

6970 IP Conference Phone Implementing with MiVoice 5000

01/2020

AMT/PTD/PBX/0174/0/2/EN

INSTALLATION MANUAL



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1 REFERENCE DOCUMENTS

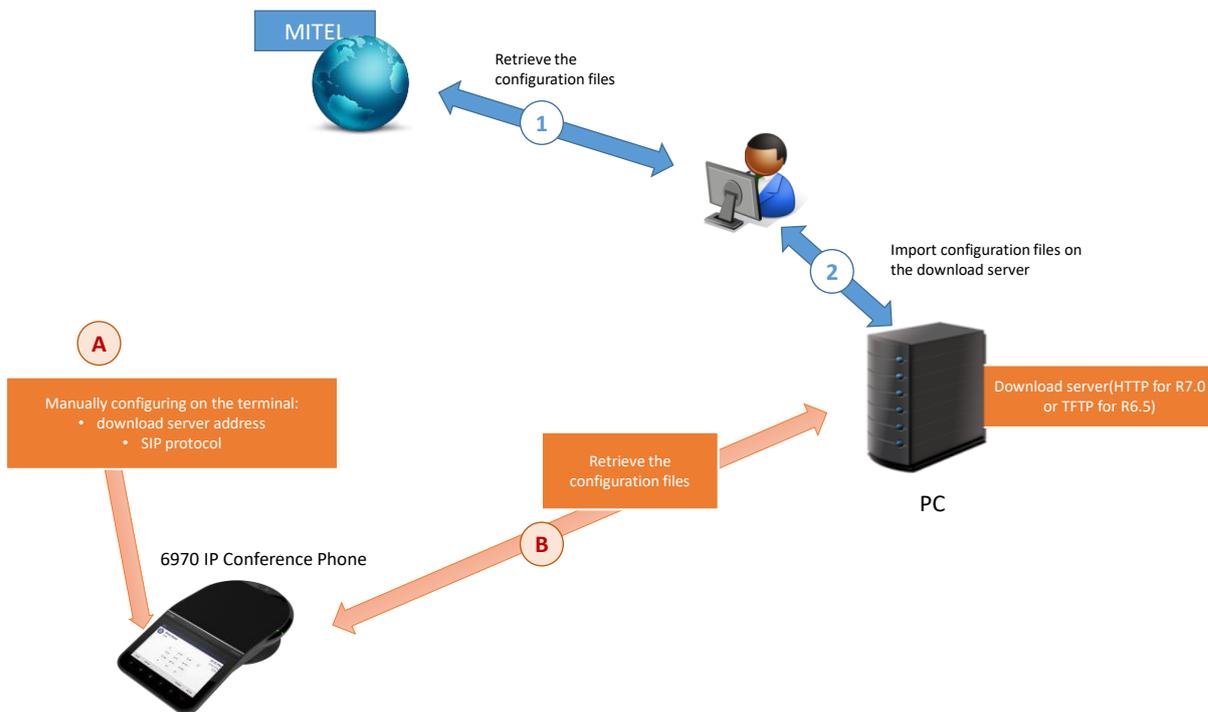
2 INTRODUCTION

For the deployment of 6970 IP Conference Phone via configuration file with MiVoice 5000 or Mitel 5000 Gateway, the recommended solution is to use a dedicated download server (http in R7.0 or TFTP in R6.5) to upload the configuration files.



IMPORTANT NOTE: It is not advisable to use an integrated or external DHCP server to indicate the download server address in the current version. Contact Mitel Support for more information.

Deployment principle



1 and 2: Preliminary steps to retrieve the configuration files, SIP software and firmware and drop them on a download server

A and B: Manually configuring the download server address on the terminal and connecting the terminal to this server in order to upgrade the Minet protocol to SIP protocol and configure the terminal.

- Files to be placed in the download area:
- **6970.st** (SIP software and firmware),
- **aastra.cfg** (generic configuration),
- Specific model file **6970.cfg** to be adapted so as to allow the following functions:
 - Directory
 - Hold
 - Key programming
 - DTMF
- The **Languages** file (compressed .zip files).

3 DEPLOYMENT IN R7.0

For a new phone, the first deployment phase must include upgrading the MiNet software to a SIP configuration (firmware and software) that can be used by MiVoice 5000.

This is integrated and described in the procedure.

3.1 PREREQUISITES

The above-mentioned files must first be copied to the dedicated directory of the download server (see Paragraph 4.2).

3.2 INSTALLING CONFIGURATION FILES ON A DOWNLOAD SERVER

3.2.1 USING THE INTEGRATED DOWNLOAD SERVER

In R7.0, the terminals can be downloaded using the integrated directory dedicated to the deployment of A5000 Server:

From Webadmin:

- Select Menu **System>Software maintenance>Downloading of files.**
- Select the **Terminal areas** tab.
- From the drop-down list in the **Download area** field, select **Deployment.**
- In the drop-down list in the **Action** field select **Add file.**
- Click **Browse** to select the directory containing the configuration files.
- Click **Download.**

The files are downloaded and added to the list of terminal software.

Terminal 6970 then downloads these files during the deployment phase.

3.3 PROCEDURE

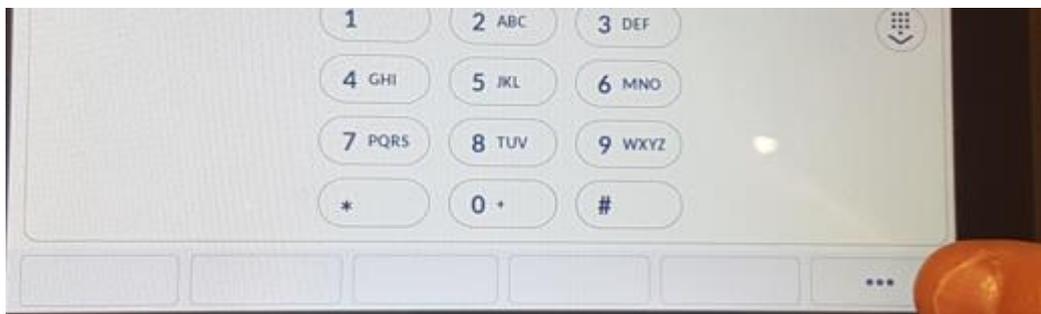
- Connect Terminal 6970 to the network.
- Wait for the start-up phase.
- The terminal automatically searches for a DHCP server.
- An IP address is returned to the terminal.

On the terminal use the touch keys to:

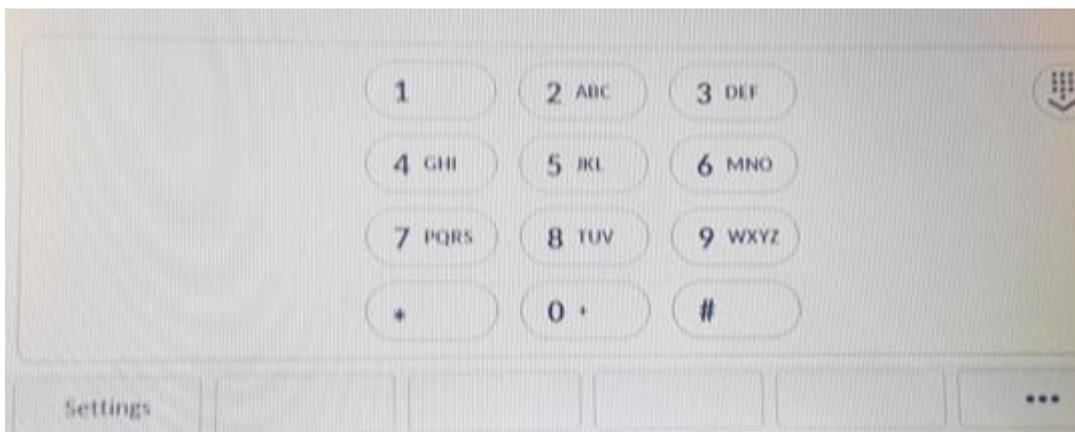
- Select the **Dial** icon.



- Select the ... key.



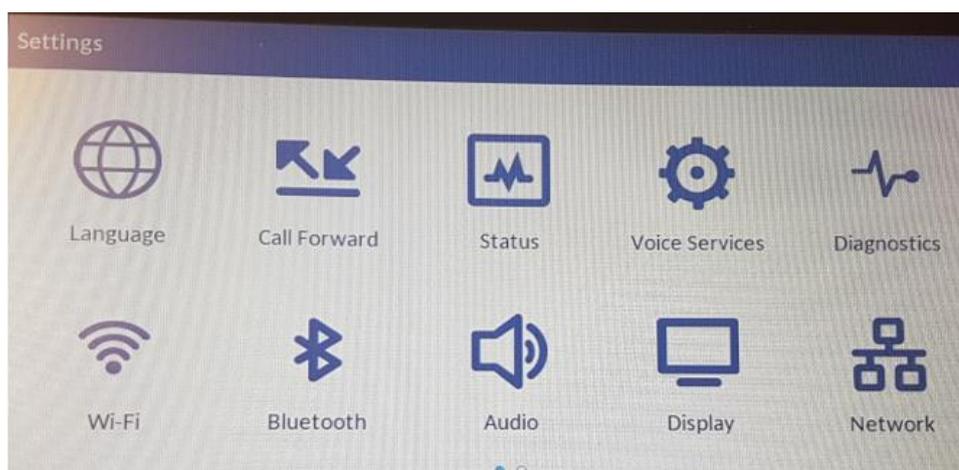
- Select the **Settings** key.



- Select the **Advanced** key.
- Enter the default password in MiNet configuration: **73738** ("reset" in figures).
- Press **Return** .

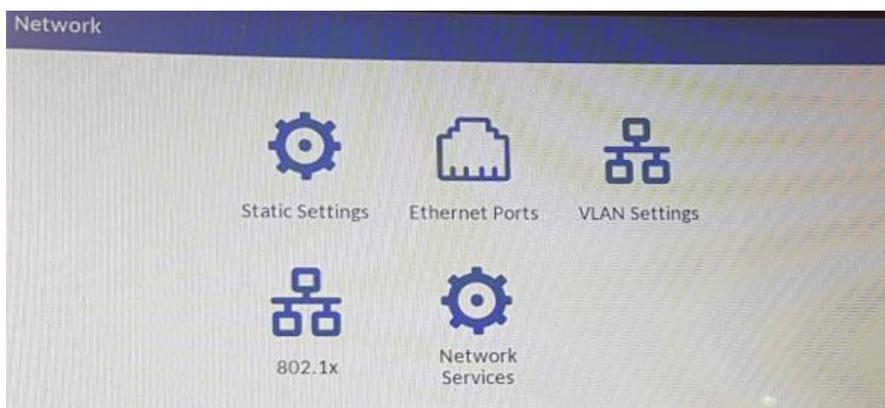
The **Settings** screen is displayed.

- Select the **Network** icon.



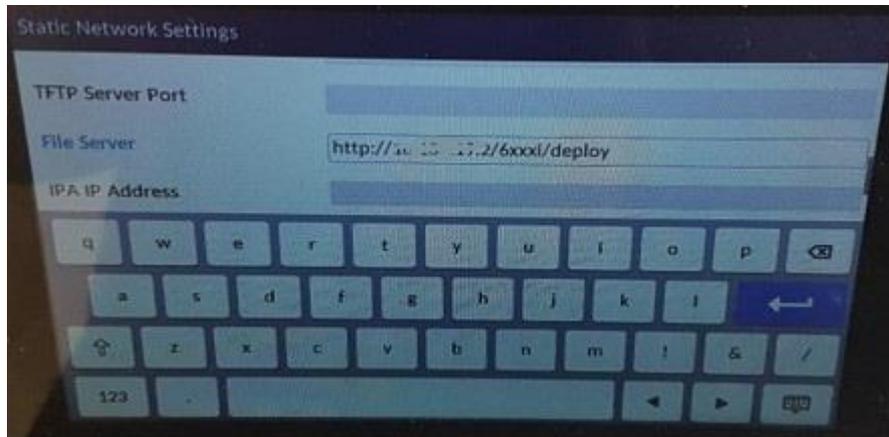
The **Network** screen is displayed.

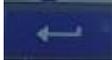
- Select the **Static Settings** icon.



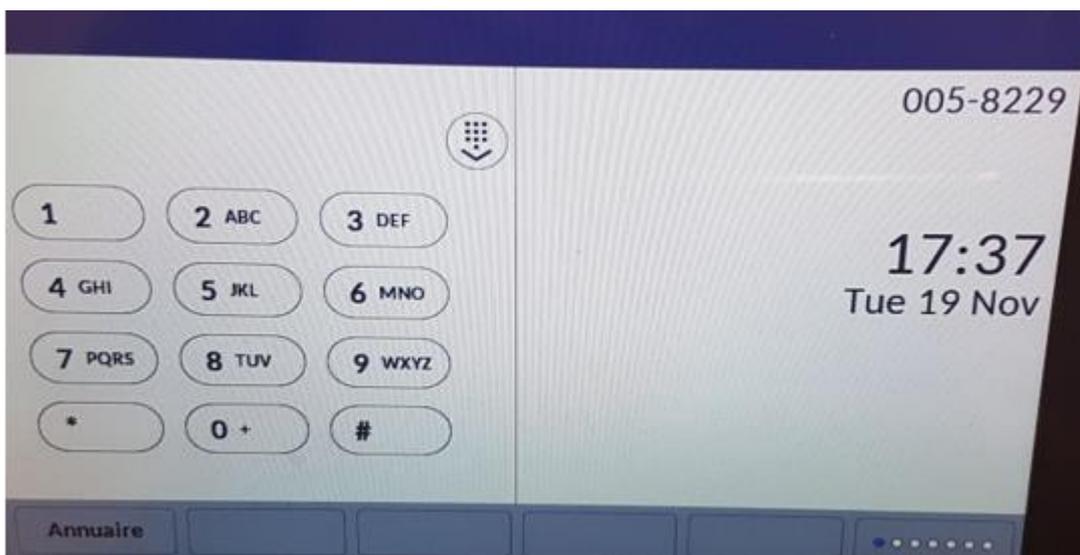
The **Static Network Settings** screen is displayed.

- Scroll through the list at the top of the screen up to the **File Server** field.
- In this field, use the keyboard to enter the URI of the deployment directory in the form <http://@IPdownload server/6xxxi/deploy>



- Press **Return** .
- Press the **Keyboard**  key.
- Press **Save**.
- Press **Close**.
- Press the **Settings** key again.

- Press the **Restart**  icon to download the configuration files.
- Terminal 6970 then automatically downloads the configuration files from the download server.
- After downloading, the terminal starts working and behaves like a SIP terminal.



4 DEPLOYMENT IN R6.5

For a new terminal, the first deployment phase must include upgrading the MiNet software to a SIP configuration (firmware and software) that can be used by MiVoice 5000.

This is integrated and described in the procedure.

4.1 PREREQUISITES

The above-mentioned files must first be copied to the dedicated directory of the download server.

4.2 INSTALLING CONFIGURATION FILES ON A DOWNLOAD SERVER

4.2.1 USING AN EXTERNAL TFTP SERVER

On the machine on which the external TFTP server is installed, copy the above-mentioned configuration files to the directory dedicated to terminal downloading.

Then configure the terminal so it points to the directory in which the configuration files are located.

4.3 PROCEDURE

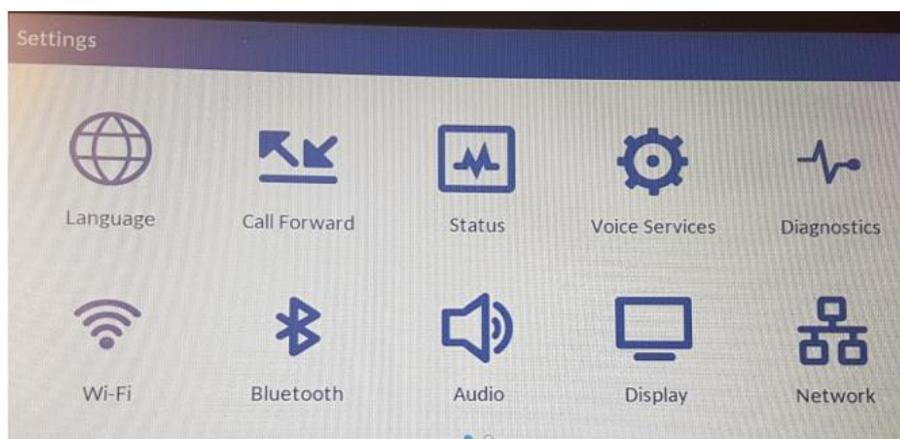
- Connect Terminal 6970 to the network.
- Wait for the start-up phase.
- The terminal automatically searches for a DHCP server.
- An IP address is returned to the terminal.

On the terminal use the touch keys to:

- Select **Settings**.

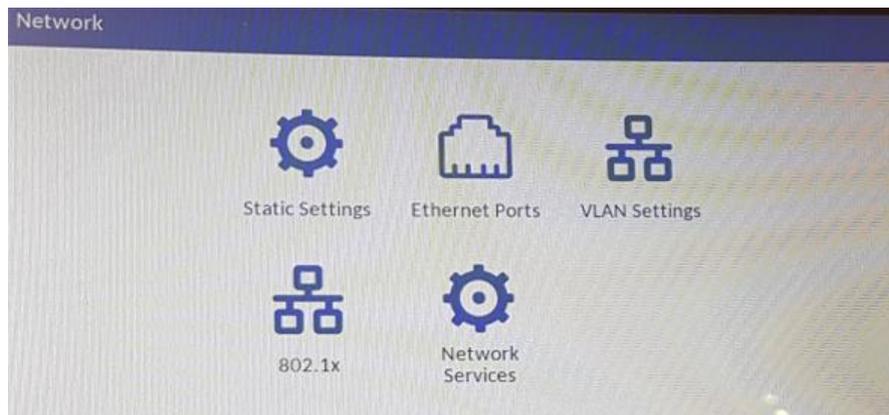
The **Settings** screen is displayed.

- Select the **Network** icon.



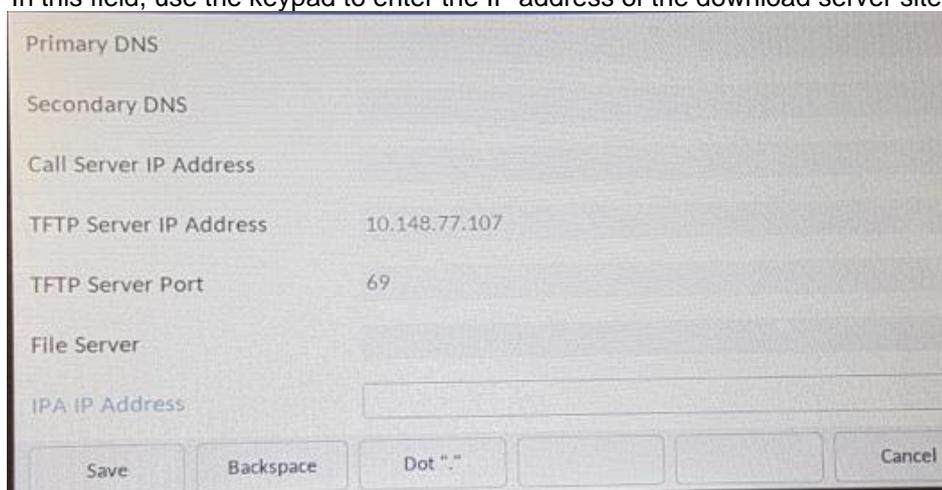
The **Network** screen is displayed.

- Select the **Static Settings** icon.



The **Static Network Settings** screen is displayed.

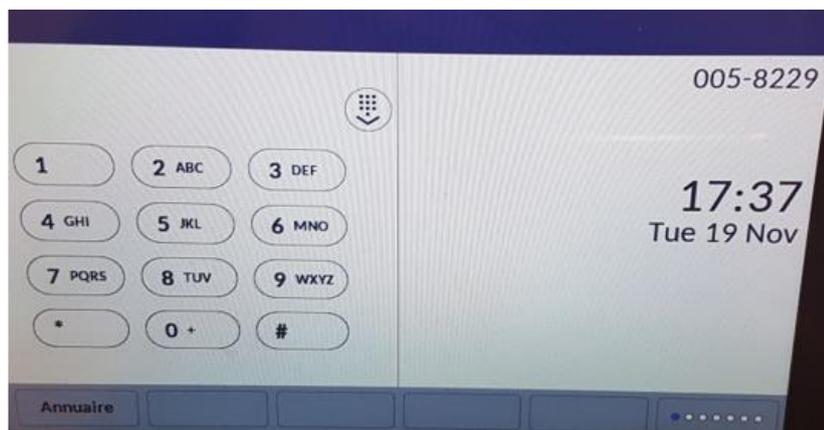
- Scroll through the list at the top of the screen up to the **TFTP Server Address** field. In this field, use the keypad to enter the IP address of the download server site.



In the **TFTP Server Port** field, enter the value of the port (69 dedicated port).

- Press **Return** .
- Press the **Keyboard**  key.
- Press **Save**.
- Press **Close**.
- Press the **Settings** key again.

- Press the **Restart**  icon to download the configuration files.
- Terminal 6970 then automatically downloads the configuration files from the download server.
- After downloading, the terminal starts working and behaves like a SIP terminal.



4.4 CONSTITUTING THE FILE AAstra.CFG FOR 6970 IP CONFERENCE PHONES

The file **aastra.cfg**, below, is provided as an example and may need to be modified for 6970 IP Conference Phones.

```
# -----  
# aastra.cfg  
#  
# File created on 18/02/2019 18:54:11  
#  
# -----  
#  
sip user name: anonymous  
sip line1 registrar port: 5060  
sip line1 proxy port: 5060  
sip proxy port: 5060  
sip registrar port: 5060  
sip backup proxy port: 5060  
sip backup registrar port: 5060  
download protocol: FTP  
idle screen mode: 1  
collapsed more softkey screen: 1  
live dialpad: 1  
web interface enabled: 0  
secure web service: 1  
xml get timeout: 12  
directed call pickup: 1  
sip blf subscription period: 3600  
call hold reminder during active calls: 0  
call hold reminder: 0  
call hold reminder timer: 0  
call hold reminder frequency: 0  
tagging enabled: 1  
sip dial plan terminator: 0  
sip dtmf method: 1  
sip out-of-band dtmf: 0  
delete dtmf playback: 1  
sip customized codec:  
payload=9;ptime=20;silsupp=off,payload=8;ptime=20;silsupp=off,payload=0;ptime=20;silsupp=off,payload=  
18;ptime=20;silsupp=off  
sip use basic codecs: 0
```

sip intercom mute mic: 0
sip explicit mwi subscription: 1
call forward disabled: 1
softkey selection list: none, line, speeddial, blf, xml, directory, callers, conf, xfer, services, phonedlock, empty, mobile
dnd ui: 0
sip cancel after blind transfer: 1
sip refer-to with replaces: 1
incoming call cancels dialing: 1
sip aastra id global index: 00
dynamic sip: 1
rtp hardlock: 1
sip aastra id: 1
sip accept out of order requests: 1
sip forward mode: 0
sip local port: 5060
sip local tls port: 5061
sip mode: 0
sip send line: 1
sip silence suppression: 0
sip xml notify event: 1
sip rport: 0
sip transport protocol: 1
sips persistent tls: 0
sips tls authentication: 0
sip srtp mode: 0
sip gruu: 1
xml lock override: 2
ipv6 allow: 1
https validate certificates: 0
https client method: TLS 1.0
enable atap: 32791
live keyboard: 1
keyboard script: [https://\\$\\$ACTIVEPROXY\\$\\$:4443/annuaire/i5xi.php](https://$$ACTIVEPROXY$$:4443/annuaire/i5xi.php)
line show caller id: 1
prgkey1 locked: 0
prgkey2 locked: 0
prgkey5 locked: 0
prgkey6 locked: 0
prgkey7 type: none
prgkey8 type: none

soft key1 to 55 type: empty
expmod1 key1 to 60 type: empty
expmod2 key1 to 36 type: empty
topsoftkey1 to 48 type: empty
language 1: lang_fr.txt
language 2: lang_de.txt
language 3: lang_es.txt
language 4: lang_pt.txt
language: 1
web language: 1
tone set: France
emergency dial plan: "018|015|017|0112|0115|0119|11x|18|17|15"
input language: French
time zone name: FR-Paris
time zone code: CET
action uri startup: https://@IPiPBX:4443/annuaire/i5xi_start.php?exe=config_ip_anonymous
sip line1 proxy ip: 0.0.0.0
sip line1 registrar ip: 0.0.0.0
time server1: [@IPiPBX](#)
time server disabled: 0
time format: 1
date format: 9
tos sip: 40
tos rtp: 46
tos rtcp: 46
tos priority map: (40.6)
VLAN id: 1023
VLAN id port 1: 4095
lldp: 0

4.5 CONSTITUTING THE FILE 6970.CFG FOR 6970 IP CONFERENCE PHONES

The template file **6970.cfg** provided by Mitel may need to be modified for 6970 IP Conference Phones. Some command lines may be copied from the file **aastra.cfg** and inserted into this template.

```
web interface enabled: 1
secure web service: 0
softkey1 type: xml
softkey1 label: Directory
softkey1 value: https://\$\$ACTIVEPROXY\$\$:4443/annuaire/i5xi.php (access to
directory)
sip dtmf method: 0      # 0 RTP
sip out-of-band dtmf: 1      # 1 enables out-of-band DTMF, forces the IP phone
to use out-of-band DTMF according to RFC2833#
# Conf / Transfer parameter
confxfer live dial: 1      # 1 live dial mode with dial plan matching
#
# Add new softkey type => hold
softkey selection list: none, line, speeddial, blf, xml, directory, callers,
conf, xfer, services, phonelock, empty, mobile, hold
#
# Add new softkey => Hold
softkey3 type: hold
softkey3 label: Hold
#
# Add new parameter
personal mode : 1 # 0 hotdesk / 1 personal : disable the Hotdesk Logout Pop-up,
which prompts the user to log out or stay logged in after the call ends
#
# End of file
```