitive which means that only relevant functions are accessible dependent on the current user action.

S

SCADA

Supervisory Control & Data Acquisition

U

UTC

Universal Time Coordinated (formerly Greenwich Mean Time), used as the basis for calculating time in most parts of the world. IGSS uses this time format internally in the database. You can switch between UTC and local time by enabling or disabling the "UTC" field in various dialog boxes in the system.