

Function Description

System Supervision and Fault Handling in Unite

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1 Introduction

In a Unite system with many components and interfaces to different systems, there is a need to be able to survey and supervise the whole system, not only the modules and components themselves. This centralised system survey and supervision is solved by using the Enhanced System Services (ESS) or the Unite Connectivity Manager (Unite CM). External equipment can be supervised with the help of ICMP ping requests or by monitoring physical outputs.

If a module or equipment is lost or a fault is detected in the system, a fault log is generated. The ESS/Unite CM can also be configured to generate a fault log when receiving an SNMP trap (used by IP equipment to communicate that there are for example faults in the equipment).

In the ESS/Unite CM, there is a fault handling function that collects fault logs from the modules on the Unite LAN. When a fault (for example, a module is lost) occurs in the system, a fault log is sent to the Fault Handler for further actions. Possible actions are; output activity triggering, sending a message, sending a fault notification via SNMP Trap or via E-mail. The Fault Handler lists all active faults and the last received fault logs.

1.1 Abbreviations and Glossary

| | |
|------------|--|
| A-bus | serial communication between modules in System 900 |
| AMS | Alarm Management Server: Unite module that enables advanced event handling |
| Category | A system or application that can be addressed |
| DECT | Digital Enhanced Cordless Telecommunications: global standard for cordless telephony |
| ESS | Enhanced System Service: Unite module that supports advanced message routing and centralised fault handling and logging. |
| GSM | Global System for Mobile communication |
| GUI | Graphical User Interface: the interface between a user and 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. |
| IPBS | IP-DECT Base Station |
| ISC | Internetworking System Controller: Unite module that enables nurse calls to be transferred from the teleCARE M system to for example System 900 or a cordless telephone system. |
| LAN | Local Area Network: a group of computers and associated devices that share a common communication line. |
| NSS | Nurse Station Server: Unite module used in the teleCARE M system to process nurse call system information which can be viewed on its internal web site. |
| NTP | Network Time Protocol: protocol designed to synchronize the clocks of computers over a network. |
| OAS | Open Access Server: Unite module that enables communication with customized applications created with the Open Access Toolkit. |
| OJS | Open Java Server: Unite module that is an embedded environment for customized Java applications. |
| SMM | System Monitoring Module: supervises the modules connected to the LON network in the teleCARE M system. |
| SNMP | Simple Network Management Protocol: standard for management of network equipment |
| System 900 | generic term for telePROTECT, teleCOURIER, and CTS 900 systems |
| TIP | teleCARE installation Program, setup software: PC tool used to install and configure the teleCARE M system |
| Unite | generic term for messaging system that unites different systems, for example System 900, System 9d, and teleCARE M. |

| | |
|----------|---|
| Unite CM | Unite Connectivity Manager: Unite module that enables messaging and alarm handling in a system. It also includes the Device Manager. |
| UNS | Unite Name Server: Unite module component that holds the Unite number plan and Unite destinations. |
| 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

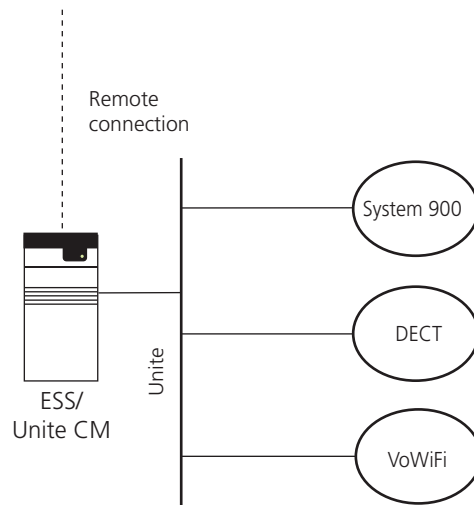


Figure 1. ESS/Unite CM in a Unite System.

2.1 System Supervision

The Supervision function in the ESS/Unite CM is responsible for surveying and supervising Unite modules connected to the LAN. This is set up on the Supervision page. When the user asks for a system survey, a request is sent out to the modules on the LAN. The result of the survey shows which modules that are connected to the local LAN and additional information about the modules, such as IP address, version etc. Then the user can set up the modules to be supervised and the result is displayed as:

- Supervision OK
- Module is lost
- Module error
- Module not supervised


It is possible to set the time between supervision for each module individually.

The survey request is sent out as a broadcast message, meaning that any module placed outside a router will not be reached by the survey request. If a module is placed outside the local LAN router, a specific request to that module must be made for the first survey. The module can then be supervised and at the next system survey request, the module outside the router will be part of the request. If an existing module is not answering on the broadcast message, a directly addressed survey request will always be sent.

New Modules Add All

| Module | IP Address | Host name | Status | Since |
|--------|----------------|----------------------|--------|---------------------|
| OAS | 172.20.9.138 | OAS-138 | | |
| 3.61 | Service | Description | | |
| 8.20 | S900 | System 900 Interface | | 2006-11-02 07:35:16 |
| | OAS | OAT Server | | |

Existing Modules

| Module | IP Address | Host name | Status | Since |
|--------|----------------|----------------------|---|---------------------|
| IMS | 172.20.9.245 | IMS_for_EMN | | |
| 2.70 | Service | Description | | |
| 8.10 | S900 | System 900 Interface |  | 2006-12-05 09:03:54 |
| | DECT | IP-DECT | | |
| | OAP | OAP Interface | | |

Scan the complete system for supervisable modules by pressing the button Add specific module to survey, enter IP address and press button.

Figure 2. An example of a supervised system.

IP equipment can be supervised via ICMP ping request. The supervision result is displayed as:

- Supervision OK
- Equipment lost
- Equipment not supervised

It is possible to set the time between sent ping requests for each equipment individually. If the equipment is not answering the sent request, a persistent Fault Log will be generated.

Equipment that indicates fault via an error output can be monitored via inputs, either the ESS/Unite CM inputs or inputs on an Alarm Module connected via System 900 A-bus. Monitoring result is displayed as:

- Monitored
- Not monitored

It is possible to define error level and error description for all supervised modules, equipment and monitored inputs.

2.2 SNMP Traps

The ESS/Unite CM can be configured to generate a Fault Log when receiving an SNMP Trap. The Fault Log will include the IP address that the trap was sent from and text entered in the configuration. The information received in the trap can be added to the configured text.

The default action is to generate a Fault Log with level "Information" for every received trap. The log level can be changed in the Log Setup.

It is possible to add SNMP Trap actions to get different behaviour depending on the sender's IP address and the information in the trap. The actions will be matched in the order displayed on the overview page, and only one action will be executed.

2.3 Fault Handler

With the ESS/Unite CM fault handling function, it is possible to collect all faults received from the modules connected to the LAN. The Fault Handler can be configured via the ESS/Unite CM web GUI to start certain actions and to show the status of all faults. It is possible to set up the Fault Handler to do one or more actions for each individually received fault log. It is also possible to start and stop actions for the first persistent fault and when the last persistent fault is resolved. All active faults can be found on the Active Faults page, and the complete fault log can be found on the Fault Log page.

All Unite modules connected to the LAN must be configured to send their fault messages to the Fault Handler. This configuration is done in each module on the administration pages that can be reached via links from the Unite Modules Setup page in the ESS/Unite CM GUI.

Possible actions to be configured from the Fault Handler are:

- Activate outputs on the ESS/Unite CM
It is possible to activate configured outputs, both local and System 900 Output Module outputs.
- Error relay activation
The ESS/Unite CM error relay can be released to indicate fault
- Sending of messages
It is possible to set message text, select beep code and priority
- Sending fault notifications via SNMP trap
It is possible to set the text to be sent and select SNMP version
- Sending of E-mail
It is possible to send to several addresses and to add CC addresses, to set subject and body of the E-mail
- Buslogger action
It is possible to save current log information when error occurs

2.3.1 Levels of Fault Logging

There are four levels of faults that can be generated in the Unite modules and sent to the ESS/Unite CM Fault Handler for further actions. All levels can be persistent.

- Level 4, Critical
used when the system is not functioning due to a severe error (file missing, external resources not found etc.).
- Level 3, Error
used when an fault affects the system (message lost for example), but the system is still functioning.
- Level 2, Warning
used for alerting other applications that something abnormal has happened, but it does not affect the functionality of the system.
- Level 1, Information
used for logging events and debugging purposes.

Note: If a Unite module has A-bus modules connected and one A-bus module is lost, there will be a delay in time between the loss of the A-bus module and the fault logging time in the ESS/Unite CM. The time delay is depending on the module priority settings in the System 900 module connection. If, for example, the priority is set to 1, the delay is 1 minute and if the priority is set to 3, the delay is 3 minutes.

3 System Outline

3.1 Example 1: Supervision of a DECT System

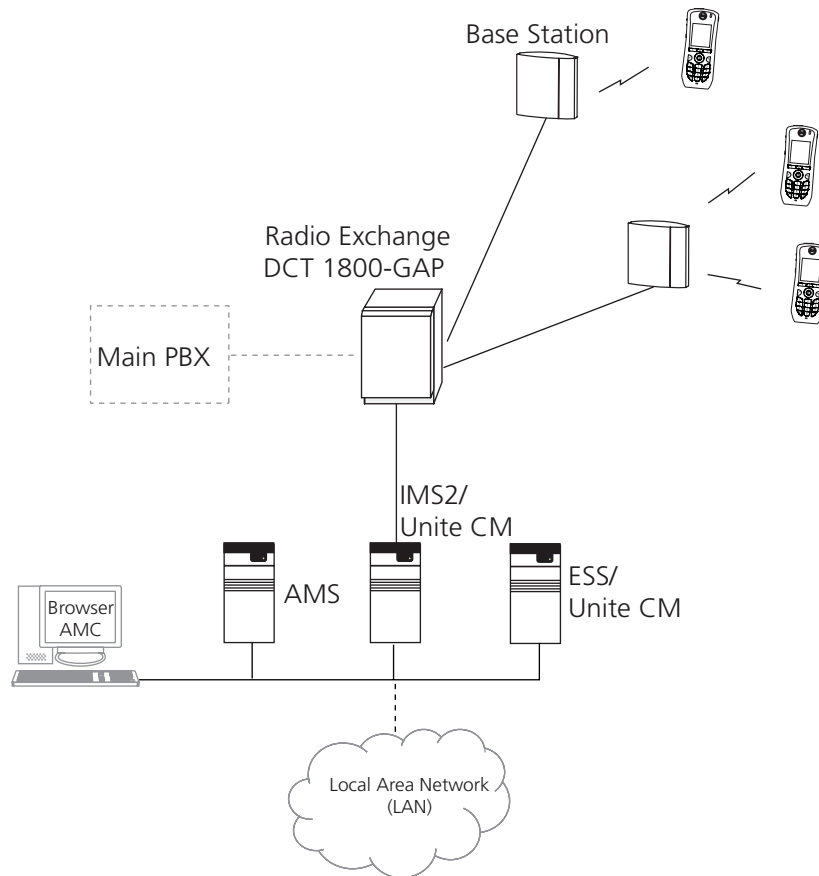


Figure 3. System supervision in a DECT system using the ESS/Unite CM.

This example shows a DECT system with a radio exchange DCT 1800-GAP and an alarm system used in a prison. For security reasons it is important to supervise the system to detect any lost modules. The supervision of the system is done by the ESS/Unite CM, which is configured to supervise the IMS2/Unite CM and AMS. The DECT system is supervised through the IMS2/Unite CM. If any DECT module is lost or any error occurs, the IMS2/Unite CM module will report the error to ESS/Unite CM.

The ESS/Unite CM Fault Handler can be configured to do some actions when the IMS2/Unite CM or AMS is lost, and also when the IMS2/Unite CM detects that any DECT module is lost

All fault messages from the DECT system are presented in the ESS/Unite CM Fault Log.

3.2 Example 2: Supervision of IP Equipment

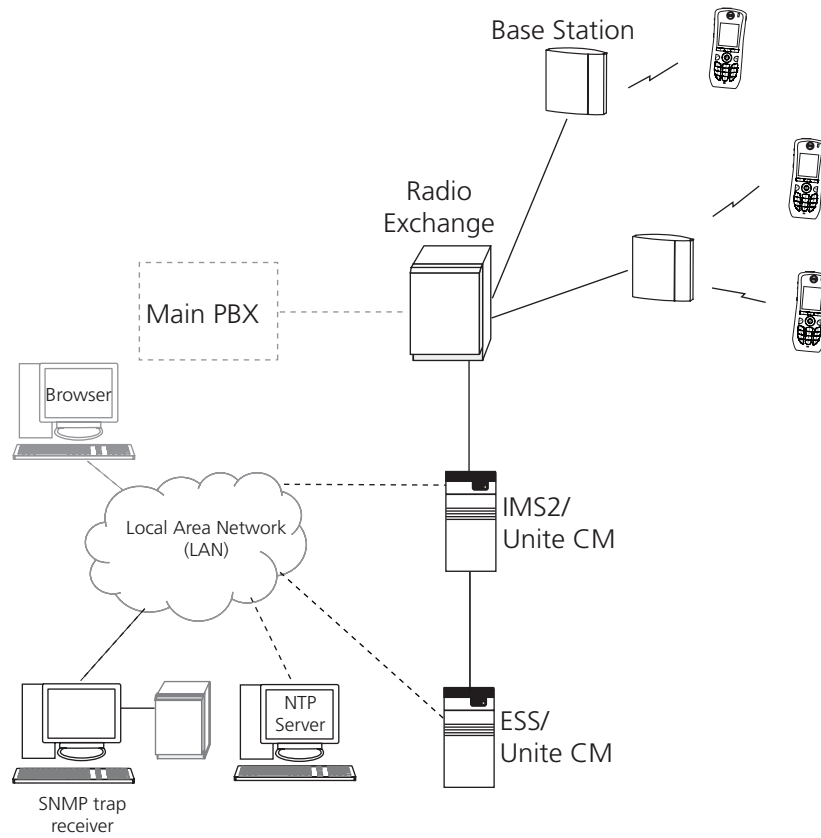


Figure 4. An NTP server is supervised.

In this example, an NTP server of a system is supervised. If connection to the NTP server is lost, the System Supervisor will report the error. The ESS/Unite CM Fault Handler is configured to send an SNMP trap when the error occurs.

3.3 Example 3: Supervision of Auxiliary Equipment

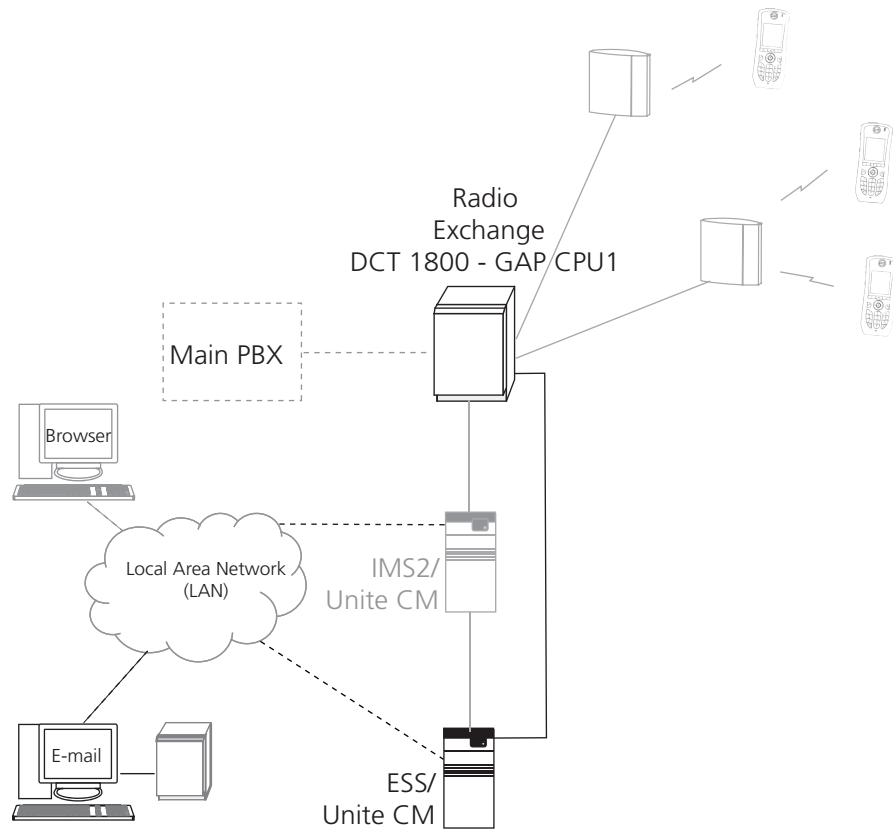


Figure 5. A DCT 1800-GAP CPU1 is supervised.

A DCT 1800-GAP with CPU1 will not report any errors to the IMS2/Unite CM. To detect any errors, the error output on the DCT 1800 can be connected to a monitored input on the ESS/Unite CM. If the input is activated, the System Supervisor will report the error. The ESS/Unite CM Fault Handler is configured to send an E-mail when an error occurs.

3.4 Example 4: Receiving SNMP Traps

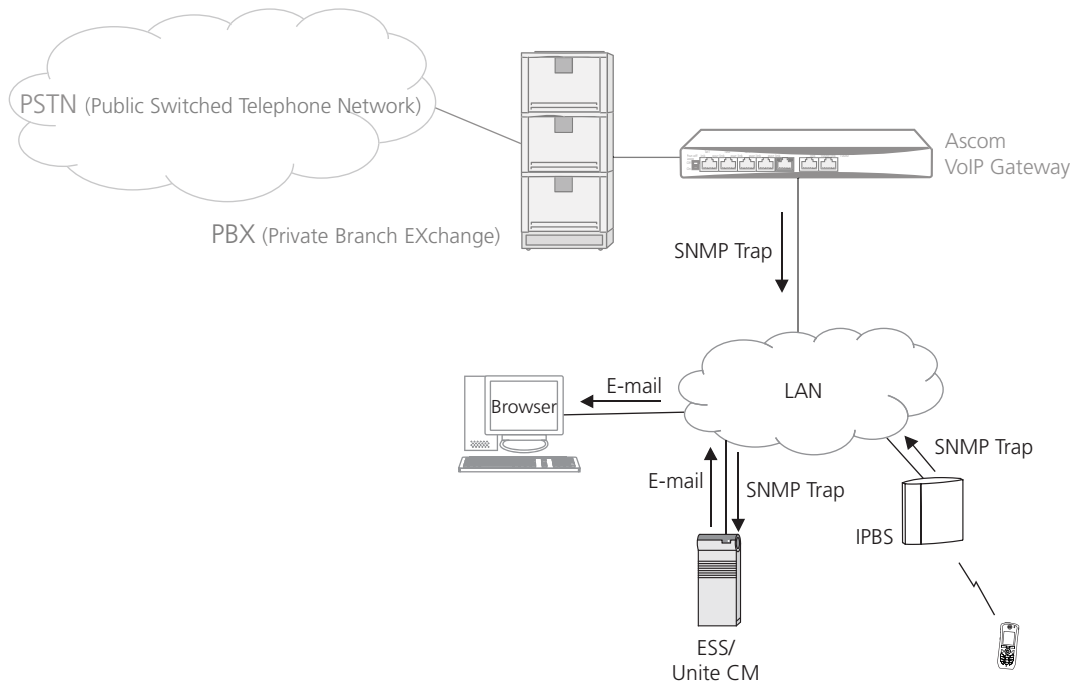


Figure 6. The IP-DECT base station sends an SNMP trap to the ESS/Unite CM.

The IP-DECT base station and Ascom VoIP Gateway are configured to send SNMP traps to the ESS/Unite CM when faults are detected. The ESS/Unite CM is configured to generate a fault log when receiving the SNMP trap, and to send an E-mail to a responsible person when a fault occurs.

3.5 Example 5: Fault Handling in a Multi-System Installation

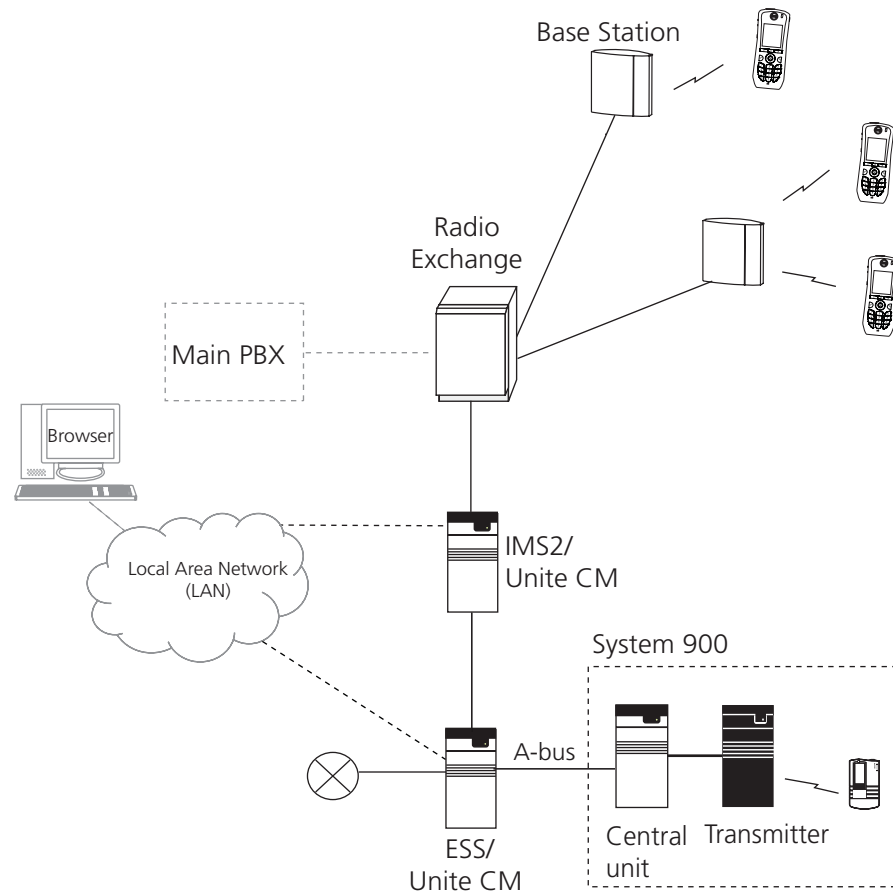


Figure 7. ESS/Unite CM fault handling in a multi-system installation.

This example shows a system with DECT and System 900. A lamp is connected to the ESS/Unite CM error relay. The ESS/Unite CM Fault Handler is configured to activate the error relay and light the lamp when the communication to the DECT system or System 900 is lost. For extra security, the ESS/Unite CM is also configured to send a message to a System 900 user if the DECT communication is lost, and a message to a DECT user if the communication to the System 900 is lost.

4 System Requirements

4.1 PC Requirement

Microsoft Internet Explorer

Version 6.0 or later.

4.2 Unite Modules

To be able to use the System Supervision and Fault Handling functionality in the ESS/Unite CM, the following versions of the Unite modules must be used:

Enhanced System Services (ESS)

Software version 2.10 or later.

Unite Connectivity Manager (Unite CM)

Software version 1.00 or later.

Alarm Management Server (AMS)

Software version 5.01 or later.

Integrated Wireless Messaging and Services (IMS2)

Software version 2.62 or later.

MailGate

Software version 2.10 or later.

NetPage

Software version 3.50 or later.

Open Access Server (OAS)

Software version 3.50 or later.

Open Java Server (OJS)

Software version 2.10 or later.

Nurse Station Server (NSS)

Software version 3.00 or later.

Internetworking System Controller (ISC)

Software version 3.01 or later.

XGate

Software version 1.00 or later.

4.3 Additional Software Requirements

Radio Exchange DCT 1800-GAP (CPU2)

Software version R1E or later.

System Monitoring Module (SMM)

Software version 1.10 or later.

teleCARE Installation Program (TIP)

Software version 1.3 or later.

5 System Installation

5.1 Physical Installation

The installation and configuration of the ESS/Unite CM is described in Installation and Operation Manual, Enhanced System Services (ESS), TD 92253GB, Installation and Operation Manual, Unite CM (ELISE2), TD 92718GB, or Installation and Operation Manual, Unite CM (ELISE3), TD 92735GB.

5.2 Parameter Settings

The configuration of the System Supervision and the Fault Handler is done in the ESS/Unite CM web GUI. This GUI can be reached from the direct link <http://xxx.xxx.xxx.xxx> where xxx.xxx.xxx.xxx is the ESS/Unite CM IP address.

Note: All modules must be configured to send their fault log to the Fault Handler in the ESS/Unite CM. For more information about how to direct the fault log to the ESS/Unite CM, see Installation and Operation Manual, Enhanced System Services (ESS), TD 92253GB, Installation and Operation Manual, Unite CM (ELISE2), TD 92718GB, or Installation and Operation Manual, Unite CM (ELISE3), TD 92735GB.

5.2.1 Settings in Example 1: Supervision of a DECT System

The parameter settings for system survey and supervision are made on the Supervision page.

First of all, the system must be surveyed to find out which modules that are connected to the LAN. Then supervision can be set up for each module.

System Survey

New Modules Add All

| Module | IP Address | Host name | Status | Since |
|-------------|---------------------|----------------------|--------|---------------------|
| IMS2 | 172.20.9.245 | IMS_for_EMN | | |
| 2.70 | Service | Description | | |
| 8.10 | S900 | System 900 Interface | | 2006-12-12 14:03:04 |
| | DECT | IP-DECT | | |
| | OAP | OAP Interface | | |
| AMS | 172.20.9.161 | AMS-161 | | |
| 5.21 | Service | Description | | |
| 8.21 | S900 | System 900 Interface | | 2006-12-12 16:20:15 |
| | EventHandler | Event Handler | | |



Scan the complete system for supervisable modules by pressing the button
Add specific module to survey, enter IP address and press button.

Figure 8. List of new modules.

The AMS and the IMS2/Unite CM were detected when "Survey System" was clicked. The modules are displayed in the list, New Modules. See figure 8.

Supervision

Existing Modules

| Module | IP Address | Host name | Supervision status | Since | |
|-------------|---------------------|-----------------------|---|------------|--|
| AMS | 172.20.9.123 | AMS | | | <input type="button" value="Setup"/> ✕ |
| 5.01 | Service | Description |  | 2005-07-07 | |
| | S900 | System 900 Interface | | 09:49:31 | |
| | EventHandler | Event Handler | | | |
| IMS2 | 172.20.9.170 | Elise | | | <input type="button" value="Setup"/> ✕ |
| 2.52 | Service | Description |  | 2005-07-06 | |
| | S900 | System 900 Interface | | 10:48:20 | |
| | DECT | DECT System Interface | | | |
| | OAP | OAP Interface | | | |

Scan the complete system for supervisable modules by pressing the button

Add specific module to survey, enter IP address and press button.

Figure 9. Supervised modules.

To supervise the modules, the "Add" button for IMS2/Unite CM and AMS was clicked. The IMS2/Unite CM and the AMS are now shown in the list of Existing Modules. Modules in the list are by default supervised.

Setup Setup

Module information

Module: AMS
IP Address: 172.20.9.161
Host name: AMS-161

Software version: 5.21-8.3.3-A
OS version: 8.21-8.X.X-A
Module key: 13623
Licence options: 772BCC6BFFFFFFFFF
Status: OK
Start time: 2007-01-25 15:59:49
Start cause: Reboot

Notes

Supervision

Supervised: Yes No
Interval: (s)

Log Setup

Level

Event Description

Interfaces

| Interface | Description | My description |
|--------------|----------------------|----------------------|
| S900 | System 900 Interface | <input type="text"/> |
| EventHandler | Event Handler | <input type="text"/> |

Additional Configuration

[Configure the module parameters](#)

Figure 10. Setup page for supervision.

On the Setup page it is possible to set up supervision parameters, for example, changing the interval for the supervision (default value is 30 seconds). It is also possible to change the service descriptions by writing a new name in the My description field.

For more information and instruction about how system supervision is set up, see Installation and Operation Manual, Enhanced System Services (ESS), TD 92253GB, Installation and Operation Manual, Unite CM (ELISE2), TD 92718GB, or Installation and Operation Manual, Unite CM (ELISE3), TD 92735GB.

5.2.2 Settings in Example 2: Supervision of IP Equipment

In this example, an SNMP trap will be sent when the NTP server is lost. The parameter settings are made on the Supervision page, and on the Fault Handling page.

Supervision.

IP Equipment

| Equipment | IP Address | Supervision status | Since | |
|-----------|--------------|--------------------|---------------------|---|
| | 172.20.40.60 | | 2005-09-22 10:07:20 | <input type="button" value="Setup"/> <input type="button" value="X"/> |

Enter IP or host name and press Add Equipment to start supervising new equipment.

Figure 11. An IP address of an NTP server has been added.

On the IP Equipment page, the IP address of the NTP server has been added.

Setup.

Setup

Equipment information

Equipment:
IP Address:

Notes

Supervision

The equipment is supervised with ICMP ping

Supervised: Yes No

Interval: (s)

Log Setup

Level

Event Description

Figure 12. The name of the equipment has been added, and it is set to be supervised.

On the Setup page, the name of the Equipment has been entered and the supervision has been set to "Yes". When the equipment setup is saved, the changes appear in the overview.

If the equipment does not answer on the sent request, a persistent fault will be generated. It includes the configured Equipment name and IP address or host name. The default level is Error.

Add new action.

Trigger

Normally either the host name/IP address or module is entered as trigger condition. If both are entered, both have to match the incoming fault message.

| Host name/IP Address | Module | Level |
|----------------------|---|------------------------------------|
| <input type="text"/> | <input type="text" value="NTP server"/> | <input type="button" value="All"/> |

Figure 13. The name of the module has been entered and the level has been selected.

In the Fault Handling > Fault Actions > "Add Action":

The name of the equipment has been entered in the Module field. The Level "All" has been selected.

Add an SNMP trap action

| IP Address | Message Text | Include log info | Version |
|--|--|-------------------------------------|---------------------------------------|
| <input type="text" value="172.1.2.3"/> | <input type="text" value="NTP server lost"/> | <input checked="" type="checkbox"/> | <input type="button" value="SNMPv1"/> |

Figure 14. Information of the SNMP trap has been added.

An SNMP trap has been added and the IP address and a message has been entered. Include log info has been marked to include error information in the message.

For more information and instructions, see Installation and Operation Manual, Enhanced System Services (ESS), TD 92253GB, Installation and Operation Manual, Unite CM (ELISE2), TD 92718GB, or Installation and Operation Manual, Unite CM (ELISE3), TD 92735GB.

5.2.3 Settings in Example 3: Supervision of Auxiliary Equipment

In this example, an E-mail notification will be sent when fault occurs in the Radio Exchange. The parameter settings are made on the Supervision page, and on the Fault Handling page.

The error relay on the DCT 1800-GAP CPU1 has been connected to input 1 on the ESS/Unite CM module. See Installation Guide, ELISE2, TD 92232GB, and the Technical Product Manual, DCT 1800-GAP, for more information about connectors and inputs.

I/O Setup

Inputs

| ID | Input Name | Module Address | Input | Activation | Activation Time | Last known status |
|----|------------------|----------------|-------|------------|-----------------|-------------------|
| 1 | Internal Input 1 | Internal | 1 | On Opening | | |
| 2 | Internal Input 2 | Internal | 2 | On Opening | | |

Define new input

Save Cancel

Figure 15. Selected activation type for the input.

On the I/O Setup page, the activation type has been selected and saved.

Whether On Opening or On Closing should be selected depends on how the error relay is set up in the DCT 1800-GAP CPU1. For more information, see Installation Instruction, Technical Product Manual DCT 1800-GAP.

Supervision

This page reflects system status at 2005-09-22 14:30:13 [Update page](#)

No Modules

Internal Input 1

Figure 16. Internal Input 1 is selected.

On the Auxiliary Equipment page, the "Internal Input 1" has been selected and added.

Setup

Auxiliary Equipment Monitoring

| Input | Status | Since | |
|------------------|---|---------------------|---|
| Internal Input 1 |  | 2005-09-22 15:20:48 | <input type="button" value="Setup"/> ✘ |

Internal Input 1

Figure 17. Internal Input 1 has been selected to be monitored.

Setup

Input

Internal Input 1 ▼

Notes

Monitoring

Monitored: Yes No

Log Setup

Equipment Name

Level ▼ **Persistent**

Event Description

Figure 18. Monitoring and Log setup information have been added.

On the Setup page, monitoring has been set to "Yes". The equipment name, DCT 1800-GAP CPU1 has been entered. The level "Error" has been selected, and the check-box Persistent has been marked indicating that the fault should remain until the input is not active any longer. A description of the Event has been entered.

Add new Action

In the Fault Handling > Fault Actions > "Add Action":

A new action has been added, and "DCT 1800-GAP CPU1" has been entered as module.

Add E-mail notification

Send E-mail

To: eddy.strong@service.com

Cc:

Subject: DCT 1800-GAP CPU1 error

Message: The Radio Exchange has reported errors.

Include log info

Figure 19. An E-mail will be sent when fault occurs.

The Mail Server has to be configured to be able to send E-mail. This is done on the administration web page for the ESS/Unite CM. See Installation and Operation Manual, Enhanced System Services (ESS), TD 92253GB, Installation and Operation Manual, Unite CM (ELISE2), TD 92718GB, or Installation and Operation Manual, Unite CM (ELISE3), TD 92735GB, for information.

After clicking "Add E-mail", the destination address, subject, and message has been entered. The Include log info check-box has been marked to include error information in the message.

5.2.4 Settings in Example 4: Receiving SNMP Traps

In this example, the ESS/Unite CM receives SNMP traps when fault occurs in the IP-DECT system. The ESS/Unite CM generates a fault log, and it also trigger an action to send an E-mail.

The parameter settings are made on the Supervision page, and on the Fault Handling page.

Receive SNMP Trap

SNMP Trap Action Setup

Module:
IP Address:
Filter:

Notes

Action Conditions

Enabled: Yes No

Log Setup

▼

Event Description

Include trap data

Figure 20. SNMP trap errors will be received.

The configuration is setup to include trap data when errors occur from IP addresses in the IP-DECT system. Include trap data is marked to receive information about the SNMP trap.

E-mail action is done in the same way as in example 3, see [figure 19](#).

5.2.5 Settings in Example 5: Fault Handling in a Multi-System Installation

In this example, the actions are set up to trigger when the IMS2/Unite CM generates an error message that the communication to the DECT system is lost, or the ESS/Unite CM generates an error message that the communication to the System 900 is lost. The actions on the triggers are to light a lamp and to send messages to a user in the DECT system if the System 900 fails or to a user in the System 900 if the DECT system fails.

The parameter settings for the Fault Handler are made on the Fault Handling page.

Add new action

New action

Action Name

IMS2 critical error

Notes

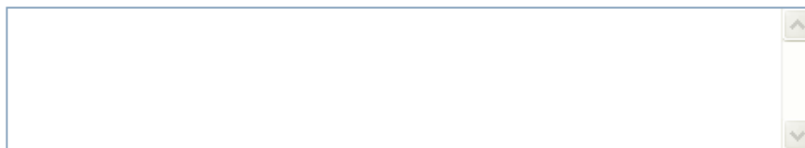


Figure 21. Naming the action.

On the New action page, IMS2 critical error has been entered as an action name. If the IMS2/Unite CM shows as a critical error, that means that the communication to the DECT system is lost.

Trigger conditions

Trigger

Normally either the host name/IP address or module is entered as trigger condition. If both are entered, both have to match the incoming fault message.

| Host name/IP Address | Module | Level |
|--|--------|---|
| <input type="text"/> | IMS | Critical <input type="button" value="v"/> |
| <input type="button" value="Add Trigger"/> | | |

Figure 22. Trigger conditions.

The IMS2/Unite CM module has been entered, and the error level to trigger on has been selected as "Critical". The host name and module name are found on the Supervision page in the list of Existing Modules. The action is triggered on either host name/IP address or module.

Actions

The action of the trigger is that a message will be sent to a user in the System 900 and the lamp connected to the ESS/Unite CM error relay will be lit.

| Call ID | Message Text | Include log info | Beep Code | Priority |
|---------|--------------------------------------|-------------------------------------|-----------|----------|
| 1234 | IMS critical error, DECT system lost | <input checked="" type="checkbox"/> | 4 beeps | High |

Add Message

Figure 23. Adding a message.

On the "Add Message" page, the Call ID for the System 900 user and the text to be sent has been entered. Include log info box has been marked. Beep code level 4 and priority level high has been selected.

In this example, the user 1234 is a System 900 user. The Call ID must be defined in the number plan.

Error Relay

| Indicates Fault | Duration (s) |
|---|--------------|
| <input checked="" type="checkbox"/> Yes | 60 |

BusLogger

Store logs

Yes

Save Cancel

Figure 24. Activation of the error relay.

The "Indicates Fault" box has been marked, to use the output/relay to indicate fault. The duration has been set to 60 s.

Fault Actions

Fault Actions will be matched in listed order. When a trigger condition matches the incoming fault message, the following actions will not be matched.

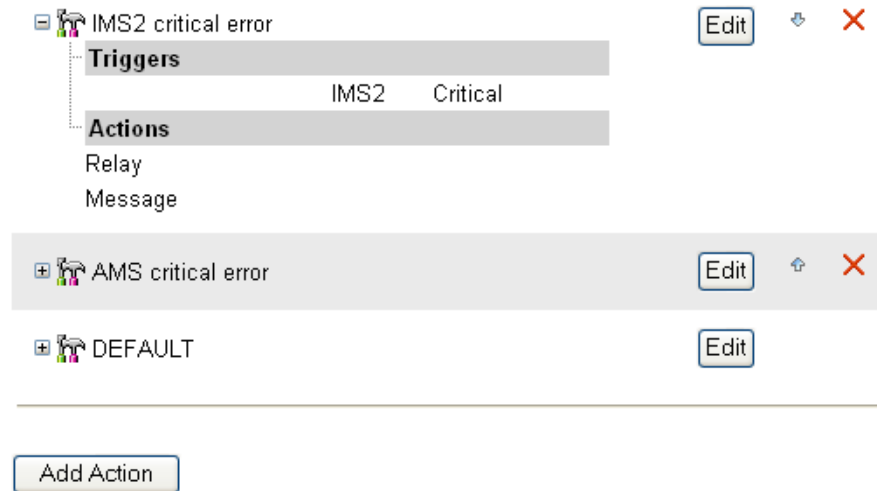


Figure 25. The action list with the IMS2/Unite CM critical error action in expanded mode.

The action has been saved and is now visible on the Fault Actions page and has the highest priority in the action list. The priority can be changed by using the arrows in the list.

The Fault Handler is now configured to light the lamp and to send a message when an IMS2/Unite CM critical error occurs.

The same procedure is done to create a new action that is triggered when the ESS/Unite CM shows a critical error, that is, the communication to the System 900 is lost. The ESS/Unite CM IP address (or module name or host name) is used as trigger condition. A message to a user in the DECT system is sent and the error relay is activated.

For more information and instruction about how an action is setup, see Installation and Operation Manual, Enhanced System Services (ESS), TD 92253GB, Installation and Operation Manual, Unite CM (ELISE2), TD 92718GB, or Installation and Operation Manual, Unite CM (ELISE3), TD 92735GB.

6 Related Documents

| | |
|---|------------|
| Installation and Operation Manual, Enhanced System Services (ESS) | TD 92253GB |
| Installation and Operation Manual, Unite CM (ELISE2) | TD 92718GB |
| Installation and Operation Manual, Unite CM (ELISE3) | TD 92735GB |
| System Description, Unite | TD 92243GB |
| System Planning, Unite | TD 92258GB |
| Data Sheet, Enhanced System Services (ESS) | TD 92250GB |
| Data Sheet, Unite CM (ELISE2) | TD 92719GB |
| Data Sheet, Unite Connectivity Manager, Unite CM (ELISE3) | TD 92739GB |
| Technical Product Manual DCT 1800-GAP | TD 92093GB |

7 Document History

| Version | Date | Description |
|---------|-------------------|---|
| A | 22 September 2004 | First version. |
| B | 24 January 2006 | Updated version. |
| C | 8 February 2007 | Updated version. |
| D | 22 December 2010 | <ul style="list-style-type: none">• Replaced IMS with IMS2 throughout.• Added Unite CM throughout.• Updated GUI references.• Added IMS2 and Unite CM versions in chapter 4 System Requirements on page 12. |