

Function Description

Activity Logging in Unite

Contents

1 Introduction	1
1.1 Abbreviations and Glossary.....	1
2 Technical Solution	2
2.1 Storage Filter.....	3
2.2 Printing Log Information (ESS only)	3
2.2.1 Printing to Locally Connected Printer	3
2.2.2 Log Printing Examples – Standard Printing Mode.....	4
2.3 View Activity Logs.....	8
2.4 Activity Tracing for Troubleshooting	9
2.5 Export Activity Log Data	10
2.6 Print Activity Log View	10
2.7 Users.....	10
3 System Examples	11
3.1 Example 1 – Paging.....	11
3.2 Example 2 – Paging with Manual Acknowledge	12
3.2.1 Extended Activity Log.....	13
3.3 Example 3 – Alarm Generates Message with Acknowledge.....	14
3.4 Example 4 – To use Trace Logging for Troubleshooting.....	16
3.4.1 Successfully Received Messages	17
3.4.2 Message not Delivered.....	18
4 Related Documents	19
5 Document History	20
Appendix A: Export Data CSV	21
Appendix B: Export Data XML	22
Appendix C: Export Data Print (ESS only)	26
Appendix D: Status Codes	27
Appendix E: Exported Data.....	28
E.1 CSV Fields.....	28
E.2 XML Fields.....	28
E.3 Activity Specific Fields	30
E.3.1 Message	30
E.3.2 Message with Confirmation Request.....	30
E.3.3 Message Confirmation Response.....	30
E.3.4 Interactive Message.....	31
E.3.5 Interactive Message Response	31
E.3.6 Alarm	32
E.3.7 Presentation.....	33
E.3.8 Presentation Response.....	33
E.3.9 Erase Message	33

E.3.10 Alarm Acknowledge	34
E.3.11 Alarm System 900.....	34
E.3.12 Call Setup.....	34
E.3.13 Call Setup Response.....	35
E.3.14 Status Log	36
E.3.15 User Data.....	38
E.3.16 User Data System 900.....	38
E.3.17 Input Activity	38
E.3.18 Output Activity	38
E.3.19 Output Activity Response	39
E.3.20 Location Data	39
E.3.21 Location Request.....	39
E.3.22 Location Response	39
E.3.23 Availability Status.....	39
E.3.24 Availability Request	40
E.3.25 Availability Response.....	40
E.3.26 Device Property Request.....	40
E.3.27 Device Property Response	40
E.3.28 Remote Access.....	41
E.3.29 System Supervision	41
E.3.30 Customized Log	41
E.3.31 Lost Activity Log	41

1 Introduction

With the Activity Logging in the Enhanced System Service (ESS) or the Unite Connectivity Manager (Unite CM), it is possible to receive activity logs from different Unite modules via the LAN. All activity logs are stored in the ESS/Unite CM and can be used for future analysis, such as audit trails and statistics. It is also possible to trace the way a message is transmitted through the Unite system.

The term “activity” refers to all kinds of messages and events passing through Unite. Examples of activities are messages, alarms, faults, input/output activities, and message responses.

Activity logging is useful for troubleshooting. By viewing related activities it is easy to see, for example, if a paging was sent after an alarm as intended.

With the Activity Log function it is possible to

- view incoming activity logs to see that the system is working properly and search for specific activity logs
- filter incoming activity logs for more efficient use of the database
- print the search result of the logs
- trace an activity through the entire system.

1.1 Abbreviations and Glossary

AMS	Alarm Management Server: Unite module that enables advanced event handling.
CSV	Comma Separated Values: Commonly used format to transfer data from one table-oriented application to another, for example relational database applications.
DECT	Digital Enhanced Cordless Telecommunications: A global standard for cordless telephony.
ESS	Enhanced System Service: Unite module that supports advanced message routing, group handling, system supervision, fault handling and logging, and activity logging.
FTP	File Transfer Protocol: A protocol to transfer and copy files over the Internet.
GUI	Graphical User Interface: The interface between a user and a computer application.
IMS2	Integrated Wireless Messaging and Services: Unite module that enables wireless services to and from portable devices and chargers. It also includes the Device Manager.
RMC	Remote Management Client: PC tool that enables remote access to the Unite system.
SMTP	Simple Mail Transfer Protocol: global IP protocol used when sending and receiving e-mail.
Unite	Name of the Ascom IP-based system for handling, events, message and alarms.
Unite CM	Unite Connectivity Manager: Unite module that enables messaging and alarm handling in a system. It also includes the Device Manager.
VoWiFi	Voice over Wireless Fidelity: wireless version of VoIP that refers to IEEE 802.11a, 802.11b, 802.11g, or 802.11n network.

2 Technical Solution

For activity logging in Unite, an Enhanced System Service (ESS) module or a Unite Connectivity Manager (Unite CM) is required.

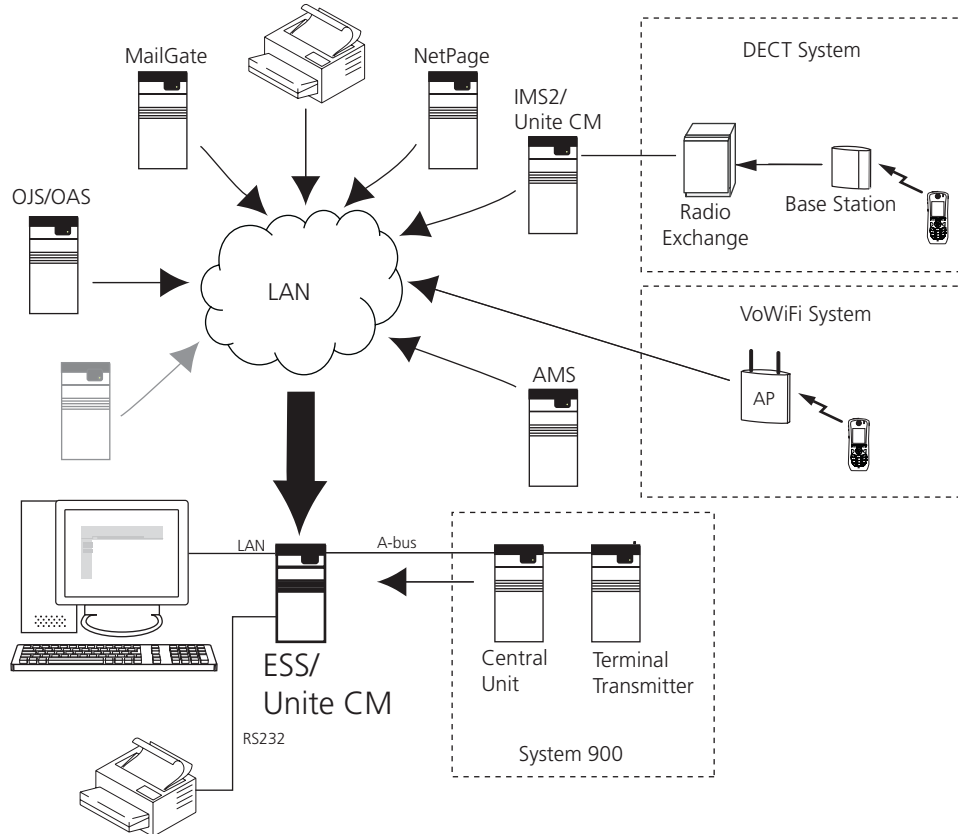


Figure 1. ESS/Unite CM receives activity log messages from the Unite System.

The ESS/Unite CM receives activity logs from different Unite modules via the LAN. Each module is configured to send activity logs to one or several ESS/Unite CM. When a message is sent, the last module in the chain will send an activity log to the ESS/Unite CM which will store the log in the built-in database, see [figure 2](#).

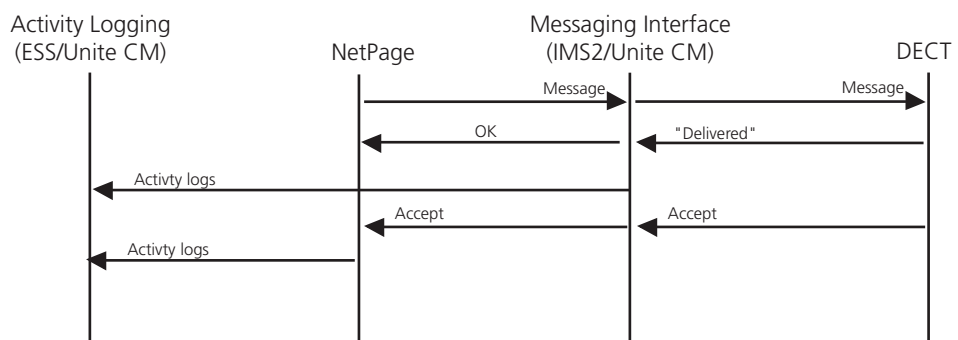


Figure 2. A message is sent from Netpage, the ESS/Unite CM receives an activity log from the IMS2/Unite CM.

Faults are one type of activity that is logged. For information about the fault logs, see Function Description, System Supervision and Fault Handling in Unite, TD 92252GB.

Not Supported

- teleCARE M (does currently not support logging)

All traffic that is not going via Unite;

- System 900
- Telephony

2.1 Storage Filter

To use the database more efficiently, a filter criteria defining which activity that is to be stored can be configured. There are two levels of filter settings, a basic filter setting and an advanced filter setting.

Basic filter Setting

Certain activities can be filtered by priority. Examples of such activities are Messaging and Interactive Messaging, see [Appendix E: Exported Data](#) on page 28. for details. Only activities with a chosen priority will be stored. The message priorities are:

- low
- normal
- high
- alarm

For example, if only activities with priority high and alarm, select these priorities. In this case, activities with priority low and normal will not be stored.

Note: Activities without priority will not be filtered, they will always be stored. Examples of such activities are; user data and alarm from Portable Devices.

Advanced filter Setting

In addition, filtering is possible for all kinds of activities based on:

- IP address/Service
- Type of activity (message, alarm etc.)
- Administrative events (for example information about who remotely logged into the system from an RMC, and when System Survey supervision was changed).

2.2 Printing Log Information (ESS only)

Log information can be printed continuously to a serial line printer connected locally to the ESS. It is also possible to print log information to a network connected printer from the Activity Log Viewer in the ESS GUI.

2.2.1 Printing to Locally Connected Printer

There are different settings that can be made to prevent certain logs from being printed to the locally connected printer:

- Print messages with specified priorities only
- Print activities from/to specified services (IP address/Service) only or do not print activities from/to specified services.
- Select which activities to print and discard the others

- Select not to print administration events

There are two different printing modes, a standard printing mode and an extended printing mode. Depending on printing mode selection there is different data content sent to the printer handler application.

Standard Printing Mode

In this mode, there is one line of content for each activity, with seven columns: Date, Time, Origin, Destination (final), Status, Activity Type, and Information.

Extended Printing Mode

In this mode, there are two lines of content for each activity.

Line 1 contains Date, Time, Origin, Destination (first), Destination (final), Status, Activity Type, and Priority.

Line 2 contains Log ID, Message Reference and Information.

Details on how to connect the printer to the system and how to set up printing are described in Installation and Operation Manual, Enhanced System Services, ESS. See [4 Related Documents](#) on page 19.

2.2.2 Log Printing Examples – Standard Printing Mode

Example 1

```
2007-01-12 16:58:16 NP-163 6180 OK Msg Test Message
```

- The activity occurred January 12, 2007
- The time it occurred was 16:58:16
- It originated in a module with the hostname NP-163
- The destination was a portable with the number 6180
- The message was successfully delivered
- The activity was a message
- The message title was "Test Message"

Example2

```
2000-01-12 16:58:31 NP-163 6180 Not reachable Msg Test Message
```

- The activity occurred January 12, 2007
- The time it occurred was 16:58:31
- It originated in a module with the hostname NP-163
- The destination was a portable with the number 6180
- The message could not be delivered because the destination was not reachable
- The activity was a message
- The message subject was "Test Message"

Example 3

```
2007-01-12 16:58:40 NP-163 6180 OK Msg_Conf Test Message
```

- The activity occurred January 12, 2007

- The time it occurred was 16:58:40
- It originated in a module with the hostname NP-163
- The destination was a portable with the number 6180
- The message was successfully delivered
- The activity was a message with confirmation request
- The message subject was "Test Message"

Example 4

2007-01-15 15:12:09 6180 NP-163 OK Msg_Resp Accepted

- The activity occurred January 15, 2007
- The time it occurred was 15:12:09
- It originated in a portable with the number 6180
- The destination was a device with the hostname NP-163
- The message was successfully delivered
- The activity was a confirmation that a message had been received
- The message was accepted by the receiver

Example 5

2007-01-15 15:42:31 6180 IMSar OK Alarm Test alarm

- The activity occurred January 15, 2007
- The time it occurred was 15:42:31
- It originated in a portable with the number 6180
- The destination was a module with the hostname IMSar
- The alarm was successfully delivered
- The activity was an alarm
- The alarm type was Test alarm

Example 6

2007-01-15 115:49:43 6180 IMSar OK User_Data 1

- The activity occurred January 15, 2007
- The time it occurred was 15:49:43
- It originated in a portable with the number 6180
- The destination was a module with the hostname IMSar
- The user data was successfully delivered
- The activity was user data
- The user data consisted of the number 1

Example 7

2007-02-15 15:20:37 ims-ip-140 OAS-126 OK Availability

- The activity occurred February 15, 2007
- The time it occurred was 15:20:37
- It originated in a module with the hostname ims-ip-140
- The destination was a module with the hostname OAS-126
- The user data was successfully delivered

- The activity was availability information
The availability information can be any of the following:
 - Present
 - In storage rack
 - Manual absent

Example 8

```
2007-01-16 14:20:37 ESS-95 ESS-95 OK Input Internal Input 1
2007-01-16 14:20:37 ESS-95 ESS-95 OK Status_Log Error
2007-01-16 14:20:37 ESS-95 ESS-95 OK Output Internal Output 1
2007-01-16 14:20:38 ESS-95 ESS-95 OK Input Internal Input 1
2007-01-16 14:20:37 ESS-95 6180 OK Msg Input activated Error, ESS-95,
Supervision, Auxiliary equipment failure, Input 1 activated
```

This example shows a series of events as follows:

- 1 Internal Input 1 is activated on a module with the hostname ESS-95.
- 2 The activation of the input indicates an error in the auxiliary equipment connected to the input, causing a status log with level "Error" to be generated.
- 3 The module activates Internal Output 1.
- 4 The external equipment deactivates Internal Input 1 on the module.
- 5 The module sends a message with information about the error to a portable with the number 6180.

Activity	Printed	Description
Message	Msg	Text message sent to a certain destination
Message with Confirmation Request	Msg_Conf	Text message with a request that the user confirms that he or she has accepted or rejected the task
Message Confirmation Response	Msg_Resp	Confirmation from the user that he or she has accepted or rejected the task
Interactive Message	IM	Message with a set of responses included
Interactive Message Response	IM_Resp	Response to an Interactive Message
Presentation	Pres	Interactive message extended with additional information about for example alarms
Presentation Response	Pres_Resp	Response to a Presentation
Erase Message	Erase_Msg	Erase a text message in the receiving portable
Alarm	Alarm	Alarm from portable

Activity	Printed	Description
Alarm Acknowledge	Alarm_Ack	Acknowledgement that an alarm has been received and accepted
Alarm System 900	Alarm	Alarm triggered from a unit in a 900 system
Call Setup	Call_Setup	Message that sets up a conference call
Status Log	Status_Log	Event sent from an application when an error has occurred, or when an error has been cleared
User Data	User_Data	Text data sent from a user
User Data System 900	User_Data	Text data sent from a user in a 900 system
Input Activity	Input	Notification that an input has been triggered
Output Activity	Output	Request to set or reset an output
Output Activity Response	Output_Resp	Notification sent from an application in response to a requested output activity
Location	Location	Information about the position of a portable
Availability Status	Availability	Information about the availability of a portable
Remote Access	Remote_Access	Information about remote access to a computer
System Supervision	Supervision	Information about supervision changes to a piece of equipment
Customized Log	Custom_Log	Customised log event sent by an application
Lost Activity Log	Lost_Activity_Log	Information about logs that could not be transferred to the activity logging application

2.3 View Activity Logs

Time	Origin	Destination	Activity	Type	Information	Priority
2006-02-22 09:50:06	4010	172.20.9.161/Event-Handler	Alarm			
2006-02-22 12:12:40	172.20.9.161/Event-Handler	4011	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:06	172.20.9.161/Event-Handler	4010	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:06	172.20.9.161/Event-Handler	4014	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:07	172.20.9.161/Event-Handler	4015	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:21	4010	172.20.9.161/Event-Handler	Message Confirmation Response			Normal
2006-02-22 09:50:23	4014	172.20.9.161/Event-Handler	Message Confirmation Response			Normal
2006-02-22 09:50:25	4015	172.20.9.161/Event-Handler	Message Confirmation Response			Normal
2006-02-22 09:50:25	172.20.9.161/Event-Handler	4014	Message		Task assigned	Normal
2006-02-22 09:50:25	172.20.9.161/Event-Handler	4010	Message		Task assigned	Normal

Message
Body: Task assigned
Alert Signal: 2 Beeps (2)
Message Reference: 45E81B27
Priority: Normal (7)
Origin:
Unite Address: 172.20.9.161/Event-Handler
Time: 2006-02-22 09:50:25
Destination 1:
Call ID: 4014
Host name: IMS-131r
Unite Address: 4014@172.20.9.131/DECT:10090
Interface Description: IP-DECT
Time: 2006-02-22 09:50:25
Status: OK (200)
Log time: 2006-02-22 09:50:28

Figure 3. Activity log.

The ESS/Unite CM has a built-in log viewer. It requires a web browser with java applet support. It is possible to view incoming activity logs in real-time (the log view updates continuously) and to search for activities stored in the ESS/Unite CM. By marking the log, a detailed description of the activity log is displayed in the pane below, see figure 3. The following information is always available:

- date and time
- type of activity
- origin of activity
- destination of activity
- activity depending information
- priority of the activity

The time is set by the module that generated the activity. Priority and information is not included in all activities.

Search Result

It is possible to search for stored activity logs. When the search result is displayed, it is possible to get related activities and to print the result to a printer via the LAN. Related activities are all activities that are dependent on the first message that was logged. For example, a paging message and an output activity sent as a result of an incoming alarm, will be related activities.

Continuous Log

In the on-line view, information will be updated continuously with new incoming activity logs. It is also possible to view related activities and to print the result.

Note: When the on-line view is used to monitor time critical activities, it is recommended to activate the extended activity log, see [Extended Activity Log](#) on page 9. Otherwise the log will not be displayed until the activity is completed.

2.4 Activity Tracing for Troubleshooting

Activity logging can be used for troubleshooting. By viewing related activities, it is easy to see, for example, if a user has accepted a message with confirmation.

Time	Origin	Destination	Activity	Type	Information	Priority
2006-02-22 10:07:33	4014	127.0.0.1/BAM	Alarm			
▶ 2006-02-22 10:07:34	172.20.9.131/BAM:10010	12345	Message		Alarm Level A	Alarm
▶ 2006-02-22 10:07:34	172.20.9.131/BAM:10010	12345	Message		Alarm Level A	Alarm

Message
Body: Alarm Level A
Alert Signal: 2 Beeps (2)
Message Reference: 45E81B27
Priority: Normal (?)
Origin:
Unite Address: 172.20.9.131/BAM:10010
Time: 2006-02-22 10:07:34
Destination 1:
Call ID: 12345
Host name: IMS-131r
Unite Address: 12345@172.20.9.131/DECT:10090
Interface Description: IP-DECT
Time: 2006-02-22 10:07:34
Status: OK (200)
Log time: 2006-02-22 10:07:37

Figure 4. Example of activity logging.

For troubleshooting purposes, it is also possible to trace the way a message is transmitted through the Unite system. This can be made in two ways, by using trace logging or extended activity logging.

Trace Logging

Unite modules have the possibility to send test messages. Such messages will by default be logged by each module they pass. Each trace log is stored in the database.

Test messages are sent from System Setup > Troubleshoot > Send Test Message.

To test where in the system a fault occurred, send a test message from the ESS/Unite CM or IMS2/Unite CM. The whole chain of events will then be logged. The incoming logs can be viewed in the on-line view, and detailed information about the log can be read.

This is also useful when setting up a new system. A test message can then be sent to make sure that the logging and the system is working without any problems.

Extended Activity Log

The log is created when the activity is completed, but with extended activity log activated, an intermediate log is created when a module transmits a message. This makes it useful for viewing time critical activities and for tracing ongoing activities through the system. The extended activity logs are not stored in the ESS/Unite CM, they are only for immediate use in the on-line view. The icon ▶ appears with the log, showing that it is an extended activity log. The log will show information about the activity several times if the extended activity log is enabled in several modules, and it can then show where in the chain it went wrong.

Typically Extended Activity Logging is used in modules acting as an interface to carrier systems, for example the IMS2 and the module where the System 900 is connected. This can be configured for each interface, for example DECT Interface and System 900 Interface. In

the DECT Interface, the Extended Activity Log is enabled at Advanced Configuration > DECT Interface > General Settings > View advanced parameters.

In addition every Unite module in a system can be configured to make an extended activity log for all activities that pass the module. The configuration of the extended activity log is done for each module in the Advanced Configuration > Other > Logging > View advanced parameters.

2.5 Export Activity Log Data

Export is used for permanent storage of the activity log data. The logs can be exported either automatically or manually.

Automatic export

The activity logs are exported automatically either as CSV or XML files. This can be done in two ways:

- to an FTP file server
- attached to e-mails via SMTP

The automatic export can be set to start periodically or when the database is full.

Note: The exported activity log data is limited to the user rights.

Manual export

With manual export the CSV and XML files are stored on a computer. The start time and the end time for the logs must be defined, which means that only activity logs generated within the specified time period are exported. The manual export does not affect the automatic export, i.e. both export types can be used in parallel.

2.6 Print Activity Log View

From the ESS/Unite CM Log Viewer, it is possible to print related activities and search results.

2.7 Users

Authorisation is needed for:

- Export: admin, sysadmin, or a defined user
- Log view: admin, sysadmin, or a defined user

The admin and the sysadmin are default users in all Unite products. In the ESS/Unite CM, they have full access to Activity Logs and User administration. Other users can be set up to have full or limited access to the logs, and will log in with a defined User ID and password that are set up by the administrator.

Authorisation is set up for user teams, which include a number of users. A user can be member of several user teams. A user can have permission to read logs from any user team, also teams that the user does not belong to. User teams do not have automatic access to their own logs, the authorisation must be set up for each user team.

3 System Examples

All modules have to be configured to send activity logs to the ESS/Unite CM to be able to use the functionality activity logging. The configuration is done for each module in Advanced Configuration > Other > Logging > System Activity Log. See Installation and Operation Manual, Enhanced System Services (ESS), TD 92253GB, or Installation and Operation Manual, Unite Connectivity Manager (Unite CM), TD 92735GB for more information. See also System Planning, Unite, TD 92258 GB for information about software versions and Data Sheet, Enhanced System Services (ESS), TD 92250GB, and Data Sheet, Unite Connectivity Manager (Unite CM), TD 92739GB for PC requirements.

3.1 Example 1 – Paging

A paper machine is connected to the Unite system through a Serial Interface module. From the machine, a paging is sent via a Serial Interface in System 900 to a service engineer’s DECT handset.

The Activity log can be viewed in ESS/Unite CM Log Viewer. One log is sent to the Activity log database:

- when receiving the paging

In the Activity log, it is possible to determine when the paging was sent etc. and if the message was successfully delivered. The symbol Ⓢ describes the point when data is sent to the ESS/Unite CM Activity log.

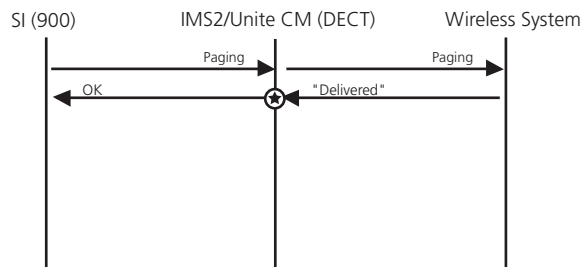


Figure 5. Paging from a serial interface.

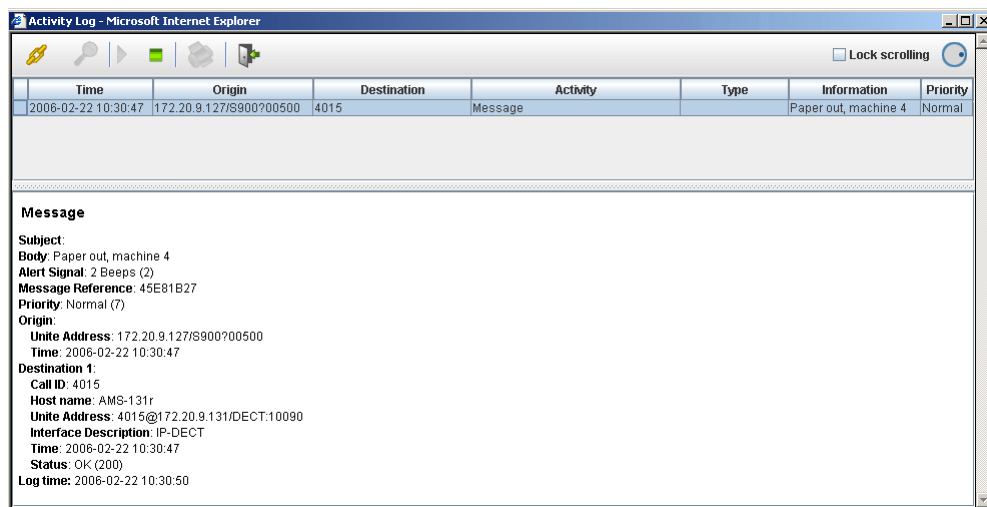


Figure 6. Activity log.

3.2 Example 2 – Paging with Manual Acknowledge

A nurse receives a paging from a patient in her portable. The system is configured to redirect the paging if the nurse does not respond or rejects the paging. When receiving the paging, the nurse will make a manual acknowledge of the call.

The Activity log can be viewed in ESS/Unite CM Log Viewer. Two logs are sent to the Activity log database:

- when receiving the paging
- when making the manual acknowledge

In the Activity log, it is possible to determine when the paging was sent and when it was accepted. By clicking on a log, it is also possible to view related activities.

The symbol  describes the point when data is sent to the ESS/Unite CM Activity Log.

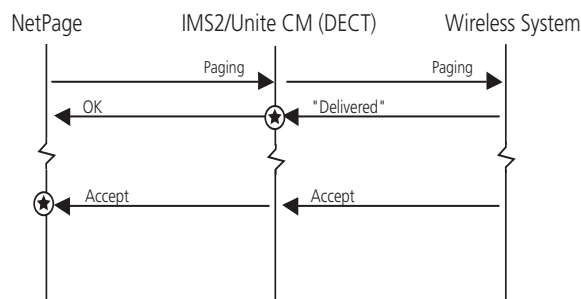


Figure 7. Paging with manual acknowledge.

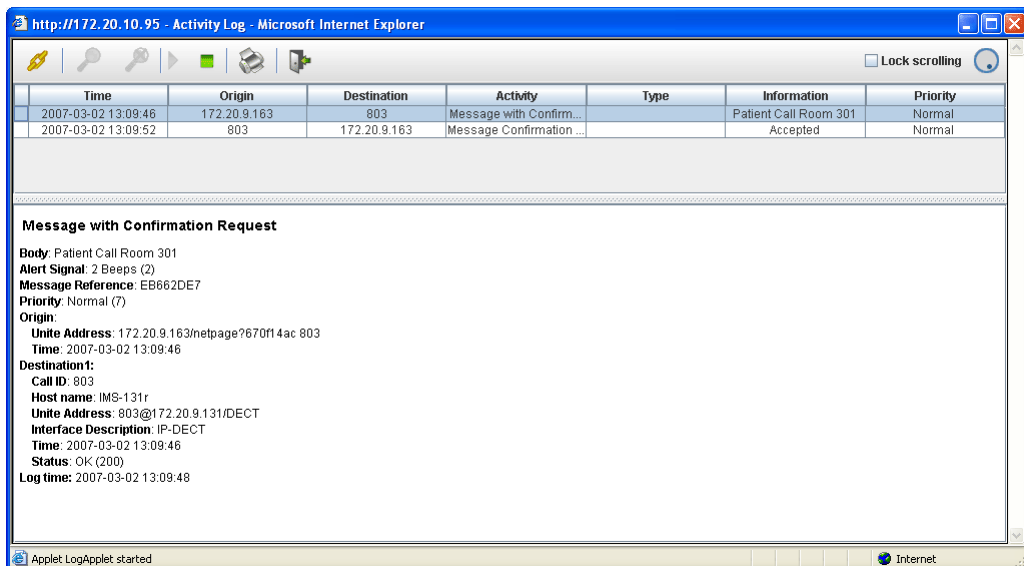


Figure 8. On-line view of incoming activity logs.

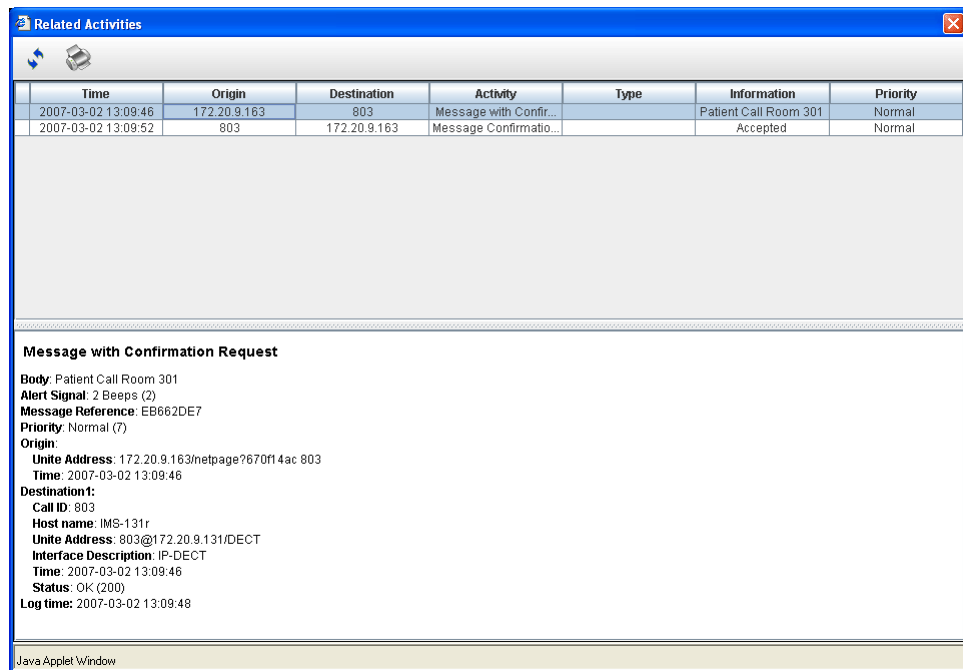


Figure 9. Related activities.

3.2.1 Extended Activity Log

By using the Extended activity log, it is possible to get an intermediate log when a module transmits a message. This makes it useful for viewing time critical activities. Rows marked with ►, is only created when the Extended Activity Log is activated.

Note: Logs marked with ► in the first column in the log view is not saved in the ESS/ Unite CM database. It is mainly used as help during troubleshooting.

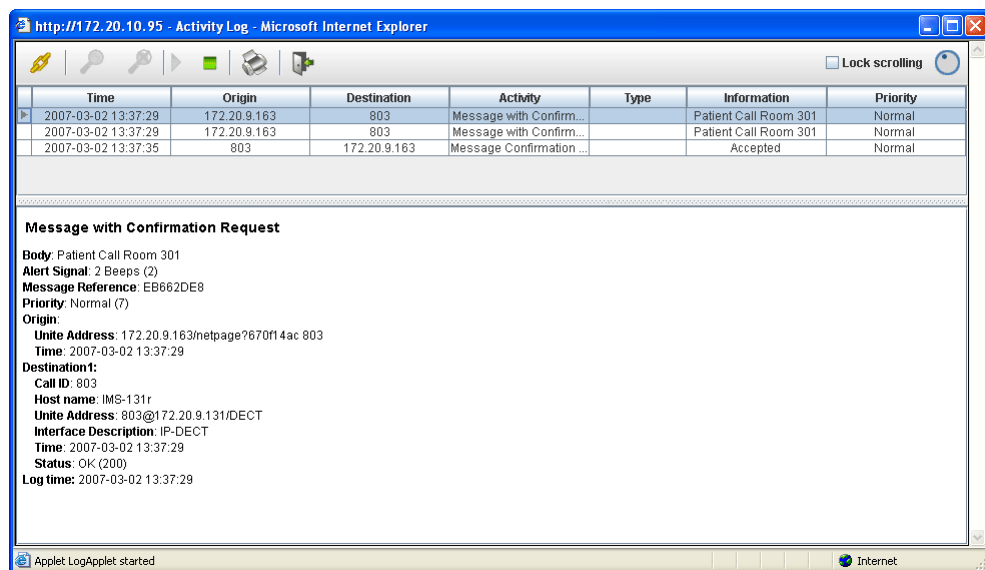



Figure 10. Extended activity log is displayed.

3.3 Example 3 – Alarm Generates Message with Acknowledge

A nurse feels threatened. When the nurse presses the alarm button on her handset, an alarm is sent to an Alarm Message Server (AMS). The alarm is automatically distributed to the security group on the emergency ward. Each security guard receives a paging and makes an acknowledge of the alarm. A notification is sent to all who has accepted the alarm.

The Activity log can be viewed in ESS/Unite CM Log Viewer. Numerous logs are sent to the Activity log database

- when pressing the alarm button
- when receiving the paging
- if absent
- when making the manual acknowledge
- when the notification is sent.

In the Activity log, it is possible to view a lot of details of the alarm. Information which can be extracted are date, time, destination, origin, type, and priority of the activity. The symbol  describes the point when data is sent to the ESS/Unite CM Activity Log.

The AMS will automatically relate the alarm with the message activities.

- The alarm is sent to a security group (4 persons).
 - 1 security guard is absent
 - 2 security guards accept the alarm
 - 1 security guard rejects the alarm
- Information about the alarm is sent to those who accepted the alarm.

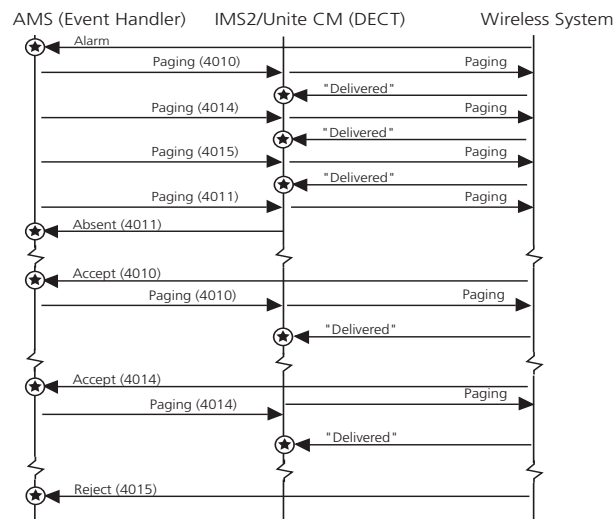


Figure 11. Alarm generates message with acknowledgement.

In figure 25 – figure 14, examples of the Activity log is shown.

Time	Origin	Destination	Activity	Type	Information	Priority
2006-02-22 09:50:06	4012	172.20.9.161/EventHandler	Alarm			
2006-02-22 12:12:40	172.20.9.161/EventHandler	4011	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:06	172.20.9.161/EventHandler	4010	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:06	172.20.9.161/EventHandler	4014	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:07	172.20.9.161/EventHandler	4015	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:21	4010	172.20.9.161/EventHandler	Message Confirmation Response			Normal
2006-02-22 09:50:23	4014	172.20.9.161/EventHandler	Message Confirmation Response			Normal
2006-02-22 09:50:25	4015	172.20.9.161/EventHandler	Message Confirmation Response			Normal
2006-02-22 09:50:25	172.20.9.161/EventHandler	4014	Message		Task assigned	Normal
2006-02-22 09:50:25	172.20.9.161/EventHandler	4010	Message		Task assigned	Normal

Alarm
Alarm type: 3
Alarm time: 06:02:22:09:50:06
Alarm data: 123
Location:
ID: 123
Type: 5
Origin:
Call ID: 4010
Host name: IMS-131r
Unite Address: 4010@172.20.9.131/DECT:10090
Interface Description: IP-DECT
Time: 2006-02-22 09:50:06
Status: OK (200)
Log time: 2006-02-22 09:50:09

Figure 12. Alarm from DECT handset.

The log shows time and date when the alarm was sent. It also shows the origin of call.

Time	Origin	Destination	Activity	Type	Information	Priority
2006-02-22 09:50:06	4010	172.20.9.161/EventHandler	Alarm			
2006-02-22 12:12:40	172.20.9.161/EventHandler	4011	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:06	172.20.9.161/EventHandler	4010	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:06	172.20.9.161/EventHandler	4014	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:07	172.20.9.161/EventHandler	4015	Message with Confirmation Request		Alarm from HS	Normal
2006-02-22 09:50:21	4010	172.20.9.161/EventHandler	Message Confirmation Response			Normal
2006-02-22 09:50:23	4014	172.20.9.161/EventHandler	Message Confirmation Response			Normal
2006-02-22 09:50:25	4015	172.20.9.161/EventHandler	Message Confirmation Response			Normal
2006-02-22 09:50:25	172.20.9.161/EventHandler	4014	Message		Task assigned	Normal
2006-02-22 09:50:25	172.20.9.161/EventHandler	4010	Message		Task assigned	Normal

Message with Confirmation Request
Body: Alarm from HS
Alert Signal: 2 Beeps (2)
Message Reference: 45E81B27
Priority: Normal (7)
Origin:
Unite Address: 172.20.9.161/EventHandler
Time: 2006-02-22 12:12:40
Destination 1:
Call ID: 4011
Host name: IMS-131r
Unite Address: 4011@172.20.9.131/DECT
Interface Description: IP-DECT
Time: 2006-02-22 12:12:40
Status: OK (200)
Log time: 2006-02-22 12:12:43

Figure 13. Security guard absent.

The exclamation mark on the row indicates that the message did not reach the intended destination.

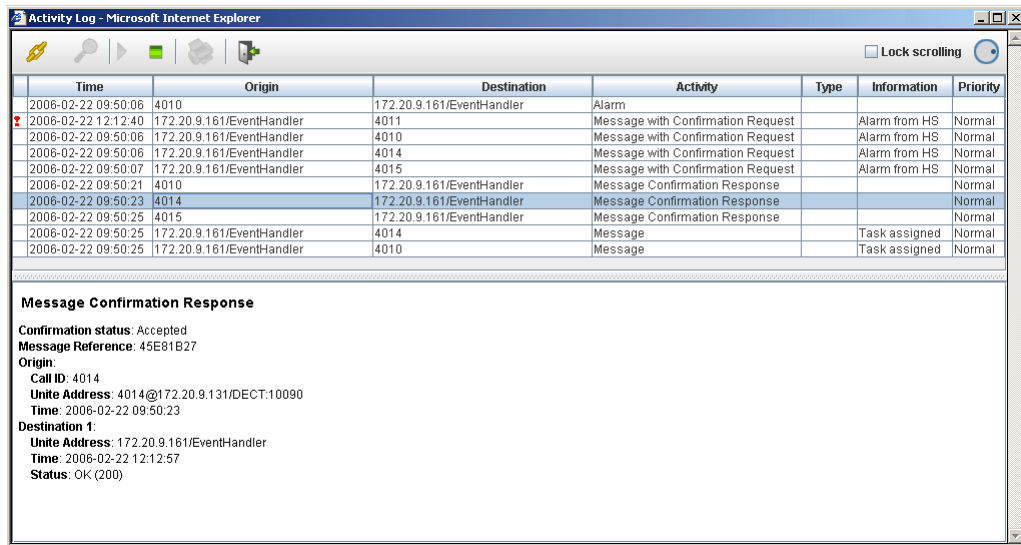


Figure 14. Accepting/rejecting the message.

To see if the message has been rejected or accepted, click on the row to view the content of the log.

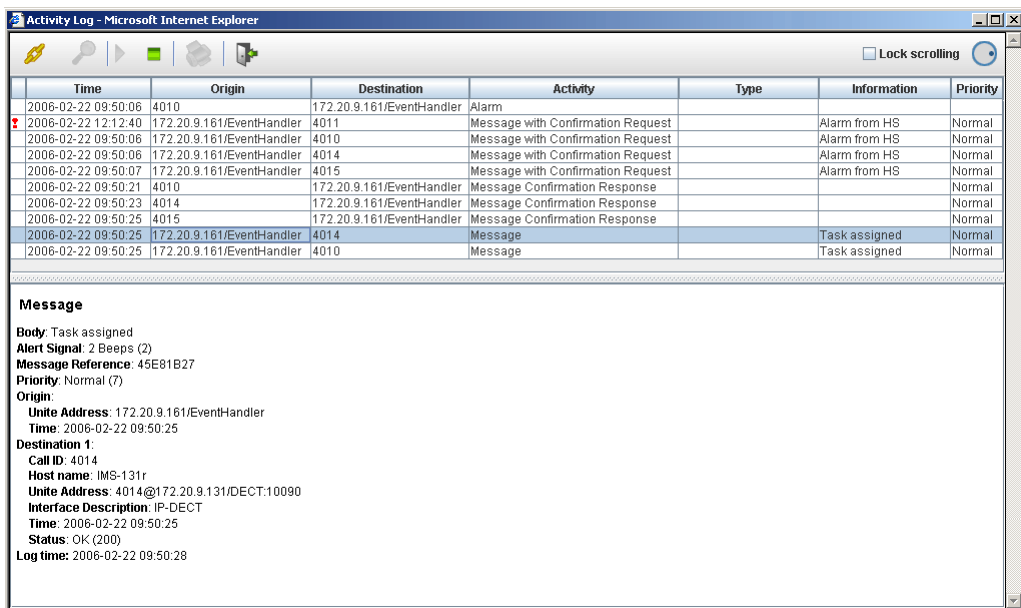


Figure 15. Message to verify acceptance.

The notification that was sent to the persons that accepted the message.

3.4 Example 4 – To use Trace Logging for Troubleshooting

By sending a test message, it is possible to see the way the message passes the system. A test message is sent from the System Setup page Troubleshoot > Send Test Message, where the Portable Device's Call ID is entered.

Below there are some examples of how the logs can look like in different situations when a test message has been sent:

Note: For information regarding status codes in received logs, see [Appendix D: Status Codes](#) on page 27.

3.4.1 Successfully Received Messages

If a message is sent to a Portable Device that is not configured with any diversions, there will be two logs displayed in the Log Applet. See [figure 16](#).

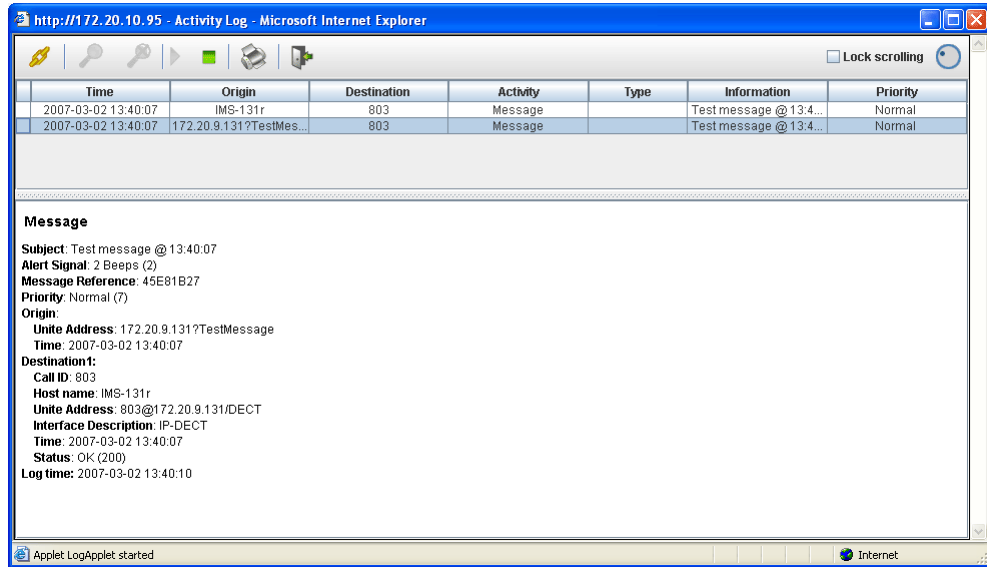


Figure 16. Message OK, no diversions.

If the message is sent to a Portable Device that is configured with diversions, there will be three logs displayed in the Log Applet. See [figure 17](#).

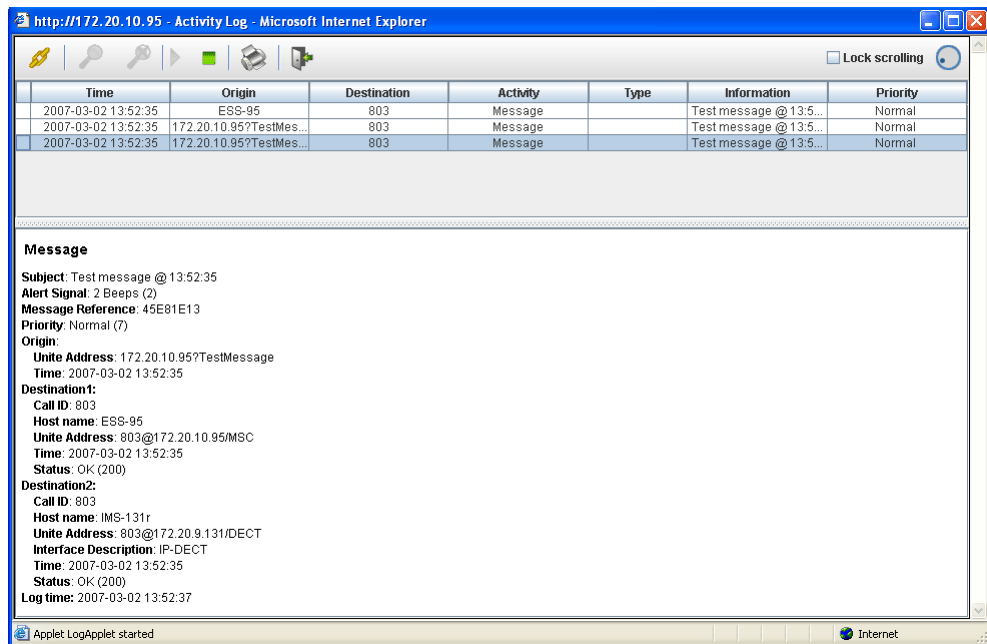


Figure 17. Message OK, with diversions.

3.4.2 Message not Delivered

If the fault is because of a Portable Device is not registered for example in the DECT system, the last log will be displayed as failure. See [figure 18](#).

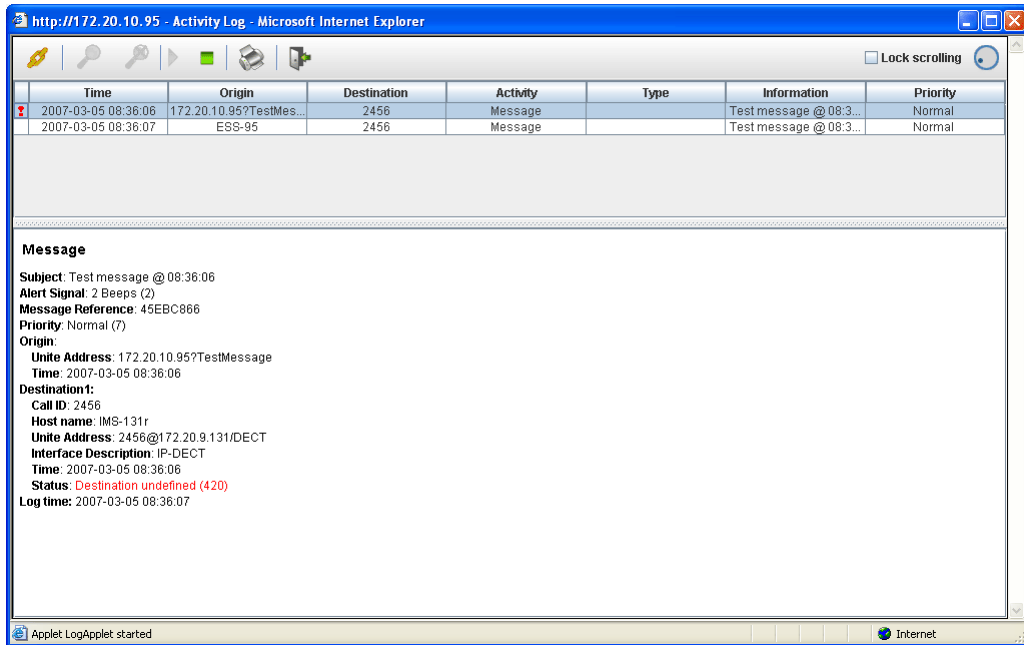


Figure 18. Destination unknown.

If a message is not delivered from the Message Routing (ESS/Unite CM), there will only be two logs displayed, since no message reached the final destination. See [figure 19](#). Note that no failure symbol is displayed.

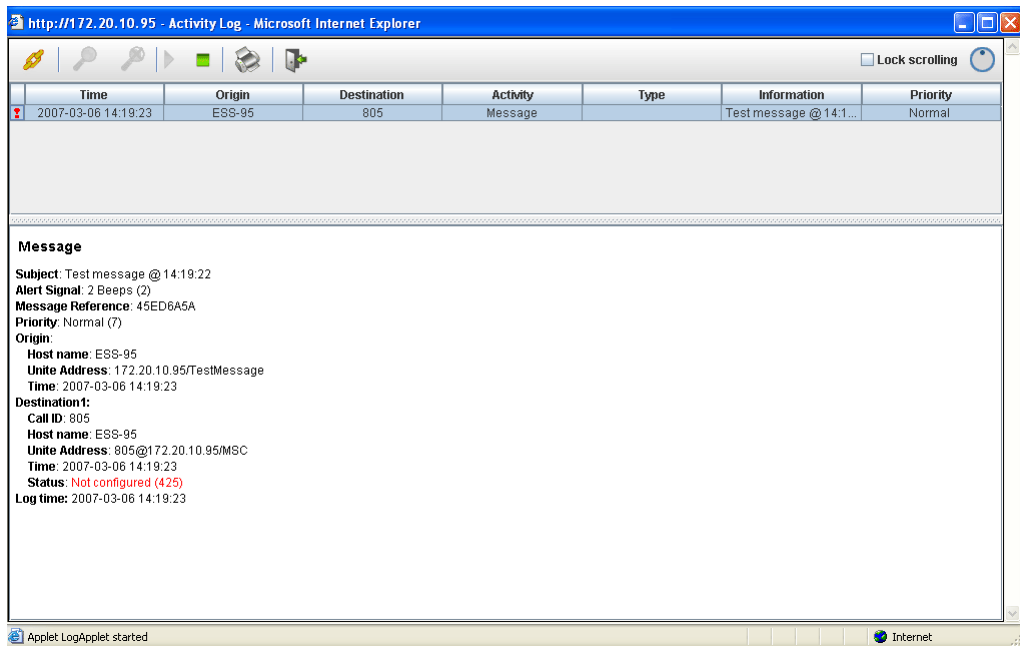


Figure 19. In between Shift is not configured.

This can be the case when Work Shifts are used in the Message Routing configuration and not all hours are covered.

4 Related Documents

Data Sheet, Enhanced System Services (ESS)	TD 92250GB
Installation and Operation Manual, Enhanced System Services (ESS)	TD 92253GB
Data Sheet, Unite CM (ELISE2)	TD 92719GB
Installation and Operation Manual, Unite CM (ELISE2)	TD 92718GB
Data Sheet, Unite CM (ELISE3)	TD 92739GB
Installation and Operation Manual, Unite CM (ELISE3)	TD 92735GB
System Description, Unite	TD 92243GB
System Planning, Unite	TD 92258GB
Function Description, System Supervision and Fault Handling in Unite	TD 92252GB

5 Document History

Version	Date	Description
A	28 November 2005	First version.
B	22 June 2006	<ul style="list-style-type: none">• In general the content of this document has been updated. See change bars for information.• New chapter, System Examples.• The chapter System Requirements is removed• New Appendixes that describes status codes and exported data.
C	21 March 2007	<ul style="list-style-type: none">• In general the content of this document has been updated. See change bars for information.• New chapter, Printing Log Information.• New Appendix that describes the XML export scheme.
D	22 December	<ul style="list-style-type: none">• Replaced IMS with IMS2 throughout.• Added Unite CM throughout.• Added VoWiFi throughout.• Updated Appendix D.• Updated Appendix E.3.

Appendix A: Export Data CSV

This information is for advanced users when an analysis tool is to be built to analyse automatically exported logs in CSV format. For more information about fields, see [Appendix E: Exported Data](#) on page 28.

This is a description of the exported data. In Notepad it would look like a running text:

```
Serialnumber:87807;ActivityId:UNITE.paging;  
LogId:"ac140eec:0f3c:39875";Priority:3;Origin;;CallId;;  
Unite address:"172.20.13.161/EventHandler";UserId;;  
Time:2006-03-23 08.50.03;;Receiver:1;;CallId:4010;  
Unite address:172.20.13.162/DECT;UserId;;  
Time:2006-03-23 08.50.03;Status:200;;Receiver:1;;CallId:4010;  
Unite address:172.20.13.162/DECT;UserId;;  
Time:2006-03-23 08.50.03;Status:200;;Tag:Fire Alarm;  
Subject:Fire Alarm;Body:Evacuate building 5C immediately;  
Beep Code:2;
```

Appendix B: Export Data XML

This XML scheme is for advanced users when an analysis tool is to be built to analyse automatically exported logs that have been archived. See [Appendix E: Exported Data](#) on page 28 for more information.

XML Scheme

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <xs:element name="SystemActivityLog">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="LogEntry" minOccurs="1"
maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="SchemaVersion" type="xs:string"
use="required"/>
    </xs:complexType>
  </xs:element>

  <xs:element name="LogEntry">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="Origin" minOccurs="1" maxOccurs="1"/>
        <xs:element ref="Receiver" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element ref="Data" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="ActivityId" type="xs:string"
use="required"/>
      <xs:attribute name="TraceLogId" type="xs:string"
use="required"/>
      <xs:attribute name="UniqueLogId" type="xs:string"
use="required"/>
      <xs:attribute name="MessageRef" type="xs:string"
use="optional"/>
      <xs:attribute name="MessageType" type="xs:string"
use="optional"/>
      <xs:attribute name="Priority" type="xs:int" use="optional"/>
      <xs:attribute name="LogTime" type="xs:dateTime" use="required"/>
    >
    </xs:complexType>
  </xs:element>

  <xs:element name="Address">
    <xs:complexType>
      <xs:all>
        <xs:element name="User" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="CallId" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="UniteAddress" type="xs:string" minOccurs="0"
maxOccurs="1"/>
      </xs:all>
    </xs:complexType>
  </xs:element>

  <xs:element name="Receiver">
    <xs:complexType>
      <xs:all>
        <xs:element name="Id" type="xs:string" minOccurs="1"
maxOccurs="1"/>
        <xs:element ref="Address" minOccurs="1" maxOccurs="1"/>
        <xs:element name="Time" type="xs:dateTime" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Status" type="xs:int" minOccurs="1"
maxOccurs="1"/>
      </xs:all>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

```
<xs:element name="Origin">
  <xs:complexType>
    <xs:all>
      <xs:element ref="Address" minOccurs="1" maxOccurs="1"/>
      <xs:element name="Time" type="xs:dateTime" minOccurs="1"
maxOccurs="1"/>
    </xs:all>
  </xs:complexType>
</xs:element>

<xs:element name="Data">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Key" type="xs:string" minOccurs = "1"
maxOccurs = "1"/>
      <xs:element name="Value" type="xs:string" minOccurs = "0"
maxOccurs = "1"/>
      <xs:element ref="Data" minOccurs="0" maxOccurs="unbounded"/
>
    </xs:sequence>
  </xs:complexType>
</xs:element>

</xs:schema>
```

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<SystemActivityLog SchemaVersion="1.0">
  <LogEntry ActivityId="UNITE.paging+Im"
TraceLogId="6a4c0830000000005c8" UniqueLogId="8f39:1144145977:477"
Priority="6" LogTime="2006-04-04T10:19:36">
  <Origin>
    <Address>
      <CallId>MrXCallId</CallId>
      <UniteAddress>MrX@172.20.9.154/DECT</UniteAddress>
    </Address>
    <Time>2006-04-04T10:19:37</Time>
  </Origin>

  <Receiver>
    <Id>1</Id>
    <Address>
      <CallId>MrY1CallId</CallId>
      <UniteAddress>MrY1@172.20.9.154/DECT</UniteAddress>
    </Address>
    <Time>2006-04-04T10:19:37</Time>
    <Status>200</Status>
  </Receiver>

  <Receiver>
    <Id>2</Id>
    <Address>
      <CallId>MrY2CallId</CallId>
      <UniteAddress>MrY2@172.20.9.154/DECT</UniteAddress>
    </Address>
    <Time>2006-04-04T10:19:37</Time>
    <Status>200</Status>
  </Receiver>

  <Data>
    <Key>Subject</Key>
    <Value>Meeting notice</Value>
  </Data>

  <Data>
    <Key>Body</Key>
    <Value>Weekly Project meeting. Location: Curie. Time: 09:00</
Value>
  </Data>

  <Data>
    <Key>IM Update</Key>
    <Value>yes</Value>
  </Data>

  <Data>
    <Key>Option</Key>
    <Value></Value>
    <Data>
      <Key>Text</Key>
      <Value> Option Text </Value>
    </Data>
    <Data>
      <Key>Data response</Key>
      <Value> Response data </Value>
    </Data>

  <Data>
    <Key>Digits to dial</Key>
    <Value>once</Value>
  </Data>
  <Data>
    <Key>Data response after disconnect</Key>
    <Value> Response data </Value>
  </Data>
</Data>
```

```
<Data>
  <Key>Option</Key>
  <Value></Value>
  <Data>
    <Key>Text</Key>
    <Value> Option Text </Value>
  </Data>
  <Data>
    <Key>Data response</Key>
    <Value> Response data </Value>
  </Data>
  <Data>
    <Key>Digits to dial</Key>
    <Value>once</Value>
  </Data>
  <Data>
    <Key>Data response after disconnect</Key>
    <Value> Response data </Value>
  </Data>
</Data>

</LogEntry>
</SystemActivityLog>
```

Appendix C: Export Data Print (ESS only)

The application reads and handles the XML configuration file that contains rules for assembly of Unite "formattedText" block. Depending on printing content selection different data is to be sent to the printer handler application.

The information in basic mode is similar to the Activity Log View.

Basic content mode

One line of content.

- Time
- Origin
- Destination (final) + status
- Activity
- Type
- Information

Extended content mode

Two lines of content.

Line 1 contains:

- Time
- Origin
- Destination (first) + status
- Destination (final) + status
- Activity
- Type
- Priority

Line 2 contains:

- Log ID
- Message Reference
- Information

Note: For both modes, the Origin and Destinations must contain either "User", "Call ID", "Surveyed host name", or "IP address".

Appendix D: Status Codes

The following status codes are available in the Unite Activity Logging.

Status Code	Text
200	OK
400	Unspecified error
401	Communication error
402	Communication error
410	Communication block invalid
411	Destination invalid
412	Erase of message failed
413	Licence error
414	Communication block not supported
415	Login required
420	Destination undefined
421	Absent
422	Diverted
423	Not reachable
424	Diversion failed
425	Destination not configured
430	Time to live expired
440	Sender not in number plan
442	Destination not in number plan.

Appendix E: Exported Data

For information on CSV format, see [Appendix A: Export Data CSV](#) on page 21.

For information on XML format, see [Appendix B: Export Data XML](#) on page 22.

E.1 CSV Fields

Serialnumber	Decimal number for identifying the log. To get a unique identity, it must be combined with time.
ActivityId	Identifies what the log is about and indirectly what values will follow in the log entry.
LogId	An ID shared by all log entries that originated from the same event in some way.
Priority ^a	Value is from 0 to 9, where 1 is highest and 9 lowest. The value 0 is used when priority is not applicable.
Origin	This contains the original sender.
Receiver 1	This contains the receiver whom the original sender tried to send to. Receivers are applicable if this is a traffic log of Unite. Other activity logs may contain only origin.
Receiver n	This contains the receiver who eventually received the message. If the Receiver 1 is repeated it indicates that the Receiver 1 received the message. If the index is e.g. 3 it would mean that the message was redirected two times.
CallId ^b	The Unite Call ID of the sender/receiver.
Unite address ^b	The Unite address of the sender/receiver.
UserId ^b	The Unite User of the sender/receiver.
Time ^b	Time when the activity was initiated/delivered.
Status ^c	Status 2xx means success, else (mostly 4xx) means failure. See Appendix D .

a.See Activity Specific Fields for blocks where priority is applicable.

b.Included in Origin and Receiver.

c.Included in Receiver.

Depending on the Activity ID the data information will look different.

A log ID is generated for each activity, and the entire chain of events can be traced from the first activity log to the final activity log. The log ID will be the same through the entire chain, for example an activated alarm and the message that is triggered by the alarm, will have the same log ID. If the message is diverted or sent to another destination, all new messages will have the same log ID as the original alarm.

E.2 XML Fields

ActivityId	Identifies what the log is about and indirectly what values will follow in the log entry.
TraceLogId	An ID shared by all log entries that originated from the same event in some way.
UniqueLogId	A unique ID identifying the log.
LogTime	Time and date of the log. Stored on the ESS/Unite CM. Consists of the date and time separated by the letter "T".

MessageRef ^a	Reference ID identifying a message making it possible to connect a message with the responses to the message.
MessageType	A text that categorises the sent block. Replaces Tag for the activities described in E.3 Activity Specific Fields .
Priority ^b	Value is from 1 to 9, where 1 is highest and 9 lowest.
Origin	This contains the original sender.
Receiver	Each Receiver field contains information about one receiver.
Id	This contains the receiver who eventually received the message. If the Receiver 1 is repeated it indicates that the Receiver 1 received the message. If the index is e.g. 3 it would mean that the message was redirected two times.
CallId ^c	The Unite Call ID of the sender/receiver.
UniteAddress ^b	The Unite address of the sender/receiver.
UserId ^b	The Unite User of the sender/receiver.
Time ^b	Time when the activity was initiated/delivered.
Status ^d	Status 2xx means success, else (mostly 4xx) means failure. See Appendix D .

a. See Activity Specific Fields for blocks where message reference is applicable.

b. See Activity Specific Fields for blocks where priority is applicable.

c. Included in Origin and Receiver.

d. Included in Receiver.

Depending on the Activity ID the data information will look different.

A log ID is generated for each activity, and the entire chain of events can be traced from the first activity log to the final activity log. The log ID will be the same through the entire chain, for example an activated alarm and the message that is triggered by the alarm, will have the same log ID. If the message is diverted or sent to another destination, all new messages will have the same log ID as the original alarm.

E.3 Activity Specific Fields

E.3.1 Message

Priority is applicable.

ActivityID	UNITE.paging
Message Reference	Reference ID connecting the message with a deletion.
Tag	A text that categorises the sent block.
Subject	The subject of the message.
Body	The body of the message.
Beep Code	Beep characteristics of the message: 0: Silent 1: 1 beep 2: 2 beeps 3: 3 beeps 4: 4 beeps 5: 5 beeps 6: 10 beeps 7: Siren

E.3.2 Message with Confirmation Request

Priority is applicable.

ActivityId	UNITE.paging+Confirmation
Message Reference	Reference ID connecting the message with a response/deletion.
Tag	A text that categorises the sent block.
Subject	The subject of the message.
Body	The body of the message.
Beep Code	Beep characteristics of the message: 0: Silent 1: 1 beep 2: 2 beeps 3: 3 beeps 4: 4 beeps 5: 5 beeps 6: 10 beeps 7: Siren

E.3.3 Message Confirmation Response

Priority is applicable.

ActivityId	UNITE.pagingConfirmationResponse
Message Reference	Reference ID connecting the response with a message.
Confirmation status	The answer from the Portable Device that the confirmation was requested from. Possible values: Accepted. Rejected.

E.3.4 Interactive Message

Priority is applicable.

ActivityId	UNITE.paging+Im
Message Reference	Reference ID connecting the message with a response/deletion.
Tag	A text that categorises the sent block.
Subject	The subject of the message.
Body	The body of the message.
Beep Code	Beep characteristics of the message: 0: Silent 1: 1 beep 2: 2 beeps 3: 3 beeps 4: 4 beeps 5: 5 beeps 6: 10 beeps 7: Siren
IM Update	A flag that indicates the sent message was an update.
Option	See Option below.

Option

Multiple options can be included in an activity log.

Reference	The ID identifying the option.
Text	The text that indicates the option on the Portable Device's display.
Data response	Predefined data that is to be sent as a response on selection.
Digits to dial	Digits used to connect a call.
Data response after disconnect	The data that is to be sent when the call is disconnected.

E.3.5 Interactive Message Response

Priority is applicable.

ActivityId	UNITE.ImResponse
Message Reference	Reference ID connecting the response with a message.
Response data	Predefined data that was sent as a response on selection.
Prompted response data	Data that was defined by receiver, and sent as response on selection.
UpdateStatusResponse	Defines how the update of the message was carried through: failed: The update failed.

E.3.6 Alarm

ActivityId	UNITE.alarm
Alarm type	0: Monitor receiver alarm 1: Test alarm 2: No new location alarm 3: Push-button alarm 1 4: Push-button alarm 2 5: Man-down alarm 6: Pull-cord alarm 7: External alarm 8: Emergency phone call alarm 9: Reset of alarm 10: Proximity 128: Verification alarm
Alarm resettype	Defines the alarm to reset. Same values as for Alarm type above.
Alarm data	Data included in the Alarm block, for example manual location in System 900.
Alarm description	Description of the alarm type.
Location	See Location below.

Location

Multiple locations can be included in an activity log.

ID	Location ID.
Type	The type of location. The following applies: 1: Undefined location 2: System 900 location (IR or LF) 3: Ascom 9d base station location 4: Ascom 9d beacon location 5: Manual location 6: System 900 Receiver Interface location 7: Fixed location 8: VoWiFi location 9: teleCARE WP LF location 10: teleCARE WP Receiver location
Time	Time in seconds since location code was received.
Data	Description of the location type.
Description	Description of the location.

E.3.7 Presentation

Priority is applicable.

ActivityId	UNITE.paging+Im+Presentation
Message Reference	Reference ID connecting the presentation with a response.
Tag	A text that categorises the sent block.
Subject	The subject of the message.
Body	The body of the message.
Beep Code	Beep characteristics of the message: 0: Silent 1: 1 beep 2: 2 beeps 3: 3 beeps 4: 4 beeps 5: 5 beeps 6: 10 beeps 7: Siren
IM Update	A flag that indicates the sent message was an update.
Option	See Option on page 31.
Alarm identity	Text description of the sender of the alarm.
Alarm origin	The identity number of the alarm transmitter.
Action	The following information is defining the action. Multiple "Action" can be included in one Presentation.
Action Type	Type of action taken for the presentation.
Time	The server time when the action was taken, on the following format: YY:MM:DD:hh:mm:ss
User ID	The user that was logged on when action was taken.
User Comment	Comments entered by the user that took the action.

If connected with an alarm, it uses the Activity Specific Fields in [Appendix E.3.6](#).

E.3.8 Presentation Response

Priority is applicable.

ActivityId	UNITE.imResponse+PresentationResponse
Message Reference	Reference ID connecting the response with a presentation.
Response data	Predefined data that was sent as a response on selection.
Prompted response data	Data that has been defined by receiver and sent as response on selection.
User ID	The user that was logged on when action was taken.
User Comment	Comments entered by the user that took the action.

E.3.9 Erase Message

Priority is applicable.

ActivityId	UNITE.messageDeletion
Message Reference	Reference ID connecting the deletion with a source.

E.3.10 Alarm Acknowledge

ActivityId	UNITE.alarmResponseAck
Alarm status	Alarm acknowledge: 200 : Accepted 400 : Bad request 404 : Destination not found 408 : Request Timeout 486 : Busy
Description text	Text description of reason.

E.3.11 Alarm System 900

ActivityId	UNITE.alarm+S900
Alarm type	0: Monitor receiver alarm 1: Test alarm 2: No new location alarm 3: Push-button alarm 1 4: Push-button alarm 2 5: Man-down alarm 6: Pull-cord alarm 7: External alarm 8: Emergency phone call alarm 128: Verification alarm
Alarm data	Data included in the Alarm block, for example manual location in System 900.
Alarm description	Description of the alarm type.
Receiver interface input	Which input on the Receiver Interface that was used.
Location	See Location on page 32.

E.3.12 Call Setup

Priority is applicable.

ActivityId	UNITE.callSetup
Message Reference	Reference ID connecting the call setup with a response/deletion.
Tag	A text that categorises the sent block.
Text to display	The text that is to be displayed.
Digits to call	Digits used to connect a call.
A-number	The number of the calling part.
Call type	How the call should be initiated.
Auto speech type	Numerical value that determines if
Beep Code	Beep characteristics of the message: 0: Silent 1: 1 beep 2: 2 beeps 3: 3 beeps 4: 4 beeps 5: 5 beeps 6: 10 beeps 7: Siren

AnswerMode	Defines how the call is to be answered in the receiving device. 0: Manual 1: Automatic
DisconnectMode	Defines how the call is to be disconnected. 0: Manual 1: Automatic
MicMode	Defines how the microphone on the receiving device is to operate during the call. 0: Push-to-Talk 1: Microphone enabled
SpeakerMode	Defines how the speaker on the receiving device is to operate during the call. 0: Off 1: Normal 2: Loudspeaking
callSetupTTL	The time that the call setup message is valid after it has arrived to its destination. 6 decimal characters specifying time in seconds.

E.3.13 Call Setup Response

Priority is applicable.

ActivityId	UNITE.callSetupResponse
Message Reference	Reference ID connecting the response with a call setup.
CallSetupStatusResponse	Possible values: Accepted Rejected Completed Failed

E.3.14 Status Log

ActivityId	UNITE.applicationStatusLog
Application name	The name of the application.
Application address	Unite address of sending application.
Hostname	The network host name of the computer/ELISE module that sent the information.
Package name	The software package that the information was sent from.
Level	The seriousness of the error: 0: All OK, no remaining errors, or individual reset 1: Information 2: Debug 3: Error 4: Critical
Persistent	The reported error is persistent, i.e. it remains until cleared.
Description	A text that describes the classification.
Fault code	<p>A</p> <ul style="list-style-type: none"> 0: No error 2: Fault in module/component 3: Supervision 4: Communication 7: Start of module/component 8: Voltage 10: Hardware 11: Configuration 12: Licence 13: Quality of service 14: Security <p>B</p> <p>Indicates which part of the system that generated the status log.</p> <ul style="list-style-type: none"> 0: No specified type 1: System 900 module status code 2: Alarm presentation status 3: Unite status 4: DECT/PWT status 5: teleCARE status 6: Radio Exchange (REX) 7: Open Access Protocol (OAP) 8: OAT Application 9: Enterprise Mobility Node 10: ESPA

<p>Fault code (continued from previous page)</p>	<p>C Indicates the type of event that caused the log.</p> <p>The following applies when "Type of data" is 1: 0–2F are reserved for common errors. 30–FF can be defined locally on each module.</p> <p>The following applies when "Type of data" is 2: LostClient means that communication between AMS and AMC is interrupted.</p> <p>The following applies when "Type of data" is 3: 1: Failed to transfer Unite communication block 2: Internal error in application when handling Unite communication block 3: Transferred communication block not handled 4: No connection to external UNS, local UNS used 5: No connection status received within Time To Live (TTL) 6: Database error 7: Reoccurring application failure 8: Application restarted 9: UNS forwarding failure 10: Module key failure 11: Unite protocol error 12: User login 13: User logout 14: Unexpected application behaviour 15: Start of component 16: Start of module 17: Failed to transfer mail 18: Module lost 19: IP equipment failure 20: Auxiliary equipment failure 21: Module running in unlicensed mode 22: All applications stopped 23: Unite block rejected due to missing licence 24: Receive queue limit reached 25: Capacity limit reached 26: Illegal parameter value 27: Log export failure 28: Module restart 29: Open Access App Specific</p>
<p>Application specific text</p>	<p>A text that describes the code above.</p>
<p>Application specific data</p>	<p>The application specific data describing the error.</p> <p>For System 900 the following applies: 0–2F are reserved for common errors. 30–FF can be defined locally on each module. This information will also be reported in the "Code" element</p> <p>For AMS the following applies: LostClient means that communication between AMS and AMC is interrupted. This information will also be reported in the "Code" element</p>
<p>Application specific info</p>	<p>Text that gives more information about the error.</p>

E.3.15 User Data

ActivityId	UNITE.userKeyData
Input data	Keypad data from the Portable Device.

E.3.16 User Data System 900

ActivityId	UNITE.userKeyData+RIStatus
Input data	Keypad data from the Portable Device.
Receiver interface input	Which input on the Receiver Interface that was used.
Receiver interface address	Module address of the RI that reported the mobile call.

E.3.17 Input Activity

ActivityId	UNITE.inputActivity
Input description	A text that describes the input, i.e. the name configured in the IO setup.
Input number	Number of the activated input (for the given Origin).
Activation status	Logical state of the input. Possible values: active inactive triggered
Contact status	Physical state of the input (only applicable when activation status is triggered). Possible values: opened closed

E.3.18 Output Activity

ActivityId	UNITE.outputActivity
Message Reference	Reference ID connecting the output activity with a response/deletion.
Tag	A text that categorises the sent block.
Output description	A text that describes the output, i.e. the name configured in the IO setup.
Reset all activations	Receiving unit was demanded to set all outputs to default.
Activation group	The following information is defining the activation. Multiple "Activation group" can be included in one Output Activity.
Output name	Output that was activated.
Activation type	0: Return to default/reset 1: Output is activated (reverse of default) 2: Output is low 3: Output is high 11: Switching with low frequency (System 900) 12: Switching with normal frequency (System 900) 13: Switching with high frequency (System 900)
Duration	How long the output was activated.

E.3.19 Output Activity Response

ActivityId	UNITE.outputActivityResponse
Message Reference	Reference ID connecting the response with a output activity.
Activation group	The following information is defining the activation. Multiple "Activation group" can be included in one Output Activity Response.
Output name	Number of the activated output (for the given Receiver).
Status	Status of the output activation. 200 : Accepted 400 : Bad request 401 : Request time out 404 : Output not found

E.3.20 Location Data

ActivityId	UNITE.locationInfo
Location	See E.3.12 Call Setup on page 34.

E.3.21 Location Request

ActivityId	UNITE.locationRequest
Message Reference	Reference ID connecting the request with a response/deletion.

E.3.22 Location Response

ActivityId	UNITE.locationResponse
Message Reference	Reference ID connecting the response with a request.
Location	See E.3.12 Call Setup on page 34.

E.3.23 Availability Status

ActivityId	UNITE.availabilityInfo
Status group	The following information is defining the availability status. Multiple "Status group" can be included in one Availability Status.
Address	The ID of the Portable Device, for example Portable Device's number.
Status code	Availability status code for the Portable Device. 200 : Present 400 : General absent 401 : Do not disturb 402 : Manual absent 403 : In meeting 404 : In storage rack
Storage rack position	The address of the position in the Storage/Charging Rack.
Description	Text description of the status code.

E.3.24 Availability Request

ActivityId	UNITE.availabilityRequest
Message Reference	Reference ID connecting the request with a response/deletion.

E.3.25 Availability Response

ActivityId	UNITE.availabilityResponse
Message Reference	Reference ID connecting the response with a request.
Status code	Availability status code for the Portable Device. 200 : Present 400 : General absent 401 : Do not disturb 402 : Manual absent 403 : In meeting 404 : In storage rack
Storage rack position	The address of the position in the Storage/Charging Rack.
Description	Text description of the status code.

E.3.26 Device Property Request

ActivityId	UNITE.propertyRequest
Message Reference	Reference ID connecting the request with a response/deletion.
DevicePropertyType	Type of property request: set: Set specified properties in the device according to the specified element. get: Get specified properties from the device.
DevicePropertyProfile	Defines the device/user profile. Value of new profile: 0–9 (only valid for set)

E.3.27 Device Property Response

ActivityId	UNITE.propertyResponse
Message Reference	Reference ID connecting the response with a request.
PropertyResponseProfile	Defines the device/user profile. Value of current profile: 0–9 (mandatory if Device property request type is "get"; otherwise optional)
PropertyResponseStatus	Possible values: success failed

E.3.28 Remote Access

Administrational Event

ActivityId	RAS.userActivity
IP Address	IP address of the remotely connected computer.
Windows User	User that was logged in at remotely connected computer.
User name	Unite user used to login.
Type	Information about remote access.

E.3.29 System Supervision

Administrational Event

ActivityId	SystemSurvey.Supervision
IP Address	IP address of the supervised module/equipment.
Supervision interval	Time between two supervised blocks.
Equipment	The name of the equipment.
Information	Information about supervision changes.

E.3.30 Customized Log

ActivityId	OA.ActivityLog
Tag	A text that categorises the sent block.
App	A text that describes the application.
Text	Information defined by the sending application.
Text2–Text10	Up to 10 texts can be defined by the sending application.

E.3.31 Lost Activity Log

ActivityId	SysActLog.LostActivityLog
TimeDurationBegin	Start time for the period during which activity logs could not be sent to the ESS/Unite CM.
TimeDurationEnd	End time for the period during which activity logs could not be sent to the ESS/Unite CM.
NumberOfLostLogs	The number of activity logs that could not be sent.
Information	The identity of the module that could not send the activity logs.