



PermaNet SMS PermaHOST Application User's Manual

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PermaNet SMS PermaHOST Application User's Manual MAN-064-0002 Issue E Date 01-February-2011 Author: Alaina Tan Proof-read by:

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Introduction

This document has been written to facilitate the user in the use of PermaHOST Application Version 4.20 in conjunction with database version 4.20

For Authorisation Code (Page 156)

For Automatic Database upgrade, please follow:

• *Database Upgrade Procedure (With Registry Clean Up)* (Page 25)

For non-automated Database upgrade, please follow:

• Database->Update Database (Page 67)

For Auto-Import Coronis XML File, please follow:

• *Database->Auto-Import Coronis XML File* (Page 74)

For non-automated import of Coronis XML File, please follow:

• Database->Import Coronis XML File (Page 72)

PermaHOST Installation Guide:

- Install PermaHOST Application (Page 17)
- Uninstall Previous PermaHOST Version (Page 23)

Features Available For PermaHOST Version 4.20 with Database Version 4.20 (Page 26)

b Setup PermaNet SMS Dialog Explained (**Page 150**)

Quick Reference – Location Pane Logger Display Icon for Normal Pipe Sensitivity (Page 38) Quick Reference – Location Pane Logger Display Icon for Custom Pipe Sensitivity (Page 42)

• Duplicated Serial Numbers Usage Explained. (Page 52)

A Step by Step Guide is provided to the user:

• STEP BY STEP GUIDE ON PERMAHOST APPLICATION (Page 54)

PermaHOST Installation Guide



Macrovision Corporation

Figure 1: PermaHOST Application

Figure 1 shows the installation file for PermaHOST Application. Note the previous version of PermaHOST should be uninstalled from the PC before carrying out the installation process. To uninstall previous Version, please follow the procedure Uninstall Previous PermaHOST Version.

Install PermaHOST Application

1. Double-click on the icon shown in *Figure 1* that comes with your installation ZIP file. Figure 2 will be shown, followed by Figure 3.



Figure 2: Starting InstallShield Wizard...



Figure 3: InstallShield Wizard -> Choose Setup Language

2. Select the Language you wish to use for the Application being installed.

2.1. Click

2.2. Figure 4, Figure 5 and Figure 6 will be shown.



Figure 4: PermaHOST Application SETUP Screen (example)



Figure 5: InstallShield Wizard -> Preparing Setup

PermaHOST - InstallShield V	/izard
	Welcome to the InstallShield Wizard for PermaHOST The InstallShield® Wizard will install PermaHOST on your computer. To continue, click Next.
InstallShield	< Back Next 2 Cancel

Figure 6: InstallShield Wizard -> Welcome

- 3. Once the screen in *Figure 6* is shown. Click \square
 - 3.1. *Figure* 7 Licence Agreement will be shown.
 - 3.2. Check the Radio Button:



Figure 7: InstallShield Wizard -> License Agreement

- - 4.1. Fill in the <u>U</u>ser Name and <u>C</u>ompany Name.

PermaHOST - InstallShield Wi	zard	X
Customer Information Please enter your information.		
	Please enter your name and the name of the company for which you work.	
	∐ser Name: Admin Company Name: Palmer	
InstallShield	< Back Next > Cancel	7

Figure 8: InstallShield Wizard -> Customer Information

5. Click . The "Choose Destination Location" Screen will be shown (See *Figure 9*).



Figure 9: InstallShield Wizard -> Choose Destination Location6. Click. Figure 10 will be shown.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E PermaHOST Installation Guide – Install PermaHOST Application

PermaHOST - InstallShield Wiza	ard 🛛 🔀
Ready to Install the Program The wizard is ready to begin installat	ion.
	Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield	< Back Install Cancel

Figure 10: InstallShield Wizard -> Ready to Install the Program

- 7. Click Figure 11 will be shown.
- 8. On completing the installation, *Figure 12* will be shown.
- 9. Click Finish



Figure 11: InstallShield Wizard -> Setup Status

Figure 12: InstallShield Wizard -> InstallShield Wizard Complete

10. Notice that PermaHOST application and its shortcuts have been added to the Operating System:



11. To locate the installation file if the default installation path is chosen, please go to:

11.1. C:\Program Files\ HWM-Water Ltd \PermaHOST

Uninstall Previous PermaHOST Version

- 1. Double-click on the icon shown in *Figure 1* that came with your installation ZIP file. *Figure 2*, *Figure 4* and *Figure 5* will be shown in turn.
- 2. When Figure 5 process bar has been completed, Figure 13 will be shown.

PermaHOST - InstallShield	∜izard	×
Welcome Modify, repair, or remove the pr	ogram.	
	Welcome to the PermaHOST Setup Maintenance program. This program lets you modify the current installation. Click one of the options below. Modify Image: Select new program features to add or select currently installed features to remove. Repair Image: Select new program features installed by the previous setup. Remove Remove all installed features.	
InstallShield	< Back Next > Cancel	

Figure 13: InstallShield-> Modify, repair, or remove the program

- 3. Select the Radio Button <u>Bemove</u> as shown in *Figure 13*.
- 4. Click \underbrace{Next} . *Figure 14* will be shown.
- 5. Click <u>Yes</u> to remove PermaHOST Application.
 - 5.1. *Figure 11* will be shown (SETUP STATUS).

PermaHOST - InstallShield Wizard
Do you want to completely remove the selected application and all of its features?
<u>Y</u> es <u>N</u> o

Figure 14: Confirm File Deletion (Uninstall Previous Version of PermaHOST)

- 6. When the uninstall process had been completed. Figure 15 will be shown.
- 7. Click Finish

8. Notice that PermaHOST application and its shortcuts have been removed from the Operating System.



Figure 15: Uninstall (Completed Screen)

Database Upgrade Procedure (With Registry Clean Up)

NOTE: Database Upgrade Procedure instructions below only apply to PermaHOST Application V4.00 onwards. If you are not using Application from Version V4.00, please refer to previous MAN-064-0002-C for the old procedure to upgrade your database.

The following Application Versions are supported for Automatic Database upgrade. Supported Application versions are V3.50, V3.70, V3.80, V3.81, V3.82, V3.90 and V4.00 onwards.

Upon Installation of Application Version from V4.00 onwards, should a previous installation registry exist, the application will automatically commence the Database upgrade to work with the current Application version. The old registry will automatically be deleted after being copied to the new application registry.

On completion of the automatic upgrade of the last opened database, the PermaHOST Application will automatically start with the new database and new copied registry.

If there is no previous registry, hence no database to be upgraded automatically, the user has to select a valid database version to open with the designated version of PermaHOST Application.

Location of Current Access Database on the Computer	PermaHOST - C: Documents an Ele Yew Settings Database Help Settings Database Help Settings Database Help ALARMS (0) ALARM	nd Settings\alaina_t\Des	ktopWilled Power Datab	nse \WSD\WSD-NP-RM104 Number of Data Reports 18888	⊚20100706(¥4.00),mdb	
Computer	Received Messages (1555 Sent Messages (1) Failed Messages (9) Ready	Information Unfiltered. All Permal	ogs and History are disp	layed.		Modem Signal:

Figure 16: Location of Current Access Database

The current selected and opened database will be shown on the title bar, as shown in the example in *Figure 16*.

Features Available For PermaHOST Version 4.20 with Database Version 4.20



Figure 17: PermaHOST Application Screen

Figure 17 shows the PermaHOST Application screen.

"Title Menu" contains the following main menu items:

• From V4.00 onwards, the "Title Menu" also includes "Database" option.

The Application is split into 3 windows/panes.

- 1. Location Pane
- 2. Data Pane
- 3. Graphical Pane

The Toolbar (🗅 🗃 🗐 👗 🛅 💼 🦪 🧣 🕻 🏠 🚳) provides shortcut that the user could use.

- From Version 3.70, the toolbar also includes a filter summary icon: 🕻 (Note this icon is greyed out, when no filter is active)
- From Version 3.80, the toolbar also includes a Summary Screen Icon:

The Status Bar simply provides information to the end user. E.g. Modem Signal Strength.

Ready Modem Signal:

Title menu

Table 1: Title menu -> File Options

(See Figure 18)

- 1. File->New Access Database
- 2. File->New Area/Regions
- 3. File->Open Access Database
- 4. File->Save As...
- 5. File->Print Setup...
- 6. File->Exit

File	View	Settings	Dat	abase	Hel		
N	ew Aco	Ctrl+N					
N	ew Are	as/Regions					
0	pen Ao	cess Datab	ase	Ctrl+0			
Sa	Save As						
Pr	rint			Ctrl+P			
Print Preview							
Pt	rint Seti	чр					
E	kit						

Figure 18: Title Menu->File

Settings

View.

🗸 Toolbar

Status Bar

Filters

Table 2: Title menu -> View Options

(See Figure 19)

- 7. View->Toolbar
- 8. View->Status Bar

(See Figure 19 & Figure 20)

- 9. View->Filters
 - 9.1. Date Range
 - 9.2. PermaNet SMS Number (SIM/Serial)
 - 9.3. Leak Only
 - 9.4. No Leak Only
 - 9.5. Active Loggers Only
 - 9.6. Inactive Loggers Only
 - 9.7. Location Number

Date Range PermaNet SMS Number (SIM/Serial) Leak Only No Leak Only Active Loggers Only Inactive Loggers Only Location Number

Figure 19: Title Menu-> View

Figure 20: Title Menu-> View-> Filters

Table 3: Title menu -> Settings Options

(See *Figure 21*)

- 10. Settings->Modem Settings->Port->COM x (where x ranges from 1 to 16)
- 11. Settings->Modem Settings->Type->{modem type}
- 12. Settings->Date Format (For this part, everything related to date is supposed to be in the

selected format. Except in Logger Details and Modify loggers.).

- 12.1. DD/MM/YY
- 12.2. MM/DD/YY
- 12.3. YYYY/MM/DD

13. Settings->Logfiles

- 13.1. New Log Files
 - 13.1.1. New PermaHOST Application Log File
 - 13.1.2. New PermaHOST Error Log File
 - 13.1.3. New Incoming SMS Log File
 - 13.1.4. New Outgoing SMS Log File
 - 13.1.5. New Activity Log File

13.2. Clear Log Files

- 13.2.1. Clear PermaHOST Application Log File
- 13.2.2. Clear PermaHOST Error Log File
- 13.2.3. Clear Incoming SMS Log File

Settings	Database	Help	
Moden	n Settings		۲
Date F Logfile	format Is) }
✓ Auto-S	Send SMS to	retrieve PermaNet SMS Config	

Figure 21: Title Menu->Settings



New Log Files	۲
Clear Log Files	۲
View Log Files FilePath	

New PermaHost Application Log File New PermaHost Error Log File

New Incoming SMS Log File New Outgoing SMS Log File

New Activity Log File

Clear PermaHost Application Log File Clear PermaHost Error Log File

Clear Incoming SMS Log File Clear Outgoing SMS Log File

Clear Activity Log File

13.2.4. Clear Outgoing SMS Log File

13.2.5. Clear Activity

- 13.3. View Log Files FilePath
 - 13.3.1. Displays the full file path of the logfiles location as shown in *Figure 61*.
 - 13.3.2. Note the default log files if the user does not define them are located in:
 - 13.3.2.1. C:\Program Files\ HWM-Water Ltd \PermaHOST\Logfiles\IncomingSmsLog.log
 - 13.3.2.2. C:\Program Files\ HWM-Water Ltd \PermaHOST\Logfiles\OutgoingSmsLog.log
 - 13.3.2.3. C:\Program Files\ HWM-Water Ltd\PermaHOST\Logfiles\PermaHOSTAppLog.log
 - 13.3.2.4. C:\Program Files\ HWM-Water Ltd\PermaHOST\Logfiles\PermaHOSTErrorLog.log
 - 13.3.2.5. C:\Program Files\ HWM-Water Ltd\PermaHOST\Logfiles\testDBLogFilesDir\testDBActivityLog.log

14. Settings -> Auto-Send SMS to retrieve PermaNET SMS Config

- 14.1. When there is a ✓ next to this setting, if a PermaNet SMS reports a GNET message for the first time and the PermaNet SMS configuration is not available in the database, PermaHOST will auto-send a message to the PermaNET SMS to retrieve its configuration. This will only be done once to avoid SMS wastage.
- 14.2. If the user chooses not to tick this option, the user could manually use PermaHOST to send a message to retrieve a particular PermaNET SMS as described in *Data Pane-> PermaNet SMS ->Send SMS to get PermaNet SMS Configuration* (Page 98).
- 14.3. By default, the auto-send feature is "ON".

Table 4: Title menu -> Database Options

(See *Figure 22*)

- 10. Database->Upgrade Database (Page 67)
 - 10.1. Used for database upgrade of previous PermaHOST Application Version database/s.
 - 10.2. Previous Application Version supported is V3.50, V3.70, V3.80, V3.81, V3.82 and V3.90.
 - 10.3. From V4.00 onwards, database upgrade will be supported.
- 11. Database->Import Coronis XML File (Page 72)
 - 11.1. Used for importing Coronis XML File to populate the database with logger Level and Spread History.
- 12. Database->Auto-Import Coronis XML File (Page 74)
 - 12.1. If ✓, the application will automatically extract Coronis XML file to populate the database with logger Level and Spread History.

13. Help->About PermaHOST...



Figure 23: Title Menu->Help

Most items in the PermaHOST application can be right-clicked to show a context menu applicable to the selected item. Some of the menu items are described below.

Database Help

Upgrade Database

Import Coronis XML File

✓ Auto-Import Coronis XML File

Figure 22: Title Menu->Database->Upgrade Database, Import/Auto-Import Coronis XML File

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E Features Available For PermaHOST Version 4.20 with Database Version 4.20

Unrecognised Messages

- 1. Location Pane->Clear All Unrecognised Messages
- 2. Location Pane->Clear Incoming SMS Log File
- 3. Data Pane->Copy
- 4. Data Pane->Remove

Received Messages

- 1. Location Pane->Clear All Received Messages
- 2. Location Pane->Clear Incoming Message Log File
- 3. Data Pane->Copy
- 4. Data Pane->Remove selected Message
- 5. Data Pane->Clear All Incoming Messages

🕪 Sent Messages

- 1. Location Pane->Clear All Sent Messages
- 2. Location Pane->Clear Outgoing Message Log File
- 3. Data Pane->Copy
- 4. Data Pane->Clear Selected Sent Message
- 5. Data Pane->Clear All Sent Messages

Failed Messages

- 1. Location Pane->Clear All Failed Messages
- 2. Location Pane->Clear Outgoing Message Log File
- 3. Data Pane->Copy to Clipboard
- 4. Data Pane->Send Selected Message Now
- 5. Data Pane->Remove Selected Message

Clear All Unrecognised Messages Clear Incoming SMS Log File

Сору	
Remove	

Clear All Received Messages Clear Incoming SMS Log File

Copy Remove Selected Message

Clear All Incoming Messages

Clear All Sent Messages Clear Outgoing Message Log File

Сору

Clear Selected Sent Message

Clear All Sent Messages

Clear All Failed Messages Clear Outgoing Message Log File

Copy to Clipboard Send Selected Message Now

Remove Selected Message

🛆 ALARMS

- 1. Location Pane->Export Alarms Histories
- 2. Location Pane->Clear All Alarm Histories
- 3. Data Pane->Export Alarm Histories
- 4. Data Pane->Delete Selected Alarm History
- 5. Data Pane->Print Alarm Histories
- 6. Data Pane->Print Preview

Export Alarms Histories Clear All Alarm Histories

Export Alarm Histories Delete Selected Alarm History Print Alarm Histories Print Preview

PermaNet SMS

(See Figure 24)

- 1. Location Pane->Add PermaNet SMS Config
- Location Pane->Export PermaNet SMS Configurations To CSV (See *Figure 25*)
- 3. Data Pane->Delete Selected PermaNet SMS Configuration
- 4. Data Pane->Add New PermaNet SMS Configuration
- 5. Data Pane->Edit PermaNet SMS Configuration
- 6. Data Pane->Send SMS to get PermaNet SMS Configuration
 - 6.1. This option allows user to use PermaHOST Application to send a "GET CONFIG" message to the PermaNet SMS.
 - 6.1.1. On the PermaNet SMS next data report day, PermaHOST should receive the configuration response from the PermaNet SMS and automatically update the database with this configuration.
 - 6.2. Note to use this option, user must at least enter the PermaNet SMS Telephone Number in "Setup PermaNet SMS" Dialog box.

Add PermaNet SMS Config Export PermaNet SMS Configurations To CSV

Figure 24: Location Pane PermaNet SMS Context Menu (Right-Click to access)

Delete Selected PermaNet SMS Configuration Add New PermaNet SMS Configuration Edit PermaNet SMS Configuration Send SMS to get PermaNet SMS Configuration For Trained Engineer Use

Figure 25: Data Pane PermaNet SMS Context Menu (Right-Click to access)

- 7. Data Pane->For Trained Engineer Use PermaNet SMS Information
 PermaNet SMS Alarm Specification
 - 7.1. Data Pane->For Trained Engineer Use->PermaNet SMS Information
 - 7.2. Data Pane->For Trained Engineer Use->PermaNet Alarm Specification

Por database (file with .mdb extension)

- 1. Location Pane->Add Areas/Regions
- 2. Location Pane->Close Access Database
- 3. Location Pane->Host PC Telephone Number
- 4. Location Pane->View Loggers in Leak State

Add Areas/Regions	
Close Access Database	
Host PC Telephone Number	
View Loggers in Leak State	

For Area/Region

(See Figure 26)

- 1. Location Pane->Add Logger
 - 1.1. For PermaHOST Application version prior to version 3.8x, to link a PermaNet SMS to a Permalog+, user must enter the PermaNET SMS Telephone number.
 - 1.2. From PermaHOST Application version 3.8x onwards, PermaHOST will automatically link a logger to the PermaNET SMS that send it GNET messages. PermaNET SMS Serial number is also automatically linked for the end user.
- 2. Location Pane->Export Area/Region Loggers Data Report to CSV
- 3. Location Pane->Export Area/Region Loggers Details to CSV
- 4. Location Pane->Export Active Loggers Details & Data Report to PermaLog CSV
- 5. Location Pane->Export Active Loggers Telephone Numbers to CSV
- 6. Location Pane->Rename Area/Region
- 7. Location Pane->Remove Area/Region
- 8. Location Pane->Send Text Message (To be removed)
 - 8.1. This option will be removed on the final release. Currently it is in the application because it is still in development.
- 9. Location Pane->INACTIVATE All Loggers in Selected Area/Region
- 10. Location Pane-> Selective Activation/Deactivation of logger in Area/Region
- 11. Change Pipe Sensitivity of all Loggers in Selected Area/Region

12.



Figure 26: Location Pane Area/Region Context Menu (Right-Click to access)
For Permalog+ Loggers

(See Figure 27)

- 1. Location Pane->View Logger Details
- 2. Location Pane->Modify Logger Details
 - 2.1. Note: To link a PermaNet SMS to a Permalog+, the user must enter the PermaNet SMS Telephone number.
- 3. Location Pane->Export Logger Data Report to CSV
- 4. Location Pane->Setup PermaNet SMS
- 5. Location Pane->Move Logger to Another Area/Region
- 6. Location Pane->Make Logger Active
 - 6.1. NOTE: At any one time for any duplicated serial number, only one of the duplicated numbers is allowed to be ACTIVE.
- 7. Location Pane->Delete Logger
- 8. Location Pane->Make Logger Inactive
 - 8.1. The user is allowed to make all duplicated serial numbers INACTIVE. Note that if this is the case, on receiving a GNET message with that particular serial, a new duplicated serial number will be created and made ACTIVE.
- 9. Manually Add/Change Level & Spread History

View Logger Details
Modify Logger Details
Export Logger Data Report to CSV
Setup PermaNet SMS
Move Logger to Another Area/Region
Make Logger Active
Delete Logger
Make Logger Inactive
Manually Add/Change Level & Spread History



- 10. Data Pane->Print Data Report
- 11. Data Pane->Print Preview
- 12. Data Pane->Delete Selected Data Report
- 13. Graphical Pane->Print Graph (Slow at the moment as printing in BMP.)
- 14. Graphical Pane->Print Preview

Print Data Report Print Preview Delete Selected Data Report

Print Graph Print Preview

Quick Reference – Location Pane Logger Display Icon for Normal Pipe Sensitivity

b Leak Display Icon in Location Pane (For Active Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Normal Pipe Sensitivity)

A Leak Display Icon as the one shown in *Figure* 28 is displayed in the Location Pane only if the following conditions are all true:

- 1. The **latest** logger Data Report has a leak.
- 2. ALARM/s has not been triggered.
- 3. The logger is ACTIVE.
- 4. The Pipe Sensitivity is default/normal.

🔈 02082979 (a)

Figure 28: Leak Display in Location Pane (For Active Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Normal Pipe Sensitivity)

No Leak Display Icon in Location Pane (For Active Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Normal Pipe Sensitivity)

A No Leak Display Icon as the one shown in \searrow *Figure* 29 is displayed in the Location Pane only if the following conditions are all true:

- 1. There is no leak in the **latest** Data Report.
- 2. ALARM/s has not been triggered.
- 3. The logger is ACTIVE.
- 4. The Pipe Sensitivity is default/normal.

🍾 01082477 (a)

Figure 29: No Leak Display in Location Pane (For Active Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Normal Pipe Sensitivity)

The Series of Series and Series

A Leak Display Icon as the one shown in *Figure* 30 is displayed in the Location Pane only if the following conditions are all true:

- 1. The **latest** logger Data Report has a leak
- 2. ALARM/s has not been triggered.
- 3. The logger is INACTIVE.
- 4. The Pipe Sensitivity is default/normal.

🔈 02083113 (a)

Figure 30: Leak Display in Location Pane (For Inactive Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Normal Pipe Sensitivity)

No Leak Display Icon in Location Pane (For Inactive Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Normal Pipe Sensitivity)

A No Leak Display Icon as the one shown in \searrow *Figure* 31 is displayed in the Location Pane only if the following conditions are all true:

- 1. There is no leak in the **latest** Data Report.
- 2. ALARM/s has <u>not</u> been triggered.
- 3. The logger is INACTIVE.
- 4. The Pipe Sensitivity is default/normal.

🍆 02083003 (a)

Figure 31: No Leak Display in Location Pane (For Inactive Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Normal Pipe Sensitivity)

> Leak Display Icon in Location Pane (For Active Permalog+ Logger/s with ALARM Condition/s in Latest Data & Normal Pipe Sensitivity)

A Leak Display Icon, with ALARM symbol, as the one shown in **Figure 32** is displayed in the Location Pane only if the following conditions are all true:

- 1. The **latest** logger Data Report has a leak.
- 2. ALARM/s has been triggered.
- 3. The logger is ACTIVE.
- 4. The Pipe Sensitivity is default/normal.

🐞 12071527 (a)

Figure 32: Leak Display in Location Pane (For Active Permalog+ Logger/s with ALARM Condition/s in Latest Data & Normal Pipe Sensitivity)

No Leak Display Icon in Location Pane (For Active Permalog+ Logger/s with ALARM Condition/s in Latest Data & Normal Pipe Sensitivity)

A No Leak Display Icon as the one shown in \Im *Figure* 33 is displayed in the Location Pane only if the following conditions are all true:

- 1. There is no leak in the **latest** Data Report.
- 2. ALARM/s has been triggered.
- 3. The logger is ACTIVE.
- 4. The Pipe Sensitivity is default/normal.

🧺 08070063 (a)

Figure 33: No Leak Display in Location Pane (For Active Permalog+ Logger/s with ALARM Condition/s in Latest Data & Normal Pipe Sensitivity)

Leak Display Icon in Location Pane (For Inactive Permalog+ Logger/s with ALARM Condition/s in Latest Data & Normal Pipe Sensitivity)

A Leak Display Icon as the one shown in **Figure 34** is displayed in the Location Pane only if the following conditions are all true:

- 1. The **latest** logger Data Report has a leak.
- 2. ALARM/s has been triggered.
- 3. The logger is INACTIVE.
- 4. The Pipe Sensitivity is default/normal.

🐞 12991017 (a)

Figure 34: Leak Display in Location Pane (For Inactive Permalog+ Logger/s with ALARM Condition/s in Latest Data & Normal Pipe Sensitivity)

No Leak Display Icon in Location Pane (For Inactive Permalog+ Logger/s with ALARM Condition/s in Latest Data & Normal Pipe Sensitivity)

A No Leak Display Icon as the one shown in \forall *Figure* 35 is displayed in the Location Pane only if the following conditions are all true:

- 1. There is no leak in the **latest** Data Report.
- 2. ALARM/s has been triggered.
- 3. The logger is INACTIVE.
- 4. The Pipe Sensitivity is default/normal.

😻 02091221 (a)

Figure 35: No Leak Display in Location Pane (For Inactive Permalog+ Logger/s with ALARM Condition/s in Latest Data & Normal Pipe Sensitivity)

Quick Reference – Location Pane Logger Display Icon for Custom Pipe Sensitivity

b Leak Display Icon in Location Pane (For Active Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Custom Pipe Sensitivity)

A Leak Display Icon as the one shown in \clubsuit *Figure* 36 is displayed in the Location Pane only if the following conditions are all true:

- 1. The **latest** logger Data Report has a leak.
- 2. ALARM/s has not been triggered.
- 3. The logger is ACTIVE.
- 4. The Pipe Sensitivity is plastic/sensitive/custom.

🔈 12991816 (ai)

Figure 36: Leak Display in Location Pane (For Active Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Custom Pipe Sensitivity)

No Leak Display Icon in Location Pane (For Active Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Custom Pipe Sensitivity)

A No Leak Display Icon as the one shown in *Figure* 37 is displayed in the Location Pane only if the following conditions are all true:

- 1. There is no leak in the latest Data Report.
- 2. ALARM/s has <u>not</u> been triggered.
- 3. The logger is ACTIVE.
- 4. The Pipe Sensitivity is plastic/sensitive/custom.

🍾 12991015 (ai)

Figure 37: No Leak Display in Location Pane (For Active Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Custom Pipe Sensitivity)

The Series of Series and Series

A Leak Display Icon as the one shown in *Figure* 38 is displayed in the Location Pane only if the following conditions are all true:

- 1. The **latest** logger Data Report has a leak
- 2. ALARM/s has not been triggered.
- 3. The logger is INACTIVE.
- 4. The Pipe Sensitivity is plastic/sensitive/custom.

🔈 12991816 (ai)

Figure 38: Leak Display in Location Pane (For Inactive Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Custom Pipe Sensitivity)

No Leak Display Icon in Location Pane (For Inactive Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Custom Pipe Sensitivity)

A No Leak Display Icon as the one shown in *Figure* 39 is displayed in the Location Pane only if the following conditions are all true:

- 1. There is no leak in the **latest** Data Report.
- 2. ALARM/s has <u>not</u> been triggered.
- 3. The logger is INACTIVE.
- 4. The Pipe Sensitivity is plastic/sensitive/custom.

🔖 12991015 (ai)

Figure 39: No Leak Display in Location Pane (For Inactive Permalog+ Logger/s with No Alarm Condition/s in Latest Data & Custom Pipe Sensitivity)

>> Leak Display Icon in Location Pane (For Active Permalog+ Logger/s with ALARM Condition/s in Latest Data & Custom Pipe Sensitivity)

A Leak Display Icon, with ALARM symbol, as the one shown in **Figure** 40 is displayed in the Location Pane only if the following conditions are all true:

- 1. The **latest** logger Data Report has a leak.
- 2. ALARM/s has been triggered.
- 3. The logger is ACTIVE.
- 4. The Pipe Sensitivity is plastic/sensitive/custom.

🐞 00000002 (ah)

Figure 40: Leak Display in Location Pane (For Active Permalog+ Logger/s with ALARM Condition/s in Latest Data & Custom Pipe Sensitivity)

Sensitivity) No Leak Display Icon in Location Pane (For Active Permalog+ Logger/s with ALARM Condition/s in Latest Data & Custom Pipe

A No Leak Display Icon as the one shown in \Im *Figure* 41 is displayed in the Location Pane only if the following conditions are all true:

- 1. There is no leak in the **latest** Data Report.
- 2. ALARM/s has been triggered.
- 3. The logger is ACTIVE.
- 4. The Pipe Sensitivity is plastic/sensitive/custom.

🧐 00000017 (a)

Figure 41: No Leak Display in Location Pane (For Active Permalog+ Logger/s with ALARM Condition/s in Latest Data & Custom Pipe Sensitivity)

Leak Display Icon in Location Pane (For Inactive Permalog+ Logger/s with ALARM Condition/s in Latest Data & Custom Pipe Sensitivity)

A Leak Display Icon as the one shown in **Figure** 42 is displayed in the Location Pane only if the following conditions are all true:

- 1. The **latest** logger Data Report has a leak.
- 2. ALARM/s has been triggered.
- 3. The logger is INACTIVE.
- 4. The Pipe Sensitivity is plastic/sensitive/custom.

😽 00000002 (ad)

Figure 42: Leak Display in Location Pane (For Inactive Permalog+ Logger/s with ALARM Condition/s in Latest Data & Custom Pipe Sensitivity)

Sensitivity) Icon in Location Pane (For Inactive Permalog+ Logger/s with ALARM Condition/s in Latest Data & Custom Pipe

A No Leak Display Icon as the one shown in \forall *Figure* 43 is displayed in the Location Pane only if the following conditions are all true:

- 1. There is no leak in the **latest** Data Report.
- 2. ALARM/s has been triggered.
- 3. The logger is INACTIVE.
- 4. The Pipe Sensitivity is plastic/sensitive/custom.

😻 00000017 (a)

Figure 43: No Leak Display in Location Pane (For Inactive Permalog+ Logger/s with ALARM Condition/s in Latest Data & Custom Pipe Sensitivity)

Quick Reference – Data Pane Logger Leak Status Display Icons

Leak Display Icon in Data Pane (Normal Pipe Sensitivity)

A Leak Display Icon as the one shown in • *Figure* 44 is displayed in the Data Pane when there is a leak on a particular Data Report and the Pipe Sensitivity is default/normal.

b Figure 44: Leak Display Icon in Data Pane (Normal Pipe Sensitivity)

No Leak Display Icon in Data Pane (Normal Pipe Sensitivity)

A No Leak Display Icon as the one shown in \bigotimes *Figure* 45 is displayed in the Data Pane when there is no leak in a particular Data Report and the Pipe Sensitivity is default/normal.

6

W Figure 45: No Leak Display Icon in Data Pane (Normal Pipe Sensitivity)

Leak Display Icon in Data Pane (Custom Pipe Sensitivity)

A Leak Display Icon as the one shown in • *Figure* 46 is displayed in the Data Pane when there is a leak on a particular Data Report and the Pipe Sensitivity is plastic/sensitive/custom.

٠

• Figure 46: Leak Display Icon in Data Pane (Custom Pipe Sensitivity)

X No Leak Display Icon in Data Pane (Custom Pipe Sensitivity)

A No Leak Display Icon as the one shown in \bigotimes *Figure* 47 is displayed in the Data Pane when there is no leak in a particular Data Report and the Pipe Sensitivity is plastic/sensitive/custom.



X Figure 47: No Leak Display Icon in Data Pane (Custom Pipe Sensitivity)

ALARM Reports Data Pane Display

EventID	PermaLog Serial (?)	ECU No.	PermaNet Serial	PermaNet SMS Tel	Date/Time	Scheduled/Unscheduled	PermaNet SMS Alarm Type	Permalog+ Alarm Type
23	00000000 (a)	0509	05092009	+447920007449	2009/03/08 13:15:00	Scheduled	Low GSM Signal Strength 0%	
24	00000000 (a)	0509	05092009	+447920007449	2009/03/08 13:15:00	Scheduled	Low GSM Signal Strength 0%	

Figure 48: ALARM Reports Data Pane Display

Figure 48 shows the ALARM Reports Data Pane Display.

Table 5: Data Pane for Alarm Reports

EventID	Identification number of the alarm stored in the database table.
PermaLog Serial (?)	PermaLog Logger Serial number (with its alphabet identification).
ECU No.	This is usually the last 4 digits of the PermaNet Serial.
PermaNet Serial	PermaNet SMS Serial number.
PermaNet SMS Tel	PermaNet SMS Telephone Number.
Date/Time	Date and time the Alarm message was received by PermaHOST.
Scheduled/Unscheduled	Indicates if the received GNET alarm message is a scheduled or unscheduled message.
	1. Scheduled means the PermaNet SMS was supposed to Data Report on the particular date and time the GNET
	message with Alarm contents was received by PermaHOST.
	2. Unscheduled means the PermaNet SMS was not supposed to Data Report on the particular date and time the
	GNET message with Alarm contents was received by PermaHOST.
PermaNet SMS Alarm Type	Indicates the type of PermaNet SMS Alarm triggered. Possible types are:
	1. Low GSM Signal Strength xxx%
	2. Low Battery

PermaLog+ Alarm Type	Indicates the type of PermaLog-	+ Alarm triggered. Possible types are:
0 51	J 1 C	

- 1. Low Battery
- 2. Low RF Signal Strength xxx%
- 3. Leak to No Leak
- 4. No Leak to Leak

PermaNet SMS Data Pane Display

Pe	ermaNet Serial	ECU No.	PermaNet SMS Tel	Host PC Tel	Num2	Patrol Days	Patrol Start Time	Patrol Duration (seconds)	Data Report Days	Data Report Time	Pending Configuration?
	07080047	0047	+447734998849	+447739640889	+447734998874	SMTWTFS	10:00	30	SMTWTES	10:15	No
			+447734998980	07739640888			10:00	30		11:00	No
	12070089	0089	+447739640790	+447739640889		SMTWTFS	09:30	30	SMTWTFS	09:35	No

Figure 49: PermaNet SMS Data Pane Display

Figure 49 shows the PermaNet SMS Data Pane Display.

Table 6: Data Pane for PermaNET SMS

PermaNet Serial	PermaNet SMS Serial number.
ECU No.	1. This value is only filled in when a SMS Configuration Message Response has been received by the application.
	2. This value is usually the last 4 digits of the PermaNet Serial.
PermaNet SMS Tel	PermaNet SMS Telephone Number
	1. This value could be specified by the user or it could be added automatically when a SMS Configuration Message
	Response from a PermaNet SMS has been received by the PermaHOST application.
	2. Note the minimum requirements for the user to specify a PermaNet SMS Configuration is for the user to enter the
	PermaNet SMS Telephone Number.
Host PC Tel	Refers to the Host PC Telephone Number (In PermaHOST Application, the modem linked to the computer running
	PermaHOST is the Host PC SIM Number.)
	This value could be specified by the user or it could be added automatically when a PermaNet SMS Configuration
	Message Response has been received by the application.
Num2	Second Mobile Number.

	Th	is value could be specified by the user or it could be added automatically when a PermaNet SMS Configuration
	Me	essage Response has been received by the application.
Patrol Days	1.	The Days the PermaNet SMS will wake up to wait for Permalog+ Patrol Data.
	2.	SMTWTFS refers to Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday.
		2.1. Any days that the device is not patrolling will be shown as a dash. E.g. –
	3.	This value could be specified by the user or it could be added automatically when a PermaNet SMS
		Configuration Message Response has been received by the application.
Patrol Start Time	1.	The time the PermaNet SMS will wake up to receive patrol data from the Permalog+ Loggers out in the field.
	2.	This value could be specified by the user or it could be added automatically when a PermaNet SMS
		Configuration Message Response has been received by the application.
Patrol Duration	1.	The duration the PermaNet SMS will stay awake to wait for Permalog+ Patrol Data.
(seconds)	2.	This value could be specified by the user or it could be added automatically when a PermaNet SMS
		Configuration Message Response has been received by the application.
Data Report Days	1.	The Days the PermaNet SMS will wake up to send the data report it has stored to the Host PC Telephone
		Number.
	2.	SMTWTFS refers to Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday.
		2.1. Any days that the device is not reporting will be shown as a dash. E.g. –
	3.	This value could be specified by the user or it could be added automatically when a PermaNet SMS
		Configuration Message Response has been received by the application.
Data Report Time	1.	The time the PermaNet SMS will wake up to send data back to the Host PC Telephone Number.

 This value could be specified by the user or it could be added automatically when a PermaNet SMS Configuration Message Response has been received by the application.

Pending Configuration? Indicate if there is a Pending Configuration for the PermaNet SMS.

Duplicated Serial Numbers Usage Explained.

<u>Prior to Version 3.50 with database Version 3.3</u>, PermaHOST Application allows the user to enter only one unique Serial Number in each Area/Region.

If the same Serial Number existed in other Area/Region within the same database, the GNET message update will only update one of the serial numbers.

For PermaHOST Version 3.50 to Version 3.8x, duplicated Serial numbers can exist in the same Area/Region or difference Area/Region for up to 26 times. This is because at any one time, only one of the duplicated Numbers could be ACTIVE. All others will be shown as INACTIVE. When a GNET message arrives, it will automatically be updated into the ACTIVE Serial number. For these versions, the number of Area/Region permitted per database is restricted to ten areas/regions

<u>From PermaHOST Version 3.90 onwards</u>, a logger could be duplicated up to a maximum of 475254 times, from (a) to (zzzz). And there is no restriction on the number of Area/Region in the database.

Scenario 1: All duplicated Serial Logger INACTIVE when GNET message for the logger arrives

Note: If the serial number is duplicated, but all duplicated numbers are set to INACTIVE state, when a GNET message arrives with the particular duplicated serial number, a new duplicated serial number will be formed in Area/Region "PermaHOST". This new duplicated serial number will be the ACTIVE logger.

Scenario 2: Making an INACTIVE logger ACTIVE while another Logger with the same serial is ACTIVE

The user could reactivate an INACTIVE logger at any time. When an INACTIVE logger is made ACTIVE, the previously ACTIVE logger of the same serial will become INACTIVE.

Scenario 3: Moving logger to another Area/Region without moving it's Data Reports

If the user chooses to move the logger to another Area/Region, without moving it data reports, the logger data reports will remain with the existing logger.

Note: The existing logger will be deactivated.

The newly created logger in the selected Area/Region to move to, will contain all status information (with the exception of deployed date) of the logger. The newly created logger will contain no previous data reports.

Scenario 4: Moving Logger to another Area/Region with it's Data Reports

If the user chooses to move the logger to another Area/Region with its data reports:

- 1. The moved logger will remain in whatever state it was in previously.
 - 1.1. If the previous state is ACTIVE, logger will remain ACTIVE
 - 1.2. If the previous state is INACTIVE, logger will remain INACTIVE.
- 2. The moved logger will contain:
 - 2.1. All of its status information
 - 2.2. All of its data reports

STEP BY STEP GUIDE ON PERMAHOST APPLICATION

Starting the Application

- 1. Start PermaHOST Application.
 - 1.1. If Automatic database upgrade is to be performed, this will be performed automatically and will require no input from the end user.
 - 1.2. The Modem initialisation screen will popup as shown in Figure 50.
- 2. On successfully initialising the modem, a message box that timeout will popup as shown in *Figure 51*.
- 3. Either wait or click "OK" to close the popup message box.
- 4. The PermaHOST Summary Screen Dialog shall automatically popup next. An example of this dialog box is shown in *Figure 113*.
- 5. To know how to navigate through the PermaHOST Summary Screen, please refer to PermaHOST Summary Screen Dialog Box (Page 130)

🧧 Initia	alising Modem 🛛 🗙
Initialis	ing Full Duplex Modem
×	Initialising communications port
*	Initialising communications link
×	Initialising modem
Informati	ion
Selecte not cho	d Com Port 2. (Modem Initialisation will not complete if the correct COM Port is sen!)
Initialisir Modem Initialisir	ng Serial Communication Link between Modern & COM Port 2 Link State set successfully. an Modern
	Glose

Figure 50: Modem Initialisation Dialog



Figure 51: Modem Initialised Successfully Popup Message Box with Timeout

File->New Access Database (Mouse click option)

- 1. Use the mouse to select *File->New Access Database* in the Title Menu.
- 2. The Save As dialog box similar to Figure 52 will pop up,
 - 2.1. Select the appropriate location to save the new Database.
 - 2.2. Enter a file name or select an existing database to overwrite.
 - 2.3. Click Save or Cancel
 - 2.3.1. Save will create the new database in the location specified.
 - 2.3.2. *Cancel* will exit the dialog box without creating the new database.



Figure 52: File->New Access Database

Open				? 🛛
Look in: 🔎	Database		- + 🗈	r 🗐 🕂
Copy of te Copy of te Palmertest PermaHOS PermaHOS	stDB.mdb database.mdb T Database.mdb T(alteredDB).mdb .mdb	(a)temo.mdb (a)testDB1.mdb (a)testDB.mdb		
File <u>n</u> ame:				<u>O</u> pen
Files of type:	PermaHost Data	oase Files (*.mdb)	•	Cancel
	🔲 Open as read	only		

Figure 53: File->Open Access Database

File->New Access Database (Keyboard option-> Ctrl+N)

- 1. Using the keyboard, press down on *Ctrl* and *N*.
- 2. The Save As dialog box similar to Figure 52 will pop up,
 - 2.1. Select the appropriate location to save the new Database.
 - 2.2. Enter a new file name or select an existing database to overwrite.
 - 2.3. Click Save or Cancel
 - 2.3.1. Save will create the new database in the location specified.
 - 2.3.2. *Cancel* will exit the dialog box without creating the new database.

File->Open Access Database (Mouse click option)

- 1. Use mouse to select *File->Open Access Database* in the Title Menu.
- 2. The Open dialog box similar Figure 53 to will pop up,
 - 2.1. Select an existing database to open with the mouse.
 - 2.2. Click Open or Cancel
 - 2.2.1. Open will add the selected database to be opened to the Location Pane.
 - 2.2.2. *Cancel* will exit the dialog box without opening the selected database.

File->Open Access Database (Keyboard option-> Ctrl+O)

- 1. Using the keyboard, press down on *Ctrl* and *O*.
- 2. The Open dialog box similar to Figure 53 will pop up,
 - 2.1. Select an existing database to open with the mouse.
 - 2.2. Click Open or Cancel
 - 2.2.1. *Open* will add the selected database to be opened to the Location Pane.
 - 2.2.2. *Cancel* will exit the dialog box without opening the selected database.

File->Save As...

- 1. Use mouse to select *File->Save As...* in the Title Menu.
- 2. A dialog box, similar to the one shown in *Figure 52* will be shown.
- 3. Enter a new file name or select an existing database to overwrite.
 - 3.1. This option will save the entire content of the currently opened active database to the new file.

File->Print Setup...

- 1. Use mouse to select *File->Print Setup*...in the Title Menu.
- 2. The *Print Setup* dialog box should pop up.
- 3. Select the appropriate printer and settings required.
- 4. Click *OK*. The print setup will now remember the settings and printer to use until the PermaHOST application is restarted.

File->Exit...

- 1. Use the mouse to select *File->Exit* in the Title Menu.
- 2. A message prompt will pop up with "*This will close the PermaHOST application*. *Are you sure?*"
- 3. On clicking:
 - 3.1. *No* Nothing will happen
 - 3.2. Yes The whole application will exit

View->Toolbar

Please refer to *Figure 17* for clarification of where the Toolbar is on the Application screen.

If the *View->Toolbar* has a \checkmark next to it, the Application screen will be similar to *Figure 54*.

🙆 PermaHOST - C:\Documents	and Sett	ings\alai	na_t\Desktop\	Allied Po	wer Data	base\WSD\	WSD-NP-RM	104@201007	06(v4.00).mdb			
Ele View Settings Database Help												
0 🛎 🖬 👗 🖻 🖻 🎒	? 훪 🖇	2										
🗄 🔦 Gloucester Rd (Additiona 🔨	EventID	Status	Date	Level	Spread	Msg Type	P+ Battery	P+ RF Signal	PermaNet Battery	PermaNet RSSI	Alarm Stal 🔨	
🖅 🐧 Gloucester Road (Fresh	27	۱	2010/09/23	7	2							
🕀 🐧 Gloucester Road (Salt W	26	6	2010/09/22	8	з							
Hill Rd. F.W.	25	6	2010/09/21	8	3							
Hill Rd. S.W.	24	۱	2010/09/20	7	6						~	
OPERMANUSI OPERMANUSI OPERMANUSI	<										>	
	Pi Lo Ad	pe Sen ocation Iditiona	sitivity: 100 Number: 00 al Informatic	% Norn 1000003 on: LeH	nal L P igh Cou	Address ermaNet nty Perm	1: Le High SMS: +151 aNET SMS.	County 33191008/, Informed L	Address 2: U / eHigh County	JSA of PermaNE [*]	T SMS re	
< >	<										>	
Ready										Modem Signal:		

Figure 54: View->Toolbar (SELECTED) & View->Status Bar (SELECTED)

If the *View->Toolbar* does <u>not</u> have a \checkmark next to it, the Application screen will be similar to *Figure 55*

🖢 PermaHOST - C:\Documents and Settings\alaina_t\Desktop\Allied Power Database\\WSD\WSD-NP-RM104@20100706(v4.00).mdb 📃 🗖 🔀											
jle View Settings Database Help											
🗄 🕤 Gloucester Rd (Additiona 🔨	EventI) Status	Date	Level	Spread	Msg Type	P+ Battery	P+ RF Signal	PermaNet Battery	PermaNet RSSI	Alarm Stal 🔨
连 💊 Gloucester Road (Fresh	27	6	2010/09/23	7	2						_
🕀 🐧 Gloucester Road (Salt W	26	6	2010/09/22	8	3						
🕀 🕤 Hill Rd. F.W.	25	6	2010/09/21	8	з						
	24	6	2010/09/20	7	6						~
	<										>
00000002 (a)											~
> 00000005 (a)	1	ipe Sen	sitivity: 100	% Norn	nal	Address	1: Le High	County	Address 2:	JSA	
- 🝗 01010101 (a)	I	ocation	Number: 00	000001	L P	ermaNet !	SMS: +151	33191008//	1		
	1	dditiona	al Informatic	on: LeH	igh Cou	nty Perma	aNET SMS.	Informed L	eHigh County	of PermaNE	TSMS re
🍾 01091688 (a)											
— 🏷 03081637 (a) 🚽											~
<	<		6 10								>
Ready	,									Modem Signal:	

Figure 55: View->Toolbar (NOT SELECTED)

View->Status Bar

Please refer to *Figure 17* for clarification of where the Status Bar is on the Application screen.

If the *View->Status Bar* has a \checkmark next to it, the Application screen will be similar to *Figure 54*.

If the *View->Status Bar* does <u>not</u> have a \checkmark next to it, the Application screen will be similar to *Figure 56*.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E Step By Step Guide On PermaHOST Application – View Menu Options

😰 PermaHOST - C:\Documents	and Set	tings\alai	na_t\Desktop\	Allied Po	wer Data	base\WSD\	WSD-NP-RM	104@201007	06(v4.00).mdb		
Elle View Settings Database Help											
0 🚅 🖬 👗 🖻 🖻 🎒 🕯	? `	S									
🖭 🐧 Gloucester Rd (Additiona 🔨	EventI) Status	Date	Level	Spread	Msg Type	P+ Battery	P+ RF Signal	PermaNet Battery	PermaNet RSSI	Alarm Stal 🔨
🗄 🔦 Gloucester Road (Fresh	27	۲	2010/09/23	7	2						_
🛨 🐧 Gloucester Road (Salt W	26	6	2010/09/22	8	3						
Hill Rd. F.W.	25	6	2010/09/21	8	3						
Hill Rd. S.W.	24	۵	2010/09/20	7	6						~
	<										>
- 0000000 (a) - 00000005 (a) - 01010101 (a) - 01081851 (a) - 01091688 (a) - 03081637 (a)		Pipe Sen .ocation Additiona	sitivity: 100 Number: 00 al Informatic	% Norn 000001 on: LeH	nal L P igh Cou	Address ermaNet nty Perma	1: Le High SMS: +151 aNET SMS.	County 33191008/; Informed L	Address 2: (/ eHigh County	USA of PermaNE	T SMS re
< >	<				1111						>

Figure 56: View->Status Bar (NOT SELECTED)

Riew->Filters

Filters have been implemented from PermaHOST Application Version 3.60 onwards. There are 7 filtering options available, and the user has the option to either use one filter or a combination of filters.

Although there are 7 filters available, only 5 could be activated at the same time. Reasons:

- Leak and No Leak filters cannot be turned on at the same time. Selecting one will automatically deselect the other.
- Active and Inactive filters cannot be turned on at the same time. Selecting one will automatically deselect the other.

When no filter is activated, the Toolbar icon will be shown as:

If one or more filters are activated, the Toolbar icon will be shown as: 😹

View->Filters->Date Range

This option allows the user to set the filter date range. *Figure 57* shows an example of the dialog box when the user chooses to filter by Date Range.

The date filter will be applied to:

- 1. Unrecognised Messages
- 2. Received Messages
- 3. Sent Messages

- 4. Failed Messages
- 5. ALARMS Reports
- 6. Loggers Data Reports

📑 Filter By Date Range		X
Start Filter Date	End Filter Date	
2008/12/16	2008/12/16	~
	OK	Cancel

Figure 57: View->Filters->Date Range



Figure 58: View->Filters->Date Range (Date-Time Picker)

When the filter dialog first pops up, End Filter Date is not selectable, until the user selects a date from the date-time picker as shown in *Figure 58*. Once the date-time picker has been selected, the End Filter Date will be enabled. The user will be allowed to select the same date or a later date than the Start Filter Date. The user will not be allowed to select an End Filter Date that occurs before the Start Filter Date. To select an earlier End Filter Date, please reselect an earlier Start Filter Date.

On "OK", the date filter range will be applied and the screen will refresh automatically. The date filter will be continuously applied, until the user disables Filtering by date.

When the date filter is on: View->Filters->Date Range will have a \checkmark next to it. When the filter is off: View->Filters->Date Range will not have a \checkmark next to it.

To deselect the date filter when it is activated, simply select View->Filters->Date Range, or use the toolbar icon **b** to deselect individual filter/s in the Filters Information Dialog Box, detailed in **b** *View Filters Information Dialog Box*.

View->Filters->PermaNet SMS Number (SIM/Serial)

This option allows the user to filter by PermaNet SMS Number. *Figure 59* shows an example of the dialog box when the user chooses to filter by PermaNet SMS Number. Selecting either Filter by PermaNet SMS SIM Number Option or Filter by PermaNet SMS Serial Number Option will enable the respective combo boxes list, which will allow the user to select PermaNet SMS SIM or Serial available in the database to perform filtering by PermaNet SMS Number.

To deselect the PermaNet SMS Number filter when it is activated, simply select View->Filters->PermaNet SMS Number (SIM/Serial), or use the toolbar icon to deselect individual filter/s in the Filters Information Dialog Box, detailed in View Filters Information Dialog Box.

Filter By PermaNet SMS Number (SIM/Serial)	X
Filter by either PermaNet SMS Serial or SIM number. Use Radio button to select PermaNet SMS Filter option. If PermaNet SMS Filter option is active, selecting the other radio option automatically removes the existing PermaNet Filter.	Cancel
Filter By PermaNet SMS SIM Number Option	-
Filter By PermaNet SMS Serial Number Option	
Available PermaNet SMS Serial: 07080047	*

Figure 59: View->Filters->PermaNet SMS Number (SIM/Serial)

View->Filters->Leak Only

This option allows the user to set the filter by Leak Only in the latest Data Report, when selected the screen will refresh automatically. The "Leak Only" filter will be continuously applied, until the user disables Filtering by Leak Only.

When the Leak Only filter is on: View->Filters->Leak Only will have a ✓ next to it.

When the filter is off: View->Filters->Leak Only <u>will not</u> have a ✓ next to it.

To deselect the Leak Only filter when it is activated, simply select View->Filters->Leak Only, or use the toolbar icon to deselect individual filter/s in the Filters Information Dialog Box, detailed in *View Filters Information Dialog Box*.

Alternatively, if the user wishes to filter by No Leak Only, selecting No Leak Only will automatically deselect Leak Only filter.

View->Filters->No Leak Only

This option allows the user to set the filter by No Leak Only in the latest Data Report, when selected the screen will refresh automatically. The "No Leak Only" filter will be continuously applied, until the user disables Filtering by No Leak Only.

When the No Leak Only filter is on: View->Filters->No Leak Only will have a \checkmark next to it.

When the filter is off: View->Filters->No Leak Only <u>will not</u> have a ✓ next to it.

To deselect the No Leak Only filter when it is activated, simply select View->Filters-

>No Leak Only, or use the toolbar icon **b** to deselect individual filter/s in the Filters

Information Dialog Box, detailed in **b** View Filters Information Dialog Box.

Alternatively, if the user wishes to filter by Leak Only, selecting Leak Only will automatically deselect No Leak Only filter.

View->Filters->Active Loggers Only

This option allows the user to set the filter by Active Loggers Only, when selected the screen will refresh automatically. The "Active Loggers Only" filter will be continuously applied, until the user disables Filtering by Active Loggers Only.

When the Active Loggers Only filter is on: View->Filters->Active Loggers Only will have a \checkmark next to it.

When the filter is off: View->Filters->Active Loggers Only will not have a \checkmark next to it.

To deselect the Active Loggers Only filter when it is activated, simply select View->Filters->Active Loggers Only, or use the toolbar icon to deselect individual filter/s in the Filters Information Dialog Box, detailed in the View Filters Information Dialog Box.

Alternatively, if the user wishes to filter by Inactive Loggers Only, selecting Inactive Loggers Only filter will automatically deselect Active Loggers Only filter.

View->Filters->Inactive Loggers Only

This option allows the user to set the filter by Inactive Loggers Only. On select the screen will refresh automatically. The "Inactive Loggers Only" filter will be continuously applied, until the user disables Filtering by Inactive Loggers Only.

When the No Leak Only filter is on: View->Filters->No Leak Only will have a \checkmark next to it.

When the filter is off: View->Filters->Inactive Loggers Only <u>will not</u> have a \checkmark next to it.

To deselect the Inactive Loggers Only filter when it is activated, simply select View->Filters->Inactive Loggers Only, or use the toolbar icon to deselect individual filter/s in the Filters Information Dialog Box, detailed in the View Filters Information Dialog Box.

Alternatively, if the user wishes to filter by Active Loggers Only, selecting Active Loggers Only will automatically deselect Inactive Loggers Only filter.

View->Filters->Location Number

This option allows the user to filter by Location Number. *Figure 60* shows an example of the dialog box when the user chooses to filter by Location Number.

Filter By Location Number	
Available Location Numbers:	OK Cancel

Figure 60: View->Filters->Location Number

If any Location Number could be found it in the database, it will be automatically included in the list.

When "OK" is clicked the Filter by Location Number will be applied and the screen will refresh automatically. The filter will be continuously applied until the user disables Filtering by Location Number.

When the Location Number filter is on: View->Filters->Location Number will have a ✓ next to it.

When the filter is off: View->Filters->Location Number <u>will not</u> have a \checkmark next to it.

To deselect the Location Number filter when it is activated, simply select View->Filters->Location Number, or use the toolbar icon to deselect individual filter/s in the Filters Information Dialog Box, detailed in *View Filters Information Dialog Box*.

Settings->Modem Settings->Port

In *Settings->Modem Settings->Port*, if the modem is connected, the current port the modem is using will have a \checkmark next to it.

Note: The application will always remember the last port it was connected to, the last time the application was ACTIVE. However, a \checkmark will only appear if the modem is ACTIVE.

Settings->Modem Settings->Type

In *Settings->Modem Settings->Type*, if the modem is connected, the current modem will have a \checkmark next to it. Note: The application will always remember the last modem it was using, the last time the application was ACTIVE. However, a \checkmark will only appear if the modem is ACTIVE.

Settings->Date Format

There are three available date format:

The application will always remember the last date format selected.

The selected date format will have a \checkmark next to it.

Settings->Logfiles

There are six available log files types. Note from Application Version 4.20 onwards, Log files locations are no longer stored as database objects. From Version 4.20 onwards, logfiles locations are registry objects.

1. PermaHOST Application Log File

1.1. Default log file location if not defined: C:\Program Files\HWM-Water\PermaHOST\Logfiles\PermaHOSTAppLog.log

2. PermaHOST Error Log File

2.1. Default log file location if not defined: C:\Program Files\HWM-Water\PermaHOST\Logfiles\PermaHOSTErrorLog.log

3. Incoming SMS Log File

3.1. Default log file location if not defined: C:\Program Files\HWM-Water\PermaHOST\Logfiles\IncomingSmsLog.log

4. Outgoing SMS Log File

4.1. Default log file location if not defined: C:\Program Files\HWM-Water\PermaHOST\Logfiles\OutgoingSmsLog.log

5. Activity Log File

5.1. Default log file location if not defined: C:\Program Files\HWM-Water\PermaHOST\Logfiles\ActivityLog.log

- 6. SMS LOG FILE
 - 6.1. Default log file location (Cannot be redefined or deleted via PermaHOST): C:\ SMSLog.txt

Settings->Logfiles->New Log Files

The end user could create the following new log files under this menu option. The directory these log files are created in is entirely up to the user. Once created, the database will remember where to log the required information into the various log files:

- 1. New PermaHOST <u>Application Log File</u>
- 2. New PermaHOST Error Log File
- 3. New Incoming SMS Log File
- 4. New Outgoing SMS Log File
- 5. New Activity Log File

Settings->Logfiles->Clear Log Files

The end user could clear the following log files under this menu option.

- 1. Clear PermaHOST Application Log File
- 2. Clear PermaHOST Error Log File
- 3. Clear Incoming SMS Log File
- 4. Clear Outgoing SMS Log File
- 5. Clear Activity Log File

Settings->Logfiles->View Log Files FilePath

1. The end user could view this dialog box to know the current location of the individual log files in the operating system for the opened Database. See *Figure 61*.

PermaHOST Lo	gfiles FilePath 🛛 🗙
Application LogFile:	C:\Program Files\Palmer Environmental\PermaHOST\Logfiles\testDBLogFilesDir\testDBApplicationLi
Error LogFile:	C:\Program Files\Palmer Environmental\PermaHOST\Logfiles\testDBLogFilesDir\testDBErrorLog.log
Incoming SMS LogFile:	C:\Program Files\Palmer Environmental\PermaHOST\Logfiles\testDBLogFilesDir\testDBIncomingSM
Outgoing SMS LogFile:	C:\Program Files\Palmer Environmental\PermaHOST\Logfiles\testDBLogFilesDir\testDBOutgoingSM
Activity LogFile:	C:\Program Files\Palmer Environmental\PermaHOST\Logfiles\testDBLogFilesDir\testDBActivityLog.i
	[]

Figure 61: Setting->LogFiles->View Log Files FilePath

Settings->Auto-Send SMS to Retrieve PermaNet SMS Config

By default, this option is enabled. The user could disable this option if they uncheck this in the menu option.

When enabled:

- If a GNET message arrives and the PermaNet SMS Configuration is not available in the existing opened database a configuration request SMS will automatically be sent once only.
- If the same PermaNet SMS number comes in again, a request for configuration will not be automatically sent again.

Database->Update Database

Database->Update Database allows user to upgrade database/s of the following application version only: V3.50, V3.70, V3.80, V3.81, V3.82 and V3.90. For Application version from V4.00 onwards, database/s upgrade will be supported.

Figure 62 shows the "PermaHOST Application: Microsoft Access Database Upgrade" Dialog. Database to be upgraded needs to be chosen before other buttons will become visible.

PermaHOST Appliction: Micro	soft Access Database Upgrade 🛛 🗙
Database Upgrade Applicable for previo To Upgrade database of application ver database to HWM-Water Ltd to be upgr	us application versions: v3.90, v3.82, v3.81, v3.80, v3.70 & v3.50. sion not listed above, please follow the instructions in the user manual before sending your aded to the latest version.
Version of Database to be Up	graded:
, Database To be Upgraded:	Select Database To be Upgraded
Updated Database Name:	
	[FOII]

Figure 62: Database->Upgrade Database (Default Dialog)

Procedure to Upgrade a Database Using Title Menu Option

1. Click on the	Select Database To be Upgraded		butto	n	
1.1. When a	Database of an upgradeable version is	selecte	d:		
1.1.1.	Version of Database to be Upgraded:	will	display	the	previous
app	blication version.				

Version of Database to be Upgraded: E.g. v^{3.50}

1.1.2. **Database To be Upgraded:** will display the full pathname of the database to be upgraded.

	Database To be Upgraded:	
E.g.	C:\Documents and Settings\alaina_t\Desktop\PermaHOST Previous Version\DB_3_50.mdb	

The Select Database To be Upgraded Till become invisible. See Figure 63. The Select New Database Name Till become visible. See Figure 63. PermaHOST Appliction: Microsoft Access Database Upgrade Database Upgrade Applicable for previous application versions: v3.90, v3.82, v3.81, v3.80, v3.70 & v3.50. To Upgrade database of application version not listed above, please follow the instructions in the user manual before sending your database to HWM-Water Ltd to be upgraded: v3.50 Database To be Upgraded: C:\Documents and Settings\alaina_t\Desktop\PermaHOST Previous Version\DB_3_50.mdb Updated Database Name: Select New Database Name	The Select Database To be Upgraded Vill become invisible. See Figure 63. The Select New Database Name Vill become visible. See Figure 63. PermaHOST Appliction: Microsoft Access Database Upgrade Vill become visible. See Figure 63. Database Upgrade Applicable for previous application versions: v3.90, v3.82, v3.81, v3.80, v3.70 & v3.50. To Upgrade database of application version not listed above, please follow the instructions in the user manual before sending your database to HWM-Water Ltd to be upgraded: v3.50 Database To be Upgraded: CxDocuments and Settings'alaina_tNDesktop\PermaHOST Previous Version\DB_3_50.mdb Updated Database Name: Select New Database Name	The Select Database To be Upgraded vill become invisible. See Figure 63. The Select New Database Name vill become visible. See Figure 63. Permat/OST Appliction: Microsoft Access Database Upgrade Database Upgrade Applicable for previous application version: v3.90, v3.82, v3.81, v3.80, v3.70 & v3.50. To Upgrade database of application version not listed above, please follow the instructions in the user manual before sending your database to HWM-Water Ltd to be upgraded: v3.50 Database To be Upgraded: C:\Documents and Settings\alaina_t\Desktop\PermaHDST Previous Version\DB_3_50.mdb Updated Database Name: Select New Database Name	The Select Database To be Upgraded fill become invisible. See Figure 63. The Select New Database Name fill become visible. See Figure 63. PermaHOST Application: Microsoft Access Database Upgrade Database Upgrade Applicable for previous application versions: v3.90, v3.82, v3.81, v3.80, v3.70 & v3.50. To Upgrade database of applicable to the latest version. Version of Database to be Upgraded: v3.50 Database To be Upgraded: C:\Documents and Settings\alaina_t\Desktop\PermaHDST Previous Version\DB_3_50.mdb Updated Database Name: Select New Database Name	10	
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Updated Database Name: Select New Database Name	Updated Database Name: Select New Database Name	Updated Database Name: Select New Database Name	Updated Database Name: Select New Database Name	C:\Documents and Settings\alaina_t\D	Pesktop\PermaHOST Previous Version\DB_3_50.mdb
				Updated Database Name:	Select New Database Name

Figure 63: Database->Upgrade Database (Select New Database Name)

EXIT

2. Click on the	Select New Database Name	button

- 2.1. Follow *Procedure to Follow if PermaHOST Installation Directory Not Found* if you get a similar message to the one shown in *Figure 66*.
- 2.2. Select a new database name or overwrite an existing database.

2.3. Once	e a	new	database	name	has	been	sele	ected	l,	the
		Sel	ect New Data	base Nam	ne			butte	on	will
becom	ne invi	sible.								
2.4. The		Start	Database Up	grade		button	will bec	ome	visił	ole.
3. Click or	the		Start Databa	se Upgra	de		button	to s	start	the
database	upgrac	les proces	S.							

- 3.1. On successful upgrade, the pop up message, an example of which shown in *Figure 64*, will be shown for 5 seconds. *Figure 65* shows the database upgrade progress.
- 3.2. After successfully upgrading a database. The user has the option to Upgrade

another database by clicking	Upgrade Another Database]
3.2.1. If the user clicks	Upgrade Another Database	, the dialog
will return to the defau	It dialog state, as shown in Figure 62.	

3.2.2. If there is no more database to upgrade. Click

ĺ	4 secon	ds remaining 🛛 🔀
	į)	Current Database Version: v4.00 Manual Database upgrade completed successfully. Upgraded: C:\Documents and Settings\alaina_t\Desktop\PermaHOST Previous Version\DB_3_50.mdb To: C:\Documents and Settings\alaina_t\Desktop\PermaHOST Previous Version\tempp.mdb.
		OK

Figure 64: Database->Upgrade Database (Successful Database Upgraded Pop up message example)



Figure 65: Database->Upgrade Database (Successfully Updated)

Procedure to Follow if PermaHOST Installation Directory Not Found

1. Should the Installation Directory not be found in the registry, user will see the pop

up message shown in Figure 66.

2. The	Specify Installation Directory	button	will	rep	lace
	Select New Database Name		,	until	an

Installation Directory has been re-specified.

Figure 66: Database->Upgrade Database (Installation Directory Not Found)

PermaHOST Application: Microsoft Access Database Upgrade					
Database Upgrade Applicable for previous application versions: v3.90, v3.82, v3.81, v3.80, v3.70 & v3.50. To Upgrade database of application version not listed above, please follow the instructions in the user manual before sending your database to HWM-Water Ltd to be upgraded to the latest version.					
Version of Database to be Upgraded:					
v3.50					
Database To be Upgraded:					
C:\Documents and Settings\alaina_t\Desktop\PermaH0ST Previous Version\DB_3_50.mdb					
Updated Database Name: Specify Installation Directory					
EXIT					

Figure 67: Database->Upgrade Database (Specify Installation Directory)

- 3. Specify the Installation Directory by clicking Specify Installation Directory
 - 3.1. A Dialog similar to the one shown in *Figure 68* will appear.
 - 3.1.1. The default Installation Directory should be C:\Program Files\HWM-Water\PermaHOST\
- 4. Once the installation directory has been specified.

4.1. A confirmation message similar to Figure 69 will be display for 5 seconds.

4.2.	Specify Installation Directory	will	be	replaced
by	y Select New Database Name			as shown

- in Figure 63.
- 4.3. Continue with *Procedure to Upgrade a Database Using Title Menu Option* to complete database upgrade.

Browse For Folder	? 🗙				
Select the PermaHOST Application Installation Directory:					
🕝 Desktop	^				
🗉 📋 My Documents					
🖃 😼 PDT0007					
🗉 🖑 3½ Floppy (A:)	=				
🗉 🝚 Local Disk (C:)					
🗉 🐸 CD Drive (D:)					
🗉 🐸 DVD/CD-RW Drive (E:)	_				
🗉 📧 Admin on 'Palserve' (H:)					
🗉 💥 Design on 'Palserve' (J:)					
🗉 🌌 Product Support on 'Palserve' (P:)					
🗉 🌌 Production on 'Palserve' (Q:)					
🗉 💥 Service on 'Palserve' (T:)					
🗉 🌌 Support on 'Palmer05' (U:)					
🗉 🌌 Temp on 'Palmer05' (V:)	~				
Folder: Desktop					
Make New Folder OK Can	cel				

Figure 68: Database-> Upgrade Database (Select the PermaHOST Application Installation Directory) - Only if prompted



Figure 69: Database->Upgrade Database (Installation Directory Re-specified & Registry Updated)

Database->Import Coronis XML File

Database->Import Coronis XML File allows user import Coronis XML File/s into the application to populate the database automatically.

Figure 70 shows the "PermaHOST Application: Import Coronis XML File" Dialog. User must select an XML file to open before the other buttons on the dialog become visible or enabled.

📲 Import Coronis	XML File		
Selec	t XML File To Open		
XML File to		 	
			Import
			Close

Figure 70: Database->Import Coronis XML File (Default Dialog)

If the imported XML file contains Applicative Acknowledge code:

- 1. The logger serial, Level, Spread, Date and Leak Status will be written to the database.
- 2. If the serial does not exist in the database, it will be created.
- 3. If the serial exists and but logger history already written to the database for that date, the XML entry will be ignored.

Procedure to Import Coronis XML File

See *Figure 70* and *Figure 71*

- 1. Click on the Select XML File To Open button
 - 1.1. When a XML File is selected:

1.1.1. The XML file to be imported will be displayed in the text box.
PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E
 Step By Step Guide On PermaHOST Application – Database Menu Options (Import Coronis XML File)

1.1.2. Import button will be activated once an XML File has been chosen.
2. Click on the button Import, the status of the imported file progress will be

shov	vn in the text box below Import .				
2.1.	Clear Import History	will	becomes	visible	to

1

allow user to clear the import History text box.

.

🧧 Import Coron	is XML File	X
Sele	ct XML File To Open	
XML File to	C:\Documents and Settings\alaina_t\Desktop\Logs Hydreka nov2010\2010-11-03 - EBEBCBA8D2AE	
	Clear Import History Import	
o 11/23/10.		
n PermaHOST, De ktop\Logs Hydrek	ployed Date 11/23/10, History Date: 2010-11-03T06:59:55.0000000Z, Level 5, Spread 3 and Leak Status N a nov2010\2010-11-03 - EBEBCBA8D2AECC08.xml. Please read the log for full report status.	
	Close	

Figure 71: Database->Import Coronis XML File (Example Dialog)

Database->Auto-Import Coronis XML File

Database->Auto-Import Coronis XML File

If this option has a \checkmark next to it, the application will check automatically every 3 minutes and 20 second if Coronis XML folder contains any XML file/s to be extracted.

- 1. If valid Coronis XML file/s exists in Coronis XML folder. The content of the file will be extracted and the XML file will be archived.
 - 1.1. Default location of Coronis XML folder is: C:\Program Files\HWM-Water Ltd\PermaHOST\Coronis XML
 - 1.1.1. This is the location where the XML file to be extracted automatically should be placed.
 - 1.2. Default location of Coronis XML Archive folder is C:\Program Files\HWM-Water Ltd\PermaHOST\Coronis XML\Archive
- 2. If the Coronis XML file in the Coronis XML folder is invalid or previously extracted already. The file will be archived to the unextracted folder.
 - 2.1. Default location of Coronis XML Unextracted Archive folder is C:\Program Files\HWM-Water Ltd\PermaHOST\Coronis XML\Unextracted XML Archive
- 3. Where there is no ✓ next to this setting, any XML file in the Coronis XML File folder will not be extracted or archived.

Participation of the second second

Figure 72 explains what the various lines in About PermaHOST... mean:



Figure 72: About PermaHOST...

Unrecognised Messages

Figure 73 shows the Data Pane view for Unrecognised Messages when Unrecognised Messages are selected in Location Pane. See *Table 7* for a summary of the Data Pane Column of the Unrecognised Messages.

ocation Pane -> Unrecogn racket value at the right i his value will not change	nised Messages is the total number o e even if date filter is	of unrecogn s applied)	ised messages in the database.	
PermaHOST - C Documents and S	l Settings\alaina_t\Desktop\Alli	ed Power Database	eWSDWSD-NP-RM104@20100706(v4.00).mdb	
File View Settings Database Help	• 🛤			
PermaNet: MS (72) ALARMS (0) Currescontased Messages (2) Received Messages (15583) Sent Messages (15583) Sent Messages (9) Current Mathematical Messages (9) Current Mathematical Methods (Additional)	1 2010/09/27 14:53:09 2 2010/09/27 14:54:14	+447920007449 1 +447920007449 (The chicken is crossing the road. Overworked Data Pane -> Unrecognised Me	essages
Canal Road West Canal Road West Gloucester Road (Additional) Gloucester Road (Fresh Wate Gloucester Road (Salt Water) Gloucester Road (Salt Water)	Information Number of records returned	l by query: 2 (Unfi	filtered) Graphical Pane -> Unrecognis	ed Messages
	1			

Figure 73: Unrecognised Messages

All received messages that are not recognised by PermaHOST will be stored in Unrecognised Messages table in the database. Note a duplicated copy of this same message will be stored in Incoming messages.

The user could sort the Data Pane columns by ascending or descending view based on

what the user selects in the Data Pane column headings.

Table 7: Data Pane Columns for Unrecognised Messages

- ID This is an automatically generated number by the database. The latest received unrecognised message will have the largest ID number.
- Date/Time The date and time the message was received by the application. The date/time display format will be determined by the user selected date format described in *Settings->Date Format*.
- SIM The SIM card number that sent the message.
- Message The actual SMS Message received.

Location Pane->Unrecognised Messages->Context Menu

In the Location Pane, the user has the option to right-click and selects one of the following options:

Location Pane-> Unrecognised Messages->Clear All Unrecognised Messages

This option erases all the unrecognised messages stored in the database. On user confirmation,

- 1. The Unrecognised messages counter in Location Pane will be reset to zero
- 2. All Unrecognised messages displayed in Data Pane will be erased.
- 3. The Activity log file will be logged with the details of all deleted Unrecognised Messages.

Location Pane-> Unrecognised Messages->Clear Incoming SMS Log File

This option erases the content of the Incoming SMS Log File. On user confirmation, the Activity log file will log when the incoming SMS log was cleared.

Data Pane->Unrecognised Messages->Context Menu

In the Data Pane, the user has the option to right-click and selects one of the following options:

Data Pane-> Unrecognised Messages->Copy

This option will copy the message content of the selected unrecognised message onto the clipboard. The user could then choose to paste the copied content where they wish, e.g. paste into notepad.

Data Pane-> Unrecognised Messages->Remove

This option will remove the selected unrecognised message from the database. On removal:

- 1. The Activity log is updated with the deleted message.
- 2. The Unrecognised messages counter in Location Pane will be decremented by 1 to reflect the correct number of unrecognised messages left in the database.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E
 Received Messages

Received Messages

Figure 74 shows the Data Pane view for Received Messages when Received Messages is selected in Location Pane. See *Table 8* for a summary of the Data Pane Column of the Received Messages.

i i i		lieu)		
PermaHOST - C:\Dc cuments and	d Settings\alaina_t\Desktop\Al	lied Power Database\WSI	\\WSD-NP-RM104@20100706(v4.00).n	ndb 🔳 🗖
⊻iew ≦ettings Dat <mark>a</mark> base <u>H</u> elp				
) 😅 🖬 👗 📭 🖪 😹 🤶 🍞 🛾	8			
B WSD-NP-RM104@2 100706(v4.(^	ID Date/Time	SIM Messag	e	
ALARMS (0)	14728 2009/09/22 06:00:46 14769 2009/09/21 06:01:43	+85263956342 gnetF0 +85263956342 gnetF0	07,00 D7,00 Data Pane	-> Received Messages
Received Messages (15583)	14767 2009/09/20 06:01:42 14807 2009/09/19 06:01:47	+85263956342 gnetF0	77,00 37,00	
Canal Rd West (Additional) Canal Road West Goursester Rd (Additional)	Information Number of records returned	ed by query: 15583 (Unf	ltered)	

Figure 74: Received Messages

All received messages by PermaHOST will be stored in the Received Messages table in the database. Note if the received message is not recognised by PermaHOST application, a duplicated copy of this same message will be stored in Unrecognised Messages.

The user could sort the Data Pane columns by ascending or descending view based on what the user selects in the Data Pane column headings.

Table 8: Data Pane Columns for Received Messages

ID	This is an automatically generated number by the database. The latest received
	message will have the largest ID number.
Date/Time	The date and time the message was received by the application. The date/time
	display format will be dependent on the user selected date format described in
	Settings->Date Format.
SIM	The SIM card number that sent the message.
Message	The actual SMS Message received.

Location Pane->Received Messages->Context Menu

In the Location Pane, the user has the option to right-click and selects one of the following options:

Location Pane->Received Messages->Clear All Received Messages

This option erases all the received messages stored in the database. On user confirmation,

- 1. The Received messages counter in Location Pane will be reset to zero
- 2. All Received messages displayed in Data Pane will be erased.
- 3. The Activity log file will be logged with the details of all deleted Received Messages.

Location Pane-> Received Messages->Clear Incoming SMS Log File

This option erases the content of the Incoming SMS Log File. On user confirmation,

1. The Activity log file will log when the incoming SMS log was cleared.

Data Pane->Received Messages->Context Menu

In the Data Pane, the user has the option to right-click and selects one of the following options:

Data Pane-> Received Messages->Copy

This option will copy the message content of the selected received message onto the clipboard. The user could then choose to paste the copied content where they wish, e.g. paste into notepad.

Data Pane-> Received Messages->Remove Selected Message

This option will remove the selected received message from the database. On removal:

- 1. The Activity log is updated with the deleted message.
- 2. The Received messages counter in Location Pane will be decremented by 1 to reflect the correct number of received messages left in the database.

Data Pane-> Received Messages->Clear All Incoming Messages

This option will remove all received messages from the database. On removal:

- 1. The Received messages counter in Location Pane will be reset to zero
- 2. All Received messages displayed in Data Pane will be erased.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E Received Messages – Context Menu Options

3. The Activity log file will be logged with the details of all deleted Received Messages.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E Sent Messages

Sent Messages

Figure 75 shows the Data Pane view for Sent Messages when Sent Messages is selected in Location Pane. See *Table 9* for a summary of the Data Pane Column of the Sent Messages:

		even il date litter	is applied)			
PermaHOST -);'Documents and	Setting	s\alaina_t\Desktop\Al	llied Power Database\WSD\WSI	D-NP-RM104@20100	1706(v4.00).m	db 🔲 🗖
le Yiew Settings Database Help	a a					
Li 🖙 🖃 👗 👪 🖷 😅 🦉	100 N	Date/Time	Mercare Tune	Dectination SIM	Mercane	
PermaNet SMS (72) ALARMS () Contract SMS (72) Unrecognized Messages (2) Received Viessages (15583) Safet Messages (4) Safet Messages (9)	4 3 2 1	2010/09/24 09:05:37 2010/09/24 09:04:15 2010/09/24 09:02:04 2010/09/23 15:47:36	GET CONFIG: SMS Repeater GET CONFIG: SMS Repeater GET CONFIG: SMS Repeater GET CONFIG: SMS Repeater GET CONFIG: SMS Repeater	+447739640796 +447739640820 +447739640830 +15133191008	GET CONFIG GET CONFIG GET CONFIG GET CONFIG	Data Pane-> Sent Messages
E Canal Rd West (Additional) E S Canal Road West	<					
Gloucester Rd (Additional)	Infor Numb	<u>mation</u> er of records returne	ed by query: 4 (Unfiltered)		G	raphical Pane-> Sent Messages
adv						Madan Garak

Figure 75: Sent Messages

All messages successfully sent by PermaHOST will be stored in Sent Messages table in the database.

The user can sort the Data Pane columns by ascending or descending view based on what the user selects in the Data Pane column headings.

Table 9: Data Pane Columns for Sent Messages

ID	This is an automatically generated number by the database. The latest SENT message will have the largest ID number.
Date/Time	The date and time the message was sent by the application. The date/time display format is specified by the user selected date format described in <i>Settings->Date Format</i> .
Message Type	The type of message sent by PermaHOST Application.
Destination SIM	The SIM card number that PermaHOST application sent the message to.
Message	The actual SMS Message sent.
SENT Message Status	Always return "YES" as only messages sent successfully will be logged into the SENT message folder.

Location Pane->Sent Messages->Context Menu

In the Location Pane, the user has the option to right-click and selects one of the following options:

Location Pane->Sent Messages->Clear All Sent Messages

This option erases all the messages sent, stored in the database. On user confirmation,

- 1. The Sent messages counter in Location Pane will be reset to zero
- 2. All Sent messages displayed in Data Pane will be erased.
- 3. The Activity log file will be logged with the details of all deleted Sent Messages.

Location Pane-> Sent Messages->Clear Outgoing SMS Log File

This option erases the content of the Outgoing SMS Log File. On user confirmation,

1. The Activity log file will log when the Outgoing SMS log was cleared.

Data Pane->Sent Messages->Context Menu

In the Data Pane, the user has the option to right-click and selects one of the following options:

Data Pane-> Sent Messages->Copy

This option will copy the message content of the selected sent message onto the clipboard. The user could then choose to paste the copied content where they wish, e.g. paste into notepad.

Data Pane-> Sent Messages->Clear Selected Sent Message

This option will remove the selected sent message from the database. On removal:

- 1. The Activity log is updated with the deleted message.
- 2. The Sent messages counter in Location Pane will be decremented by 1 to reflect the correct number of sent messages left in the database.

Data Pane-> Sent Messages->Clear All Sent Messages

This option will remove All SENT messages from the database. On removal:

- 1. The Sent messages counter in Location Pane will be reset to zero
- 2. All Sent messages displayed in Data Pane will be erased.
- 3. The Activity log file will be logged with the details of all deleted Sent Messages.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E
 Failed Messages

Failed Messages

Figure 76 shows the Data Pane view for Failed Messages when Failed Messages is selected in Location Pane. See *Table 10* for a summary of the Data Pane Column of the Failed Messages.

Bracket value at the rig (This value will not cha	ing Ing	is the t e even	total number of f if date filter is a	ailed messages in the data oplied)	base.	
PermaHOST - C:Nocuments a	nd S	lettings	\alaina_t\Desktop\Al	lied Power Database\WSD\WSD-N	P-RM104@20100	706(v4.00).mdb
e <u>V</u> iew <u>S</u> ettings D <mark>u</mark> tabase <u>H</u> elp						
) 🖆 🖬 👗 📭 💼 🚳 🤋	8	8				
B WSD-NP-RM104@ 20100706(v4.0	~ [ID	Date/Time	Message Type	Destination SIM	Message
PermaNet SM: (72)		8	2009/10/21 06:00:35	DEBUG SMS SETUP CONFIG IGNORE	+85263941261	SET NUM1 +85263953907 PAT-DUR 3c PAT-START 0700 RPT-TIME 08
ALARMS (0)		7	2009/10/21 07:01:38	 GET	+85263941446	GET CONFIG
- 🕐 Unrecognised Messages (2)		6	2009/10/21 20:06:09	GET	+85263953903	GET CONFIG
- @ Received Mestages (15583)		5	2009/10/22 07:01:55	GET	+85263941085	GET CONFIG Data Pane-> Failed Messages
Sent Messager (4)		4	2010/01/04 07:00:49	GET	+85263953747	GET CONFIG
Capal Rd West (Additional)		3	2010/01/11 07:00:07	GFT	+85263953740	GET CONFIG
E Canal Road West	ļ	<				
Gloucester Rd (Additional) Gloucester Road (Fresh Wate Gloucester Road (Salt Water) Gloucester Road (Salt Water)	~	<u>Inforr</u> Numbe	<u>nation</u> er of records returne	ed by query: 9 (Unfiltered)		Graphical Pane -> Failed Messages
						Madau Caral,

Figure 76: Failed Messages

All messages unsuccessfully sent by PermaHOST will be stored in the Failed Messages table in the database.

The user can sort the Data Pane columns by ascending or descending view based on

what the user selects in the Data Pane column headings.

Table 10: Data Pane Columns for Failed Messages

ID	This is an automatically generated number by the database. The
	latest Failed message will have the largest ID number.
Date/Time	The date and time the message failed to be sent by the application.
	The date/time display format will be based on the user selected date
	format described in Settings->Date Format.
Message Type	The type of message failed to be sent by PermaHOST Application.
Destination SIM	The SIM card number that PermaHOST application failed to send
	the message to.
Message	The actual SMS Message that failed to be sent.
SENT Message Status	Always return "NO" as only message that failed to be sent will be
	logged into the FAILED message folder.

Location Pane->Failed Messages->Context Menu

In the Location Pane, the user has the option to right-click and selects one of the following options:

Location Pane->Failed Messages->Clear All Failed Messages

This option erases all the messages that failed to be sent, stored in the database. On user confirmation,

- 1. The Failed messages counter in Location Pane will be reset to zero
- 2. All Failed messages displayed in Data Pane will be erased.
- 3. The Activity log file will be logged with the details of all deleted Failed Messages.

Location Pane-> Failed Messages->Clear Outgoing SMS Log File

This option erases the content of the Outgoing SMS Log File. On user confirmation,

1. The Activity log file will log when the Outgoing SMS log was cleared.

Data Pane->Failed Messages->Context Menu

In the Data Pane, the user has the option to right-click and selects one of the following options:

Data Pane-> Failed Messages->Copy to Clipboard

This option will copy the message content of the selected failed message onto the clipboard. The user could then choose to paste the copied content where they wish, e.g. paste into notepad.

Data Pane-> Failed Messages->Remove Selected Failed Message

This option will remove the selected failed message from the database. On removal:

- 1. The Activity log is updated with the deleted message.
- 2. The Failed messages counter in Location Pane will be decremented by 1 to reflect the correct number of failed messages left in the database.

Data Pane-> Failed Messages->Send Selected Message Now

This option will send the selected message and remove the selected message from the failed message table.

1. The Failed messages counter in Location Pane will be decremented by 1 to reflect the correct number of failed messages left in the database.

- 2. On successfully sending the message, Sent messages counter will be incremented by 1. If however if the message failed to be sent, the failed messages counter will be re-incremented instead.
- 3. The Activity log file will be logged with the details of the deleted Failed Messages.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E Alarms Reports

ALARMS Reports

Figure 77 shows the Data Pane view for Alarms Reports when ALARMS is selected in the Location Pane. See *Table 11* for a summary of the Data Pane Column of the Alarms Reports.

Bracket value at the	right is	the total nu	mber of	Alarm Rep	orts in the da	atabase.			
(This value will not o	change	even if date	lilter is	applied)					
PermaHOST - C: Documents and	I Settings\	alaina_t\Desktop	PermaHO	ST Previous Ve	sion\DB_V390To	¥400.mdb			
<u>File View S</u> ettings Database <u>H</u> elp									
D 🚅 🗐 👗 🖻 🖻 🎒 💡	۵ 🖌								
= 🖉 DB_V390ToV4 0.mdb 🛛 🔼	EventID	PermaLog Serial (?)	ECU No.	PermaNet Serial	PermaNet SMS Tel	Date/Time	Scheduled/Unschedule	d PermaNet SMS Alarm Type	Permalog+ Alar
PermaNet.5MS (9)	4	00000002 (aj)	0100	02090100	+447739640792	2010/02/08 00:00:00	Scheduled Date		No Leak to Leal
ALARMS (63)	12	00000002 (aj)	0100	02090100	+447739640792	2010/02/28 00:00:00	Scheduled Data	Pane-> Alarm Reports	No Leak to Lea
Unrecognised Messages (3)	46	12991015 (aj)	0101	02090101	+447739640835	2010/04/04 00:00:00	Scheduled	Low GSM Signal Strength 16%	
Received Messages (27)	41	12991015 (aj)	0101	02090101	+447739640835	2010/04/01 00:00:00	Scheduled	Low GSM Signal Strength 22%	
Sent Messages (26)	200	0000002/50	0100	02000100	1447720640702	2010/02/20 00-00-00	Cohodulad	Low CEM Ganal Strangth 25%	(1E09) Curtor
DormaHOST						1			
E-S Ultrasonic Station (15-Dec-20	Inform	ation							
- > 11070067 (a)	Numbe	r of records retu	rned hv a	uerv: 63 (Unfilt	ered)				
- 🕲 Ultrasonic Station (16-Dec-20					,				
— 🍾 00000002 (b)							Grap	hical Pane ->Alarm Rep	orts
— 🍾 12233333 (a) 🛛 🞽									
eady								Modern S	Signal:

Figure 77: Alarms Reports

All GNET messages with Alarm contents received successfully by PermaHOST will be stored in ALARM Report table in the database.

The user can sort the Data Pane columns by ascending or descending view based on

what the user selects in the Data Pane column headings.

Table 11: Data Pane Columns for ALARMS Reports

EventID	This is an automatically generated number by the database. The latest Alarm Report will have the largest ID number.
PermaLog Serial (?)	The Permalog logger Serial number with it unique alphabet identification.
ECU No.	This number is used as the source ID for all leak-status messages sent via SMS.
	Currently, it is the last 4 digits of the PermaNet SMS Serial number.
PermaNet Serial	PermaNet SMS Serial Number
PermaNet SMS Tel	The PermaNet SMS SIM card number.
	Each PermaNet SMS will have a unique PermaNet SMS Telephone Number



Date/Time	The date and time the Alarm report was received by the application. The date/time display format will be based on the user selected date format described in <i>Settings->Date Format</i> .					
Scheduled/Unscheduled	The type of GNET message sent by PermaNet SMS.					
	Scheduled means the PermaNet SMS unit was set to data report on the day the GNET message was received.					
	Unscheduled means the PermaNet SMS unit was not set to data report on the day the GNET message was received.					
PermaNet SMS Alarm Type	The type of PermaNet SMS Alarm. Could be one or all of the following:					
	Low Battery					
	Low GSM Signal Strength xxx%					
Permalog+ Alarm Type	The type of Permalog+ Alarm. Could be one or three of the following					
	Low Battery					
	Low RF Signal Strength xxx%					
	Leak to No Leak or No Leak to Leak					

Location Pane->ALARMS->Context Menu

In the Location Pane, the user has the option to right-click and selects one of the following options:

Location Pane-> ALARMS->Export Alarms Histories

This option allows the user to export all Alarms Reports in the database to CSV. An example of such a CSV file is shown below (*Figure 78*).

🖂 /	dicrosof	t Excel - Alari	nsHistories									
1	21.23	2 🔁 bi i	5013	り自い	Reply with g	hanges E	igd Review					
:87	File E	dt Wew Ins	ert Format	Tools Data	Window	Help					Type	a question for help
_							Adal	- 10 - B Z	U DE B	E 30 133 140	N、・*2 221連連田・2a・A・	
			(1. (1. 1. M)	AN L M Ch	-		10 m AL 71:4					
			SI Q. √	an a ca	🖸 • 🐴	•) • (*	- 1 🎭 🎍 - 24 X4 18	1 49 100% · 🥹	-			
_	D21	-	fs:									
-	A		В		U U		U	E	F	G	н	
1	Event II) PermaLog S	Serial Alphal	set PermaNe	I SMS ECU	J Number	PermaNet SMS Serial	PermaNet SMS Tel	Date/Time	Message Type	PermaNet SMS Alarm/s Type	PermaLog Alarm/s Type
2		9 00000016 (a)	1			5678		447920007449	06/03/2009	Scheduled	Low Battery; Low GSM Signal Strength 48%	
3	10	3 00000016 (a				6678		447920007449	06/03/2009	Unscheduled	Low Battery; Low GSM Signal Strength 48%	
4	11	1 00000016 (a)				5678		447920007449	09/03/2009	Scheduled	Low GSM Signal Strength 32%	
5	10	2 00000016 (a)	1			5678		447920007449	10/03/2009	Scheduled	Low GSM Signal Strength 48%	Low Battery
6	13	3 00000016 (a				5678		447920007449	11/03/2009	Unscheduled	Low GSM Signal Strength 48%	Low Battery
7	14	1 00000016 (a)	1			5678		447920007449	12/03/2009	Scheduled	Low GSM Signal Strength 48%	No Leak to Leak
8	18	5 00000016 (a				6678		447920007449	13/03/2009	Unscheduled	Low GSM Signal Strength 48%	Leak to No Leak
9	16	6 00000016 (a				5678		447920007449	12/03/2009	Scheduled		No Leak to Leak
10	13	7 00000016 (a)				5678		447920007449	13/03/2009	Unscheduled		Leak to No Leak
11	18	3 00000016 (a				5678		447920007449	14/03/2009	Scheduled		Low RF Signal Strength 61
12	19	00000016 (a				5678		447920007449	15/03/2009	Unscheduled		Low RF Signal Strength 61
13	21	00000016 (a				6678	12345678	447920007449	14/09/2007	Unscheduled	Low Battery	
14	2	06081583 (a				5678	12345678	447920007449	04/07/2008	Scheduled	Low GSM Signal Strength 3%	
15	2	2 06080289 (a)				5678	12345678	447920007449	01/07/2008	Scheduled		
16												
н	1 > H/	AlarmsHistori	es/							<		2
Des	÷											AL 104

Figure 78: ALARMS->Export Alarms Histories (to CSV file)

Location Pane->ALARMS->Clear All Alarm Histories

This option removes all Alarms Histories stored in the database.

Data Pane->ALARMS->Context Menu

In the Data Pane, the user has the option to right-click and selects one of the following options:

Data Pane->ALARMS->Export Alarms Histories

This option allows the user to export all Alarms Reports in the database to CSV. An example of such a CSV file is shown above (*Figure 78*).

Data Pane->ALARMS->Delete Selected Alarm History

This option will remove the selected Alarm report from the database. On removal:

- 1. The Activity log is updated with the deleted alarm report
- 2. The Alarm counter in Location Pane will be decremented by 1 to reflect the correct number of Alarms Reports left in the database.

Data Pane->ALARMS->Print Alarm Histories

This option will print the Alarm Histories displayed in the Data Pane.



PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E ▲ Alarms Reports – Context Menu Options

Data Pane->ALARMS->Print Preview

This option enables the user to check print layout without actually printing. It is the user's responsibility to ensure that the pages fit into the user individual printer margins.



VermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E 📋 PermaNet SMS

🐸 PermaNet SMS

Figure 79 shows the Data Pane view for the PermaNet SMS in the current database when the user selects PermaNet SMS in Location Pane.





All PermaNet SMS configuration messages sent by any PermaNet SMS to PermaHOST (modem SIM number) will be decoded and stored into the PermaNet SMS Current Database.

In the event that PermaHOST is expecting a Pending configuration from the PermaNet SMS, the Pending Table will be compared with the received configuration message.

- In the event of a match, the Pending Configuration in the table will be deleted • and the Current Configuration table will be updated.
- In the event of a mismatch, the Current Table will be updated with the • received configuration. And the Pending Configuration will be resent. PermaHOST will resend the Pending configuration for a maximum of 3 times (Resend will be done on each mismatched PermaNet SMS configuration message received). Thereafter, the user will be informed that the maximum number of retries has been exceeded and no further resending of the Pending configuration will be done by PermaHOST application, until the user specifies otherwise in the PermaNet SMS Setup dialog box shown in Figure 127.

The user could sort the Data Pane columns by ascending or descending view based on what the user selected in the Data Pane column headings.



Table 12: Data Pane Columns for PermaNet SMS

PermaNet Serial	PermaNet SMS Serial Number						
ECU No.	This number is used as the source ID for all leak-status messages sent via SMS.						
	Currently, it is the last 4 digits of the PermaNet SMS Serial number.						
PermaNet	The PermaNet SMS SIM card number.						
SMS Tel	Each PermaNet SMS will have a unique PermaNet SMS Telephone Number						
Host PC Tel	PermaHOST modem SIM card number.						
	This is the number the PermaNet SMS is configured to send its Leak status message to.						
	(Also known as NUM1)						
NUM2	Report-copy number.						
	Whenever the PermaNet SMS is swiped with a magnet, this number will be sent a GNET message from the PermaNet SMS which has been reset.						
Patrol Days	The days the PermaNet SMS is set to patrol for Permalog+ within its range.						
	SMTWTFS refers to=>						
	<u>S</u> unday, <u>M</u> onday, <u>T</u> uesday, <u>W</u> ednesday, <u>T</u> hursday, <u>F</u> riday & <u>S</u> aturday						
	Example: If the device is set to Patrol only on Monday and Friday data pane will display Patrol Days as -MF- .						
Patrol Start	The time the PermaNet SMS is set to wake up on its Patrol Day/s.						
Time	Time is shown in 24 hour format: hh:mm						
Patrol	The period in seconds the PermaNet SMS is to stay awake for after its Patrol						
Duration	Start Time on a Patrol Day.						
(seconds)							

Duration ranges from 20 seconds to 120 seconds.

Default is 30 seconds unless the user specified otherwise.

DataReportThe days the PermaNet SMS is set to wake up to send it Permalog+DaysPatrolled Data Reports in the PermaNet SMS Database.

SMTWTFS refers to=>

<u>S</u>unday, <u>M</u>onday, <u>T</u>uesday, <u>W</u>ednesday, <u>T</u>hursday, <u>F</u>riday & <u>S</u>aturday Example: If the device is set to send it data report only on Tuesday and Saturday data pane will display Data Report Days as --**T**---**S**.

Data Report The time the PermaNet SMS is set to wake up on it Data Report Days.

Time is shown in 24 hours format: hh:mm

Pending Yes = Pending configuration exists for the particular PermaNet SMS

Configuration?

Time

No = Pending configuration does not exist for the particular PermaNet SMS.

Pending configuration of the particular PermaNet SMS could be viewed in the PermaNet SMS Setup dialog shown in *Figure 127*.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E
 PermaNet SMS – Context Menu Options

Location Pane->PermaNet SMS->Context Menu

In the Location Pane, the user has the option to right-click and selects one of the following options:

Location Pane-> PermaNet SMS ->Add PermaNet SMS Config

This option opens the dialog box shown in Figure 80.

Note: From PermaHOST 3.80 onwards, it is no longer necessary for the user to manually populate the PermaNet SMS Table.

This could be handled automatically by PermaHOST without user input, the following procedures could be skipped if the user prefers to let PermaHOST handle the populating of the PermaNet SMS table in the database.

The minimum requirement to get the PermaNet SMS to display itself on the PermaNet SMS Data Pane is to:

- 1. Assign a PermaNet SMS Telephone Number
- 2. Check the checkbox "Change PermaNet SMS Configuration (Update to Current Database only)"
 - 2.1. Note: The user must not select the option "Change PermaNet SMS Configuration (Update to Pending Database Send SMS)"
 - 2.1.1. This option should only be used if the user decides to reconfigure the PermaNet SMS.
 - 2.1.2. The user is strongly recommended to use *Data Pane-> PermaNet SMS ->Send SMS to get PermaNet SMS Configuration* first or to allow PermaHOST to handle the process automatically (See *Settings->Auto-Send SMS to Retrieve PermaNet SMS Config* on Page 66)

	Address 1: Address 2: Notes:	
		Delete PermaNet SMS Information Confirm PermaNet SMS Information Update
odate PermaNet SMS Config ermaNet SMS Serial Number	uration for Permalog	Loggers Linked Current/Pending Setup Display Selection Delete PermaNet SMS Settings Current/PermANet SMS Settings Current SMS
ermaNet SMS ECU Number:		PermaNet SMS Type (Required to know how to handle GNET messages)
Open Configuration	File S	Save Configuration File
Open Configuration NOTE: Please E	File S	ave Configuration File PALMER PALMER PALMER PRE-PERMANET 2.13 RADIO-TECH Telephoren Number in the concent tomat that you would receive your PermaNet SMS Configuration via SMS (with vimbur Country Code, depending on network and country)
Open Configuration I NOTE: Please E PermaNet SMS Telephone N Patrol Settings Patrol Days IF SUN IF MON IF TI	File S nter PermaNet SMS lumber: UUES I WED I	ave Conjugation File PADID-TECH PADID-TECH PADID-TECH Telephone Number in the contect firmati that you would receive you PermaNet SMS Configuration via SMS with Winhout Control Code, depending on invelowing and controls with Winhout Control Code, depending on invelowing and controls Mobile Number (NUM2) Mobile Number (NUM2) Host PC Modem Number (NUM1) 07735640888 Mobile Number (NUM2) THURS FRI SAT Palod State Palod State Outgoing Palod 2019 Palot
Dpen Configuration NOTE: Please E PermaNet SMS Telephone M Patrol Settings Patrol Days SUN F MON F TU Data Report Settings Data Report Settings Data Report Day (Week F SUN F MON F TU	File Stress SMS	Save Configuration File © PAUMER C PAUMER PRE-ERRAWLET 213 C PADID-TECH Telephone Number in the contect format that you would receive you PermaNet SMS Configuration via SMS Solid Visitian Context for an envolve and counting Solid Soli

Figure 80: Location Pane->PermaNet SMS->Add PermaNet SMS Config

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 PermaNet SMS – Context Menu Options

Note that the following are disabled or blanked:

- 1. Permalog Loggers Linked
 - 1.1. No Permalog+ Logger could be linked because to link a PermaNet SMS, the SMS Telephone number must be defined first as mentioned in Setup PermaNet SMS Dialog Explained.
- 2. Update PermaNet SMS Information
 - 2.1. This option is totally disabled because this section is unique to a Permalog+. Accessing the Setup PermaNet SMS through this option does not allow entries as there is no linked Permalog+ logger.
- 3. Pending PermaNet SMS Settings Radio button is disabled.
- 4. PermaNet SMS Serial Number: Blank & Read only
- 5. PermaNet SMS ECU Number: Blank & Read only
- 6. PermaNet SMS Type (Required to know how to handle GNET messages)
 - 6.1. Default is "PALMER"; however, this value could be updated automatically by PermaHOST based on the received PermaNet SMS Configuration response messages.

Location Pane-> PermaNet SMS -> Export PermaNet SMS Configurations to CSV

This option allows the user to export all PermaNet SMS Configurations in the database to CSV. An example of such a CSV file is being shown below (*Figure 81*):



Figure 81: PermaNet SMS-> Export PermaNet SMS Configurations to CSV

Data Pane->PermaNet SMS->Context Menu

Note: There must be at least one PermaNet SMS configuration in the Data Pane before this context menu could be accessed.

In the Data Pane the user has the option to right-click and selects one of the following options:

Data Pane-> PermaNet SMS ->Delete Selected PermaNet SMS Configuration

This option will remove the selected PermaNet SMS Configuration from the database. On removal:

- 1. The Activity log is updated with the deleted Current configuration.
- 2. The PermaNet SMS counter in Location Pane will be decremented by 1 to reflect the correct number of PermaNet SMS Configurations left in the database.

Note if the PermaNet SMS to be deleted contains Pending Configuration, on removal:

- 1. The Activity log is updated with the deleted Current and Pending Configuration.
- 2. The PermaNet SMS counter in Location Pane will be decremented by 1 to reflect the correct number of PermaNet SMS Configurations left in the database.

Data Pane-> PermaNet SMS ->Add New PermaNet SMS Configuration

This option opens the dialog box shown in Figure 80.

Please refer to *Location Pane-> PermaNet SMS ->Add PermaNet SMS Config* for an explanation of the dialog box.

Data Pane-> PermaNet SMS ->Edit PermaNet SMS Configuration

Note: The user is strongly recommended to use *Data Pane-> PermaNet SMS ->Send SMS to get PermaNet SMS Configuration* first before attempting to use the *Data Pane-> PermaNet SMS ->Edit PermaNet SMS Configuration*. If using PermaHOST Version 3.80 onwards, the user is strongly recommended to allow PermaHOST to handle the populating of the PermaNet SMS Table.

This option opens the dialog box shown in Figure 82.

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 PermaNet SMS – Context Menu Options

Setup PermaNet SMS
Permalog Loggers Linked Update PermaNet SMS Information. Location ID (Area/Region): Address 1: Address 2: Notes:
Delete PermaNet SMS Information Confirm PermaNet SMS Information Update
Update PermaNet SMS Configuration for Permalog Loggers Linked Current/Pending Setup Display Selection PermaNet SMS Serial Number: 07080047 Delete PermaNet SMS Settings © Current PermaNet SMS Settings © PermaNet SMS Settings
NOTE: Please Enter PermaNet SMS Telephone Number in the correct format that you would receive your PermaNet SMS Configuration via SMS (with/without Country Code, depending on network and country) PermaNet SMS Telephone Number: +447734998843 Host PC Modem Number (NUM1): +447739640889 Mobile Number (NUM2): +447734998844 Patrol Settings Patrol Days Patrol Days Patrol Start Time (Hour): 10 Patrol Start 00 Duration: 30 seconds
Data Report Settings Report Staggering Data Report Day of Week If Serial number is 12345678. Significance digit to use is 1 and Time offset is 10. Report Staggering If Serial number is 12345678. Significance digit to use is 1 and Time offset is 10. Data Report Time Image: Seconds. Data Report Time Image: Seconds. Data Report Time Image: Seconds. Image: Seconds. Image: Seconds. Significance digit of PermaNet Image: Seconds. Image: Seconds. Image: Seconds.
OK Cancel

Figure 82: Data Pane->PermaNet SMS->Edit PermaNet SMS Configuration Displayed view:

- 1. All Permalog+ loggers linked will be shown under Permalog Loggers Linked
- 2. PermaNet SMS Serial Number (READ ONLY)
- 3. PSR ECU Number (READ ONLY)
- 4. Palmer SMS Type (Required to know how to handle GNET messages)
 - 4.1. PALMER will be selected for PermaNet SMS with firmware version from "Ver 01.00.03.00" onwards, provided a PermaNet SMS Configuration response was received by PermaHOST.
- 5. Pending PermaNet SMS Settings Radio button is enabled if there is Pending Entry.
- 6. PermaNet SMS Telephone Number (READ ONLY)
- 7. Host PC Modem Number (NUM1)
- 8. Mobile Number (NUM2)
- 9. Patrol Settings
- 10. Data Report Settings

Note that the following are disabled or blanked:

1. Update PermaNet SMS Information

- 1.1. This option is totally disabled because this section is unique to a Permalog+. Accessing the Setup PermaNet SMS through this option does not allow entries.
- 1.2. From PermaHOST Version 3.80 onwards, the user could view this unique information of each logger by selecting the logger in Permalog Loggers Linked List.
- 2. The Pending PermaNet SMS Settings option button is disabled if there is no Pending Entry.

The user could edit or change the PermaNet SMS configuration here:

To update to Current Database Only:

- 1. Adjust the settings as required.
- Check the checkbox "Change PermaNet SMS Configuration (Update to Current Database only)"
- 3. Click "OK"
- 4. The updated PermaNet SMS Configurations should be updated on the screen.
- 5. The Activity Log should be updated showing the configuration before and after the update.

To update to Pending Database and send PermaNet SMS Configuration message to a PermaNet SMS:

NOTE: This will reconfigure the PermaNet SMS Remotely. Do not attempt if you are unfamiliar with the Application. Example: Should the user accidentally reconfigure the PermaNet SMS to never wake up, the only way to rectify this is to go on-site to swipe the PermaNet SMS and reconfigure it on-site.

- 1. Adjust the settings as required.
- Check the checkbox "Change PermaNet SMS Configuration (Update to Pending Database_Send SMS"
- 3. Click "OK"
- 4. The last column in the Data Pane "Pending Configuration?" view for the particular logger should change from "No" to "Yes".
- 5. Activity Log should be updated showing the changes to the current Configuration from "No" for Pending to "Yes" for Pending.

- 6. On the next original Data Report day for the particular PermaNet SMS to wake up, the PermaNet SMS will receive the reconfiguration message and reconfigure the PermaNet SMS. The PermaNet SMS will respond to the HOST PC with its configuration.
- 7. On receiving the configuration response from the PermaNet SMS, PermaHOST will check the received entry for a match with the Pending database.
 - 7.1. If the Pending Configuration matches the received PermaNet SMS Configuration:
 - 7.1.1. Pending Configuration in the database will be deleted.
 - 7.1.2. Current database will be updated with the received configuration.
 - 7.1.3. Pending Status will revert to "No".
 - 7.1.4. The Activity log will be updated with the changes.
 - 7.2. If the Pending Configuration does not match the received PermaNet SMS Configuration:
 - 7.2.1. The Pending Configuration will be resent by PermaHOST automatically each time the Configuration message failed to match the Pending configuration. However, PermaHOST will only repeat this 3 times before warning the user of the failure to match the configuration.
 - 7.2.2. The Received PermaNet SMS configuration will be updated in the Current Table. There is no change to Pending Status so it remains as "Yes".
 - 7.2.3. The Activity log will be updated with the changes.

Data Pane-> PermaNet SMS ->Send SMS to get PermaNet SMS Configuration

To use this option the user should:

- 1. Select a PermaNet SMS in Data Pane to get the configuration of.
- 2. Right-click on the selected PermaNet SMS in Data Pane.
- 3. Click on the option "Send SMS to get PermaNet SMS Configuration".
- 4. Wait until the next data report day for the PermaNet SMS to respond to the configuration request (Note: Automatic from this point onwards)
- 5. When PermaHOST receives the configuration response from the PermaNet SMS, the Received PermaNet SMS configuration will be updated to the Current Table.
- 6. The Activity log will be updated with the changes.

Data Pane-> PermaNet SMS ->For Trained Engineer Use->PermaNet SMS Information

This option opens the dialog box shown in Figure 83.

Note that this is a READ Only dialog box, where all displayed data, cannot be edited.

- 1. "GET PermaNet SMS Status" Button
 - 1.1. Allows the user to query the PermaNet SMS for a new PermaNet SMS STATUS update.
 - 1.2. Note that an update will not be available until the next Data Report day of the selected PermaNet SMS
- 2. "GET PermaNet SMS Firmware VERSION" Button
 - 2.1. Allows the user to query the selected PermaNet SMS for its current PermaNet SMS Firmware version number.
 - 2.2. Note that an update will not be available until the next Data Report day of the selected PermaNet SMS

PermaNet SMS Information (For Trained Engineers Use)
PermaNet SMS Serial Number: 02090084 PermaNet SMS SIM Number: +447920007449 0K PermaNet SMS GSM Network Signal Strength (%): GNET Message Type:
PermaNet SMS Firmware Version Date Last Read: To obtain PermaNet SMS Firmware Version, please click the button (GET PermaNet SMS FIRMWARE VERSION) Note that the version number will not be updated until the next data report day. GET PermaNet SMS FIRMWARE VERSION PermaNet SMS FIRMWARE VERSION

Figure 83: Data Pane-> PermaNet SMS ->For Trained Engineer Use->PermaNet SMS Information

Data Pane-> PermaNet SMS ->For Trained Engineer Use->PermaNet SMS Alarm Specification

This option opens the dialog box shown in *Figure 84* and allows the user to configure the selected PermaNet SMS Alarm Configurations.

📓 PermaNet SMS Alarm Configurations 🛛 🛛 🔀								
PermaNet SMS Serial Number: 07103004 PermaNet SMS SIM Number: +447739640796								
Alarm Configurations to be sent to PermaNet SMS on Confirmation Alarm Config SMS Last Sent Date: Alarm Config Last Update Date: 2010/09/24 09:05:00								
PermaNet SMS Configuration Change via RF Enabled PermaNet SMS Configuration Change via SMS Enabled Unrecognised SMS Message Report Enabled P+ Change of Leak-State Alarm Report on transition into Leak State Report on transition into No-Leak State								
PermaNet SMS GSM Signal Strength Alarm Settings PermaNet SMS Low GSM Signal Strength Alarm Threshold: 0 PermaNet SMS Low GSM Signal Strength Alarm Enabled Authorisation Code: 0K Cancel								

Figure 84: Data Pane-> PermaNet SMS ->For Trained Engineer Use->PermaNet SMS Alarm Specification

Alarm configuration changes should be done only by trained engineers or PALMER. From Version 4.00 onwards, *Authorisation* Code must be provided before user is allowed to change PermaNET SMS Alarm Configuration.

- 1. PermaNet SMS Serial Number (READ ONLY)
- 2. PermaNet SMS SIM Number (READ ONLY)
- 3. GROUP "Alarm Configurations to be sent to PermaNet SMS on Confirmation"
 - 3.1. Alarm Config Last Update Date (READ ONLY)
 - 3.1.1. Blank if no PermaNet SMS Configuration message is ever received by PermaHOST.
 - 3.1.2. When the PermaNet SMS Configuration message response is received by PermaHOST, the Alarm configuration details are updated into the Alarm table. In this situation, the Alarm Config Last Update Date will have a date and time value.

- 3.1.3. "PENDING CONFIRMATION" this is shown when user has sent a request to confirm changes to Alarm Configuration of the selected PermaNet SMS Serial Number.
- 3.1.4. The date/time is not displayed because it is of an older date/time than that of "Alarm Config SMS Last Sent Date"
- 3.1.5. Note the "Alarm Config SMS Last Sent Date" will have a date/time value in this situation.
- 3.2. Alarm Config SMS Last Sent Date (READ ONLY)
 - 3.2.1. Blank if the user never sent out a request to change the selected PermaNet SMS Alarm Configuration.
 - 3.2.2. Date/time, contains the last date/time the user sent out a request to change the selected PermaNet SMS Alarm Configuration.
 - 3.2.3. If "Alarm Config Last Update Date" contains a date/time, the date/time will be of a more recent date than that of "Alarm Config SMS Last Sent Date".
- 3.3. P+ Low RF Signal Strength Alarm Threshold
 - 3.3.1. Allows the user to select a value in the range of 0 to 255, the threshold that Permalog Low RF Signal Strength should be flagged by PermaNet SMS to PermaHOST.
- 3.4. GROUP "P+ Extraordinary Report (Enabled if checked)"
 - 3.4.1. Checkbox P+ Low Battery Alarm Extraordinary Report Enabled
 - 3.4.1.1. This option if checked, allows the PermaNet SMS to send a SMS on a date that it is not scheduled to Data Report, and notify the end user of a P+ having Low Battery status.
 - 3.4.2. Checkbox P+ Low RF Signal Alarm Extraordinary Report Enabled
 - 3.4.2.1. This allows the PermaNet SMS to send an SMS on a date that it is not scheduled to Data Report, and notify end user of a P+ having low RF Signal Strength status.
 - 3.4.3. Checkbox 🔽 PermaNet SMS Low Battery Alarm Extraordinary Report Enabled
 - 3.4.3.1. This allows the PermaNet SMS to send a SMS on a date that it is not scheduled to Data Report, and notify the end user of its (PermaNet SMS) Low Battery status.

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 PermaNet SMS – Context Menu Options

- 3.5. Checkbox PermaNet SMS Configuration Change via RF Enabled (Default state recommended: Unchecked)
 - 3.5.1. Configure the PermaNet SMS to allow its configuration to be changed via Radio Frequency.
- 3.6. Checkbox PermaNet SMS Configuration Change via SMS Enabled (Default state recommended: Unchecked)
 - 3.6.1. Configure the PermaNet SMS to allow its configuration to be changed via SMS.
- 3.7. Checkbox 🗌 PermaNet SMS Configuration Change via SMS Enabled
 - 3.7.1. If checked, the PermaNet SMS will send any SMS it received that is not recognised back to PermaHOST.
- 3.8. GROUP "P+ Change of Leak-State Alarm"
 - 3.8.1. Checkbox 🔽 Report on transition into Leak State
 - 3.8.2. Checkbox C Report on transition into No-Leak State
- GROUP "PermaNet SMS GSM Signal Strength Alarm Settings" (This alarm is the only alarm not monitored by PermaNet SMS. If enabled, this alarm is monitored by PermaHOST)
 - 4.1. PermaNet SMS Low GSM Signal Strength Alarm Threshold
 - 4.1.1. Allows the user to select a value in the range of 0 to 31, the threshold that PermaNet SMS Low GSM Signal Strength should be flagged by PermaHOST to the end user.
 - 4.2. Checkbox 🗌 PermaNet SMS Low GSM Signal Strength Alarm Enabled

configuration will be sent to the PermaNET SMS.

- 4.2.1. The checkbox must be checked for PermaHOST to commence check on GSM Signal Strength. PermaHOST monitors and reports this alarm to the user on the screen if the GSM Signal Strength is below the specified threshold.
- 5. Authorisation Code: The correct Authorisation Code needs to be entered, so that when the user clicks "OK", the new alarm
 - 5.1. If the user opens the dialog box immediately, it will show "Alarm Config SMS Last Sent Date" as PENDING CONFIRMATION.
- 6. "OK"

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 PermaNet SMS – Context Menu Options

- 6.1. If the correct Authorisation Code has been entered. Clicking "OK" will send an Alarm Configuration message to the selected PermaNET SMS.
- 6.2. If an incorrect Authorisation Code has been entered. Clicking "OK" will result in a message pop up similar to *Figure 85*.

4 secon	ds remaining 🛛 🔀
1	Alarm Configuration not sent! Authorisation Code Error! Please enter the correct authorisation code or abort changes to alarm configuration.

Figure 85: PermaNET SMS - Alarm Configuration - Authorisation Code Error



Access Database

Figure 86 shows the Data Pane view for an opened Access Database when the user selects the particular Access Database in Location Pane.

Location Pane -	> Access Dat	abase			
PermaHOST - C:\Documents and	Settings\alaina_t\Deskto	p\Allied Power Database	\WSD\WSD-NP-RM104@20	0100706(v4.00).mdb	$\mathbf{\overline{X}}$
	> &				
E WSD-NP-RM104@20100706(v4.0	Number of Areas/Regions	Number of Noise Loggers	Number of Data Reports		_
PermaNet SMS (72)	9	86	18931		
Christophical Messages (2) Received Messages (1) Sent Messages (1)				Data Pane-> Access Database	
Canal Rd West (Additional)	Information Unfiltered. All Permalo	ogs and History are disp	laved.	Graphical Pane -> Access Database (Information)	
Ready				Modem Signal:	1/1

Figure 86: Access Database

Table 13: Data Pane Columns for Access Database

Number of			This reflects the total number of Areas/Regions in the selected database.
Areas/Regions			
Number Loggers	of	Noise	This reflects the total number of Permalog+ Noise Loggers in the selected database regardless of Areas/Regions.
Number	of	Data	This reflects the total number of Permalog+ Noise Loggers Data
Reports			Reports in the selected database regardless of Areas/Regions.

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 Access Database – Context Menu Options

Location Pane->Access Database->Context Menu

In the Location Pane users have the option to right-click and select one of the following options:

Location Pane->Access Database->Add Areas/Regions

This option allows the user to add a new Area/Region to the selected Access Database. *Figure 87* shows the dialog box when the user chooses the option to Add Areas/Regions.

📲 New Areas/Regio		
New Areas/Regions:		
	ОК	Cancel

Figure 87: New Areas/Regions Dialog box

- 1. After the user entered a new Area/Region Name, the user must confirm to add the new area/region entered.
- 2. On "OK", a message will pop up with the message example: (See Figure 88)
- 3. The Access Database Data Pane view will be updated automatically to reflect that the Number of Areas/Regions has incremented by 1.



Figure 88: Added Successfully Region/Area Name: (Name of added area/region)

Location Pane->Access Database->Close Access Database

1. This option closes the selected Access Database

Location Pane->Access Database->Host PC Telephone Number

This option allows the user to define a HOST PC Telephone Number. If the HOST PC

Telephone number is defined, it will automatically be entered into the PermaNet SMS

Setup Dialog when the user chooses to add a new PermaNet SMS configuration.

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 Access Database – Context Menu Options

Figure 89 shows the dialog box when the user chooses the option edit the Host PC

Telephone Number (SIM).

Host PC Telephone Number (SIM)	
Host PC Telephone Number (SIM): +447739640888	ОК
	Cancel

Figure 89: Host PC Telephone Number (SIM) Dialog Box

Location Pane->Access Database->View Loggers in Leak State

This option allows the user to view Active Loggers which are currently in Leak State

as shown in Figure 90.

If the user right-clicks on a logger displayed in this dialog box, the user will be able to

Modify Logger Status and View Logger Status, of the selected logger.

For Modify Logger Status, refer to Location Pane->Database Loggers ->Modify Logger

Details

For View Logger Status, refer to Location Pane->Database Loggers ->View Logger Details

🧧 View Active L	oggers in Leak S	tate					
View Active L Serial Alphabet 00000000 (a) 02082454 (a) 12999999 (a) 00000002 (ai) 12990067 (ai)	Area/Region PermaHOST PermaHOST PermaHOST Location 15 (29	tate Pipe Sensitivity 100% Normal 100% Normal 100% Normal 100% Normal	Days in Leak 4 1 1 2	Leak Start 2010/01/16 2010/01/28 2010/01/21 2010/01/30 2010/02/01	Leak Last Reported 2010/01/22 2010/01/28 2010/01/21 2010/02/02 2010/02/02	Address 1 Palmer Palmer	
<							۶
Export to CSV							Close



View Loggers in Leak State-> Export to CSV Button

Figure 90 shows the View Loggers in Leak State Dialog. In this dialog there is a button option to Export to CSV. When the user clicks on this button, a CSV file similar to the one show in *Figure 91* will be generated.

8	🛛 Microsoft Excel - ActiveLoggerInLeakStateCSV 📃 🗆 🔀										
:2	Eile Edit View	/ Insert Format Tools Da	sta <u>W</u> indow <u>H</u> el	p					Type a question for help 🔍 🗕 🗗 🗙		
10	💕 🖬 🖪 🔒	🖪 🖪 🌮 📖 X 🖬 (🔁 • 🛷 🌖 •	😣 Σ 🚽	1 🛍 🛐 🤇	🖉 🗄 Arial	• 10	• B I U 🔳 🗮	≡團 剄%,%%常律 ⊞・◇・▲・		
1	🔁 🐏 🐏 📿 👒 🖄 🛛 😕 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓 🖓										
	C4 💌	🏂 100% Normal									
	A	В	С	D	E	F	G	Н			
1	ACTIVE LOGGE	ERS IN LEAK STATE: INFOR	RMATION								
2	Serial Alphabet	Area/Region	Pipe Sensitivity	Days in Le	Leak Start	Leak Last Reported	Address 1	Address 2	Notes		
3	00000000 (a)	PermaHOST	100% Normal	4	16/01/2010	22/01/2010			PermaHOST		
4	02082454 (a)	PermaHOST	100% Normal] 1	28/01/2010	28/01/2010			PermaHOST		
5	12999999 (a)	PermaHOST	100% Normal	1 1	21/01/2010	21/01/2010			PermaHOST		
6	00000002 (ai)	Location 15 (29-Jan-2010)	150% Custom	4	30/01/2010	02/02/2010	Palmer	Cwmbran NP44 3AW	Linked to PermaNet SMS 0100. Located at Location 14		
7	12990067 (ai)	Location 01 (29-Jan-2010)	100% Normal	2	01/02/2010	02/02/2010	Palmer	Leak Site	PermaNet SMS Stolen from Ultrasonic station. Moved		
8									×		
H -	K ← → → ActiveLoggerInLeakStateCSV / S → S										
Rea	Ready										

Figure 91: View Active Loggers in Leak State -> Export to CSV Button

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E
 Database Area/Region

S Database Area/Region

When the user selects the particular Access Database Area/Region in the Location Pane, *Figure 92* shows the Data Pane view for the opened Access Database Area/Region.

Location Pane	-> Dat	abase /	Area/Regio	n					
😰 PermaHOST - C:\Program Files\Palmer	EnvironmentalV	PermaHOST\Palme	rTestSite(Restarted 29-Jan	-2010).mdb 📃 🗖 🔀				
File View Settings Help	yjew gettings Help De Fil X Ban R 6 9 9 30 80								
🗅 🚅 🖬 👗 📭 🖻 🦉 🐌 🛞									
PalmerTestSite(Restarted 29-Jan-2010).mdb	Number of	PermaLogs	Number of Data Reports	-					
PermaNet SM5 (5) ALARMS (3) Unrecognised Messages (3) Received Messages (15) Sont Messages (16)	2		3	Dat	Data Pane-> Database Area/Region				
Saled Messages (1) ⊕ S Forced Serial Duplicate (Empty) ⊕ Location 01 (14-Jan, 2010) ⊕ S Location 01 (19-Jan, 2010) ⊕ S Location 01 (20-Jan, 2010)	Total Pe	<u>ation</u> rmalogs Displayed	d: 2. Total Permalog Histor	y Disp Gra	olayed: 3. (Unfiltered) aphical Pane ->Database Area/Region (Information)				
Ready					Modem Signal:				

Figure 92: Database Area/Region

Table 14: Data Pane Columns for Access Database Area/Region

- NumberofThis reflects the total number of Permalog+ loggers in the selectedPermaLogsArea/Region.
- NumberofDataThis reflects the total number of Permalog+Noise Loggers DataReportsReports in the selected Area/Region.
Location Pane->Database Area/Region->Context Menu

In the Location Pane, the users have the option to right-click and select one of the following options:

Location Pane->Database Area/Region->Add Logger

This option allows the user to add a Permalog+ logger to the selected Database selected Area/Region. *Figure 93* shows the dialog box when the user chooses the option Add Logger.

- If a user wishes to link the logger to a PermaNet SMS (Regardless of whether the PermaNet SMS is already defined or not), the PermaNet SMS Telephone number should be defined under the edit box for "PermaNet SMS Telephone Number".
- 2. The minimum requirement to add a logger to the PermaHOST application is to at least assign the Serial Number of the Permalog+ logger.
- 3. The Location number should be no more than 8 digits (numbers only to be used with PermaLog PC Software.)
- 4. Optional entries for:
 - 4.1. Location Number
 - 4.2. Address1
 - 4.3. Address2
 - 4.4. PermaNet SMS Telephone Number
 - 4.5. Leak Threshold Adjustment (Pipe Sensitivity)
 - 4.6. Notes

Add Logger	×
Serial Number	-
Location Number	
Address 1	
Address 2	
PermaNet SMS SIM Number	_
Leak Threshold Adjustment [Pipe Sensitivity: Normal/Default = 100% Max. Sensitivity = 150% Min. Sensitivity = 50%]	•
Notes	
Add Close	

Figure 93: New Logger Dialog Box

Location Pane->Database Area/Region->Export Area/Region Loggers Data Report to CSV

This option allows the user to export the selected Area/Region Permalog+ loggers Data Report to CSV. An example of such a CSV file is shown below (*Figure 94* and *Figure 95*):

📮 arearegionloggers_data_reports - Notepad	
Ejle Edit Format Vjew Help	
Area/Region,Location 15 (29–Jan–2010)	~
Serial,00000002 Serial Alphabet,00000022 (ai) Pipe Sensitivity,150% Custom Event IO,Status,Date,Level,Spread,Msg Type,P+ Battery,P+ RF Signal,PermaNet Battery,PermaNet RSSI,Alarm Status 1.Leak,2010/01/30,11.3,Scheduled,OK,OK,58%, 2.Leak,2010/02/01,10,4,Scheduled,OK,OK,6K,58%, 3.Leak,2010/02/02,11.3,Scheduled,OK,OK,6K,58%,	
Serial,02082454 Serial Alphabet,02082454 (a) Pipe Sensitivity,100% Normal Event ID,Status,Date,Level,Spread,Msg Type,P+ Battery,P+ RF Signal,PermaNet Battery,PermaNet RSSI,Alarm Status 1,No Leak,2010/01/12,7,7,,,,, 2,No Leak,2010/01/28,34,13,,,,,,	8

Figure 94: Database Area/Region->Export Area/Region Loggers Data Report to CSV (Notepad view)

	licrosoft Excel - a	arearegionloggers_data_re	ports									
:	<u>Eile E</u> dit <u>V</u> iew	Insert Format Tools Date	a <u>W</u> indow <u>H</u> e	lp						Type a ques	stion for help 🛛 🝷	_ 8 ×
: 0	💕 🔒 🖪 🔒	🕘 📖 🗈 💦 • 🔊 • 🗆	😣 Σ - 🧎	11 🛐 🕡	🚆 Arial		• 10 •	B <i>I</i> <u>U</u> ≣	물 물 🖬 🔮	% , 50 .00 ∰	🗄 III • 🖄 •	A -
: 0	4a 4a 72 🕞 1		d Book with Chap	and Fod D								
:												
	A1 🔻	<i>f</i> ∗ Area/Region										
	A	В	C	D	E	F	G	Н		J	K	
1	Area/Region	Location 15 (29-Jan-2010)								-		
2												
3	Serial	2										
4	Serial Alphabet	00000002 (ai)										
5	Pipe Sensitivity	150% Custom										
6	Event ID	Status	Date	Level	Spread	Msg Type	P+ Battery	P+RF Signal	PermaNet Battery	PermaNet RSSI	Alarm Status	
7	1	Leak	30/01/2010	11	3	Scheduled	OK	OK	OK	58%		
8	2	Leak	31/01/2010	10	3	Scheduled	OK	OK	OK	58%		
9	3	Leak	01/02/2010	10	4	Scheduled	OK	OK	OK	58%		-
10	4	Leak	02/02/2010	11	3	Scheduled	OK	OK	OK	61%		
11												
12	Serial	2082454										
13	Serial Alphabet	02082454 (a)										
14	Pipe Sensitivity	100% Normal										
15	Event ID	Status	Date	Level	Spread	Msg Type	P+ Battery	P+RF Signal	PermaNet Battery	PermaNet RSSI	Alarm Status	
16	1	No Leak	21/01/2010	7	7							
17	2	No Leak	22/01/2010	7	7							
18	3	Leak	28/01/2010	34	13							
19												~
14 4	► N \ arearegic	onloggers_data_reports /						<				>
Read	ly										NUM	

Figure 95: Database Area/Region->Export Area/Region Loggers Data Report to CSV (Excel

view)

The exported file can be opened in notepad, excel, etc.

Note the date format saved to the file will be based on user selected Date Format, covered in *Settings->Date Format*.

Location Pane->Database Area/Region->Export Area/Region Loggers Details to CSV

This option allows the user to export the selected Area/Region Permalog+ loggers Details to CSV. An example of such a CSV file is shown below (*Figure 96*):



Figure 96: Database Area/Region->Export Area/Region Loggers Details to CSV

The exported file could be opened in notepad, excel, etc.

Note the date format saved to the file will be based on user selected Date Format, covered in *Settings->Date Format*.

Location Pane->Database Area/Region->Export Active Loggers Details & Data Report to PermaLog CSV

This option allows the user to export the selected Area/Region ACTIVE Permalog+ loggers Details to CSV. Only ACTIVE loggers are allowed to be exported because Permalog+ PC Software does not allow duplicated Serial Numbers. An example of such a CSV file is shown below (*Figure 97*):

	Microsoft	Excel - permalog	gSWCSV												
18	🖳 Eile Ed	lit ⊻iew Insert	Format <u>T</u> ools <u>D</u> ata <u>W</u> indow	/ Help								Type a	question for h	elp 🔹 💶	ēΧ
Ŧ) 💕 🖬	🖪 🔒 🖪 🖪	ኛ 📖 🐰 🗈 🛍 • 🕩 •	🤊 • 🧕 Σ • 灯 🛄 🛐 🤅	0 门 A	rial	v 10	- B .	ζ ∐ ≣		9% ,	€.0 .00 0.€ 00.		• 🕭 • 🛓	<u> </u>
Ŧ	<u>b</u> th th	🖾 💁 🖄 i 🗇 🖄	🏷 🗿 🖳 😥 🕬 Reply with	Changes End Review											
	D6	▼ fx													
Г	A	В	C	D	E	F	G	Н		J	K	L	M	N	
1	Palmer B	Environmental Pat	roller V6.2.4												
1	Serial	LocNum	Address1	Address2	Deployed	Received	Date	Status	Level	Spread	Date	Status	Level	Spread	C C
3	1299008	57 AA 0000 0000	Palmer	Leak Site	19/01/2010		02/02/2010	L	72	1	01/02/2010	L	72		1
4	1299181	6 AA 0000 0001	Palmer Environmental Ltd	Ty-Coch House Cwmbran N	(19/01/2010		02/02/2010	N	9	8	01/02/2010	L	10	(3 #
Ę	5			- 10											
6	5				1										~
н	4 + H \	permalogSWCSV	/		.			<							>
Re	ady											1	NUM		

Figure 97: Database Area/Region->Export Active Loggers Details & Data Report to PermaLog Software CSV

The exported file can be opened in notepad, excel, Permalog+ Software, etc.

Note the date format saved will be in the required format for PermaLog+ Software. Therefore the required saved format will be DD/MM/YYYY.

Location Pane->Database Area/Region->Export Active Loggers Telephone Numbers to CSV

This option allows the user to export the selected Area/Region ACTIVE Permalog+ loggers Telephone Numbers to CSV. An example of such a CSV file is shown below (*Figure 98*):

arearegion_activeLoggersTelNumbers.csv - Notepad	
<u>File Edit Format View H</u> elp	
Area/Region,Serial,Serial Alphabet,PermaNet SMS Telephone Numb TestSiteRestart25Sept08,12991017,12991017 (b),+447739640830,07 TestSiteRestart25Sept08,12991175,12991175 (b),+447739640829,07 TestSiteRestart25Sept08,12991236,12991236 (a),+447734998849,07 TestSiteRestart25Sept08,12991816,12991816 (b),+447739640790,07	er,Host PC Tel A 739640888 739640888 739640888 739640888 739640888
	~
	>
	Ln 1, Col 1

Figure 98: Database Area/Region->Export Active Loggers Telephone Numbers to CSV

Location Pane->Database Area/Region->Rename Area/Region

This option allows the user to rename an existing Area/Region to a different name. When the user chooses the option to rename the selected Area/Region, a dialog box similar to the one shown in *Figure 99* is shown.

Rename Area/Region Name	X
Selected Area/Region Name: T012	ОК
Rename Area/Region Name:	Cancel

Figure 99: Database Area/Region->Rename Area/Region

If the user enters a new Area/Region name and clicks "OK":

- 1. A message pop up will inform the user of the updated Area/Region name.
- 2. The Activity log will log the changes in Area/Region Name by the user.

Location Pane->Database Area/Region->Remove Area/Region

This option allows the user to remove an existing Area/Region.

Note that choosing this option will remove all loggers within the area/region, and any information related to the loggers, including data reports.

When this option is selected:

- 1. The user will be prompted with "Are you sure?"
- 2. On confirmation "Yes" the selected Area/Region to be removed will disappear from the application screen.
- 3. The Activity log will be logged with a log of area/region removed, along with all its related loggers, unique information and data reports.

Location Pane->Database Area/Region->INACTIVATE All Loggers in Selected Area/Region

This option allows the user to inactivate all loggers in a selected Area/Region.

Location Pane->Database Area/Region->Selective Activation/Deactivation of logger in Area/Region

This option allows the user to selectively activate or deactivate loggers within a particular Area/Region. See *Figure 100*.

Area/Region Lo	oggers Activation	or Deactivation	X
Area/Region:	PermaHOST	TIVE Loggers to Disp	lay
ACTIVE Loggers of Please move ACTI Finalise Changes.	live Loggers fisplayed. IVE logger to the list o	n the right-hand-side if you w	ish to deactivate them. Please Confirm_
ACTIVE (29)		Change to Inactive State (2)	
00000002 (a) 00000005 (a) 01010101 (a) 01091688 (a) 07071541 (a) 07090003 (a) 07090006 (a) 07090088 (a) 09085732 (a) 0909005 (a) 09090007 (a) 09090007 (a) 09090007 (a) 09090008 (a) 09090009 (a)	 ▲II -> → → 	01081851 (a) 03081637 (a)	Confirm & Finalise Changes Check to confirm changes to Activity Status for loggers in list box on the left FINALISE
01091688 (a) Location Number: Address 1: Le Hig Address 2: USA Additional Informa SMS reporting to I Last Report Date:	00000001 h County tion: LeHigh County P HWM 18-August-2010 2010/09/23	ermaNET SMS. Informed Lel]_26-August-2010. No further	High County of PermaNET action from HWM.

Figure 100: Location Pane->Database Area/Region->Selective Activation/Deactivation of logger in Area/Region

To use Area/Region Loggers Activation or Deactivation Dialog:

- 1. The user needs to select either radio buttons C List Active Loggers or C List Inactive Loggers
- 2. The Activity status of loggers in the Left List is specified by list name on top.
 - 2.1. Clicking on a logger in the Left List will display its Location Number, Address1, Address 2 and Additional Information. See example shown in *Figure 100*.

- 3. The list on the Right will hold loggers which the user had selected to possibly change their activity status.
- 4. To proceed to change the activity status of the loggers in the Right List, the user must:



Location Pane->Database Area/Region->Change Pipe Sensitivity of All Loggers in Selected Area/Region

This option allows the user to change the pipe sensitivity of All Loggers in a Selected Area/Region. Authorisation Code is required to use this option. See *Figure 101*.

📕 Change Pipe Sensitiv	rity of All Loggers in Sele	ected Area/Region	×
Area/Region Selected:	PermaHOST		
Apply Changes to ACTIVE	/INACTIVE/ALL Loggers		
C ACTIVE	INACTIVE	C ALL	
Select Pipe Sensitivity to Apply: Authorisation Code:		Y	Cancel

Figure 101: Location Pane->Database Area/Region->Change Pipe Sensitivity of All Loggers in Selected Area/Region

To use Change Pipe Sensitivity of All Loggers in Selected Area/Region Dialog:

- 1. Select one of the following radio buttons: C ACTIVE, C INACTIVE or C ALL
- 2. Once selected, select the required Pipe Sensitivity to Apply.
- 3. Enter the correct 🗳 Authorisation Code.
- 4. Click "OK".

With the correct Authorisation Code, the pipe sensitivity of loggers in a selected Area/Region could be changed and applied immediately.

> Database Loggers

Figure 17 shows the Data Pane view for a selected PermaLog+ Logger.

The user can sort the Data Pane columns by ascending or descending view based on

what the user selects in the Data Pane column headings.

Table 15: Data Pane Columns for Permalog+ Logger

Event ID	This value is automatically normalized by the application to start at 1. The latest Data Report will have the largest ID number.
	Note this value is not the same as the automatically generated number by the database. The latest Data Report will have the largest ID number.
Status	Indicate Leak Status (For Normal Pipe Sensitivity): ᅌ
	Indicate No Leak Status (For Normal Pipe Sensitivity): 🚳
	Indicate Leak Status (For Custom Pipe Sensitivity): 🧕
	Indicate No Leak Status (For Custom Pipe Sensitivity): X
Date	The date the data report is received. The date display format will be based on the user selected date format described in <i>Settings->Date Format</i> .
Level	Level range 0 to 99
Spread	Spread range 0 to 99
Msg Type	 The type of GNET message sent by PermaNet SMS. Scheduled means the PermaNet SMS unit was set to data report on the day the GNET message was received. Unscheduled means the PermaNet SMS unit was not set to data report on the day the GNET message was received.
P+ Battery	For PermaNet SMS Firmware pre-version Ver 01.00.03.00
	• Blank (no information)
	For PermaNet SMS Firmware Version from Ver 01.00.03.00

	• OK
	• LOW
P+ RF Signal	For PermaNet SMS Firmware pre-version Ver 01.00.03.00
	• Blank (no information)
	For PermaNet SMS Firmware Version from Ver 01.00.03.00
	• xxx%
PermaNet Battery	For PermaNet SMS Firmware pre-version Ver 01.00.03.00
	• Blank (no information)
	For PermaNet SMS Firmware Version from Ver 01.00.03.00
	• OK
	• LOW
PermaNet RSSI	For PermaNet SMS Firmware pre-version Ver 01.00.03.00
	• Blank (no information)
	For PermaNet SMS Firmware Version from Ver 01.00.03.00
	• xxx%
Alarm Status	Indicates if there is Alarm if the alarm is that of:
	1. PermaNet SMS Alarm
	2. PermaLog Alarm
	3. PermaNet & PermaLog Alarm

Location Pane->Database Loggers->Context Menu

In Location Pane, the user has the option to right-click and selects one of the following options:

The following note applies to both *Location Pane->Database Loggers ->View Logger Details* & Location Pane->Database Loggers ->Modify Logger Details

Note that from Version 3.80 onwards, when either of the above options is selected, if the PermaNet SMS SIM number has been entered but the PermaNet SMS Serial Number is empty, should *Settings->Auto-Send SMS to Retrieve PermaNet SMS Config* be enabled, PermaHOST will automatically send a configuration request SMS to the PermaNet SMS. This will only be done once automatically by PermaHOST for each unique PermaNet SMS SIM number.

Location Pane->Database Loggers ->View Logger Details

This option allows the user to view the details of an existing Logger. *Figure 102* shows an example of the dialog box, when the user chooses the option to View Logger Details for a specific Logger.

PermaLog Status		X
PermaLog Logger Status Serial Number Area/Region Name Location Number Address 1 Address 2 Pipe Sensitivity Deployed PermaNet SMS Telephone Number PermaNet Serial	ACTIVE 00000002 Location 15 (29-Jan-2010 00000015 Palmer Cwmbran, NP44 3AW 150% Custom 2010/01/19 +447739640792 02090100))
Notes		
Linked to PermaNet SMS 0100. Located a	t Location 15 hole.	
		OK



Location Pane->Database Loggers ->Modify Logger Details

This option allows the user to modify the details of an existing Logger. *Figure 103* shows an example of the dialog box, when the user chooses the option to Modify Logger Details for a specific Logger.

NOTE:

- 1. Should the user wish to assign/change the logger PermaNet SMS Telephone Number, the user should use "Modify Logger Details" option to do so.
- 2. The user assigned PermaNET SMS SIM Number will be automatically overwritten, if the logger is reported by another PermaNET SMS SIM Number.
 - 2.1. This is to take into account that the user's manual entry could be erroneous.
- 3. From Application version 4.00 onwards, to change the Pipe Sensitivity of a logger, user must enter the correct Authorisation Code first.

When the logger details have been modified, the Activity Log will have a log of these changes.

No dify Logge	r 🚺	×
Serial Number	01091688 ACTIVE	
Location Number	00000001	
Address 1	Le High County	
Address 2	USA	
Deploy Date (MM/DD/YYYY)	9 / 23 / 2010	
Pipe Sensitivity	100% Normal Authorise To Enable	
PermaNet SMS S	MNumber +15133191008	
PermaNet SMS S	Serial	
Notes	LeHigh County PermaNET SMS. Informed LeHigh County of PermaNET SMS reporting to HWM 18-August-2010 & 26-August-2010. No further action from HWM.	
	OK Cancel	

Figure 103: Database Logger->Modify Logger Details

Location Pane->Database Loggers ->Export Logger Data Report to CSV

This option allows the user to export the selected logger's data report to CSV. An example of such a CSV file is shown below (*Figure 104*):

8	Microsoft Excel - 00000002 data report														
:2	Eile Edit ⊻iew	Insert Format Iools Da	ita <u>W</u> indow	Help								Type	a question for	help 星	- 8 ×
10	📔 🖬 🖪 🔒	🗃 💁 💖 🎎 i 🕹 i	8 - 🧭 🔊	- 1 🧕	Σ • 2	🛄 🛐 🕡	🚆 Arial		• 10 • B I		9 % ,	00. 0.↓ 0.↓ 00.	读 读 [[🛛 • 🙆 •	A -
1	🚬 🐏 🐏 🖉 🗞 🕅 5 Xo 🛃 🖏 🚇 Tel Reply with Changes End Review														
	A1 🔻 🛪 Serial														
	A	В	C	D	E	F	G	Н	1	J	ĸ	L	M	N	~
1	Serial	2													
2	Serial Alphabet	00000002 (ai)													
3	Area/Region	Location 15 (29-Jan-2010)													
4	Pipe Sensitivity	150% Custom													=
5	Event ID	Status	Date	Level	Spread	Msg Type	P+ Battery	P+RF Signal	PermaNet Battery	PermaNet RSSI	Alarm Status				
6	1	Leak	30/01/2010	11	3	Scheduled	0K	0K	0K	58%					
7	2	! Leak	31/01/2010	10	3	Scheduled	OK	OK	OK	58%					
8	3	l Leak	01/02/2010	10	4	Scheduled	OK	0K	OK	58%					
9	4	Leak	02/02/2010	11	3	Scheduled	OK	0K	OK	61%					
10															
11															
12															~
н		12 data report /							<		1111				>
Rea	ty												NUR	N	1

Figure 104: Database Loggers->Export Logger Data Report to CSV

The exported file can be opened in notepad, excel, etc.

Note that the date format saved to the file will be based on user selected Date Format, covered in *Settings->Date Format*.

History Page

Location Pane->Database Loggers ->Setup PermaNet SMS

This option allows the user to use all the features mentioned in **Setup** PermaNet SMS Dialog Explained. Additionally, the users are able to enter Unique PermaNet SMS Information linked with the selected Permalog+ logger.

Notice from Figure 105 that unlike Figure 127 "Update PermaNet SMS Information" is enabled.

The user can edit this information which is unique to the selected Permalog+ logger only.

All other options are the same as described in Setup PermaNet SMS Dialog Explained (Page 150).

Note: The minimum requirement to enter unique PermaNet SMS information should the PermaNet SMS not be defined is to define the PermaNet SMS Telephone Number.

Note: From PermaHOST Version 3.80 onwards, the user could rely on PermaHOST to automatically populate the PermaNet SMS table provided Settings->Auto-Send SMS to Retrieve PermaNet SMS Config has a ✓ next to it.

E.g. ✓ Auto-Send SMS to retrieve PermaNet SMS Config

- Confirm PermaNet SMS Information Update To confirm unique information entry, click
- Delete PermaNet SMS Information To delete unique information, click
 - o Activity log will be logged with the deleted PermaNet SMS Information.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E
 Database Loggers – Location Pane Context Menu Options – Setup PermaNet SMS

Setup PermaNet SMS	×
Permalog Loggers Linked Update PermaNet SMS Information. 12991017 (a) Location ID (Area/Region): 12991017 (b) Address 1: Palmer Address 2: Ty-Coch House Notes: Notes for PSR 12991017 (b)	
Delete PermaNet SMS Information Confirm PermaNet SMS Information Update	
Update PermaNet SMS Configuration for Permalog Loggers Linked Current/Pending Setup Display Selection PermaNet SMS Serial Number: 07080048 Delete PermaNet SMS Settings Current/Pending Setup Display Selection PermaNet SMS Serial Number: 0048 Current PermaNet SMS Settings Current PermaNet SMS Settings Open Configuration File Save Configuration File PermaNet SMS Type (Required to know how to handle GNET messages) Open Configuration File Save Configuration File PALMER PALMER PRE-PERMANET 2.13 © RADIO-TECH NOTE: Please Enter PermaNet SMS Telephone Number in the correct format that you would receive your PermaNet SMS Configuration via SMS (with/without Country Code, depending on network and country) PermaNet SMS Telephone Number: +447739640830 Host PC Modem Number (NUM1): +447739640889 Mobile Number (NUM2): Patrol Settings Patrol Statt Time (Hour): 10 Patrol Statt Time (Minute): 00 Patrol Duration; 30 seconds Image: State	
Data Report Settings Report Staggering Data Report Day of Week If Serial number is 12345678. Significance digit to use is 1 and Time offset is 10. V SUN V MON V TUES V WED V THURS V FRI V SAT Report Staggering = 8 x 10 = 80 seconds. Data Report Time 10 V Data Report Time (Minute): 15 V Significant digits of PermaNet V Time offset (in seconds): V V Change PermaNet SMS Configuration (Update to Current Database Only) Change PermaNet SMS Configuration (Update to Pending Database_Send SMS) OK Cancel	

Figure 105: Database Loggers->Setup PermaNet SMS

Location Pane->Database Loggers ->Move Logger to Another Area/Region

This option allows the user to move a selected logger with or without its Data Report to another Area/Region within the same database. *Figure 106* shows the dialog that will pop up when the user selects this option.

Move Logger to A	nother Area/Region							
Logger Selected	00000016 (a)							
Current Area/Region of Logger	T012							
Microsoft Access Database of Logger	testDB.mdb							
Available Area/Region	PermaHOST	•						
COK/Cancel with addi	tional Check box option							
Check to Move v	Check to Move without Data Report Transfer							

Figure 106: Database Loggers->Move Logger to Another Area/Region

To move the logger with its data report, the user <u>must not check</u> the checkbox

- This option will move the logger as it is with it existing Serial Alphabet
- To move the logger without its data report, the user <u>must check</u> the checkbox

Check to Move without Data Report Transfer

- With this option the original Serial Alphabet will remain in its original Area/Region.
- The next available Alphabet for the particular serial number will be added to the required region to move to. Note that the status information of the Permalog will be available in this Area/Region as well.
- Also the shifted logger will be made the active logger, should there be no active logger with the same serial number at all.

Location Pane->Database Loggers ->Make Logger Active

This option allows the user to make a selected Logger an ACTIVE logger if it is in INACTIVE state.

- When the user right-clicks on an INACTIVE logger and selects "Make Logger Active"
- 2. All other loggers with the same 8 digit serial number will be deactivated.
- 3. The selected logger to be activated will become the active logger in the Location Pane display.
- 4. The Activity Log will log the date and time the logger was activated

Location Pane->Database Loggers ->Make Logger Inactive

This option allows the user to make a selected Logger an INACTIVE logger if it is in ACTIVE state.

- When the user right-clicks on an INACTIVE logger and selects "Make Logger Inactive"
- 2. A pop up menu similar to the one shown in Figure 107 will be shown.
- 3. The Activity Log will log the date and time the logger was deactivated



Figure 107: Database Loggers->Make Logger Inactive confirmation popup

Location Pane->Database Loggers ->Delete Logger

This option allows the user to delete a selected logger.

- 1. On confirmation to delete, the location will reflect the fact that the logger has been removed.
- The Activity log will reflect the Permalog+ Status, PermaNet SMS Unique Info (if it exists) and Permalog+ Data report/s deleted.

Location Pane->Database Loggers ->Manually Add/Change Level & Spread History

Figure 108 shows the dialog for Manual Leak History Entry.

Note:

- 1. The user will be able to create a new entry.
 - 1.1. The user will not be permitted to create a new entry for a future date.
- 2. The user will be able to update an existing entry.

📑 Manual Leak Histor	y Entry (Authorisati	on Required)	X
Logger Serial Alphabet: Area/Region:	01091688 (a) PermaHOST		
Select Date to Crea	ate Manual Entry:	2011/09/28	•
Level & Spread H	listory (Plus Author	isation Code) Authorisation Code:	
			Confirm Close

Figure 108: Location Pane->Database Loggers ->Manually Add/Change Level & Spread History

Procedure to Use Manual Leak History Entry Dialog:

- 1. Select a date from the calendar.
 - 1.1. If an entry already existed, it Level and Spread information will be displayed.
 - 1.1.1. E.g. See Figure 109.
 - 1.2. The user must check the **Overwrite Selected Date History** checkbox in order to permit overwriting of an existing entry.
- 2. Select a Level 0 to 99
- 3. Select a Spread 0 to 99
- 4. Enter the Authorisation Code
- 5. Click Confirm
 - 5.1. The entry would be added to the Main Application Data Pane and the Manual Leak History Entry dialog box will remains open.

6. To add or overwrite another entry, just repeat the procedure above. Otherwise click

Close to return to the main Application Screen.

- 6.1. An example of the database view is shown in Figure 110.
 - 6.1.1. Notice that Msg Type displayed "Manual Entry" and "Manual Overwrite". This is to help the user differentiate between Level & Spread received from PermaNET SMS and Level & Spread entered by the user.

📕 Manual Leak History Entry	y (Authorisatio	on Required)	×							
Logger Serial Alphabet: Area/Region:	01091688 (a) PermaHOST									
Select Date to Create Manual Entry: 2010/09/23										
Level and Spread history exists fo Level = 7 Spread= 2	or selected date.									
🔲 Overwrite Selected Da	ate History									
Level & Spread History	(Plus Authori	isation Code)	1							
LEVEL: SF	PREAD:	Authorisation Code:	Confirm Close							

Figure 109: Location Pane->Database Loggers ->Manually Add/Change Level & Spread History (Entry Exists)

🕹 PermaHOST - C:\Documents and Settings\alaina_t\Desktop\Allied Power Database\WSD\WSD-NP-RM104@20100706(y4.00).mdb													
<u>File View S</u> ettings Database <u>H</u> elp)												
0 🚅 🖬 🐰 🖻 🖻 🎒 1													
🛛 🧐 Failed Messages (9)	EventID	Status	Date	Level	Spread	Msg Type	P+ Battery	P+RF Signal	PermaNet Battery	PermaNet RSSI	Alarm Status		
표 🕤 Canal Rd West (Addition	28	1	2010/09/28	2	0	Manual Entry							
🖅 🔦 Canal Road West	27	4	2010/09/23	48	30	Manual Overwrite							
🕀 🕤 Gloucester Rd (Additiona	26	1	2010/09/22	8	3								
Gloucester Road (Fresh	25	۱	2010/09/21	8	3								
	24	۱	2010/09/20	7	6								
Hilled S.W.	23	6	2010/09/19	7	2								
	<									J	2		
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>					(12)								
🍾 00000004 (a)		pe Sen	sitivity: 100	% Norn		Address 1: Le Hi	gh County	Addre	ss 2: USA				
🏷 00000005 (a)		ocation	Number: UU	100001		ermanet SMS: +1	21331910	08//					
🍾 01010101 (a)	A	dditiona	il Informatio	n: LeH	gh Cou	nty PermaNET SM	S. Informe	d LeHigh C	ounty of Perm	aner sms re	eporting to HWM		
01091688 (a)		and (III	filtorod)										
03081637 (a)	100-	ever (or	inicereu)										
0 0001341 (a)	1												
кеаду										M	odem Signai:		

Figure 110: Data Pane View after History Manual Overwrite & New History Entry Added

Data Pane->Database Loggers->Context Menu

In the Data Pane the user has the option to right-click and selects one of the following options:

Data Pane->Database Loggers->Print Data Report

- 1. Right-click on the data pane, and select "Print Data Report"
- 2. The Print dialog will be shown.
- 3. To print, click "Print". (Use print preview prior to printing to check that the printer setup is correct. If not you will need to correct accordingly)

Data Pane->Database Loggers->Print Preview

- 1. Right-click on the data pane, and select "Print Preview"
- 2. A preview of the print layout of the data report will appear on the screen.

Data Pane->Database Loggers->Delete Selected Data Report

- Right-click on a data report in the data pane. Select "Delete Selected Data Report"
- 2. The selected data report is deleted from the data pane.
- 3. Check the Activity log to ensure that the selected data report deleted is logged in the Activity log.

Graphical Pane->Database Loggers->Context Menu

In the Graphical Pane, the user has the option to right-click and select one of the following options:

Graphical Pane->Database Loggers->Print Graph

- 1. Right-click on the graphical pane, and select "Print Graph"
- 2. The Print dialog should be shown on the screen.
- 3. Click print.

(Note: currently it takes approximately 8 minutes to 'print graph' a fully populated graph)

Graphical Pane ->Database Loggers->Print Preview

1. Right-click on the graphical pane, and select "Print Preview"

2. A preview of the print layout of the graph will appear on the screen. (Note the graphical pane print preview is for guidance only)

View Filters Information Dialog Box

The Filter Information Dialog box shown in *Figure 111* can only be viewed if there is at least one filter active, as the only way to get to this dialog is to click the **x** icon.

Filter Information
Date Filtering
PermaNet SMS SIM or Serial Number Filtering Filter by PermaNet SMS Tel Number PermaNet SMS Tel Number filtered: PermaNet SMS Serial Number filtered:
PermaLog Loggers Specific Filters Location Number Filtering Filter by Location Number Location Number Filtered: Filter by No Leak Filter by No Leak

Figure 111: View Filters Information Dialog Box

The user can select any combination of filters and activate them directly from this dialog box.

- 1. Date Filtering
 - 1.1. When checked, this will generate the date filtering dialog box shown in Figure 57. See View->Filters->Date Range for details on how to use this dialog box.
- 2. PermaNet SMS SIM or Serial Number Filtering
 - 2.1. When checked, this will generate the PermaNet SMS Number filtering dialog box shown in *Figure 59*. See *View->Filters->PermaNet SMS Number (SIM/Serial)* for details of how to use this dialog box.
- 3. PermaLog Loggers Specific Filters
 - 3.1. Location Number Filtering
 - 3.1.1. When checked, this will generate the Location Number filtering dialog box shown in *Figure 60*. See *View->Filters->Location Number* for details of how to use this dialog box.
 - 3.2. Leak/No Leak Filtering
 - 3.2.1. Note that for Leak/No Leak Filtering; at any one time, only Leak or No Leak can be selected. Checking one option will automatically uncheck the other option, if the other option is already checked.

3.3. Active/Inactive Filtering

3.3.1. Note that for Active/Inactive Filtering, at any one time, only Filter by Active Loggers or Filter by Inactive Loggers can be selected. Checking one option will automatically uncheck the other option, if the other option is already checked.

PermaHOST Summary Screen Dialog Box

The PermaHOST Summary Screen is shown when the Application first start up. Should the user wish to access the summary screen during normal operation, the user should select the Summary screen icon (see *Figure 112*) available in the Toolbar.

🐼

Figure 112: Summary Screen Icon in Toolbar

Clicking on the summary screen icon will result in the dialog box shown in *Figure* 113.

PermaHOST Summary Screen			
Current Status Overview Sensors Devices Administration			
Number of PermaLog Units			
2	84	86	
Registered PermaLogs	Unregistered/New PermaLogs	Total PermaLogs	
– Number of PermaLog Units	s Indicated Leak		
15	The Newest Leak Date	The Oldest Leak Date	
Total PermaLogs Indicated Leak	2010/09/28	2009/09/16	
	ОК]

Figure 113: PermaHOST Summary Screen – Current Status Overview Page

To display this summary screen in a specific date format if running the application for the first time:

- 1. Click "OK" to close the summary screen.
- 2. Follow the instruction in *Settings->Date Format*
- 3. Open the summary screen again by selecting the icon shown in *Figure 112*.

NOTE: It is important to note that any filters that the user applied in the main PermaHOST application will not apply within the PermaHOST Summary Screen. The PermaHOST Summary screen displays all ACTIVE Permalogs, regardless of user activated filtering. Individual filtering could be performed within certain pages in this TAB style dialog.

Current Status Overview Page

The Current Status Overview Page is the main page of the PermaHOST Summary Screen. Through this page, the user can access the Sensors Page and Devices Administration Page by clicking the respective tab.

The Current Status Overview Page shown in Figure 113 is split into two main sections:

- 1. Number of PermaLog Units
 - 1.1. Registered PermaLogs
 - 1.1.1. Displays the number of registered PermaLogs in the database.
 - 1.1.2. A PermaLog is considered registered if at least one of the following are available in the PermaLog Status
 - 1.1.2.1.Address 1, Address 2 or Location Number.
 - 1.1.3. Clicking on the Registered PermaLogs button will take the user to the Devices Administration Page containing the Registered Permalogs Page
 - 1.2. Unregistered/New PermaLogs
 - 1.2.1. Displays the number of unregistered PermaLogs in the database.
 - 1.2.2. A PermaLog is unregistered if it does not contain <u>all</u> of the following fields are incomplete in its PermaLog Status
 - 1.2.2.1.Address 1, Address 2 and Location Number.
 - 1.2.3. Clicking on the Unregistered/New PermaLogs button will take the user to the Devices Administration Page containing the Unregistered/New Permalogs Page

1.3. Total PermaLogs

- 1.3.1. Displays the total number of registered and unregistered/new PermaLogs in the database.
- 1.3.2. Clicking on the **Total PermaLogs** button will take the user to the Devices Administration Page containing the Total Permalogs Page
- Devices reministration rage containing the rotar re
- 2. Number of PermaLog Units Indicated Leak
 - 2.1. Total PermaLogs Indicated Leak
 - 2.1.1. Displays the total number of PermaLogs with their latest data history indicating leak.

- 2.1.2. Clicking on the Indicated Leak button will take the user to the Sensors Page containing the Permalogs Page.
 - 2.1.2.1.Note that only PermaLogs in Leak will be displayed in this particular situation.
- 2.2. The Newest Leak Date
 - 2.2.1. Displays the latest Leak date from the latest data history, detected in the database
- 2.3. The Oldest Leak Date
 - 2.3.1. Displays the oldest Leak date from the latest data history, detected in the database

Summary Screen – Devices Administration Page and Sensors Page Context Menu Options

The Context Menu Options shown in *Figure 114* is accessible by right-clicking on a particular Permalog in the list.



Figure 114: Summary Screen Context Menu Options

- 1. Modify Logger Status
 - 1.1. See Location Pane->Database Loggers ->Modify Logger Details on how to use this dialog.
 - 1.2. Any changes made will be reflected on the screen immediately.
- 2. View Logger Status
 - 2.1. See Location Pane->Database Loggers ->View Logger Details on how to use this dialog.
- 3. Show History
 - 3.1. Data Reports History of selected logger will be displayed in the "Requested Permalog History" Page. See *Figure 118*.
 - 3.2. To return to the Sensors Page Permalogs Page, just select the Permalogs Tab.

PermaHOST Application Manual for Version 4.20 with Database Version 4.20 MAN-064-0002-E PermaHOST Summary Screen Dialog Box – Sensors Page

Sensors Page

The Sensors Page is split into two sub-pages:

- 1. Permalogs Page (Page 135)
- 2. Requested Permalog History Page (Page 139)

See Figure 115.

	PermaHOST Sum	mary Scree	n											
C	urrent Status Overvie	w Sensors	Devices.	Administration										
ſ	Permalogs Requested Permalog History													
	Serial Alphabet	Date	Leak	Daus in Leak	Level	Spread	P+ BE Signal	P+ Batteru	Pine Sensitivitu	Location Number	Address 1			
		2010/01/22		4	30	9	r - m olghar	1 · Dattoly	100% Normal	Locatorritamber	Address			
	00000002 (ai)	2010/02/02	ă –	4	11	3	64%	ок	150% Custom	00000015	Palmer			
	00000005 (ai)	2010/02/02	8		10	11	72%	OK	100% Normal	00000014	Palmer Envirc			
	02082454 (a)	2010/01/28	5	1	34	13			100% Normal					
	05099002 (c)	2010/01/21	۱		11	10			100% Normal					
	07090003 (a)	2010/01/19	۱		15	3			100% Normal					
	09090050 (a)	2010/01/21	۲		19	22			100% Normal					
	12990027 (a)		۲						100% Normal					
	12990067 (ai)	2010/02/02	0	2	72	1			100% Normal	00000000	Palmer			
	12991015 (ai)	2010/02/02	<u>@</u>		5	4	64%	OK	100% Normal	00000016	Palmer			
	12991816 (ai)	2010/02/02	×		9	8			150% Custom	00000001	Palmer Envirc			
	12999999 (a)	2010/01/21	0	1	29	8			100% Normal					
	1													
	Records: 12	Search	For:		-		- 20	10/02/02	Search	Back	Export to CSV			
	1				. ,			-						
_														
							OK							

Figure 115: PermaHOST Summary Screen – Sensors Page - Permalogs Page

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 PermaHOST Summary Screen Dialog Box – Sensors Page – Permalogs Page

Sensors Page – Permalogs Page

Figure 115 shows the Permalogs Page within the Sensor Page.

Table 16 explains the individual columns shown in the Permalogs Page within Sensors Page.

The user will be able to sort the column by ascending/descending order by clicking on a column heading.

Note that when the user chooses to use the "Search For" option within this dialog box, the search result will be displayed in this page. Notice from *Figure 115* that the

Search and Back buttons are disabled.

- 1. The Records text box will reflect the total number of records being displayed on the screen.
- 2. Export to CSV will export the displayed list to a CSV formatted file.
 - 2.1. See Figure 116.
- 3. The Search button is enabled when the user selects an item in the "Search For" Combo box.
- 4. The Back button is enabled when an actual search has been performed. When

the Back button is enabled, the Search button is disabled. *Figure 117* shows an example of a search performed for Level > 35. Notice that the Back button is enabled and the Search For: Level > than y 35 y 2010/02/03 y Search Back combo boxes and Search button has been disabled.

- 4.1. Clicking on the Back button will return the user to the display whereby no Summary Screen filter has been applied.
- 5. The "Search For" option will allow the user to search by:
 - 5.1. Serial Alphabet All available serial alphabets in the database will be displayed in the combo list next to the search for combo list.
 - 5.2. Leak
 - 5.3. Days in Leak All available days in leak in the database will be displayed in the combo list next to the "Search For" combo list.
 - 5.4. From Date The user could select a date from the Date Picker on the lefthand side of the Search button.

- 5.5. Level > than Range 0 to 99
- 5.6. Level < than Range 0 to 99
- 5.7. Spread > than Range 0 to 99
- 5.8. Spread < than Range 0 to 99
- 5.9. P+ RF Signal < than Range 0% to 100%
- 5.10. P+ RF Signal > than Range 0% to 100%
- 5.11. Location Number All available Location Numbers in the database will be displayed in the combo list next to the search for combo list.
- 5.12. Address 1 All available Address 1 in the database will be displayed in the combo list next to the "Search For" combo list.
- 5.13. Address 2 All available Address 2 in the database will be displayed in the combo list next to the search for combo list.
- 5.14. Pipe Sensitivity All available Pipe Sensitivity in the database will be displayed in the combo list next to the "Search For" combo list.
- 6. Context Menus: Accessible by right-clicking on a particular Permalog in the list.
 - 6.1. See Summary Screen Devices Administration Page and Sensors Page Context Menu Options (Page 133)

N 1	Microsoft Excel -	SensorPerm	alogPage										
:8]Eile Edit ⊻iew	Insert Fgr	rmat <u>T</u> ools	Data <u>W</u> indov	/ <u>H</u> elp							Type a question for help 📼	_ 8 ×
10	i 📂 🖬 🖪 🔒	3 🖪 🖤	° 🕰 🔏 🛙	🗅 🛍 = 🛷 🛛	9 - (°	- 😣 Σ	- 21 X1 🛍	🛐 💿 📳	Arial	- 10 - B	/ U 📑 🗃 🖬 🛒	% , 🐭 🕮 譯 譯 🛄 - 🖄	- <u>A</u> -
1	🔟 🖄 🗔 🤝 🖄 🛛 🖧 🖓 🖓 🚱 👔 👔 🕐 Reply with Changes Egd Review												
_	A1 • & Serial Alphabet												
	A	В	C	D	E	F	G	Н	1	J	K	L	
1	Serial Alphabet	Date	Leak	Days in Leak	Level	Spread	P+RF Signal	P+ Battery	Pipe Sensitivity	Location Number	Address 1	Address 2	
2	00000000 (a)	22/01/2010	Leak	4	30	9			100% Normal				
3	00000002 (ai)	03/02/2010	Leak	5	11	3	64%	OK	150% Custom	15	Palmer	Cwmbran NP44 3AW	
4	00000005 (ai)	03/02/2010	No Leak		12	8	72%	OK	100% Normal	14	Palmer Environmental Ltd	Ty-Coch House Cwmbran NP44 3A	AWV .
5	02082454 (a)	28/01/2010	Leak	1	34	13			100% Normal				
6	05099002 (c)	21/01/2010	No Leak		11	10			100% Normal				
7	07090003 (a)	19/01/2010	No Leak		15	3			100% Normal				
8	09090050 (a)	21/01/2010	No Leak		19	22			100% Normal				
9	12990027 (a)		No Leak						100% Normal				
10	12990067 (ai)	03/02/2010	Leak	3	72	1			100% Normal	0	Palmer	Leak Site	
11	12991015 (ai)	03/02/2010	No Leak		4	3	66%	OK	100% Normal	16	Palmer	Leak Site	
12	12991816 (ai)	03/02/2010	No Leak		10	9			150% Custom	1	Palmer Environmental Ltd	Ty-Coch House Cwmbran NP44 3A	۹W
13	12999999 (a)	21/01/2010	Leak	1	29	8			100% Normal				
14													
15	A N N Concord			1								1	× ×
11	, Physensorp	ermaiogPagi	e/							IN			
Rea	dy											NUM	

Figure 116: Summary Screen - Sensors - Permalogs - Export to CSV

Serial Alphabet	The Permalog logger Serial number with its unique alphabet identification.									
Date	This date indicates the latest date the particular logger is in leak.									
Leak	Displays the leak image: 🌢 or 🥸									
Days in Leak	The number of Days the logger is in Leak.									
	Note that this information will not be available if the logger is not in leak or, if the database hasn't been updated correctly to work with PermaHOST 4.00 database.									
Level	The latest Leak Report Level value (0 to 99)									
Spread	The latest Leak Report Spread value (0 to 99)									
P+ RF Signal	The latest Leak Report P+ Radio Frequency Signal Strength, displayed as percentage.									
P+ Battery	The latest Leak Report P+ Battery Status: OK or LOW									
Pipe Sensitivity	The sensitivity of the pipe. Range from 50% to 150% sensitivity.									
	If the Pipe Sensitivity is not default 100% sensitivity, the leak status of the logger is calculated by PermaHOST.									
Location Number	The P+ Status information: Location Number									
Address 1	The P+ Status information: Address 1									
Address 2	The P+ Status information: Address 2									

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 PermaHOST Summary Screen Dialog Box – Sensors Page – Permalogs Page



Figure 117: PermaHOST Summary Screen – Sensors Page - Permalogs Page - Search For Level > 35

Sensors Page – Requested Permalog History Page

Figure 118 shows the Requested Permalog History Page within Sensor Page. *Table 17* explains the individual columns shown in the Requested Permalog History Page within the Sensors Page.

Above the history list display is the Permalog Status information stored in the database. See *Figure 118* for clarification. Permalog Status information displayed includes:

- 1. Serial Alphabet of the logger history being displayed.
- Deployed, the date the logger was deployed by the user or first detected by PermaHOST.
- 3. Location Number
- 4. Address 1
- 5. Address 2

- 6. Notes, also known as Additional Information.
- Pipe Sensitivity of the logger, if the value is not default 100%, the leak status is determined by PermaHOST, based on the sensitivity set by the user.

P	ermaHOST Sum	mary Scr	een											
Cu	rrent Status Overviev	W Sensors	Device	s Administral	tion]									
E	Permalogs Request	ted Permalo	g History											
	Serial Alphabet:	12991816	(ai)	Addres	s 1:	Palmer Env	Palmer Environmental Ltd							
	Location Number: 00000001					Linked to P	ouse, Cwmbran, r	NP44 3AW	01 at Palmer Leak Test Site					
	Pipe Sensitivity:	150% Cust	om	Notes.			ennamet SMS Of	103. EUCaleu al EUCalion	ut alt ainici Leak test Jite.					
	Date	Status	Level	Spread	P+I	RF Signal	P+ Battery							
	2010/02/03 2010/02/02 2010/02/01 2010/01/31	* * *	10 9 10 9	9 8 3 10										
	2010/01/30	•	3	2										
	Records: 5	Sea	arch For:			•		2010/02/03 🗸	Search Back Export to	CSV				
							OK]						

Figure 118: Summary Screen – Sensors Page - Requested Permalog History Page

The user will be able to sort the column by ascending/descending order by clicking on a column heading.

Note that when the user chooses to use the "Search For" option within this dialog box, the search result will be displayed in this page. Notice from *Figure 118* that the

Back button is disabled.

- 1. The Records textbox will reflect the total number of records being displayed on the screen.
- 2. The Export to CSV button will export the displayed list to a CSV formatted file.
 - 2.1. The CSV file could be saved using the default file name provided by PermaHOST xxxxxxx (x)-permalog-hist.csv
 - 2.2. See Figure 119.
- Back button is enabled when an actual search has been performed. When 3. The Back Search button is disabled. *Figure 120* shows the button is enabled, the Back an example of a search performed for Leak. Notice that the button is enabled and the Search For: Leak -2010/02/03 Search Back combo boxes and button have been disabled.
 - 3.1. Clicking on the Back button will return the user to the display whereby no Summary Screen filter has been applied.
- 4. The "Search For" Option will allow the user to search by:
 - 4.1. Leak
 - 4.2. Level < than Range 0 to 99
 - 4.3. Level > than Range 0 to 99
 - 4.4. Spread < than Range 0 to 99
 - 4.5. Spread > than Range 0 to 99
 - 4.6. P+ RF Signal < than Range 0% to 100%
 - 4.7. P+ RF Signal > than Range 0% to 100%
 - 4.8. P+ Battery All available choices in the database will be displayed in the combo list next to the "Search For" combo list. This will only display either "OK" or "LOW".
 - 4.9. Greater than Date The user could select a date from the Date Picker on the left-hand side of the Search button.
 - 4.10. Older than Date The user can select a date from the Date Picker on the left-hand side of the Search button.

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 Table 17: Columns for PermaHOST Summary Screen – Sensors Page – Requested Permalog

 History Page

Date	The date the particular permalog history was logged.						
Status	Displays the leak image (For Normal Pipe Sensitivity): 🌢 or 🚳						
	Displays the leak image (For Custom Pipe Sensitivity): 🌢 or 💢						
Level	The latest Leak Report Level value (0 to 99)						
Spread	The latest Leak Report Spread value (0 to 99)						
P+ RF Signal	The latest Leak Report P+ Radio Frequency Signal Strength, displayed as percentage.						

P+ Battery The latest Leak Report P+ Battery Status: OK or LOW

🛛 Microsoft Excel - 12991015 (ai)-permalog-hist										
:8	<u>File E</u> dit <u>V</u> iew	Insert Format <u>T</u> ools <u>D</u> ata <u>W</u> indow <u>H</u> elp			Type a questi	on for help 🛛 👻	_ 8 ×			
	💕 🛃 Σ 🔹 🔯] 🝟 Arial 🔹 10 ▾ B I U 📰 🗄		🥶 % ,	*.0 .00 *	= 🖂 + 🖄 +	<u>A</u>			
	1 21 21 21 75 8	🛛 🛛 🐱 🛛 🛃 🔂 I 🕅 Reply with Changes End Review	v							
	A1 🔻	∱ Serial Alphabet								
	А	В	С	D	E	F				
1	Serial Alphabet	12991015 (ai)								
2	Deployed .	19/01/2010								
3	Pipe Sensitivity	100% Normal								
4	Location Number	16								
5	Address 1	Palmer								
6	Address 2	Leak Site								
7	Notes	Linked to PermaNet SMS 0101. Located in location 16.					=			
8										
9							2			
10	Date	Status	Level	Spread	P+RF Signal	P+ Battery				
11	03/02/2010	No Leak	4	3	66%	OK				
12	02/02/2010	No Leak	5	4	64%	OK				
13	01/02/2010	No Leak	4	3	64%	OK				
14	31/01/2010	No Leak	4	9	65%	OK				
15	30/01/2010	No Leak	5	8	67%	OK				
16							~			
H -	► ► 12991015	(ai)-permalog-hist /	<		1111		>			
Rea	dy					NUM				

Figure 119: Summary Screen - Sensors - Requested Permalog History - Export to CSV

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PermaHOST Sun	imary Screen	1					×	
Current Status Overvie	w Sensors D	evices Administr	ation				1	
Permalogs Reque	sted Permalog Hi	istory						
Serial Alphabet:	12991816 (ai)	Addre	ess 1: PalmerEn	vironmental Ltd				
Deployed	Deployed 2010/01/19 Address 2:		ess 2: Ty-Coch H	Ty-Coch House, Cwmbran, NP44 3AW				
Location Number	umber: 00000001 Note		: Linked to	Linked to PermaNet SMS 0103. Located at Location 01 at Palmer Leak Test Site.			Site.	
Pipe Sensitivity:	150% Custom							
Date	Status Le	evel Spread	P+RF Signal	P+ Battery				
2010/02/01 2010/01/30	 10 9) 3 2						
Records: 2	Search	For: Leak	V	<u>_</u>	r 2010/02/03 💌	Search Back	Export to CSV	
				ОК				

Figure 120: PermaHOST Summary Screen – Sensors Page - Requested Permalog History Page -Search For Leak

Devices Administration Page

The Devices Administration Page is split into five sub-pages:

- 1. Total Permalogs Page (Page 144)
- 2. Registered Permalogs Page (Page 146)
- 3. Unregistered Permalogs Page (Page 147)
- 4. Search Result Page (Page 148)
- 5. Requested Permalog History Page (Page 149)

See Figure 121:

PermaHOST Summary Screen											
Current Status Diverview Sensors Devices Administration											
Total Permalogs Registered Permalogs Unregistered/New Permalogs Search Result Requested Permalog History											
	Serial Alphabet	Last Message	Deployed	Pipe Sensitivity	Location Number	Address	Address 2				
	00000000 (a) 00000002 (ai) 00000005 (ai)	2010/01/22 2010/02/03 2010/02/03	2010/01/22 2010/01/19 2010/01/19	100% Normal 150% Custom 100% Normal	00000015	Palmer Palmer Environmental I td	Cwmbran, NP44 3AW TwCook House, Cwmbran				
	02082454 (a)	2010/02/03	2010/01/27	100% Normal	0000014	Fainei Envionmentai Lu	ry-coch House, cwinbian,				
	05099002 (c) 07090003 (a)	2010/01/21	2010/01/22	100% Normal 100% Normal							
	09090050 (a)	2010/01/21	2010/01/25	100% Normal							
	12990027 (a) 12990067 (ai)	2010/02/03	2010/01/20 2010/01/19	100% Normal 100% Normal	0000000	Palmer	Leak Site				
	12991015 (ai)	2010/02/03	2010/01/19	100% Normal	00000016	Palmer	Leak Site				
	12991816 (ai) 12999999 (a)	2010/02/03 2010/01/21	2010/01/19 2010/01/27	150% Custom 100% Normal	00000001	Palmer Environmental Ltd	Ty-Coch House, Cwmbran,				
	<						>				
	Records: 12	Searc	h For			✓ Search	Export to CSV				
	1.2										

Figure 121: PermaHOST Summary Screen – Devices Administration Page - Total Permalogs Page

Devices Administration Page – Total Permalogs Page

Figure 121 shows the Total Permalogs Page within the Devices Administration Page. *Table 18* explains the individual columns shown in the Total Permalogs Page within the Devices Administration Page.

The user will be able to sort the column by ascending/descending order by clicking on a column heading.

Note that when the user chooses to use the "Search For" option within this dialog box, the search result will be displayed in "Search Result" page.

- 1. The Recordstextbox will reflect the total number of records being displayed on the screen.
- 2. The Export to CSV button will export the displayed list to a CSV formatted file.
 - 2.1. See Figure 122.
- 3. The "Search For" Option will allow the user to search by:
 - 3.1. Serial Alphabet All available active serial alphabets in the database will be displayed in the combo list next to the "Search For"search for combo list.
 - 3.2. Last Msg Date The user can select from the search combo box the list of available last message dates.
 - 3.3. Location Number All available Location Numbers in the database will be displayed in the combo list next to the "Search For" combo list.
 - 3.4. Address 1 All available Address 1 in the database will be displayed in the combo list next to the "Search For" combo list.
 - 3.5. Address 2 All available Address 2 in the database will be displayed in the combo list next to the "Search For" combo list.
 - 3.6. Pipe Sensitivity All available Pipe Sensitivity in the database will be displayed in the combo list next to the "Search For" combo list.
- 4. Context Menus: Accessible by right-clicking on a particular Permalog in the list.
 - 4.1. See Summary Screen Devices Administration Page and Sensors Page Context Menu Options (Page 133)
Table 18: Columns for PermaHOST Summary Screen – Devices Administration Page –

 Total/Registered/Unregistered Permalogs Page (Also include Search Result Page)

Serial Alphabet	The Permalog logger Serial number with its unique alphabet identification.					
Last Message	This indicates the date the Permalog last received a GNET message.					
Deployed	This indicates the date the Permalog was first entered into the database.					
Pipe Sensitivity	The sensitivity of the pipe, ranging from 50% to 150% sensitivity.					
	If the Pipe Sensitivity is not default 100% sensitivity, the leak status of the logger is calculated by PermaHOST.					
Location Number	The P+ Status information: Location Number					
Address 1	The P+ Status information: Address 1					
Address 2	The P+ Status information: Address 2					
Notes	The P+ Status information: Additional information					

8	🖬 Microsoft Excel - DevicAdminTotalPermalogs.csv									
18	🔄 🐏 🐀 🗔 🔂 🖄 🗇 🖏 🔒 🖤 Regly with Changes End Review									
: 80	🕘 Elle Edit View Insert Format Tools Data Window Help 🔹 🗗 🗙									
							Arial	•10 • B Z U 三 三 三 国 🦉 % • 🕼 🕮 準 律 🖽 • 🖄 • 🚣 • 💂		
	□ 🗃 🖬 🕃 🗇 🔄 🖏 ≯ 🖎 🕸 • ダ ୭ • ୯ → 🧕 Σ • ຢ 梨 🏨 🤴 100% 🔹 @ 🍃									
	A1 🔹 🔊 Serial Alphabet									
	A		В	Ċ	D	E	F	G	-	
1	Serial Alp	habet	Last Messa	Deployed	Location Number	Address 1	Address 2	Notes		
2	01091688	(a)	27/05/2009	28/05/2009				01091688 (a) Notes test for refresh		
3	01099998	(b)	19/05/2009	19/05/2009				PermaHOST Testing 123		
4	02042009	(b)	19/05/2009	19/05/2009	2009			PermaHOST		
5	02082454	(b)	19/05/2009	19/05/2009	2454			02082454 logger notes		
6	06080608	(a)	11/03/2009	09/03/2009				PermaHOST	_	
7	07071395	(a)	11/03/2009	11/03/2009	12345678	Address1	Address2	PermaHOST Testing		
8	09071947	(a)	19/05/2009	19/05/2009				PermaHOST	_	
9	10071151	(b)	19/05/2009	19/05/2009	1151			PermaHOST	8	
10	11071533	(b)	19/05/2009	19/05/2009	1533	Palmer	Environmental	PermaHOST		
11	12085026	(b)	19/05/2009	19/05/2009	5026			PermaHOST		
12	12981111	(b)	19/05/2009	19/05/2009	1111			PermaHOST		
13	12991016	(b)	19/05/2009	19/05/2009	12345678	Address1	Address2	PermaHOST		
14	12991017	(b)	11/12/2008	02/09/2008				SMS Repeater PSR ECU Number is 0048Changed SMS Repeater host PC number to Spanish SI	Mica	
15	12991020	(b)	19/05/2009	19/05/2009			-	PermaHOST		
16	12991175	(b)	27/10/2008	02/09/2008		-		SMS Repeater PSR ECU Number is 5011. Not responsed since 2/ October 2006. Taken off leak si	ite o	
17	12991216	(a)	03/03/2009	21/05/2009	1216	Palmer	Environmental	Palmer Envrionmental Notes	-	
18	12991236	(a)	11/12/2008	25/09/2008	12345678			This logger is linked with SMS Repeater 0047Changed Host PC number to SIM number +34690111	842:	
19	12991239	(b)	19/05/2009	19/05/2009	1239			PermaHOST	-	
20	12991240	(b)	19/06/2009	19/05/2009	1240			PermaHUSI	-	
21	12991816	(b)	19/10/2008	02/09/2008				SMS Repeater PSR ECU number is 5031	~	
H I	+ H D	evicAdi	minTotalPer	nalogs /					>	

Figure 122: Summary Screen – Devices Administration – Total Permalogs - Export to CSV

Page

Devices Administration Page – Registered Permalogs Page

Figure 123 shows the Registered Permalogs Page within the Devices Administration page.

Table 18 explains the individual columns shown in the Registered Permalogs Page within Devices Administration Page.

All functionality in this page is the same as those described in *Devices Administration Page – Total Permalogs Page*.

Note that in the PermaHOST Summary Screen, a Permalog is considered registered if

one of the following columns is not empty:

- 1. Location Number
- 2. Address 1
- 3. Address 2

	PermaHOST Sum	nary Screen						X
0	Current Status Overview	V Sensors Dev	ices Administration	1				
	Total Permalogs Re	gistered Permalog	Unregistered/I	New Permalogs Sea	rch Result Reques	ted Permalog History		
	Serial Alphabet	Last Message	Deployed	Pipe Sensitivity	Location Number	Address 1	Address 2	
	00000002 (ai) 00000005 (ai) 12990067 (ai) 12991015 (ai)	2010/02/03 2010/02/03 2010/02/03 2010/02/03	2010/01/19 2010/01/19 2010/01/19 2010/01/19	150% Custom 100% Normal 100% Normal 100% Normal	00000015 00000014 00000000 000000015	Palmer Palmer Environmental Ltd Palmer Palmer	Cwmbran, NP44 3AW Ty-Coch House, Cwmbran, Leak Site Loak Site	
	12991816 (ai)	2010/02/03	2010/01/19	150% Custom	00000001	Palmer Environmental Ltd	Ty-Coch House, Cwmbran,	
	<						>	
	Records: 5	Se	arch For:	•		✓ Search	Export to CSV	
					OK			

Figure 123: PermaHOST Summary Screen – Devices Administration Page - Registered Permalogs Page

Permalogs Page

Devices Administration Page – Unregistered/New Permalogs Page

Figure 124 shows the Unregistered/New Permalogs Page within the Devices Administration Page.

Table 18 explains the individual columns shown in the Unregistered/New Permalogs Page within the Devices Administration Page.

All functionality in this page is the same as those described in *Devices Administration Page – Total Permalogs Page*.

Note that in the PermaHOST Summary Screen, a Permalog is considered unregistered/new if <u>all</u> of the following columns are empty:

- 1. Location Number
- 2. Address 1
- 3. Address 2

PermaHOST Summa	ary Screen							
Current Status Overview	Sensors Devic	ces Administration						
Total Permalogs Regis	stered Permalogs	Unregistered/N	New Permalogs Sea	rch Result Request	ed Permalog His	tory		
Serial Alphabet	Last Message	Deployed	Dina Sanaitivitu	Location Number	Address 1		Address 2	-
00000000 (a) 02082454 (a) 05093002 (c) 07090003 (a) 09090050 (a) 12990027 (a) 12999999 (a)	2010/01/22 2010/01/28 2010/01/21 2010/01/21 2010/01/21 2010/01/21 2010/01/21	2010/01/22 2010/01/27 2010/01/27 2010/01/20 2010/01/25 2010/01/25 2010/01/27	100% Normal 100% Normal 100% Normal 100% Normal 100% Normal 100% Normal 100% Normal				1.150.000	-
Records: 7	Searc	h For:		OK	.	Search	Export to CSV	

Figure 124: PermaHOST Summary Screen – Devices Administration Page - Unregistered/New Permalogs Page

Devices Administration Page – Search Result Page

Figure 125 shows the Search Result Page within the Devices Administration Page. *Table 18* explains the individual columns shown in the Search Result Page within the Devices Administration Page.

All functionality in this page is almost the same as those described in *Devices* Administration Page – Total Permalogs Page, with the exception of "Search For" and the

Back button.

The "Search For" function is replaced with "Search Result for". The option the user chooses to search by in the previous page will be shown on this page. For example, in *Figure 125* in the Total Permalogs Page, the user has chosen to search for Pipe Sensitivity at 150% Custom Pipe Type.

The Back button will return to user to the page before the search result was called.

	🖥 PermaHOST Summary Screen 🛛 🔀								
Cu	urrent Status Overview	Sensors Devi	ces Administratior	1					
1	Total Permalogs Rej	gistered Permalogs	Unregistered/N	New Permalogs Se	arch Result Reques	sted Permalog History			
	Serial Alphabet	Last Message	Deployed	Pipe Sensitivity	Location Number	Address 1	Address 2		
	00000002 (ai) 12991816 (ai)	2010/02/03 2010/02/03	2010/01/19 2010/01/19	150% Custom 150% Custom	00000015 00000001	Palmer Palmer Environmental Ltd	Cwmbran, NP44 3AW I Ty-Coch House, Cwmbran, I		
	2						3		
	Records: 2	Search R	esult for: Pipe S	Gensitivity 150	% Custom		Refresh Back		
					ОК				

Figure 125: PermaHOST Summary Screen – Devices Administration Page - Search Result Page

Devices Administration Page – Requested Permalog History Page

Figure 126 shows the Requested Permalog History Page within the Devices Administration Page. The functionality of this page is the same as in *Sensors Page – Requested Permalog History Page*, and hence will not be elaborated further.

P	ermaHOST Sum	mary Scr	een							X
Cur	rent Status Overvie	w Sensors	Device	s Administrat	ion					
T	otal Permalogs Re	egistered Pe	rmalogs	Unregistere	d/New Pe	rmalogs	Search Result	Requested Permalog I	History	
	Serial Alphabet:	12991816	(ai)	 Addres	s 1: Palr	ner Env	rironmental Ltd			
	Deployed	, 2010/01/1	9	Addres	s 2: Ty-0	Coch H	ouse, Cwmbran, N	NP44 3AW		
	Location Number:	00000001		Notes:	Link	ed to P	ermaNet SMS 01	03. Located at Location	01 at Palmer Leak Test Site.	
	Pipe Sensitivity:	150% Cust	om							
	Date	Status	Level	Spread	P+RFS	ignal	P+ Battery			
	2010/02/03 2010/02/02 2010/02/01 2010/01/31 2010/01/30	×× *	10 9 10 9 9	9 8 3 10 2						
	Records: 5	Sea	arch For: 🛛			•	•	2010/02/03 🖵	Search Back Export to CSV	
							ОК			

Figure 126: PermaHOST Summary Screen – Devices Administration Page - Requested Permalog History Page

ä	Setup	PermaNet	SMS	Dialog	Explained
---	-------	----------	-----	--------	-----------

Setup PermaNet SMS	\mathbf{X}
Permalog Loggers Linked Update PermaNet SMS Information. Location ID (Area/Region): Address 1: Address 2: Notes: Notes:	
Delete PermaNet SMS Information Confirm PermaNet SMS Information Update	
Update PermaNet SMS Configuration for Permalog Loggers Linked Current/Pending Setup Display Selection PermaNet SMS Serial Number: Delete PermaNet SMS Settings PermaNet SMS ECU Number: PermaNet SMS Type (Required to know how to handle GNET messages) Open Configuration File Save Configuration File	
NOTE: Please Enter PermaNet SMS Telephone Number in the correct format that you would receive your PermaNet SMS Configuration via SMS (with/without Country Code, depending on network and country)	
Patrol Start Time (Hour): 00 Patrol Start Patrol Start Time (Hour): 00 Patrol Start Patrol St	
Data Report Settings Report Staggering Data Report Day of Week If Serial number is 12345678. Significance digit to use is 1 and Time offset is 10. SUN MON TUES WED THURS FRI SAT Data Report Time 11 Data Report Time (Minute): 00 Significant digits of PermaNet (in seconds: (in seconds): WHO WITH STATE Data Report Time (Minute): 00 Time offset (in seconds): 0	
Change PermaNet SMS Configuration (Update to Current Database Only) Change PermaNet SMS Configuration (Update to Pending Database_Send SMS) OK Cancel	~

Figure 127: Setup PermaNet SMS Screen

List Box "Permalog Loggers Linked"

Displays all Permalog loggers Serial Number, linked to the same PermaNet SMS: Note: To link a Permalog+ logger to a PermaNet SMS, the user must either:

- Enter the PermaNet SMS Telephone number when Adding a New Logger, or
- Go to Modify Logger Details to add a PermaNet SMS Telephone number

If at least one Permalog logger is listed, the user could double-click the logger to modify its status directly.

If there is more than one Permalog logger listed, selecting a different logger in the list will reflect its unique PermaNet SMS Information on the screen. (Note: This information is different to that of the logger status).

Group "Update PermaNet SMS Information"

This option is only enabled for editing (read-only otherwise) when the user rightclicks a Permalog+ Logger in Location Pane->Setup PermaNet SMS.

Note: The user must at least link the Permalog+ logger to a PermaNet SMS before proceeding. To do so, the user must either:

- Enter the PermaNet SMS Telephone number when Adding a New Logger, or
- Go to Modify Logger Details to add a PermaNet SMS Telephone number
- Or if using PermaHOST Version 3.80 and above, wait for the PermaNet SMS Configurations to be *automatically filled in on the second report day*. Version 3.80 will auto-fill the PermaNet SIM and Serial number into the logger details automatically upon a GNET message being received.

Everything within this group (Update PermaNet SMS Information) is unique to the specified Permalog+ logger.

- 1. Address 1
- 2. Address 2
- 3. Note

To save the unique PermaNet SMS Details for a specified Permalog+ Logger, the user must click the Confirm PermaNet SMS Information Update button.

To delete the unique PermaNet SMS Details for a specified Permalog+ Logger, the user must click the Delete PermaNet SMS Information button.

Group "Permalog Loggers Linked"

Everything within this group is common to all Permalog loggers linked to the same PermaNet SMS.

Note: From application release Version 3.40 onwards, it is not necessary for a PermaNet SMS to be linked to a Permalog+. A PermaNet SMS can now exist without being linked to any Permalog+ logger.

Note: From application release Version 3.80 onwards, it is no longer necessary for the user to manually link the PermaNet SMS to the Permalog. PermaHOST is now capable of filling in this information automatically if the information is available to PermaHOST.

Group "Current/Pending Setup Display selection"

The default selected option is always "Current PermaNet SMS Settings".

```
Current/Pending Setup Display Selection

• Current PermaNet SMS Settings • Pending PermaNet SMS Settings
```



If "Pending PermaNet SMS Settings" is available, the option will be enabled, and the user will be able to view the Pending PermaNet SMS Settings.

The user can delete either the Current or Pending configuration by clicking the Delete PermaNet SMS Settings button.

If deleting the Current PermaNet SMS Settings, the selected PermaNet SMS Configuration settings will be removed permanently.

If deleting the Pending PermaNet Settings, the selected PermaNet SMS Pending Configuration settings will be removed permanently.

Group "PermaNet SMS Type (Required to know how to handle GNET messages)"



The default selected radio button is "PALMER" for a new Setup. This is changeable by the user, or by the Application itself, depending on the type of PermaNet SMS Configuration message received. It is crucial that if the user is to configure this value, that they know the version number of their PermaNet SMS. For PermaNet SMS Version below "Ver 01.00.03.00" or Radio-Tech Concentrator, the contents of the GNET message will not be extracted fully.

If the PermaNet SMS has not been added to the PermaNet SMS table, the GNET message will not be extracted fully.

Note: From Version 3.80 onwards, if the PermaNet SMS has not been added to the PermaNET SMS table, PermaHOST will auto-send a GET CONFIG message upon receiving the GNET message. On the next report day, the PermaNet SMS Configuration response sms will populate the database automatically. If the PermaNet SMS has firmware version from Ver 01.00.03.00, it will be assigned "PALMER", in which case the full GNET message content will be extracted.

Also to note, the GET CONFIG message will only be sent once automatically by PermaHOST, this is to prevent SMS wastage if more than one logger is linked to the same PermaNet SMS.

Group "Report Staggering"

- Report Staggering	
If Serial number is 12345678. Significance digit to Report Staggering = 8 x 10 = 80 seconds. Actual Data Report Time = Staggered + Data Rep	use is 1 and Time offset is 10. ort Time.
Significant digits of PermaNet 0	Time offset (in seconds):

From PermaHOST version 3.80 onwards, report staggering is a configuration that the user could set for a PermaNet SMS. This code will work with PermaNet SMS firmware version from 01.00.03.01 onwards.

This feature is used to delay the Data Report time by xxx seconds defined by the user.

Please see the image above for report staggering time calculations.

Open Configuration File

The Open Configuration File button allows the user to open an ".ini"

configuration file to fill in:

- 1. Host PC Telephone Number (NUM1)
- 2. NUM2
- 3. Patrol Days
- 4. Data Report Days
- 5. Patrol Start Time
- 6. Patrol Duration
- 7. Data Report Time
- 8. Report Staggering. Significant digits of PermaNet SMS Serial Number to use
- 9. Report Staggering. Time Offset
- 10. File Pathname

Save Configuration File

The Save Configuration File button allows the user to save the configuration detailed above to an ".ini" file.

Note: All fields could be empty and the user could save an empty ".ini" file.

Change PermaNet SMS Configuration (Update to Current Database Only)

Change PermaNet SMS Configuration (Update to Current Database Only)

If the check box is checked and the user clicks "OK", the Configuration Details will be updated to the Current database. The user will use this option if the PermaNet SMS has already been setup and the user only wanted to manually update the database with the known PermaNet SMS Configurations.

Note: The user could overwrite the Current or Pending database without using the "Delete SMS Settings". To do so, the user should check one of the checkboxes, either "Change PermaNet SMS Configuration (Update to Current Database Only)" or "Change PermaNet SMS Configuration (Update to Pending database Send SMS)".

It is strongly recommended that the user uses the *Data Pane->Send SMS to get PermaNet SMS Configuration* option instead of manual entry.

Change PermaNet SMS Configuration (Update to Pending Database Send SMS)

Change PermaNet SMS Configuration (Update to Pending Database Send SMS)

If the check box is checked and the user clicks "OK", the Configuration Details will be updated to the Pending Database and a configuration test message will be sent out to the PermaNet SMS.

Note: The user could overwrite the Current or Pending database without using the "Delete SMS Settings". The required element to do so is to tick the check boxes.

When a response is received from the PermaNet SMS, the following procedure will be performed.

- The content of the Pending database will be compared with the received PermaNet SMS configuration message.
 - 1.1. If matched, the configuration will be copied into the Current Database.
 - 1.2. The content of the Pending Database will be deleted.
- 2. If the content of the Pending Database does not match the received SMS configuration text.
 - 2.1. The configuration will be copied to the Current Database.
 - 2.2. The Unmatched Pending Configuration for the particular PermaNet SMS will be resent. Note the Application will attempt to resend up to 3 times, thereafter the user will be informed with a pop up box that the pending configuration has not been matched after 3 attempts and sending will not be reattempted.

- 2.3. The Pending database remains until it is:
 - 2.3.1. Overwritten
 - 2.3.2. Deleted manually by user
 - 2.3.3. Deleted when a matching configuration response has been received.

ΟΚ

If the user clicks the **OK** button without checking either "Change PermaNet SMS Configuration (Update to Current Database Only)" or "Change PermaNet SMS Configuration (Update to Pending Database Send SMS)", the dialog box will close without performing the update to current or pending database. No configuration message will be sent out to the PermaNet SMS.

Cancel

If the user clicks the **Cancel** button, the dialog box will close without performing update configuration information to either pending or current database, even if the checkboxes are checked.

NOTE: The minimum requirement to assign a PermaNet SMS to a Permalog Logger is to enter the "PermaNet SMS Telephone Number".

To assign a Permalog+ to a PermaNet SMS, go to: Location Pane->Modify Logger Details

The user should enter the PermaNet SMS Telephone number in the correct format, with or without county code; this depends on individual network in each country.

Note: With PermaHOST Version 3.80 onwards, it is no longer necessary for the user to manually assign a Permalog to a PermaNet SMS.



Authorisation Code

The Authorisation Code is currently unchangeable.

Authorisation Code: 190020373



Contact

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Note

HWM-Water Ltd reserves the right to change products, services or specifications without notice.

Patents

The Permalog® system is patented in the United Kingdom: GB2335041, GB2361062, GB2361319, GB2361540 & GB2361541 Patents pending in Europe, United States and Japan. Permalog® is a Registered Trademark of Palmer Environmental.