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1 SOFTWARE IDENTIFICATION

1.1 CURRENT DELIVERY

The following software is part of SIP-DECT 6.1-AK25:

- iprfp2G.tftp: software for RFP 32 IP, RFP 34 IP, RFP 42 WLAN
- iprfp3G.dnld: software for RFP 35 IP, RFP 36 IP, RFP 37 IP and RFP 43 WLAN including the Mitel 600 DECT Phone family firmware package:
  - Mitel 6x0 DECT Phone firmware release 5.00.SP5
  - Mitel 6x2/650 DECT Phone firmware release 6.1.SP2
- SIP-DECT.bin: software for Linux Server based OM including the Mitel 600 DECT phone firmware
- OM Configurator 6.1-AK25 (OMC)
- OM Management Portal 6.1-AK25 (OMP)
- OM Locating 6.1-AK25 (OML)

<table>
<thead>
<tr>
<th>FILE</th>
<th>MD5SUM DIGEST (BINARY MODE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>iprfp2G.tftp</td>
<td>3d160b95262b57afc96e63ec8cdd37e4</td>
</tr>
<tr>
<td>iprfp3G.dnld</td>
<td>5a0e92c6d5dddae8ab6b370498a2d5757</td>
</tr>
<tr>
<td>SIP-DECT.bin</td>
<td>20e8ac3644f76cda956a98bea2d72db</td>
</tr>
<tr>
<td>OM_Configurator.jar</td>
<td>e294e56e463ccc26e898118c80e8c3f5</td>
</tr>
<tr>
<td>OMP.jar</td>
<td>0f797c4e8138fde77e9baad396cc1a43</td>
</tr>
<tr>
<td>OML.war</td>
<td>e08e73221276079e3f2bab1c3c1773</td>
</tr>
</tbody>
</table>

The SIP-DECT OM XML Application Interface of this delivery uses the protocol version 44.

1.2 LAST DELIVERY

- SIP – DECT Software Version 6.0SP1-AH17
- Mitel Handset Firmware Package including:
  - Mitel 6x0d firmware release 5.00.SP5
  - Mitel 6x2d/650c firmware release 6.0.SP1
2 WHAT’S NEW IN THIS RELEASE

The SW SIP-DECT 6.1-AK25 is the first SIP-DECT Release 6.1 software. Compared to SIP-DECT 6.0 this new release implements new features that are listed briefly in this chapter. For full details see the respective system manual:

2.1 SIP-DECT DUAL HOMING

SIP-DECT dual homing allows the synchronization of phone and user data between a central and up to 10 remote SIP-DECT systems. This provides additional features as:

- central user and device management
- local survivability if the WAN connection fails
- roaming between sites (device and user roaming, remote login/logout)

The “dual homing” feature synchronize all user and device data between connected OMMs. All other parameters such as RFP’s, licenses, SIP … must be configured per system.

Please be aware that the SIP-DECT Dual Homing feature requires specific configuration and setup of the PBX systems in use and that there are requirements relating to the infrastructure. Therefore please refer to the respective PBX documentation.

2.2 DECT FREQUENCY ENHANCEMENTS FOR CRUISE SHIPS

Additional DECT regulatory settings and the reduction of the DECT transmit power to 20dBm was added to support installations on cruise ships.

To support a wide range of countries the list of configurable domains was enhanced.

- New domain: Radio 1910-1927MHz with 250mW (via OMP + AXI only)
- Option to reduce output power to 100mW, independent of domain

RFP 3G and 600 DECT Phones adopt the regulatory settings based on the DECT system.
To adapt to 100mW if defined by the OMM, 602d Software 6.1 is required.

2.3 BLIND TRANSFER FAC

The MiVB’s proprietary signalization requires that the OMM initiates a SIP blind transfer to use some centralized features (e.g. to park an active call). The newly introduced Feature Access Code “Blind transfer” allows initiation of such a SIP blind transfer.

This new FAC force the integration of SIP-DECT with the Mitel platform MiVoice Business.

2.4 MIVB CENTRALIZED CONFERENCING

SIP-DECT supports an additional operational mode for conferencing called External - Blind Transfer to support the MiVoice Business centralized conferencing:

- None: neither external nor internal conference server is used.
- Integrated: the conference server integrated in SIP-DECT is used.
- External: an external conference server is used, e.g. Broadsoft or Sylantro.
- External - Blind Transfer: an external conference server is used, e.g. MiVoice Business. The initiation of the conference will be signalized as a blind transfer to a destination given by URL parameter.

The conference mode can be configured globally for all SIP-DECT users or for each user individually.

2.5 XML APPLICATION ENHANCEMENTS

With SIP-DECT release 6.1 the following additional predefined XML application hooks are available for the 600 DECT Phone family which can be put on a programmable keys or can be called from the menu.
2.6 MITEL 602D ENHANCEMENTS

The Mitel 602 DECT phones firmware 6.1 coming with SIP-DECT release 6.1 offers various new features which are configurable via Configuration over Air (CoA).

2.6.1 OVERWRITING LOCAL KEY PROGRAMMING

The following new configuration commands allow overwriting of manual key programming on Mitel 602 Phones:

```
UD_KeyAssignmentIdleMaster=
UD_KeyAssignmentDialMaster=
UD_KeyAssignmentAlertMaster=
UD_KeyAssignmentActiveMaster=
```

2.6.2 XML HOOKS

In correlation with the new XML hooks described above CoA supports the following new functions programmable on keys:

```
// functions available in ACTIVE state
"opt_park"      // Park call/Unpark call

// functions available in IDLE state
"pbx_unpark"    // Unpark call
"gappp_pickup"  // Pickup call
"pbx_take"      // Take call
"gappp_call_forward"  // Call diversion
"pbx_call_routing" // Call routing
"pbx_dnd"       // Call protection
"voice_box"     // Voice box
```
2.6.3 CONFIGURATION OVER AIR (COA) ENHANCEMENTS USING NEW VARIABLE LISTS FEATURE

This Configuration over Air (CoA) Enhancements utilizes a variable list to define numbers, feature codes and functions. This list when applied to the OMM allows the SIP-DECT administrator to create custom menus (e.g. with feature codes, etc) to the DECT phones if there is no PBX integration by XML applications available.

A variable list includes a number of list items, each of which can be executed in the usual way by selecting it. A list item consists of an item index (1..10) and either a number (to be dialed) or a function/feature that is supported by the handset. Other attributes of a list item are optional. If there is a FunctionID the entry will have no sub key line in the variable list. If there is a Number and a FunctionID the handset will execute the FunctionID if available otherwise it will dial the Number.

<table>
<thead>
<tr>
<th>ITEM ATTRIBUTE</th>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index</td>
<td>decimal number</td>
<td>index of list item (1..10)</td>
<td>7</td>
</tr>
<tr>
<td>Number</td>
<td>quoted UTF8-string</td>
<td>'number' to dial</td>
<td>&quot;x2312*777&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(use \x23 for # in your configuration file)</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>quoted UTF8-string</td>
<td>displayed text of item</td>
<td>&quot;My Voice Box&quot;</td>
</tr>
<tr>
<td>FunctionID</td>
<td>function-ID-string</td>
<td>function/feature to execute</td>
<td>pbx_directory</td>
</tr>
<tr>
<td>ShortName/Icon</td>
<td>quoted UTF8-string</td>
<td>displayed short name and/or icon</td>
<td>&quot;xEE808B VB&quot;</td>
</tr>
<tr>
<td>Handsfree</td>
<td>Boolean (&quot;&quot; or 1)</td>
<td>dial in hands-free-mode</td>
<td>1</td>
</tr>
<tr>
<td>VisibleSpecifier</td>
<td>4-digit-string of '0' or '1'</td>
<td>item visible in idle-, dial-, alerting- and active-state</td>
<td>1000</td>
</tr>
</tbody>
</table>

Please refer to the SIP-DECT 6.1 Installation and Maintenance Training course for additional information on how to implement the Variable Lists feature using Mitel provided Configuration Over Air (CoA) default templates.

2.7 “SIPPROXY” PLACEHOLDER FEATURE FOR LDAP DIRECTORY

Using SIPProxy in the LDAP directory settings means that the OMM directs LDAP queries to the proxy server that the DECT user is currently registered to. This ensures that the LDAP service follows the current active primary, secondary or tertiary SIP proxy server.
2.8 USER AGENT INFO

If the *User agent info* option is enabled, the OMM sends version information inside the SIP User-Agent/Server headers. With SIP-DECT 6.1 the version info includes the Mitel branding.

```
User-Agent: Mitel SIP-DECT (SW-Version=6.1-AK25)
```

The new configuration parameter *User agent info – compatibility mode* ensures backward compatibility with version information used in SIP-DECT 6.0 and earlier. If enabled the old version style will be used.
3 ADDITIONAL INFORMATION

3.1 KNOWN ISSUES

OM Locating (OML):

After clicking on a thumbnail image in the window which lists the installed video cameras, a separate window opens that displays the corresponding video images. If this window is closed, the corresponding video stream from OMM is not correctly closed. Workaround: log out of OML, close the browser tab, open a new tab and login again.

3.2 OMM LINUX SERVER

With SIP-DECT® 3.0, the OMM and OML server must run on Red Hat® Enterprise Linux® 6. As of SIP-DECT® 5.0 also, CentOS 6 and Virtualized environments are also supported. The installation and requirements are described in the SIP-DECT® OM System manual and in the Knowledge Base article “KB OMM Linux Server Installation”.

When updating from SIP-DECT® 2.1 with RHEL 5.4, we recommend updating (reinstall) the Linux OS.

SIP-DECT 6.1 has been tested with CentOS 6.5 and 6.7.

3.3 RESTRICTIONS

There are no restrictions known in this release.

3.4 USAGE HINTS

- The database built with this release is not backward compatible with older releases. A downgrade to an older release or release version requires a database matching the older version. Before upgrading the SIP-DECT software a database backup is strongly recommended.
- DECT phones that are subscribed using SIP-DECT 6.1 need a re-subscription after downgrade to SIP-DECT 6.0 or older.
- An upgrade from release 6.0 to 6.1 requires a restart of the entire SIP-DECT system.

To upgrade RFP-OMM installations with activated “standby” feature:
  - put the 6.1 RFP software on the configured file server
  - configure the concurrent (all at once) update mode
  - click the Update button

To upgrade Linux x86 server installations with activated “standby” feature:
  - put the 6.1 RFP software on the configured file server
  - update the standby OMM and start the OMM service, wait 30 seconds
  - update the active OMM, wait 30 seconds, start the OMM service
For a detailed description, see “SIP-DECT® Knowledge Base: SIP-DECT® System Update”.

- Only software upgrades from the preceding two releases are tested for upgrade to the current release. Additional steps may be required to upgrade systems with software that is three or more releases behind the current release. The following upgrades have been tested:
  - SIP-DECT 6.0 to 6.1-AK25
  - SIP-DECT 5.0SP2 to 6.1-AK25

- An update from SIP-DECT 3.0 to 6.1 requires an intermediate upgrade to SIP-DECT 4.0 or SIP-DECT 5.0. Without the intermediate upgrade the PARK and the related DECT subscription of all phones could be lost.

- The upgrade from releases before 3.0 may require an intermediate upgrade to 3.0. Please follow the instructions in the appropriate release notes for previous releases.

- Integrated Conference Server (ICS) SIP Ports changed to 4060/4061 so this might require a change in the firewall configuration e.g. if the OMM is running on a Linux server.

- SIP-DECT 5.0 introduced a new license file format and mechanism. This requires an update to 5.0 or later before importing a 5.0 license file.

- A license for SIP-DECT 5.0 or later cannot be imported into SIP-DECT 4.0 or previous releases.

- OM Locating (OML):
  - Starting with OMM 4.0SP5, the location of the OM Locating data files has changed to "/var/lib/OML/". Make sure that this directory exists and is owned by user "tomcat" and group "tomcat". Copy any existing files from "/var/cache/tomcat6/work/OML/" to this new directory. For details see the OML installation manual.

- The OM Management Portal (OMP) and the OM Configurator (OMC) requires Java Runtime environment version 1.7 or higher.

- OMM Web service system page:
  - The value ‘US (FCC/CI)’ for the selection of the ‘Regulatory Domain’ is only valid with FCC compliant RFP32/34 NAs’.

- The browser used for service access must have frame support, JavaScript and cookies enabled.

- When upgrading or downgrading the SIP-DECT software, delete the cookies and the cache in your browser after the upgrade / downgrade and before connecting with the new OpenMobility Manager (OMM). Otherwise the OMM Web service may be locked.
3.5 FURTHER READING

OpenMobility Manager Application XML Interface
available via MSA

SIP-DECT® XML Terminal Interface For A600d/c DECT phones
available via MSA

SIP-DECT 6.1 Documentation Set
including
  • SIP-DECT OM System Manual, Release 6.1
  • SIP-DECT Phone Synchronization; Engineering Guidelines; Release 6.1
  • SIP-DECT Knowledge Base: OMM Linux Server Installation
  • SIP-DECT Knowledge Base: SIP-DECT System Update
4 CORRECTIONS BETWEEN SIP-DECT 6.0SP1 AND 6.1

CUS-16544: DECT phones did unsubscribe after upgrade to SIP-DECT 6.0
CUS-16600: XML Directory via Web Interface doesn't allow more than one Parameters in URL
CUS-16682: OMM crashes on XML-APPLICATION usage
CUS-16771: User logout in Dansk loget af instead of logget af (missing "g")
CUS-16778: OMM crashes with wrong syntax in XML application
CUS-16779: OMM crashes with missing AastralIPPhone closing item
CUS-17038: Automated Database export creates an invalid URL if no subfolder is set
CUS-17019: RCS URL with credentials is not applied to OMM configuration
CUS-17063: Manual PARK import via Webs do not work with IE
CUS-17163: Changing username block OMCFG and ssh access
CUS-17167: OMP shows and exports only 20 MAC Addresses in WLAN filter
CUS-17169: WLAN Profile SSID3 Configuration lost on new entry to the mac access filter list
CUS-17185: AXI EventPositionInfo is missing when phone is out of range

Various smaller fixes and improvements