

OpenMobility
SIP - DECT Solution

Installation & Administration
Compendium

Welcome to Aastra

Thank you for choosing this Aastra product. Our product meets the strictest requirements with regard to quality and design.

The following compendium will assist you in installing and configuring your SIP – DECT solution and provide answers to all your most important questions.

If you should require further technical support or information about other Aastra products, please contact the person responsible for your system or get in touch with your local dealer.

You can also find information about this device and other products on our website at <http://www.aastra.de> or <http://www.aastra.com>.

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Aastra OMM SIP – DECT 2.1 Solution

The Aastra OMM SIP – DECT 2.1 solution provides a professional DECT system that extends an existing SIP communications system (PABX). The OMM SIP – DECT 2.1 solution comprises up to 2,048 DECT base stations (RFP, “Radio Fixed Parts”) that form a DECT radio system. The RFPs and the SIP communications system are interconnected via an Ethernet/IP network that is used to transport the SIP/VoIP data streams as well as management data.

Within the DECT radio system, a single instance exists that controls all RFPs and manages communication streams: the OMM (OpenMobility Manager). For smaller DECT systems (1-256 RFPs), the OMM can be hosted on an RFP. A larger DECT system (256-2,048 RFPs) requires to host the OMM on a Linux-based PC server system.

About this Compendium

This compendium focuses system planners and system administrators who install, configure, and administer the Aastra OMM SIP – DECT 2.1 solution.

The necessary steps to set up the OMM SIP – DECT 2.1 solution differ substantially with the number of included RFPs as well as the number of added services. For this reason, this compendium offers separate parts:

- The first part concentrates on basics steps to set up a small system with an RFP-hosted OMM.
- The second part illustrates how to set up a large system that also taps the full potential of additional features.
- The third part describes how to configure additional services: Locating and Messaging.

The respective configuration steps are listed in short. Links to further and detailed information in the step-relevant documentation part (see next section) are quoted in the right column: **Manual, Guide: Chapter**.

Related Documentation

The OMM SIP – DECT 2.1 solution is described in a variety of documents:

- SIP – DECT: OM System Manual
Installation, Administration, and Maintenance
This manual is hereinafter denoted “OM System Manual”.
- SIP – DECT: Aastra 610d, 620d, 630d Messaging & Alerting Applications
User Guide
This user guide is hereinafter denoted “Aastra 600d IMA”.
- SIP – DECT: OM Integrated Messaging & Alerting Application
Installation, Administration & User Guide
This guide is hereinafter denoted “OM IMA Application”.
- SIP – DECT: OM Locating Application
Installation, Administration & User Guide
This guide is hereinafter denoted “OML Application”.
- SIP – DECT: OM Handset Sharing & Provisioning Installation & Administration
User Guide
This guide is hereinafter denoted “OM Provisioning”.

► **Example**
OM System Manual:
Licensing Mode

Abbreviations

The following OMM SIP 2.1 specific abbreviations are used in this compendium:

DECT	Digital Enhanced Cordless Telecommunication
GAP	Generic Access Profile
OM IMA	OM Integrated Messaging & Alerting service
OML	OM Locating application
OMM	OpenMobility Manager
OMP	OM Management Portal
PABX	Private Branch Exchange (i. e. communications system)
PP	Portable Part, handset
RFP	Radio Fixed Part, base station
SIP	Session Initiation Protocol
VoIP	Voice over IP

Scope of Delivery and Licenses

The OMM SIP 2.1 product delivery varies with your purchase. You typically receive the following components:

- License:
 - PARK number printed on the CD-ROM (“Built-in license” for up to 2 “L-RFP”) or
 - XML license file (“Activated built-in license” for up to 20 “L-RFP”) or
 - XML license file (“Standard license” for up to 2048 RFPs)
- RFP devices – DECT radio parts that provide DECT telephony and services:
 - RFP 32 IP / RFP L32 IP: DECT RFP as indoor model
 - RFP 34 IP / RFP L34 IP: DECT RFP as outdoor model
 - RFP 42 WLAN / RFP L42 WLAN: DECT RFP + WLAN Access Point (indoor)
- DECT handsets Aastra 610d/620d/630d
- OMM SIP 2.1 installation medium (“CD-ROM”) containing
 - Manuals in PDF format
 - RFP firmware file (“omm_ffsip.tftp”)
 - Aastra 610d/620d/630d firmware file (“aafon6xxd.dnld”)
 - PC OMM installation file (“omm_ffsip_install.bin”)
 - OpenMobility Configurator (Java tool, “OM_Configurator.jar”)
 - OM Configurator (Java tool, “OM_Configurator.jar”)
 - OM Management Portal (OMP Java tool, “OMP.jar”)
 - OM Locating application (TomCat archive, “OML.war”)

Note

You can test all features for a limited period of 72 hours by operating the OMM in demonstration mode. After this, you need to apply a license.

► *OM System Manual:
Licensing Model*

► *OM System Manual:
About the Radio Fixed Parts*

► *OM System Manual:
About the Portable Parts*

Small OMM SIP System

This chapter describes how to set up an OMM SIP 2.1 system with a smaller number of RFPs (1-256). This includes configuring an RFP-based OMM, a static IP configuration using the OM Configurator Java tool, and setting up basic DECT telephony service.

Prerequisites

You need the RFP devices as well as a number of DECT handsets – preferably Aastra 610d/620d/630d. For more than two RFPs, you should have received a license file and the OMM SIP 2.1 installation medium.

You also need a TFTP server in your LAN to host the firmware files. The TFTP server is not part of the OMM SIP – DECT 2.1 solution, hence you need to set up your own. Your company LAN should allow connections from the mounted RFPs to your SIP PABX.

Configure RFPs using the OM Configurator

The OMM SIP 2.1 installation medium includes the “OM_Configurator.jar” Java tool. To run this tool, you need a PC with the Sun/Oracle Java runtime environment installed. You configure the RFPs with the following basic steps.

1. Upload the RFP firmware file “omm_ffsip.tftp” to your TFTP server. Verify the TFTP function, e.g. enter “tftp -i 192.168.1.1 get /omm_ffsip.tftp” on the Windows command line.
2. Connect the RFPs to power and LAN. On your PC, double click the “OM_Configurator.jar” to start the **OpenMobility Configurator** Java tool.
3. Click the **Scan** button to find connected RFPs. Select one of the entries in the **RFP configuration list**. Activate the **Login** option and enter **User** and **Password** (“omm” / “omm” by factory default).
4. Click the **List configuration** button. Change the configuration to match your LAN, PABX and TFTP server configuration. Change the **Use local configuration** option to “yes” and configure **IP address**, **Net mask**, **TFTP server address**, and **TFTP file name**.
5. One of the RFPs needs to operate as OMM (“Open Mobility Manager”). Enter the IP address of the RFP you selected as OMM in the **OMM IP address** setting. Do not select an RFP 42 WLAN as OMM, otherwise you cannot activate the WLAN function for this device.
6. Optional: if you operate two or more RFPs, configure a second RFP as standby OMM. Click the **Add parameter** button, select the **2nd OMM IP address** entry, click the **Add** button and configure the **2nd OMM IP address**.
7. Click the **Send config.** button.

The RFP restarts. During startup, the RFP loads the “omm_ffsip.tftp” firmware file from your TFTP server. Watch the LEDs to verify the startup procedure.

Please note: If the RFP was operated within another OMM SIP 2.1 system previously, the user/password combination for the OM Configurator is changed accordingly. If you do not know the login secret, you need to contact the Aastra support for an unlock token to regain access.

► *OM System Manual:
Licensing Model*

► *OM System Manual:
Static Local Configuration of
an RFP*

► *OM System Manual:
OMM Standby*

► *OM System Manual:
RFP LED Status*

Set up RFPs and Basic Telephony

The RFP that operates as OMM offers two configuration methods: the OMM Web service that you can access with a web browser and the OMP Java tool. Use the OMM Web service for initial setup that includes the following basic steps.

1. Start a browser and navigate to the IP address of the OMM. Log in using the “omm/omm” default credentials. Accept the displayed license text. Change the password for the “Full access” and the “Root/SSH” accounts. Import the license file. Navigate to the **System: System settings** page. Change the **DECT: Regulatory domain** setting.
2. For the built-in license, configure the **PARK** code printed on the installation medium on the **System: System settings** page. If you have received a license file, import the file on the **Licenses** page.
3. Navigate to the **Radio fixed parts** page. Click the **Scan** button. Click the **Stop** button to view the list that should include the RFP running the OMM. Click on the **Configure** icon and activate the **DECT settings** option. Accept the default DECT cluster (“1”) by clicking **OK**. Repeat this step to configure all RFPs.
4. Navigate to the **System: SIP** page. Change the **Proxy server** and **Registrar server** settings to match your PABX. On the **Portable parts** page, create new portable parts with **Name, Number, DECT authentication code, and SIP authentication** settings.

Click on the **Start** button under **Wildcard subscription**. Start the subscription procedure on the DECT handset using the configured authentication code.

Tip: Even with a smaller OMM SIP 2.1 system, you can use more features, such as DECT XQ or SNMP. You may read on with the next chapter “Large OMM SIP System” or read the OM System Manual.

► *OM System Manual: Initial Setup*

► *OM System Manual: Licensing*

► *OM System Manual: “Radio fixed parts” Menu*

► *OM System Manual: “SIP” Menu; “Portable parts” Menu*

► *OM System Manual: Enhanced Feature Overview*

Large OMM SIP System

This chapter describes how to set up an OMM SIP 2.1 system with a very large number of RFPs (up to 2,048). This includes configuring 2 PC-based OMMs, a dynamic IP configuration of RFPs via DHCP, and a multi DECT cluster system deployed to several disparate buildings.

Prerequisites

You need two PC server systems, a larger number of RFP devices as well as a number of DECT handsets – preferably Aastra 610d/620d/630d. You should have received a license file and the OMM SIP 2.1 installation medium.

Your company LAN should allow connections from the mounted RFPs to your SIP PABX, preferably a switched network with a separate VLAN for SIP/VoIP.

Install OMM on PC Host

Install the OMM software on two dedicated i386 32-bit PC systems running Red Hat Enterprise Linux 5.4. While it is possible to operate the OMM software on various PC systems, only the recommended hardware/software configuration is supported by Aastra.

Tip: A brief explanation on how to set up “Red Hat Enterprise Linux Server 5.4” can also be found in the “OM Locating Application” guide in the “Installing Red Hat Enterprise Linux Server 5.4” chapter. In difference to this explanation, do not install the additional web server to prevent blocking port 80 that is required by the OMM software.

Please note: Choosing the right hardware, setting up and managing multiple Linux server systems, and integrating Linux servers in your company LAN/VLAN environment is beyond the scope of this compendium. You should at least read the “Red Hat Enterprise Linux 5 - Installation Guide” that is available on the Internet under <http://docs.redhat.com/docs/> URL.

One Linux server runs the primary OMM while the second Linux server takes over the OMM function in case of failure. On both Linux servers, install the OMM software with the following basic steps.

1. Copy the necessary “omm_ffsip_install.bin” file to the Linux server, either via the OMM SIP 2.1 product installation medium or via download.
2. Open the **System** menu and select the **Administration: Security and Firewall** command. Disable the firewall function.
3. Open the **Applications** menu and select the **Accessories: Terminal** command. Enter the “su” command to elevate your system access rights.
4. Enter “sh omm_ffsip_install.bin” to extract the installation files and to start the installation automatically.
5. Enter “nano /etc/sysconfig/omm_ffsip” to adapt the OMM configuration file. Remove the hash character and change the “OMM_RESILIENCY=” setting to the IP addresses of the primary and secondary OMM instances. Start the OMM with “/etc/init.d/omm_ffsip start” or reboot the PC.
6. Start a browser and navigate to the IP address of the OMM. Log in using the “omm/omm” default credentials. Accept the displayed license text. Change the password for the “Full access” and the “Root/SSH” accounts. Import the license file. Navigate to the **System: System settings** page. Change the **DECT: Regulatory domain** setting.

► *OM System Manual: 802.1Q Support*

► *OM System Manual: Installing OMM in Host Mode*

► *OM System Manual: OMM Standby*

► *OM System Manual: Installing the OMM Software*

► *OM System Manual: Configuring the Start Parameters*

► *OM System Manual: Initial Setup*

Set up RFPs

For a larger number of RFPs, a DHCP service that automatically configures RFPs is critical. The DHCP service sends the IP configuration, where to download the firmware file “omm_ffsip.tftp” via TFTP and the IP addresses of the OMMs to the starting RFPs. The TFTP and DHCP services are not part of the OMM SIP – DECT 2.1 solution, hence you need to set up your own.

Tip: The “OM System Manual” provides an example in the “Setting up DHCP / TFTP” chapter.

Your DHCP server configuration should include at least:

- an IP address range large enough to give all RFPs a separate IP address
- a rule to separate DHCP queries by vendor ID “OpenMob”
- DHCP answers containing IP, net mask, gateway, TFTP server IP, and boot file name
- option 224 with “OpenMobility” otherwise DHCP answers are ignored by RFPs
- option 43 with vendor option 10 (OMM IP) and vendor option 19 (2nd OMM IP)

After setting up the DHCP and TFTP service, connect at least all RFPs referenced in the license file to power and LAN. Navigate to the **Radio Fixed Parts** page of the OMM Web service. Verify the RFPs **Connected** status.

Tip: For a first test, click on the configuration icon of a connected RFP. Activate the **DECT settings** option. Accept the default **DECT cluster** number “1”. Confirm with **OK** to activate the RFP. Watch the RFP’s LEDs for a status indication.

The DECT cluster number groups RFPs that can be synchronized over-the-air. With synchronization, seamless handover of DECT handsets is possible. Use a different DECT cluster number for RFPs that are deployed e.g. to a different building where the distance does not allow over-the-air synchronization. Also configure one RFP per DECT cluster as the **Preferred synchronization source**, preferably an RFP that is located in the middle of the radio domain.

For a larger RFP deployment, you should prepare a list of RFPs, their names together with their MAC addresses. Also, a map or building plan that indicate the RFP mounting positions may be helpful. The list of RFPs in CSV format can be imported on the **Radio Fixed Parts** page of the OMM Web service. Exporting this list is only supported in the OMP Java tool.

Alternatively, you can use a de-centralized configuration method that utilizes configuration files directly queried by the RFPs during startup. This method primarily targets a PABX system that manages RFPs directly, but it is e.g. possible to use this method with script generated configuration files as well.

For a large OMM SIP 2.1 system, consider to define paging areas to limit the signaling required to locate a specific DECT handset in the network when a call is received.

Set up WLAN

Your OMM SIP 2.1 system may include a number of RFP 42 WLAN devices that offer also WLAN connectivity. To set up the WLAN function proceed as follows:

1. Navigate to the **System: System settings** page of the OMM Web service. Under **WLAN settings** configure the **Regulatory domain**.
2. On the **WLAN** page, create at least one **WLAN profile**.
3. On the **Radio fixed parts** page, assign the WLAN profile to the desired RFPs.

► *OM System Manual: DHCP Client*

► *OM System Manual: Creating and Changing RFPs*

► *OM System Manual: RFP LED Status*

► *OM System Manual: RFP Synchronization*

► *OM System Manual: RFP Export File Format*

► *OM System Manual: RFP Configuration Files*

► *OM System Manual: “Paging areas” Menu*

► *OM System Manual: Creating and Changing WLAN Profiles*

Subscribe DECT Handsets

To use the DECT telephony service, you need to subscribe a number of DECT handsets to the OMM SIP 2.1 system. Also, a number of user accounts needs to be created in order to login to the SIP accounts provided by the PABX system. Note, that you need to set the IP of the PABX system on the **System: SIP** page of the OMM Web service (**Proxy server** and **Registrar server** setting).

Different subscription methods exist as well as two different models to link DECT handset subscriptions to SIP user accounts:

- **Static subscription with wildcards:** On the **Portable parts** page of the OMM Web service, create a new portable part with **Name, Number, DECT authentication code**, and **SIP authentication** settings.

Click on the **Start** button under **Wildcard subscription**. Start the subscription procedure on the DECT handset using the authentication code within 2 minutes. This will create a static subscription, i. e. a DECT handset that is statically linked to number and SIP account.

- **Static subscription with IPEI:** when creating the portable parts entry, also enter the IPEI number of the DECT handset.

Click on the **Start** button under **Subscription with configured IPEIs**. Start the subscription procedure on the DECT handset using the authentication code within 24 hours. This will also create a static subscription.

- **Dynamic subscription:** Start the OMP Java tool and navigate to the **Portable parts: Users** page. Create a new user entry with **Name, Number**, and **SIP** settings. Navigate to the **System: System settings** page. Enable the **Auto-create on subscription** option and enter a **DECT authentication code**.

On the **Portable parts: Overview** page, enable the **Subscription** mode. Start the subscription procedure on the DECT handset using the authentication code. This will create a new DECT device entry, i. e. a DECT handset that can be dynamically linked to number and SIP account by means of a login/logout procedure.

- **Dynamic subscription with External User Data Provisioning:** while you need to manually subscribe the DECT handsets, the process of creating new user accounts can be automated by integrating external user data.

You can also enrol DECT handsets semi-automatically by importing a configuration file via OMM Web service or OMP Java tool.

The firmware for the Aastra 610d/620d/630d DECT handsets can be deployed automatically and over-the-air. On the **System: System settings** page of the OMM Web service, enable the **Downloading new firmware to portable parts** option for this.

Note

With an RFP-based OMM, you need to configure a download URL for the Aastra 6x0d firmware file ("aafon6xxd.dnld"). With a PC-based OMM, this firmware file is installed by the installation file on the PC's file system.

Tip: With a large OMM SIP 2.1 system, you will typically use more features, such as DECT XQ or SNMP. Also, the monitoring capabilities of the OMP Java tool help you to manage the radio network, e.g. the **Sync. view** or **Statistics** functions available below the **Monitoring: Radio fixed parts** menu.

► *OM System Manual: Creating and Changing PPs*

► *OM System Manual: Subscribing PPs*

► *OM Handset Sharing & Provisioning*

► *OM Handset Sharing & Provisioning: External User Data Provisioning*

► *OM System Manual: Importing PP Configuration Files*

► *OM System Manual: Download Over Air*

► *OM System Manual: Enhanced Feature Overview; OM Management Portal (OMP)*

OM IMA Application

This chapter describes how to configure the **OpenMobility Integrated Messaging & Alerting Application** service (in short “OM IMA” service). The OM IMA service supports the delivery of messages to or from DECT portable parts.

This includes:

- delivery of text messages to or from DECT handsets;
- delivery of special messages for vcards, jobs, and paging;
- handling of message confirmations;
- automatic generation of messages;
- alarm scenarios that define reactions on alarm triggers;
- escalating unanswered / unconfirmed alarm scenarios.

With these features, the OM IMA service forms a professional and comprehensive DECT messaging solution. The OM IMA service also provides an networked API (“Application Programming Interface”) that can be used to control messaging functions from an external messaging server. For example, the OM Locating application utilizes the API to send or receive messages.

Prerequisites

To activate the OM IMA service, you need the appropriate licenses. The application can also be started with the automatically applied demo license, which is valid for 72 hours.

To configure the OM IMA service, you need a TFTP, FTP, or HTTP server that provides a configuration file that is downloaded by the OMM. This server is not part of the OMM SIP – DECT 2.1 solution.

Activate the OM IMA Service

Activate the OM IMA service with the following steps:

1. Start a web browser and navigate to the OMM address.
2. Log in (**User name** and **Password** are “omm” / “omm” by factory default) and browse to the **System: System settings** page.
3. Below the **OM Integrated Messaging & Alerting service** heading, activate the **Active** option.
4. Activating the OM IMA service without any configuration file is sufficient for basic text messages and for the OM Locating application. To configure extended functions, you need to provide a configuration file. Enter the URL of the configuration file in the **URL** input field.

Further Information

Most features of the OM IMA service require that you create and deploy an XML-based configuration file. For some features, you need additional services in your LAN such as a POP3 e-mail server to provide an e-mail account that can be polled in order to send messages to DECT handsets.

To debug your custom configuration, and to start or stop the OM IMA service the OMM provides a console application.

Tip: The messaging API accepts XML (“OMI”) that is transported via TCP on two ports: either encrypted or unencrypted. If required, contact Aastra support for the XML specification.

► *OM IMA Application: Integrated Messaging & Alerting Application*

► *OM IMA Application: OM IMA Service Features*

► *OM IMA Application: Notes on Licences*

► *OM IMA Application: Activating the OM IMA Service*

► *OM IMA Application: Configuration File Reference*

► *OM IMA Application: OMM Console Login*

OM Locating Application

This chapter describes how to install and configure the Web-based **OpenMobility Locating** application (in short: “OM Locating application”). The OM Locating application is designed to manage SOS / ManDown calls (events), to locate the handset which triggered such a call, and to track the handset user’s movements. The application is equipped with messaging and alerting functions. These functions utilize the “OM Integrated Messaging & Alerting (OM IMA)” service, see also OM IMA Application on page 9.

Prerequisites

To use the OM Locating application, you need the appropriate licenses. The application can also be started with the automatically applied demo license, which is valid for 72 hours.

To operate the OM Locating application, you need the following components:

- OM Locating server to record all locating information provided by the OpenMobility Manager (OMM) and present them to the OM Locating clients.
- OM Locating clients (up to 10) provided with a Web browser to manage the locating information.

Additionally, you should configure the OMM settings for messaging, locating and event handling to ensure that the OM Locating application features work.

Install the OML Application

To install and run the OM Locating application on the OM Locating server, you need to setup a Sun/Oracle Java 1.6 runtime environment and the Apache Tomcat 5 server on a PC running “Red Hat Enterprise Linux Server 5.4”.

1. Install the “Red Hat Enterprise Linux Server 5.4” operating system on the dedicated OM Locating server. During installation of the operating system, you can also install the required “tomcat5” packages.
2. Install the Sun/Oracle Java 6 Runtime Environment. You can download it from the Web address “http://java.com”. Ensure to download the Linux version (RPM) of the “Java SE Runtime Environment (JRE)” (Version 1.6 entitled as “Version 6”) package. If you have not installed the Tomcat software within installation of the Red Hat operating system, you can make it up now.
3. Install the OM Locating application’s servlet. Copy the “OML.war” file from the OM Locating installation media to the “webapps” folder below the Apache Tomcat working directory.

Adding Site / Location Pictures

The OM Locating application’s user interface provides graphic views of the RFPs where a portable part is located. You can save pictures of the RFP installation sites to the “webapps/OML/images/locations/” directory of the Tomcat server running the OM Locating application. These pictures can e.g. base on the plant layout.

Start the OM Locating Application

1. On an OM Locating client call up a web browser and enter the OML address:
http://localhost:8080/OML/
 (when the browser runs on the PC which also runs the OML), or
http://192.168.1.1:8080/OML resp. **http://dns-name-of-pc:8080/OML**
 (when browser and OML run on different PCs in the LAN).

► *OML Application: OpenMobility Locating Application*

► *OML Application: Notes on Licences*

► *OML Application: Technical Data; Configuring the Workstation Computers*

► *OML Application: OMM Configuration Prerequisites*

► *OML Application: Installing Red Hat Enterprise Linux Server 5.4*

► *OML Application: Installing the OM Locating Application*

► *OML Application: Adding Site / Location Pictures*

2. Enter the OML **User name** and **Password**. Initial login data is: **admin** (default user) and **OpenMob** (default password).

Note

Cookies must be enabled in the used web browser. Otherwise the OML login can not be completed.

Configure the OMM Connection

1. Switch to the **Administration: OMM Configuration** menu (after initial login this menu is displayed automatically).
2. Enter the **User name** and the **Password** for the OMM "Full access" account type ("omm" / "omm" by factory default). In the **Address** field, enter the OMM IP address or OMM DNS name.

► OML Application:
Configuring the OMM
Connection

► OM System Manual:
Account Types

Configure the OML Users

1. Switch to the **Administration: Users** menu.
2. Create the OML accounts for new users or edit/change existing OML user accounts.

Note

Two different user groups can be assigned to the OML users: **users** for operators, **administrators** for users who are allowed to administer the OML configuration and the OML users (operators).

► OML Application:
Managing Users

Configure the Users' Portable Parts

1. Start the OMP. To do so, browse the OpenMobility installation media for a file named "OMP.jar". Right click the file and select the **Open with Sun Java 6 Runtime** menu item from the context menu.
2. Enter the **User name** and the **Password** for the OMM "Full access" account type. In the **Address** field, enter the OMM IP address or OMM DNS name.
3. Call up the **Portable Parts: Overview** page to enable the OM Locating features for the appropriate portable parts.
4. Select the desired portable part in the **Overview** table. In the portable part's details view switch to the **Locating** tab. Enable the **Tracking**, **Locatable**, and **Locating permission** options.
5. Repeat the previous step for all portable parts that should be monitored with the OM Locating application.

Notes

- A large number of portable parts can be imported by predefined PP configuration files. The import can be executed via the OMM Web service in the **Portable parts** menu.
- Aastra provides the Aastra 610d, Aastra 620d, Aastra 630d handsets for use with the OM Location application. These handsets support all application features.
- Aastra 142d and GAP handsets can also be used, but offer a limited feature set.

► OML Application:
Configuring the Portable
Parts

► OM System Manual:
Importing PP Configuration
Files; PP Configuration File
(OMM Database)

► Aastra 600d IMA

► OML Application:
Notes on GAP / Aastra 142d
Handsets

