

Unite CM – Technical Intro

IMS3/UniteCM Settings

**IMS3 IP Address
Used for
messaging**

- **IMS3/UCM IP Address used for messaging**
 - Messaging can be handled in one IMS3/UCM from up to 20 DECT Masters
 - Device Management can be handled in one IMS3/UCM from several Masters, up to 10000 handsets
- **Service Discovery**
 - Broadcast is used to find a IMS3
 - Only for Device Management, SMS need a static IP

Ascom IP-DECT Base Station

Configuration | SMS | Device Management | Service Discovery | Status Log

General

LAN

IP

LDAP

DECT

VoIP

UNITE

Administration

Users

Device Overview

Traffic

Gateway

Backup

Update

Diagnostics

Reset

IP Address: 172.20.9.245

OK Cancel

**IMS3
IP Address
Used for central
management**

Status Log

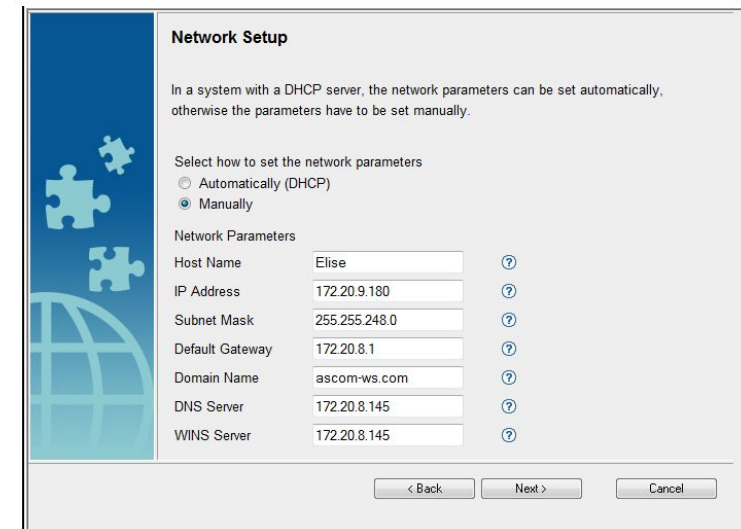
- Status Log can be distributed to the IMS3/UniteCM
- Configurable seriousness of the errors
- Level of the error:
 - Disabled
 - Information
 - Warning
 - Error, default
 - Critical
- Different fault actions can be taken depending on the level

IP-DECT Base Station					ascom
Configuration	SMS	Device Management	Service Discovery	Status Log	Module Fault List
General	Module Fault List				
LAN	Code	UNITE Code	Description	Persistent	Seriousness
IP	0x00010001	4-12-65537	Interface down (Gateway)	Yes	Critical
LDAP	0x00010002	4-12-65538	Registration down (Gateway)	Yes	Disabled Information
DECT	0x00010003	4-12-65539	Protocol error (Gateway)	No	Warning
VoIP	0x00030001	3-12-196609	The LDAP replicator is not connected (Users)	Yes	Error(default)
UNITE	0x00030101	4-12-196865	CPU resources are not available (Radio)	No	Critical
Central Phonebook	0x00030201	3-12-197121	Standby master active (Master)	Yes	Warning
Administration	0x00030202	4-12-197122	User registration failure (Master)	Yes	Error(default)
Users	0x00030203	4-12-197123	Emergency registration down (Master)	Yes	Error(default)
Device Overview	0x00030204	4-12-197124	Connection to radio lost (Master)	Yes	Error(default)
DECT Sync	0x00030205	4-12-197125	Primary/redundant trunk is down (Master)	Yes	Error(default)
Traffic	0x00030301	4-12-197377	Connection to mobility master lost (Mobility Master)	Yes	Error(default)
Gateway	0x00030302	4-12-197378	Cannot establish connection to mobility master (Mobility Master)	Yes	Error(default)
Backup	0x00030303	4-12-197379	Connection to master lost (Mobility Master)	Yes	Error(default)
Update	0x00030304	3-12-197380	Standby mobility master is active (Mobility Master)	Yes	Error(default)
Diagnostics					
Reset					
Debug					

Unite CM Setup Wizard Steps

- The Wizard starts automatically when you visit the Unite CM for the first time and guides you through the needed settings
 - As long as the Unite CM is not configured, the setup wizard will start when logging on from a web browser
 - Requires “admin” or “sysadmin” password

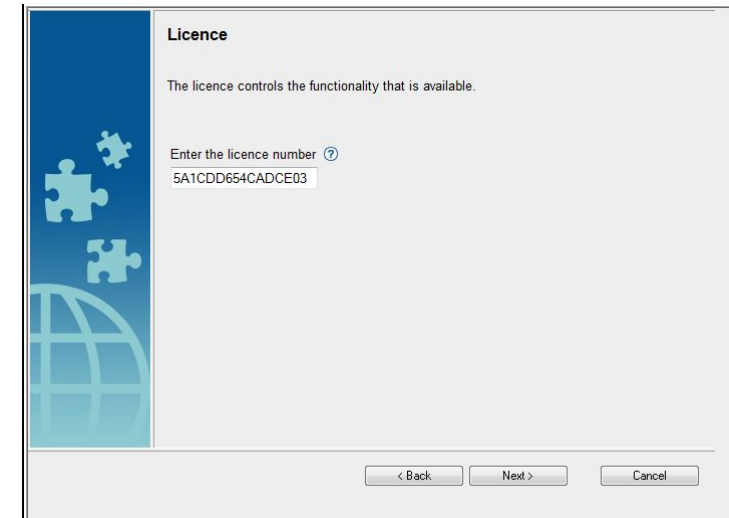
- Network setup
 - Can be set manually or via DHCP
 - A fixed IP-Address is recommended



Unite CM Setup Wizard Steps

- The licence determines the functionality e.g.
 - Number of Central Management users
 - 10 to 1000
 - Web Messaging, Basic or advanced
 - Alarm Manager
 - Protocol converter
 - Line
 - ESPA 444
 - Url
 - Open Access Protocol

- Select DECT System
 - Only WiFi select None



Licence

The licence controls the functionality that is available.

Enter the licence number [?](#)

5A1CDD654CADCE03

< Back Next > Cancel



DECT Phone System

Select DECT system

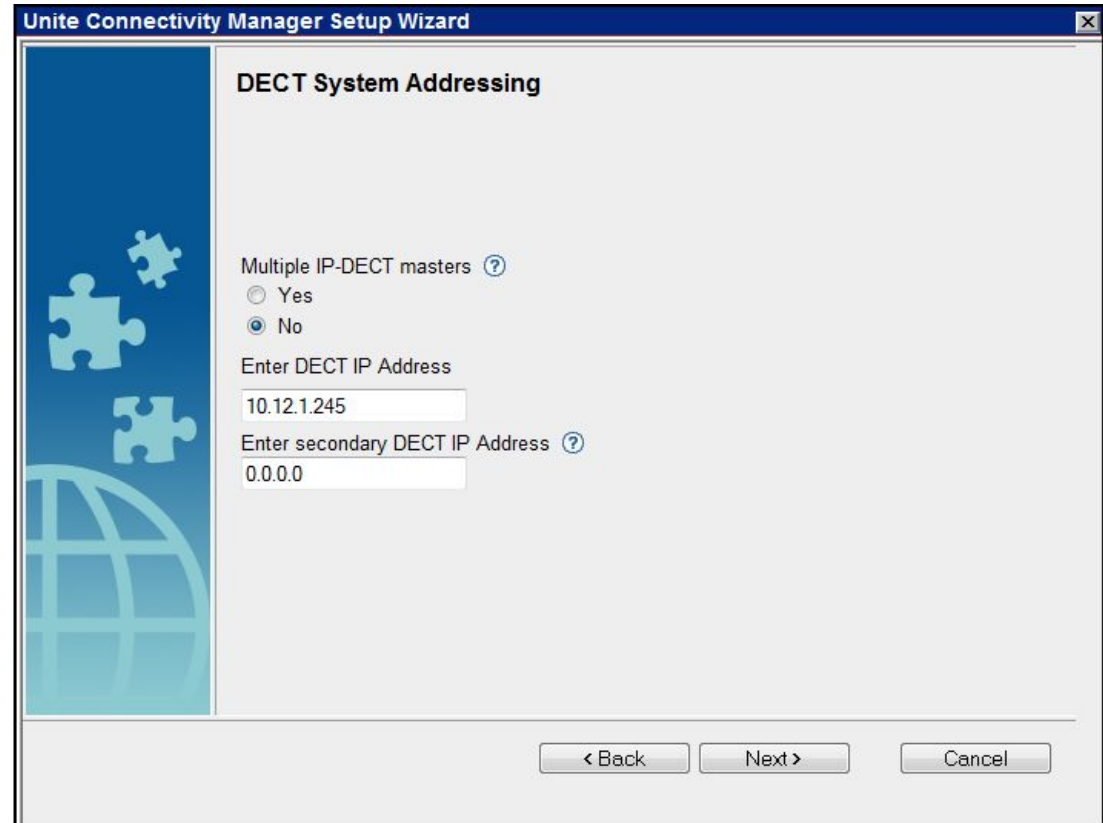
IP-DECT

- None
- BusinessPhone
- MD Evolution
- MX-ONE/MD110
- IP-DECT**
- DCT1800-GAP
- DCT1800-S
- Ascotel I6
- Omni PCX Enterprise
- EMN

< Back Next > Cancel

DECT System Addressing

- For a single Master system choose “No” and fill in the addresses to the Master and Standby Master
- For Multi Master system choose “Yes” and fill in the addresses to the Masters and Standby Masters in “Advanced Configuration”
 - Up to 20 Masters can be defined



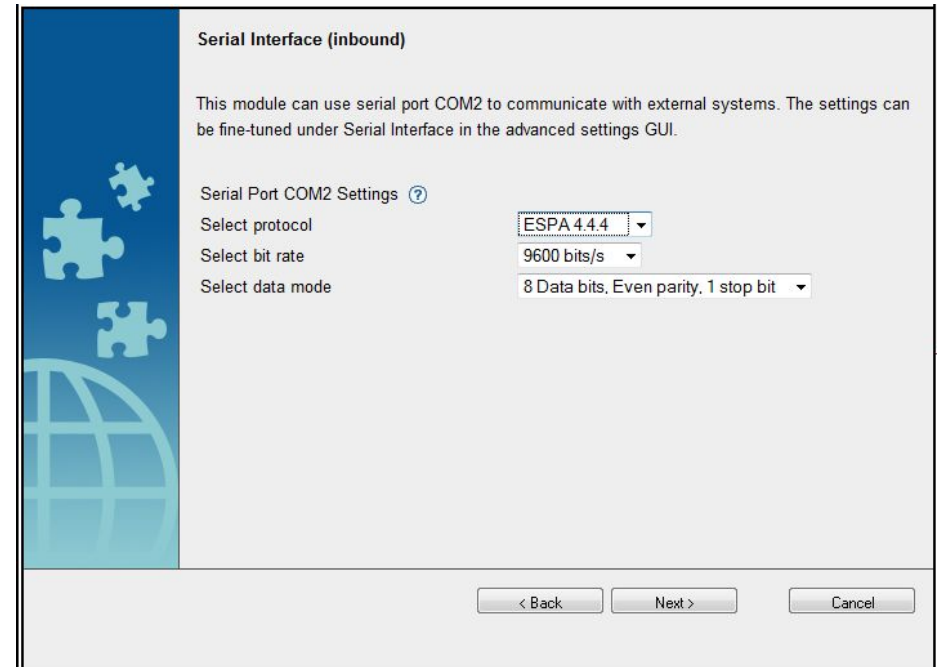
The screenshot shows the 'Unite Connectivity Manager Setup Wizard' window. The title bar reads 'Unite Connectivity Manager Setup Wizard'. The main content area is titled 'DECT System Addressing'. On the left side of the window, there is a blue vertical bar with a graphic of puzzle pieces and a globe. The main area contains the following options and input fields:

- Multiple IP-DECT masters** (with a help icon):
 - ☐ Yes
 - ☒ No
- Enter DECT IP Address**:
 - Input field containing: 10.12.1.245
- Enter secondary DECT IP Address** (with a help icon):
 - Input field containing: 0.0.0.0

At the bottom right of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

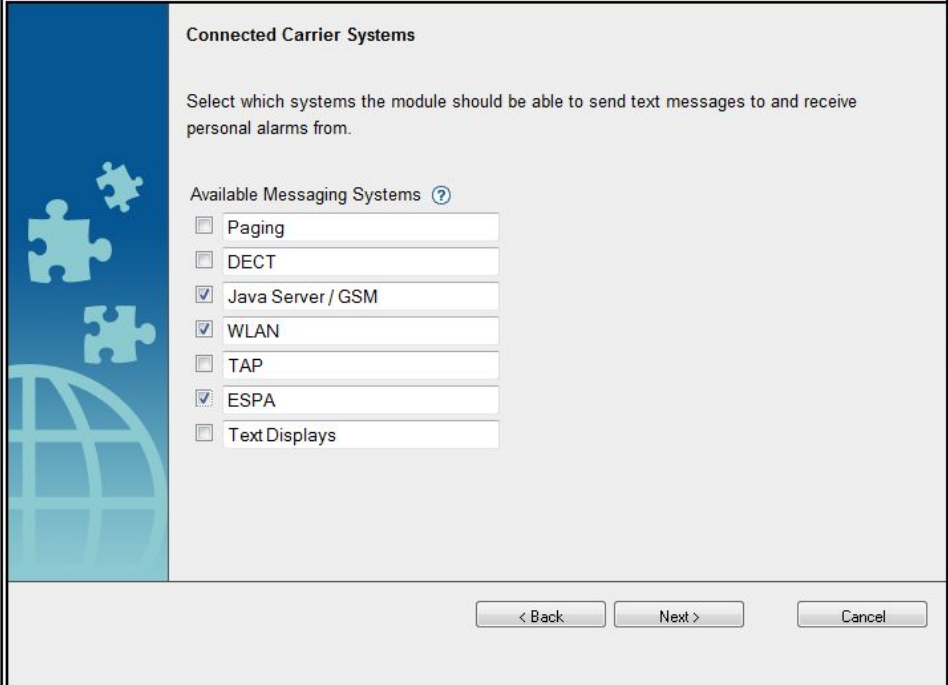
Unite CM Setup Wizard Steps

- This module can use serial port 2 to communicate with external systems
- Choose protocol ESPA 4.4.4, or Line Protocol
- The settings can be fine-tuned under Serial Interface in the advanced settings GUI



Unite CM Setup Wizard Steps

- Select Messaging Systems to be used



Connected Carrier Systems

Select which systems the module should be able to send text messages to and receive personal alarms from.

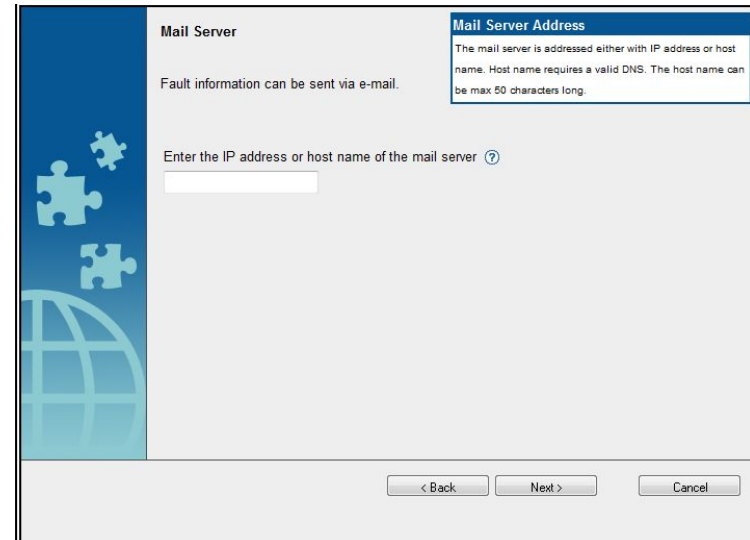
Available Messaging Systems [?](#)

<input type="checkbox"/>	Paging
<input type="checkbox"/>	DECT
<input checked="" type="checkbox"/>	Java Server / GSM
<input checked="" type="checkbox"/>	WLAN
<input type="checkbox"/>	TAP
<input checked="" type="checkbox"/>	ESPA
<input type="checkbox"/>	Text Displays

< Back Next > Cancel

Unite CM Setup Wizard Steps

- Faults can be sent as a e-mail
 - Enter a address of the mail server
-
- Date and time properties
 - For time stamps on activities
 - Can be set manually or via Time Server
 - NTP time is preferred



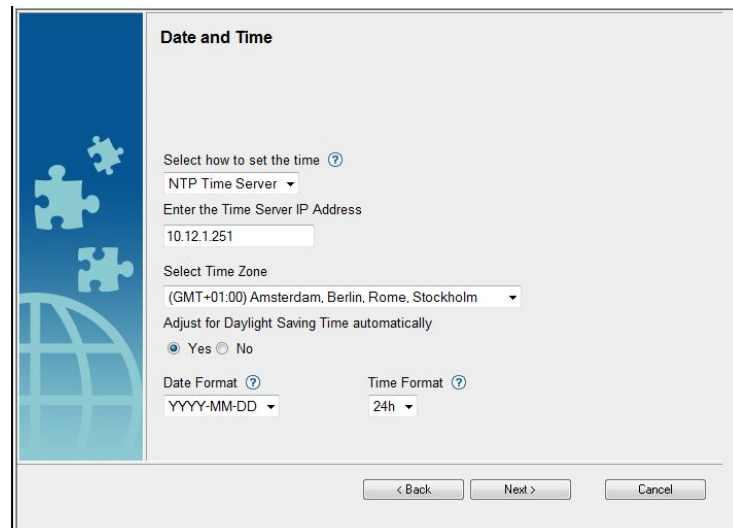
Mail Server

Fault information can be sent via e-mail.

Mail Server Address
The mail server is addressed either with IP address or host name. Host name requires a valid DNS. The host name can be max 50 characters long.

Enter the IP address or host name of the mail server ?

< Back Next > Cancel



Date and Time

Select how to set the time ?

NTP Time Server ▾

Enter the Time Server IP Address

10.12.1.251

Select Time Zone

(GMT+01:00) Amsterdam, Berlin, Rome, Stockholm ▾

Adjust for Daylight Saving Time automatically

☒ Yes ☐ No

Date Format ?

YYYY-MM-DD ▾

Time Format ?

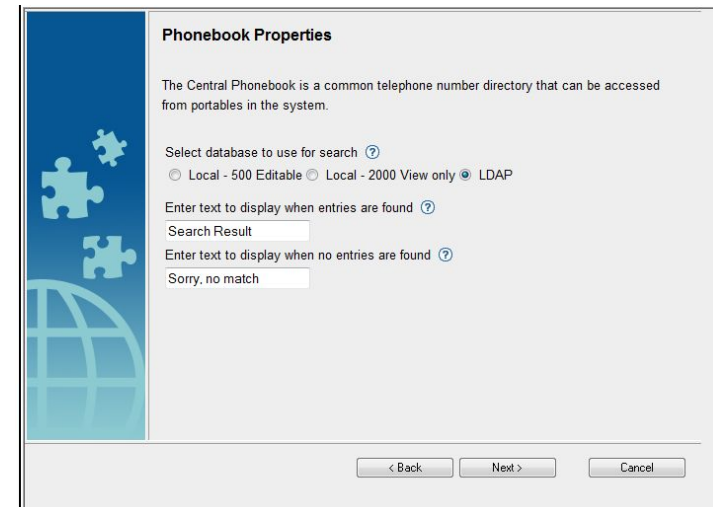
24h ▾

< Back Next > Cancel

Unite CM Setup Wizard Steps

- Phonebook properties
 - Database to use when searching
 - Local phonebook on Unite CM or a LDAP server
 - Local, 500 entry's can be added and edited via GUI
 - 2000 entry's can be uploaded to Unite CM but only view the entry's, edit not possible

- When choosing search in LDAP database the LDAP properties needs to be configured



Phonebook Properties

The Central Phonebook is a common telephone number directory that can be accessed from portables in the system.

Select database to use for search ?

☐ Local - 500 Editable ☐ Local - 2000 View only ☒ LDAP

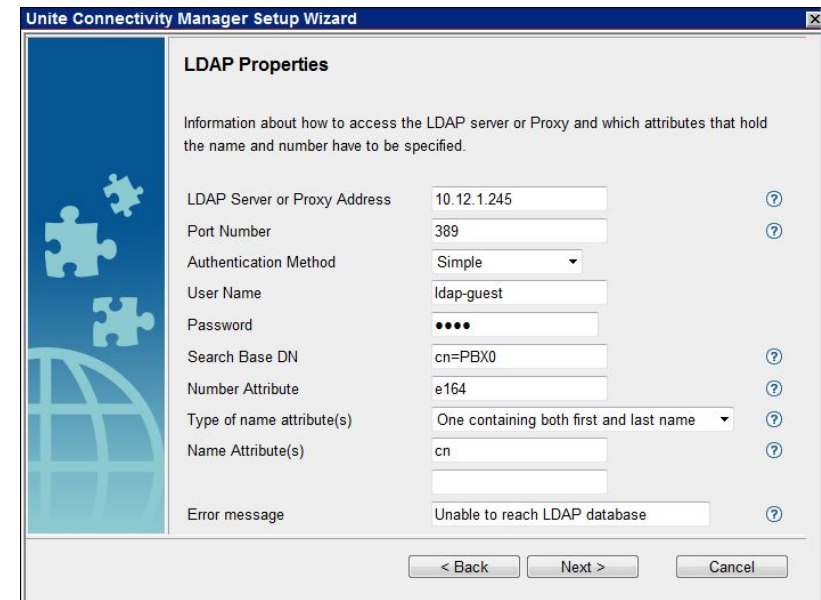
Enter text to display when entries are found ?

Search Result

Enter text to display when no entries are found ?

Sorry, no match

< Back Next > Cancel



Unite Connectivity Manager Setup Wizard

LDAP Properties

Information about how to access the LDAP server or Proxy and which attributes that hold the name and number have to be specified.

LDAP Server or Proxy Address: 10.12.1.245 ?

Port Number: 389 ?

Authentication Method: Simple

User Name: ldap-guest

Password:

Search Base DN: cn=PBX0 ?

Number Attribute: e164 ?

Type of name attribute(s): One containing both first and last name ?

Name Attribute(s): cn ?

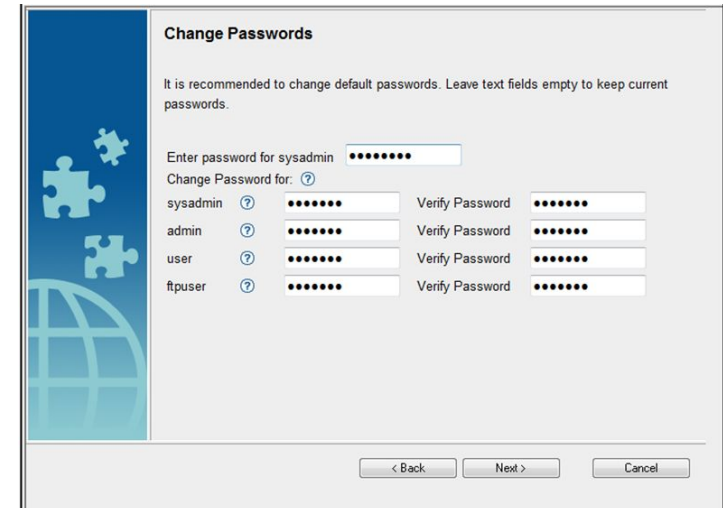
Error message: Unable to reach LDAP database ?

< Back Next > Cancel

Unite CM Setup Wizard Steps

- Passwords
 - Change from default to site specific passwords

- Wizard completed
- Unite CM restarts
 - Needed for changes to take effect



Change Passwords

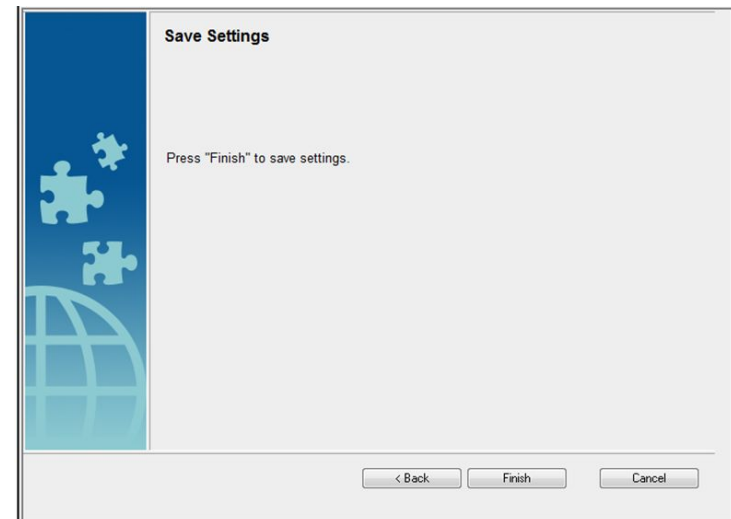
It is recommended to change default passwords. Leave text fields empty to keep current passwords.

Enter password for sysadmin

Change Password for: [?](#)

sysadmin ?	<input type="password" value="....."/>	Verify Password <input type="password" value="....."/>
admin ?	<input type="password" value="....."/>	Verify Password <input type="password" value="....."/>
user ?	<input type="password" value="....."/>	Verify Password <input type="password" value="....."/>
ftpuser ?	<input type="password" value="....."/>	Verify Password <input type="password" value="....."/>

< Back Next > Cancel



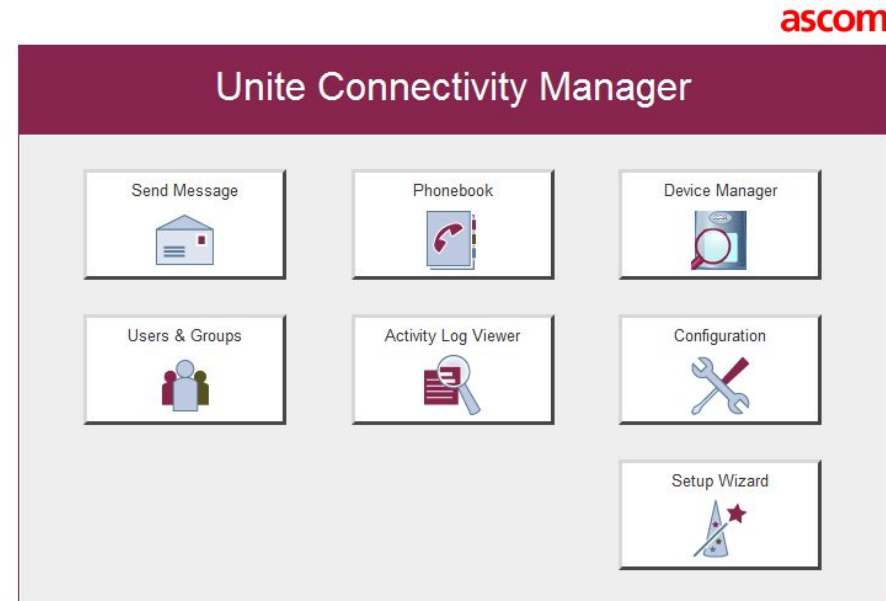
Save Settings

Press "Finish" to save settings.

< Back Finish Cancel

Unite CM start page

- Can be customized
- Send Message
 - “Net Page” let you send a message to a handset
- Phonebook
 - Management for central phonebook onboard UCM
- Device Manager
 - Centralized management of portables
- User & Groups
 - Administer users who are using messaging and alarms
- Activity Log Viewer
- Configuration
 - A link to the Unite CM Configuration Page
- Setup Wizard
 - Run the Setup Wizard again



Send Message



- Enables sending messages from web browsers
- Support for predefined messages and groups
- Progress indication
- Customisable user interface

NetPage

To: Call ID 1234 Add Use group Use predefined message Type: Manual ack. ▾

Receivers:

Message text:

Call me when you have time! 9466 /Peter

Delete Beep code: 2 beeps ▾ Priority: Normal ▾

Clear fields Send

Status on last message:

Message history

Call ID	Message text	Absent	Status

Erase

Administrate My Groups Common Groups My Messages Common Messages

Administration of Central Phonebook

- Edit the Central phonebook
- Import / Export from / to Excel files
 - *.csv format

Note!

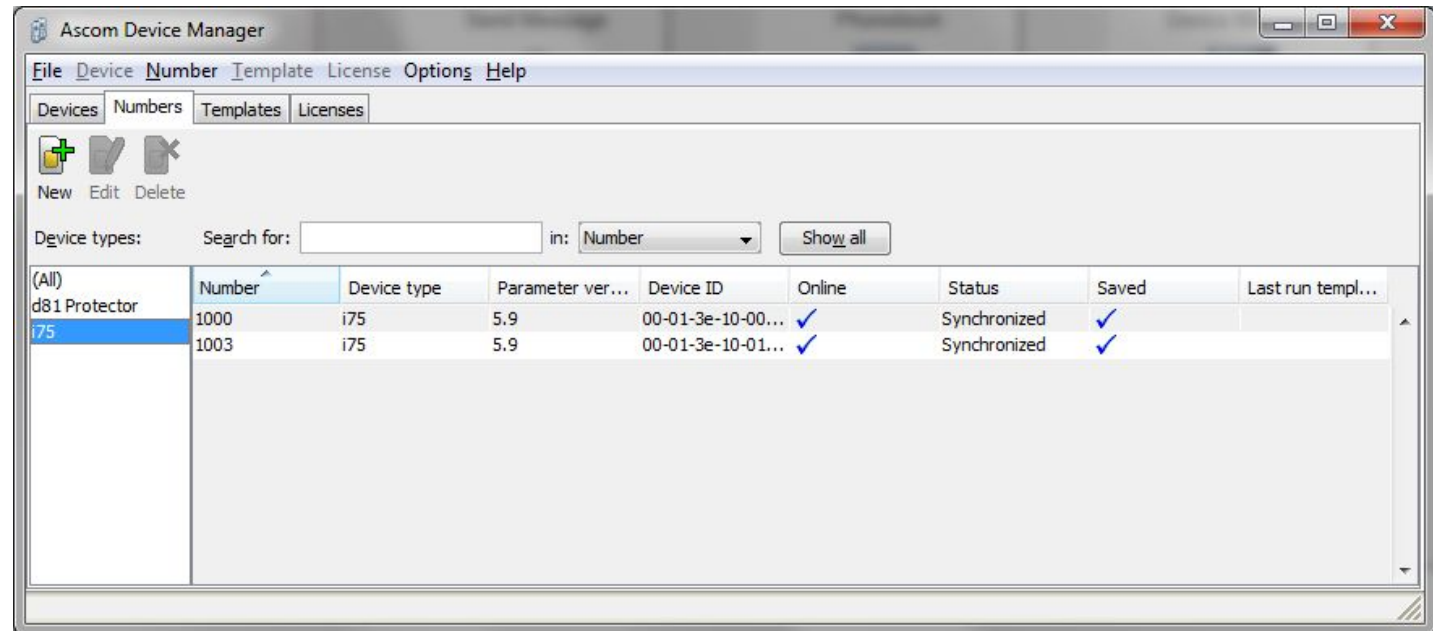
Not used if LDAP server is used for central phonebook

The screenshot shows the 'Unite Connectivity Manager Configuration' interface. At the top, there is a 'Phonebook' icon. Below it, a navigation bar contains a home icon (labeled 'Back to start page'), a configuration icon (labeled 'Back to configuration top page'), and a star icon (labeled 'Add the page to favourites'). The sidebar menu on the left includes 'Messaging Users', 'Phonebook' (selected), 'Edit', 'Import/Export', 'Alarm Handling', 'Fault Handling', 'Supervision', 'Activity Log', 'Status', 'Software', and 'Other Settings'. The main content area is titled 'Edit Central Phonebook' and contains a table with columns 'Last Name', 'First Name', and 'Number'. The table has one entry: 'Astrand', 'Peter', '9466'. Below the table are buttons for 'Add', 'Delete all', 'Save', and 'Cancel'. A 'Show Messaging Users' button is also present.

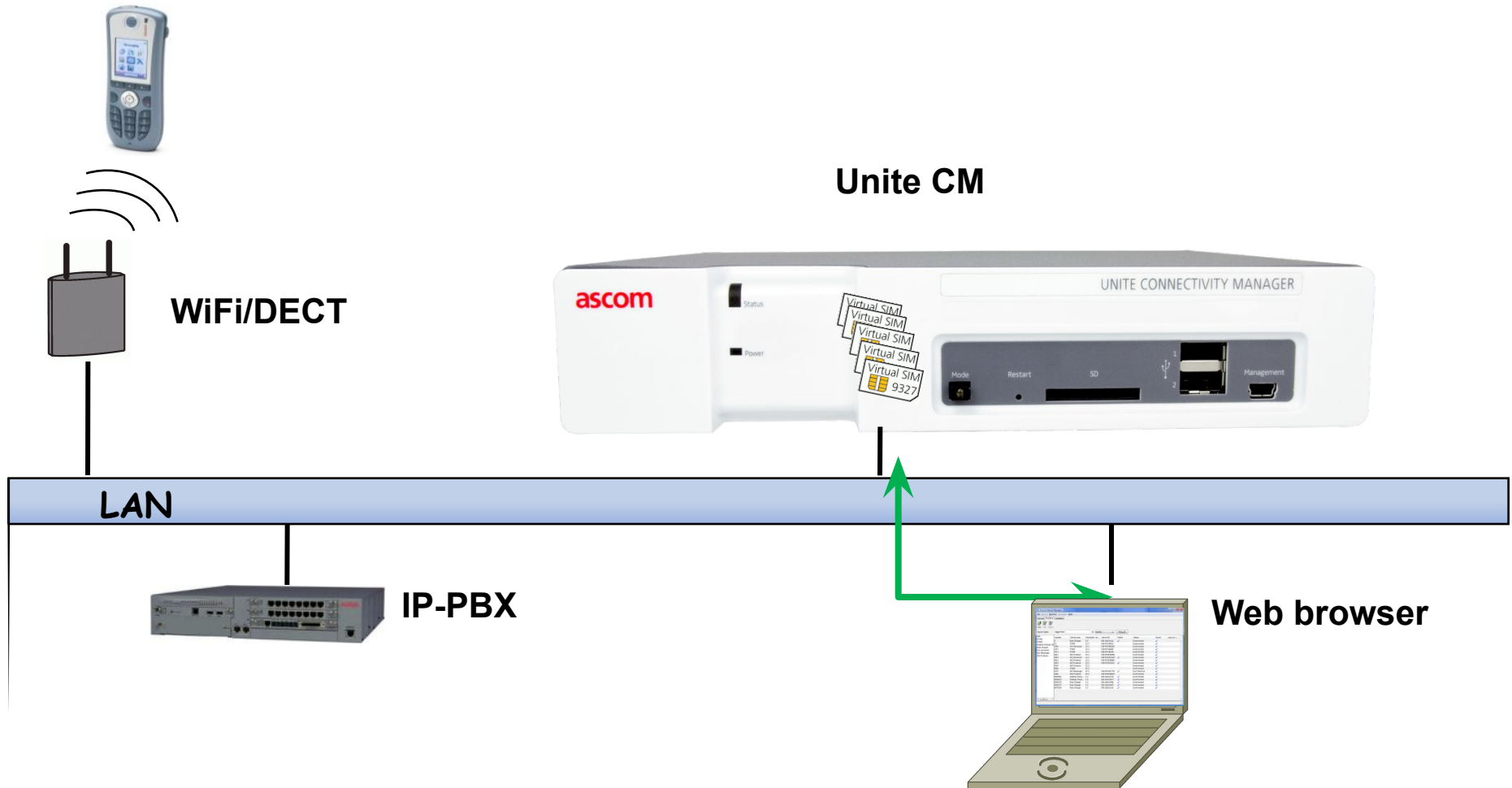
Last Name	First Name	Number
Astrand	Peter	9466

Device Manager over the air

- Central administration of handsets and chargers
 - Edit configuration
 - Update software



Overview Portable Device Management - OTA, Over The Air



Users and groups

- Administration of Users, portables and diversions
 - Up to 10 000 messaging users
- Before a handset can receive messages it must be defined here
- Administration of messaging groups
- Administration of User Teams
 - Authorization for Messaging and Log View rights



Unite Connectivity Manager Configuration

▼ Messaging Users

[Users](#)
[Groups](#)
[Teams](#)
[Import](#)

▼ Phonebook

▼ Alarm Handling

▼ Fault Handling

▼ Supervision

▼ Activity Log

▼ Status

▼ Software

▼ Other Settings

Users

Number of users: 4 / 1000

Last Name	First Name	Call ID	Number/Address → Category	Divert to Number/Address → Category	
a	a	1000	1000 → WLAN	1001 → WLAN	
b	b	1001	1001 → WLAN		
c	c	1002	1002 → WLAN		
d	d	1003	1003 → WLAN		

Add

Save

Activity Log Viewer



- Show and administer the Activity log
- Send the log as mail or to FTP

Activity Log Viewer - Windows Internet Explorer

http://10.12.1.254/salgui/activity_log_applet.php

Lock scrolling

	Time	Origin	Destination	Activity	Type	Information	Priority
	2010-11-16 18:16:57	1003	10.12.1.254	Alarm		3	
	2010-11-16 18:16:57	1003	10.12.1.254	Alarm		3	

Alarm

Alarm type: Push button alarm 1 (3)

Location:
 ID: 00:21:1b:eb:bc:50
 Type: WiFi access point location (8)

Origin:
 Call ID: 1003
 Unite Address: 1003@10.12.1.254/WLAN?00013e100164
 Time: 2010-11-16 18:16:57

Destination1:
 Unite Address: 10.12.1.254/OAP
 Time: 2010-11-16 18:16:57
 Status: OK (200)
 Log time: 2010-11-16 18:16:57

Done

Internet | Protected Mode: On

100%

Unite CM Configuration

■ Status

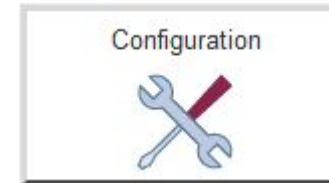
- Active faults
- Fault log
- Site Information
- List WLAN portables

■ Software

- Install new software
- Two versions can be installed

■ Other settings

- Language of the GUI
- Setup Inputs outputs
- Export and clear fault log
- Messaging carriers
- Backup / Restore configuration
- Demonstration mode (unlicensed mode)



Unite Connectivity Manager Configuration

WLAN Portables

2 portables were found

Remove IP Force Relogin Delete Selected Export Result

<input type="checkbox"/>	Address/Number	IP Address	Status	Last login	
<input type="checkbox"/>	1000	10.12.1.156	Available	2010-11-16 18:00:21	
<input type="checkbox"/>	1003	10.12.1.145	Available	2010-11-16 18:00:14	

[Active Faults](#)
[Fault Log](#)
[Site Information](#)
[WLAN Portables](#)
[Software](#)
[Other Settings](#)

Advanced Configuration

System Setup e.g.:

- Multi Master DECT System
 - Up to 20 Master can be defined here
- Security
 - https://
- WLAN System
- Remote Management
 - Possible to connect a modem for remote access

The screenshot shows the Ascom System Setup web interface. The top navigation bar has tabs for 'System Setup', 'Troubleshoot', 'Documents', and 'None'. The 'System Setup' tab is selected. The left sidebar contains a menu with the following items: Phonebook, Remote Management, Mail Server, OA/XML, Device Management, Web Messaging, Coloured Messaging, Event Handler, Input Interfaces, Serial Protocols, Output Interfaces, TAP, ESPA, Text Displays, DECT Interface, Interface Selection, General Settings, IP-DECT, Device Handling, Message Distribution, and Clear Absence List. The main content area is divided into two sections: 'IP-DECT' and 'WLAN System'. The 'IP-DECT' section shows a list of DECT interfaces. The first interface is 'Training Master 0 10.12.1.245', which is active. Below it, there are 19 more interfaces, all of which are 'NOT USED'. The 'WLAN System' section contains various configuration options. The 'Handset relogin time' is set to 60. The 'Call Diversion Display Text' is set to 'Disabled'. The 'Extended Activity Log' is set to 'Disabled'. The 'Authentication Method' is set to 'Common Password'. The 'Common Password' field is highlighted. The 'Allow Force Login (*)' is set to 'Enabled'. The 'External location server' is set to 'Disabled'. The 'External location server address' is empty. At the bottom of the 'WLAN System' section, there are 'Activate' and 'Cancel' buttons.

Advanced Configuration

Troubleshoot

- View log files
- System information
 - Overview of all running processes
 - Log file options
- Send a test message to a telephone
- IP Statistics
 - For destinations which messages are sent to
- Disk status
 - Status of the Compact Flash Card
- Module fault list
 - A list of all possible faults

Application Problem

Unite Connectivity Manager Advanced Configuration

System Setup Troubleshoot Documents

Troubleshoot

[View Info Log](#)
[View Error Log](#)
[View Complete Log](#)
[System Information](#)
[Send Test Message](#)
[IP Statistics](#)
[Module Fault List](#)

System Information

System status	
Module start cause	Restart
Mode	Normal, Error relay active
Status	Module error
Module Key Number	120653
MAC address	00-01-3e-01-d7-4d
Uptime	0 days and 0 hours
Internal power supply	Connected
External power supply	Disconnected
Charge external supply	N/A
Boot software version	1.10
Hardware type	Elise3
Time Synchronizer	Running
Web Server	Running
Schedule Server	Running
HostRouter	Running
Unite Name Server	Running
Supervisor	Running
Unite User Server	Running
Activity Logger	Running
Message Router	Running
System 900 Interface	Running
DECT Interface	Running-application problem (Error relay:)
WLAN Messaging Interface	Running
DECT Device Handler	Running
Device Manager	Running
OAP	Running
SMS Center	Running
Alarm Handler	Running
IO Handler	Running
Phonebook	Running
Serial-IP Server	Running
Remote Access Server	Running
Fault Handler	Running
Web Messaging	Running
Serial Interface	Running
Unite Node Assistant	Running
OAP	Running