

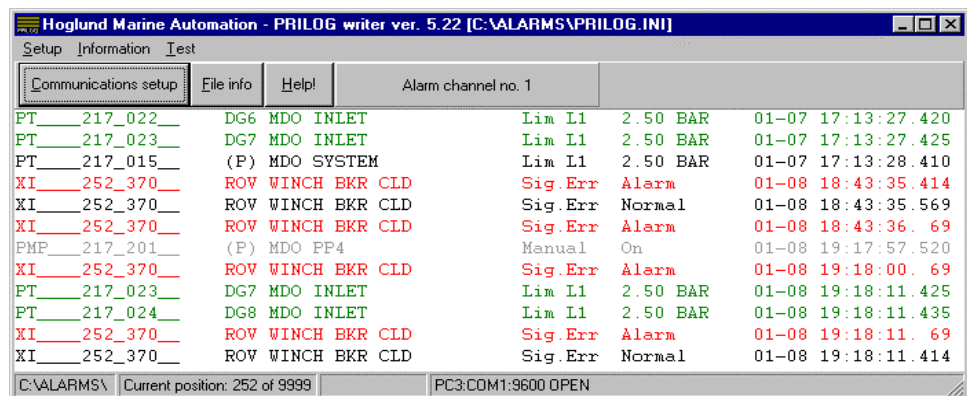
PRILOG

Description document

Printer logger / Data logging system
For Win9x/NT/2000
Version 5.22



Variable	Unit	Value	Status	Timestamp
MSB4_IP_P	Swbd4 DP KW	Lim H1	80.00 KW	01-07 09:28:42
DG_DEC_REQ_HOSPLIT		Value	Alarm	01-07 09:29:03
DG_HK2_REQ_HOSPLIT		Value	Off	01-07 09:29:03
DG6_REQ		Value	On	01-07 09:29:04
DG8_REQ		Value	On	01-07 09:29:04
TT_440_005	FLV: IN AHIS WTR TH	Sig.Err	Normal	01-07 09:29:11
PBL_217_014	DOS G 6 MDO IN	Value	Normal	01-07 17:13:26
PBL_217_009	DOS L 8 MDO IN	Value	Normal	01-07 17:13:26
PT_217_022	DOS MDO INLET	Lim L1	2.50 BAR	01-07 17:13:27
PT_217_023	DOS MDO INLET	Lim L1	2.50 BAR	01-07 17:13:27
PT_217_015	(P) MDO SYSTEM	Lim L1	2.50 BAR	01-07 17:13:28



Variable	Description	Unit	Value	Status	Timestamp
PT_217_022	DG6 MDO INLET	Lim L1	2.50 BAR		01-07 17:13:27.420
PT_217_023	DG7 MDO INLET	Lim L1	2.50 BAR		01-07 17:13:27.425
PT_217_015	(P) MDO SYSTEM	Lim L1	2.50 BAR		01-07 17:13:28.410
XI_252_370	ROV WINCH BKR CLD	Sig.Err	Alarm		01-08 18:43:35.414
XI_252_370	ROV WINCH BKR CLD	Sig.Err	Normal		01-08 18:43:35.569
XI_252_370	ROV WINCH BKR CLD	Sig.Err	Alarm		01-08 18:43:36.69
PMP_217_201	(P) MDO PP4	Manual	On		01-08 19:17:57.520
XI_252_370	ROV WINCH BKR CLD	Sig.Err	Alarm		01-08 19:18:00.69
PT_217_023	DG7 MDO INLET	Lim L1	2.50 BAR		01-08 19:18:11.425
PT_217_024	DG8 MDO INLET	Lim L1	2.50 BAR		01-08 19:18:11.435
XI_252_370	ROV WINCH BKR CLD	Sig.Err	Alarm		01-08 19:18:11.69
XI_252_370	ROV WINCH BKR CLD	Sig.Err	Normal		01-08 19:18:11.414

Know your past...
For professional users only

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Background

Historically the task of storing log-data from a process control system is done by a line-printer (usually a dot-matrix printer). One or several printers were connected directly to the RS232C output lines of the system. This printer (or these printers) introduced a problem in the daily operations due to

- Mechanical problems with the printers
- Out of paper
- Paper crash
- Noise

But the most important drawbacks were

- The **unreliability** of the system
- The **lack of computer-aided searching** in the logged data
- The **lack of mass storing** of the logged data.

PRILog eliminates these problems by collecting serial data from RS232/422/485 cable(s) or TCP/IP sources into a personal computer (PC).

Feature-list:

- Can continuously log alarms / events from any kind of system which produces text-lines
- Runs on any industry standard personal computer (PC)
- Runs under the following operating systems:
 - MS-DOS (and most compatibles) (requires Prilog version 4)
 - Microsoft Windows 95/98
 - Microsoft Windows NT/2000
- Connects one PC to 1 to 150 (or more) sources using serial (RS232/422/485) or TCP/IP
- Can log lines with more than 80 characters (Windows version)
- Maintenance free
- Is fully user-interactive during the logging process
- Lets the user view, browse and search of alarms / events
- Export specified data to a file or a printer (local or remote via network)
- Is user friendly with help screens
- Modification of incoming data, replacing of characters, remove escape-sequences etc.
- Networking: A Prilog may be used from anywhere in the network
- Weekly export of logged data
- Colour definition of the lines by search criteria to group them into logical groups
- E-mail or text-message to mobile phone¹ (SMS) at specified alarms

¹ At the moment, SMS-message sending is available only with an extra cost. The SMS function uses a modem to directly transfer the messages to the message-relaying service of the appropriate telephone company.

- Playback of stored sound at specified alarms
- Web-output - view the 150 last lines with your web-browser
- Upgrading from earlier versions possible with a conversion program

PRILOG Writer (logger) AND PRILOG Reader (viewer)

PRILOG is separated into two programs that work together. Generally, the reader is the user-program and the writer the program which physically logs data on disk.

The PRILOG writer / logger:

- Collects data from 1 source - either serial line or TCP / IP channel
- Writes this data to one storage file (roundbuffer file)
- It displays each line received in a window
- Configuration of communications and the treatment of lines.

The PRILOG reader / viewer:

- It connects to a PRILOG directory and uses the data stored there by the PRILOG writer
- It has a MANUAL mode and a TRUE mode
- It's MANUAL mode lets the user scroll, inspect, search, export etc. the lines
- It's TRUE mode displays an updated list of the newest incoming lines
- It has all the user-functions as described in this document

PC requirements:

Prilog generally does not require much of the computer. However, HMA recommends the following minimum specification:

Operating system: Windows 95 (preferably OSR2 or later), Windows 98 or Windows NT 4/2000.

CPU: Minimum a 486, 66Mhz. Pentium if running NT/2000.

RAM: 32MB or more, Windows NT: 64MB or more

Monitor: 1024x768 colour or better

Harddisk: Depends on the amount of storage for Prilog, but 1GB will be enough for the operating system and 6 different Prilog channels with 1 million storage-lines each.

Serial input card (if applicable). If PRILOG is to log data from a serial source and the computer does not have a free port. See below.

Mouse: May run without, but it is nice to have for the reader / viewer.

Network-card (option). If TCP/IP logging or remote access via network is to be used.

Sound-card (option). If playback of alarm-sound/message when specific alarms arrive.

Serial input details

PRILOG may use any serial input cable that conforms to the RS232, RS422 or RS485 standard.

Almost all PC's has one or more RS232 ports. However, a computer may have additional cards which gives the computer more physical ports. Windows supports more than 150 physical ports. HMA will assist in configuring additional ports if required. Each physical port requires one PRILOG writer / logger running. HMA has experience with multiport I/O boards which is simple to set up and configure.

All port parameters are supported: 1 start bit, 5-8 data bits, 1-2 stop bits, even/odd/mark/space parity, 50-115200 bits per second.

Networking details

PRILOG may use any network that Microsoft supports on their operating systems. However, if PRILOG is configured to *log* via network, only the TCP/IP protocol is supported and requires signal-sources in the network that is delivering the data using the standard Unix print mechanism (lp).

A PRILOG reader / viewer will, however be able to connect to a PRILOG writer / logger if it has file-system access to it via the network - independently on the underlying network protocol (e.g. IPX/SPX, NetBios etc.)

Maintenance-free storage

The data is stored in a circular file (roundbuffer file) on the hard drive. Circular means that when the amount of messages reaches it's pre-defined maximum, the new messages are starting to over-write the oldest messages. This eliminates the problem with a full disk due to too many logged messages, thus leaving the PC maintenance-free.

The size of the data file is only limited by available harddisk space. The data-file is also created during installation of PRILOG. This ensures that no other program may "steal" valuable space from PRILOG during use.

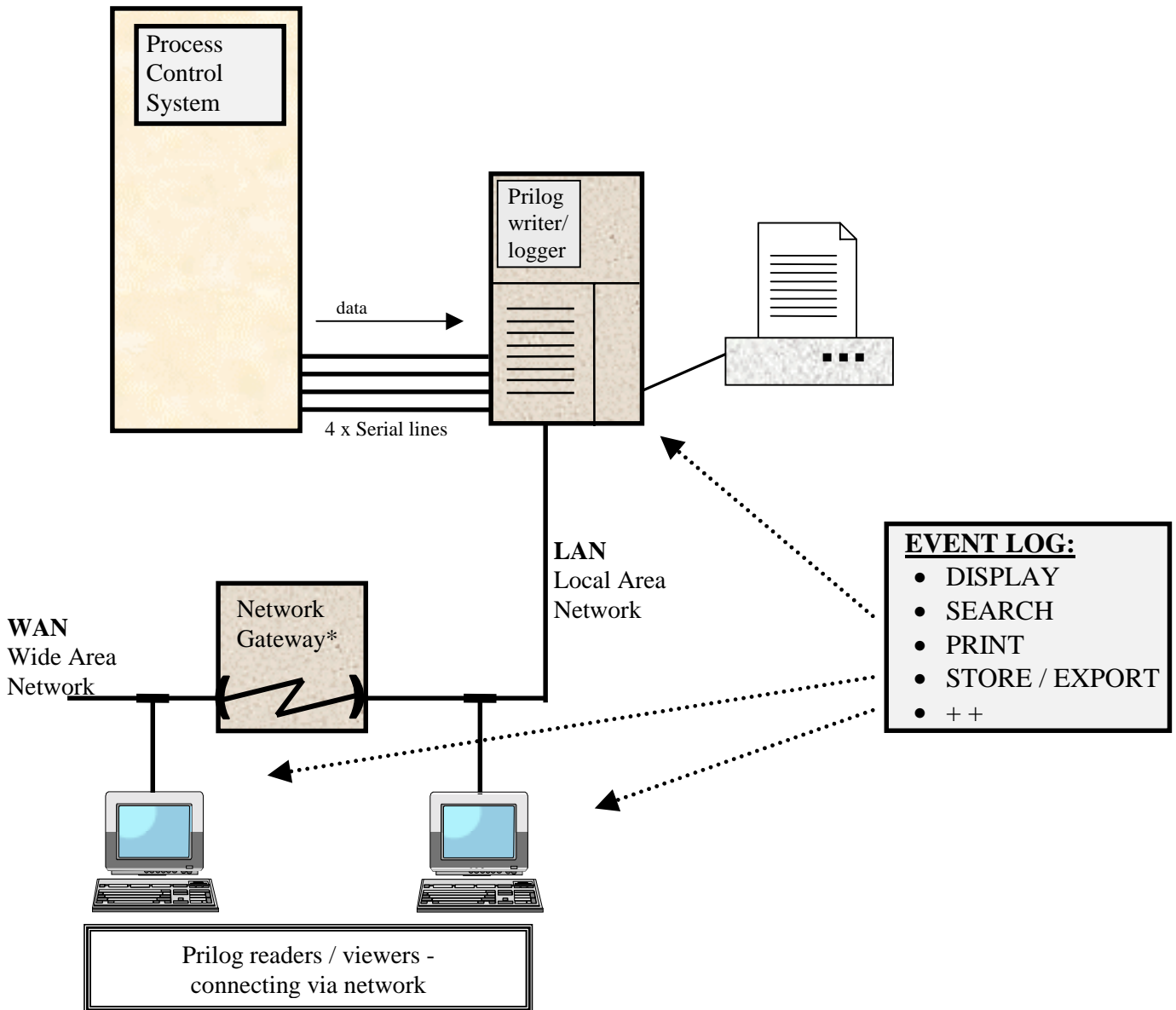
When you install PRILOG, you define how many characters per line you want to use. This determines how many lines you can store.

Example

This means that if you set aside 1000MB space on a hard drive for one channel and use 130 characters per line, you can log about 7.2 million lines from this channel before the oldest message is overwritten. If Prilog receives one line each second, you can store data approximately 84 days backwards.

HARDWARE INSTALLATION

The serial cable(s) from the control system is to be connected to the PC's COM port(s). If TCP/IP printing is used or PRILOG readers / viewers are to be used, the network card must also be connected to the computer. A hardcopy printer may also be connected. The simple drawing below shows how PRILOG may be connected to 4 serial channels. Note that a computer on the LAN may be a TCP/IP source, even if not indicated below.



* Network gateway: Any gateway to any other network system, via cable, radio-link, telephone, satellite etc.

Software installation

General

PRILOG is installed by running a setup program that installs one channel. Additional channels require running the setup-program more times. The location on the disk drive is specified at setup. If installed under Windows NT, you need to install as administrator.

Installation

A PRILOG channel is normally kept under the root-directory of the harddisk. During setup, you define the location and logical channel name for the installation:

<i>Install directory</i>	<i>Channel name</i>	<i>Comment</i>
C:\ALARMS1	Alarm channel no. 1	Directory and name for Alarms system one (for example with source = COM1)
C:\EVENTS1	Event channel no. 1	Directory and name for Events channel 1 (for example with source = COM2)
C:\EVENTS2	Event channel no. 2	Directory and name for events channel 2 (for example with source = TCP/IP)

The directory where the channel resides is called the *base directory*. Each channel is given a logical channel name.

Uninstallation

PRILOG may be uninstalled using the standard remove program mechanism under Windows in the control panel. The data files and configuration file created for the channel, however, is not deleted. PRILOG may also be deleted by deleting the base directory and erasing a key in the registry (explained in the user-manual).

Usage of Prilog writer / logger

Alarm channel no. 1					
TT_440_005_	FLV1 RM AHU5 WTR IN	Sig.Err	Normal	01-07 09:29:11.713	
PSL_217_014_	DG5 & 6 MDO IN	Value	Normal	01-07 17:13:26.490	
PSL_217_009_	DG7 & 8 MDO IN	Value	Normal	01-07 17:13:26.490	
PT_217_022_	DG6 MDO INLET	Lim L1	2.50 BAR	01-07 17:13:27.420	
PT_217_023_	DG7 MDO INLET	Lim L1	2.50 BAR	01-07 17:13:27.425	
PT_217_015_	(P) MDO SYSTEM	Lim L1	2.50 BAR	01-07 17:13:28.410	
XI_252_370_	ROV WINCH BKR CLD	Sig.Err	Alarm	01-08 18:43:35.414	
XI_252_370_	ROV WINCH BKR CLD	Sig.Err	Normal	01-08 18:43:35.569	
XI_252_370_	ROV WINCH BKR CLD	Sig.Err	Alarm	01-08 18:43:36.69	
FMP_217_201_	(P) MDO PP4	Manual	On	01-08 19:17:57.520	
XI_252_370_	ROV WINCH BKR CLD	Sig.Err	Alarm	01-08 19:18:00.69	
PT_217_023_	DG7 MDO INLET	Lim L1	2.50 BAR	01-08 19:18:11.425	
PT_217_024_	DG8 MDO INLET	Lim L1	2.50 BAR	01-08 19:18:11.435	
XI_252_370_	ROV WINCH BKR CLD	Sig.Err	Alarm	01-08 19:18:11.69	
XI_252_370_	ROV WINCH BKR CLD	Sig.Err	Normal	01-08 19:18:11.414	

Startup

Prilog writer / logger is run minimized when started. You maximize Prilog only when you are going to change setup or view the current setup / status of the running program. Do this by double-clicking the program at the taskbar.



Note that by pressing ALT-F4, the window menu (system menu) or by the X in the upper right window, Prilog is not terminated, but minimized to a taskbar-icon.

Menu items:

Setup / Communications setup

Here, you may alter the communication parameter for serial communications or TCP/IP communications. See the chapters in this document for details.

KEYBOARD: ALT-S + C

SHORTCUT: Press the “Communications setup” button on the tool bar below the menu.

Setup / Exclude characters setup

Here, you may check each character you want to remove from the incoming lines before they are processed with the formatstring. These are characters that appear as “garbage”. By default, the ASCII value 12, Form Feed, is the only character in this list. You may check or uncheck any ASCII value

from 0 to 255 during runtime and the change is effective immediately. This setup is immediately stored in the channel's INI-file.

KEYBOARD: ALT-S + E

Setup / Replace characters setup

You can here define a replacement table for single characters. In the leftmost three columns you can choose either to enter the character itself, or it's ASCII value in decimal or hexadecimal (if it is difficult to enter it from the keyboard). Likewise, you enter the character you want to replace the first with in the three rightmost columns.

You may this way add and delete replace characters. You may also disable this feature by un-checking the checkbox at the bottom of the dialogue-window.

If you don't know the ASCII value and can't enter it from the keyboard, Prilog has a useful feature to obtain this information. First make sure to log at least one line that contains the character you want to replace. Then, start the Prilog reader / viewer and click with the right mouse-button on the character. You will then be presented with the character's ASCII value in both decimal and hexadecimal.

Setup / Action setup

The action-setup lets you define a search criteria and a variety of actions which are done when a line matching the search criteria arrives. Possible actions are:

- Colour marking the line: You define a background and foreground colour of the line
- E-mail sending to a specific receiver via the intranet or internet (requires TCP/IP)
- SMS-sending to a mobile phone with a cut-out of the actual line.
- SMS-sending may also be enabled or disabled as an action which means that for example it can be turned off during the working hours of the day.
- Playback of a pre-recorded sound-file.

The search criteria may be large and complex with And/Or/Nand/Nor operators.

Setup / Replace words

This is a list of words, each with a existing or not-existing corresponding word. If the first word is found in a line, the corresponding word is replaced with this one. If the corresponding word is not-existing, the word is simply removed (i.e. replaced with a empty word). The words may contain escape-sequences or any other special code. This allows for removal of unwanted "noise". Note, however, that this is processed *after* the action-setup allowing the action-setup to match these sequences or codes before they are removed.

Setup / Edit of formatstring

This function works like earlier versions of Prilog. The format string is a character string with a length of a Prilog line containing either + signs or - signs. The purpose is to be able to edit the line received to remove unwanted space or information. A minus sign will remove a character at that position, and a plus sign will let it stay.

Example:

```
0123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZ (original line as it was received)
+++++-----+++++-----+++++-----+++++ (format string)
0123456 ABCDEFGHIJOPQRSTWXYZ (resulting line)
```

KEYBOARD: ALT-S + D

Setup / Maximize & Restore & Minimize window

These menu items will either maximize, restore or minimize the whole Prilog program on the screen. Prilog will run normally in any of these three modes.

KEYBOARD: ALT-S + M, R or I

Setup / Exit

This will stop (terminate) Prilog. It is the only way to terminate Prilog. You will be asked if you are sure you want to stop.

Note that if you use ALT-F4, Close from the window-menu (system menu) or press the X in the upper right corner, Prilog will not terminate, but just hide and go down to the task bar at the right-hand side next to the clocks and other taskbar-icons.

KEYBOARD: ALT-S + X

Information / File info

This menu item will open the window which you specified the size of the data file. Here you can inspect the line length, file size, channel name and the names of the files. You cannot alter the values here. You can't alter the values after you have created a data file. It is possible to edit the INI file for the channel, but you cannot alter any values relevant for the dat file. During Prilog startup, the data file is validated for correct size so that Prilog won't corrupt data files it (wrongly) uses.

KEYBOARD: ALT-I + F

SHORTCUT: Press the "File info" button on the tool bar below the menu.

Information / Communications status

This will bring up a status and debug window of the serial communication.

Test / Read from communications device

This is the default mode. Data is read from the configured communications device - either a serial line or from TCP / IP.

KEYBOARD: ALT-T + R

Test / Generate test lines

In this mode, Prilog will itself generate test lines as if they were read from the communications device. This mode is for demo and debugging purposes as a connected Prilog reader / viewer will be able to observe these lines as if they were ordinary lines.

KEYBOARD: ALT-T + G

Other information

On the toolbar, the rightmost field, the channel name is written. It is the one specified at channel setup and stored in the INI file belonging to the channel and stored in the same directory as the DAT and PEK file.

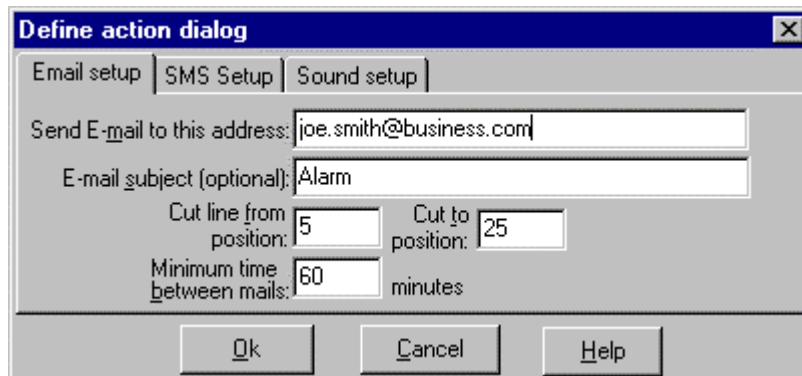
Setup / Action setup

The action setup in the Prilog writer / logger lets the user define the following:

Search-criteria

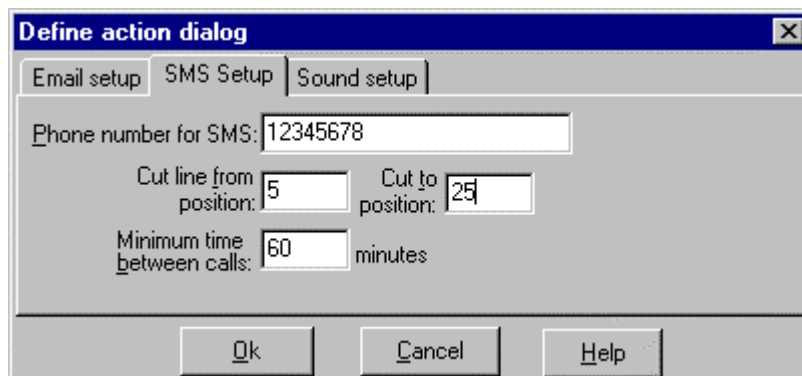
Up to 16 different search criteria's may be defined in the action-setup. For each of these, an action may be defined, meaning the action is executed if a line which is received matches the search-criteria. The search criteria can be a complex, multi-part and/or/nand/nor expression with both case-sensitive and non-casesensitive searches.

E-mail (internet) address



If a search-criteria is match, Prilog may send an email to a specific address given for this search criteria. Included in the message is an optional custom-subject and, as the body-text, the received line which generated the action. To limit the amount of information sent in the body-text, one may define to cut out a only the most interesting part of it. This because the e-mail function may be used to send SMS-messages for e-mail accounts that supports forwarding to mobile phones. This option requires either a direct connection to the internet/intranet or via dial-up networking.

Telephone number for SMS or text-messages to digital phones



A telephone number may also be specified. Prilog will then send an SMS-message to the defined phone. It does this by sending it via a special protocol to a message-central in the local telephone company. It uses analogue modem or ISDN to accomplish this.

Sound file playback

If a sound file is defined, Prilog will do a playback on this file at once a line matching the search-criteria is met. This option requires to pre-record sound-files - which could be a message in the local language with specific information about this very alarm.

These buttons on the toolbar work in manual mode:

HOME or H: Takes you to the line that is newest. The newest line is the line at the bottom of the screen.

UP: Scrolls upwards - thus backwards in the data towards older data.

Down: Scrolls downwards - thus forward in the data towards newer data.

Page up: Will scroll one screen upward towards older data.

Page down: Will scroll one screen downward towards newer data.

Note that these keyboard shortcuts also work:

Up/Down/Page up/Page down work the same way as above.

CTRL-PageUp scrolls approximately 25 pages upwards.

CTRL-PageDown scrolls approximately 25 pages downwards.

In addition, there is a vertical scroll-bar at the right of the screen. Clicking it with the mouse and holding the button down lets you scroll backwards in the data file. If the scroll bar is at the lowest position, you are at the newest line. If the scroll bar is at the highest position, you are at the end of the lines (oldest data).

NOTE: Scrolling downwards may cause you to “turn over” when you reach the newest incoming line to the oldest data. You can still scroll downwards, but the effect is that you just scroll around the round-buffer. The same happens if you scroll upwards. When you reach the oldest line and scroll more, you will see the newest line.

KEYBOARD: M, ALT-M + M

SHORTCUT: Press the button on the toolbar marked “MAN”.

Menu items

File / Open another channel

This menu item will connect to another Prilog writer. It will bring up a file selection box where you can browse through your own computer or the network and specify the directory. You may select any file in the directory. Chose “open” and Prilog will connect to this writer and let you inspect the data in it.

KEYBOARD: ALT-F + O

File / Save settings on exit

Selecting this menu item will toggle on / off the saving of the prilog reader settings. The settings include colours and font information used. The settings are stored within Windows at the computer you are running and the next time you start Prilog reader, it will use this information. See the chapter called “Prilog reader: saving setup in windows registry” for details.

KEYBOARD: ALT-F + S

File / Font setup

Lets you choose the font type and colour used.

KEYBOARD: ALT-F + F

SHORTCUT: Press the “Font” button on the tool bar.

File / Colour setup

Lets you choose different colour to individual lines. You define one or two words and Prilog mark lines containing these words with the colour you choose.

File / Export

Let's you export data from Prilog to a file. See the chapter explaining export for details.

KEYBOARD: ALT-F + E

SHORTCUT: Press the "export" button on the tool bar.

File / Print

This menu item will print the complete Prilog window as you see it, but with white background. To print larger amounts of lines, use the export function. Export to file and open the export file in a word processor and print the text from there.

KEYBOARD: ALT-F + P

File / Print setup

Lets you chose printer and setup for the printer.

KEYBOARD: ALT-F + R

File / Exit

Terminates the Prilog reader / viewer.

KEYBOARD: ALT-F + X or ALT-F4

Edit / Copy page

This function will copy all Prilog data visible in the window to the clipboard. All data existing on the clipboard is possible to paste into other program - for instance word processors. For instance, use this function to quickly paste lines from Prilog into a report among other text.

KEYBOARD: CTRL-C or ALT-E + C

Edit / Find

This function lets you search through all Prilog data or a limited time period. It includes AND / OR / NOT operators. See the chapter about the find function for details.

KEYBOARD: F, S or ALT-E + F

SHORTCUT: Press the button on the toolbar with a magnifying glass:



NOTE: If you press mouse button 2 (usually the right button) on the search-button above, you will (if you are in manual mode) be positioned at the last search-position. The found line is highlighted.

Mode / True Mode

This selects True mode

Mode / Manual Mode

This selects Manual mode

Channels

This menu contains a list of all channels that is registered - that is which Prilog knows about. When a channel is opened, it is remembered, so that it can be selected later - quickly - by this menu.

Help

To get help on Prilog, press the help symbol:



Prilog also has a help file (PRILOG.HLP) giving short help on some issues. These are mostly issues regarding problems when a error box appears and you press the help-button.

The search function:

You have nine fields to enter a search criteria. These fields may hold any characters that may exist in the PRILOG data which you will find.

The (boolean) logic is as follows taken this numbering of the fields:

	A	B	C
	D	E	F
NOT	G	H	I

Result = (A OR B OR C) AND (D OR E OR F) AND (G OR H OR I)

alternatively with the NOT box checked:

Result = (A OR B OR C) AND (D OR E OR F) AND (NOT (G OR H OR I))

As with the export function, a search may be limited to a time period. An exact from and to date and time may be specified.

The position at which PRILOG starts to search is possible to chose. There are two possibilities:

1. Search from the last found line. This line is highlighted in the main window if you are in manual mode. If it is the first time you search, the start-position is at the newest line. If you search in this mode, you may press the “Search” button several times to step backwards in time from line - to - line that matches the search criteria - thus enabling the “find next” effect.
2. Search from the newest line. If you check this radio-button all searches will always start at the newest arrived line.

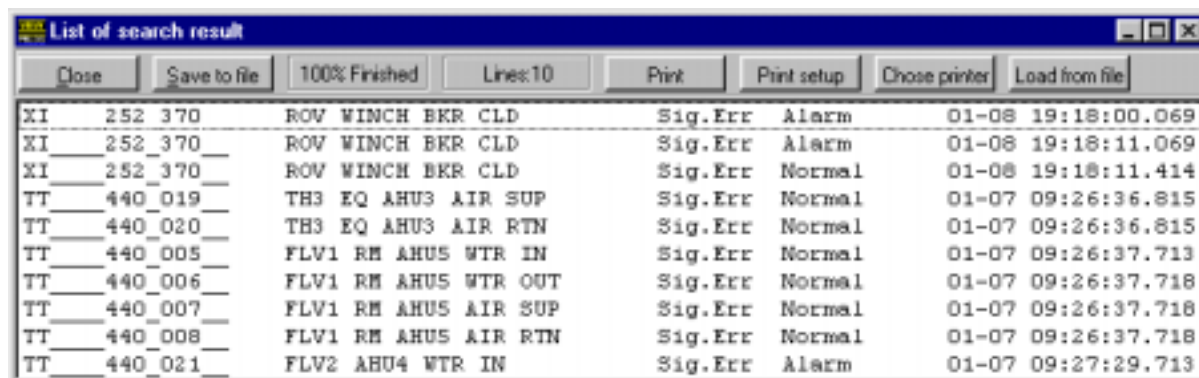
Of course, if you apply a time-period limitation to the search, this setting has no effect.

As output, PRILOG supports two ways:

1. Press the “Search” button: Search to the first occurrence and stop searching, but position the main window in manual mode at the found line with another colour on this line (highlighted line). To find the NEXT occurrence, press “Search” again.

2. Press the "List" button: This will produce a separate window with a list of lines that are found within the complete search-range. Several hundred lines may be listed in this way. You may save this list result to a DOS text-file.

An example LIST result window:



Line ID	Description	Status	Timestamp
XI 252_370	ROV WINCH BKR CLD	Sig.Err Alarm	01-08 19:18:00.069
XI 252_370	ROV WINCH BKR CLD	Sig.Err Alarm	01-08 19:18:11.069
XI 252_370	ROV WINCH BKR CLD	Sig.Err Normal	01-08 19:18:11.414
TT 440_019	TH3 EQ AHU3 AIR SUP	Sig.Err Normal	01-07 09:26:36.815
TT 440_020	TH3 EQ AHU3 AIR RTN	Sig.Err Normal	01-07 09:26:36.815
TT 440_005	FLV1 RM AHU5 WTR IN	Sig.Err Normal	01-07 09:26:37.713
TT 440_006	FLV1 RM AHU5 WTR OUT	Sig.Err Normal	01-07 09:26:37.718
TT 440_007	FLV1 RM AHU5 AIR SUP	Sig.Err Normal	01-07 09:26:37.718
TT 440_008	FLV1 RM AHU5 AIR RTN	Sig.Err Normal	01-07 09:26:37.718
TT 440_021	FLV2 AHU4 WTR IN	Sig.Err Alarm	01-07 09:27:29.713

You may scroll back and forth in the list result to view the lines. You may also cut away lines directly in the window. If you press the "Save to file" button, all lines are saved to a file. "Load from files" will load an earlier saved file into the window for further inspection.

The print function will print all the text within the list window to the configured windows-printer.

The Export function:

Export PRILOG data

Export number of lines: Search from last received line and: lines backwards...

Export number of days backwards: From: Now Highlight Last line Manual pos

Export a specific time period:

From:

To:

Apply this search criteria to selected lines:

Save as filformat:

Export filename:

Export functions

You have three different export types to chose from:

1. Export a specified number of lines from the newest incoming line and backwards.
2. Export a specified number of days backwards from a specified time:
 - From the current date / time
 - From the date / time that belongs to the line that last was found
 - From the date / time that belongs to the last incoming line (newest line)
 - From the date / time that belongs to the screen-position which you are at the moment in manual mode.
3. Export lines between two date / times.

You may save the data in either DOS format (CR+LF as line termination characters) or Unix format (only LF as line termination character).

If you press the “Calculate size” button, PRILOG will attempt to calculate the size of the export file. This will help you determine if you have enough space to hold the export file.

Further information - How to contact

Further information on Prilog may be obtained from Høglund Marine Automation (HMA) at the following places:

WWW: <http://www.hma.no>

The user-manual may be read directly on www.hma.no/prilog

PRILOG may also be tested interactively on our website in the above address.

The user manual may be downloaded from www.hma.no/download in pdf* format

This document may also be downloaded in pdf* format from the above address.

Phone: +47 22 71 73 80

Fax: +47 22 71 73 82

Email: prilog@hma.no

Post: Høglund Marine Automasjon A/S

Lofotgt 1

N-0458

Oslo

NORWAY

This document and the user manual is available in printed form, available on request.

*Note: The pdf format is a format supported by Adobe Systems Incorporated. You need the Acrobat Reader to view these documents. The Acrobat Reader is available free of cost on most operating systems. It can be downloaded from <http://www.adobe.com>. There is also an english version on the distribution CD of Prilog.