A MITEL
PRODUCT
GUIDE

Unify OpenScape 4000 Assistant/Manager

Java Husim Phone Tester Web (J-HPT Web)

Administrator Documentation
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Mitel

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1 Introduction

Java Husim Phone Tester (jHPT) for Web is a web tool that allows to remotely control telephones via the Internet. It is used to simply reproduce the real phone behavior in a web interface and to generate events to be sent to the controlled phones.

1.1 Supported Web Browsers

JHPT Support is available for standard Chrome, Firefox and Microsoft browsers.

2 Test Interface

IP phones (and TDM phones from CP family) have a test interface implemented that allows the exchange of request commands and indications between the phone and the remote software client.

2.1 Enabling the Open Stage Test Interface

The test interface is enabled by default. However, in older OpenStage SW, it must be activated manually.

When using old IP models (OpenStage devices), the user must enable the test interface. This can be done by loading a certification key file called a dongle key[1] into the telephone. Every phone version has a different certification, which must be loaded separately into the phone in order to activate the test interface whenever the phone firmware is updated.

To load the dongle key into the telephone, you will need to know the telephone IP address as well as the password to access the telephone data (default password: 123456). All IP telephone models have a web interface containing all the related telephone configuration information. To access this page, just type the following into the address bar of the web browser : "https://" + telephone IP address.

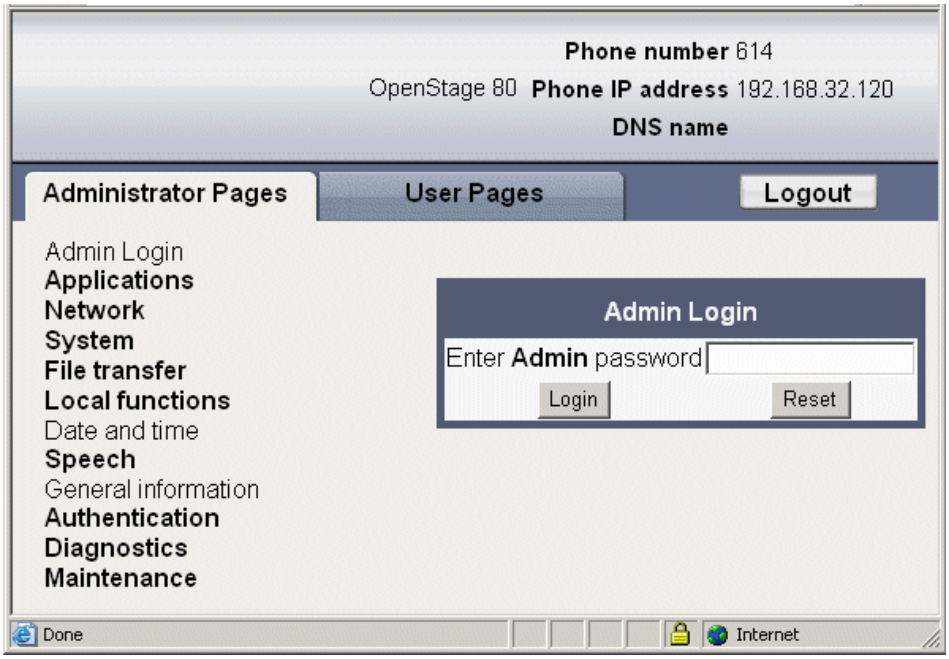

Figure 1: Main page web interface.

From this page, as shown on Figure 1, you can access the following services for the telephone:

[1] Dongle key: Certificate file which enables open stage test interface.

- User pages This area contains all user-assigned configurations:
  - User login;
  - Date and Time;
  - Audio;
  - Configuration;
  - Phone;
  - Locality;
  - Authentication.
- Administrator pages This area contains all administrator-assigned configurations:
  - Admin Login;
  - Applications;
  - Network;
  - System;
  - File transfer;
  - Local functions;
  - Date and time;
  - Speech;
  - General information;
  - Authentication;
  - Diagnostics;
  - Maintenance.

  On both the user pages and administrator pages, you can quickly obtain a comprehensive overview of all the information about the telephone. To gain complete access to the telephone data, you must log in by entering the password when prompted for it. In addition, you will also need to know the telephone firmware version because each one has its own dongle key. You can check the current telephone firmware by clicking on the "General information" link on the Administrator tab.

  The main way to load the dongle key file into the telephone is using FTP. The file must be available on an FTP server with a valid IP address. On the telephone file transfer page (see Figure 2), you can enter the FTP data which will be used to download the dongle key file from the FTP server to

the telephone. The option "start download" in the "After submit" field must be enabled.

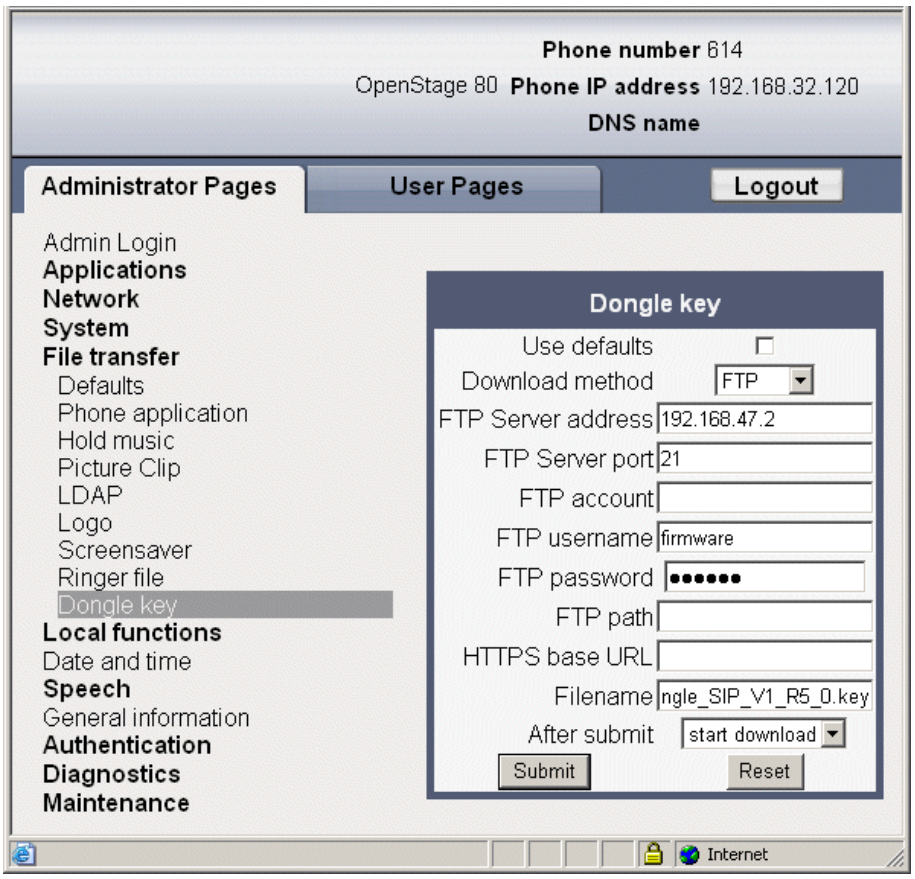

Figure 2: Telephone file transfer page.

If this operation was completed successfully, a corresponding message (see Figure 3) will be displayed; otherwise, an error message is displayed.

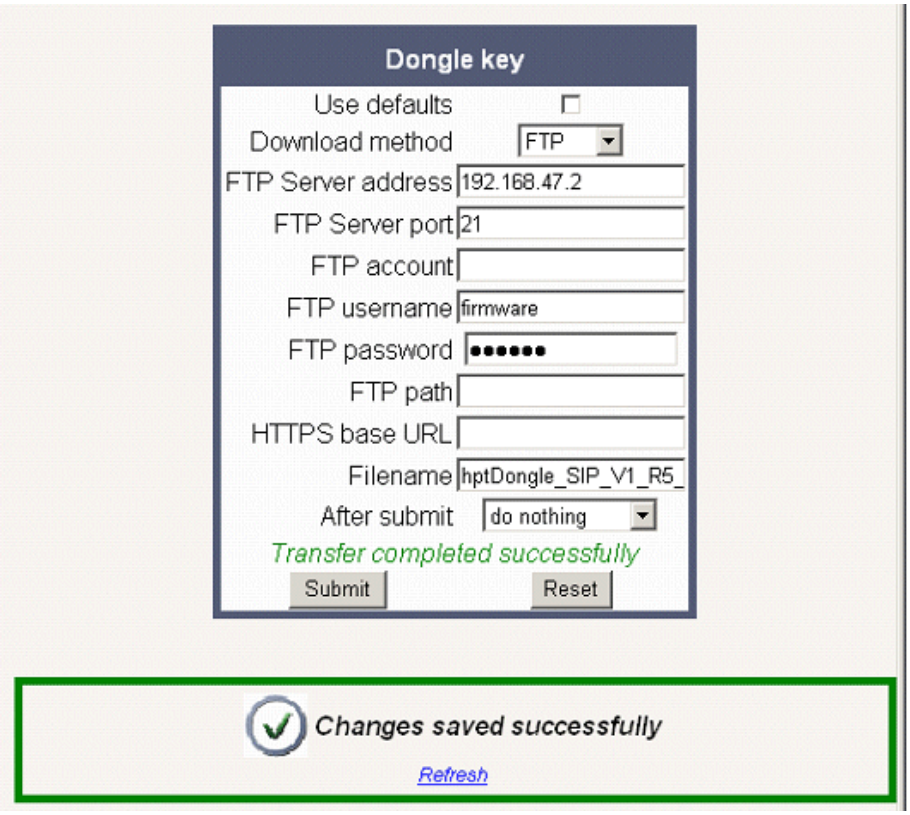

Figure 3: Transfer completed successfully message.

3 jHPT Web Interface

3.1 Main Menu Page

The jHPT Web main menu page is shown in Figure 4.

Figure 4: jHPT Web main menu page.

The elements marked in the above figure, have the following description:

- **[1] Model**: the telephone model

  The drop-down menu displays the list of available models.

  By default, the **Auto detect** option is selected. This allows the jHPT to detect the model and the number of key modules. The minimum phone LW versions are applicable.
- **[2] IP address**: the telephone IP address or extension number

  For OS4K only, this field displays the telephone extension number.
- **[3] Password**: the password for test interface access

  The default password for IP phones is 123456.
- **[4] Manager**: the link to navigate to the Manager page.

  For more information, see the Help Page on page 9 section.

3.1.1 Supported Models

jHPT Web currently supports the following telephone models:

- OpenStage 15/20/30/40/60/80 SIP&HFA;
- OpenScape Desk Phone IP 35G/55G SIP&HFA;
- OpenScape Desk Phone CP 100/110/200/210/400/410/600/700/710 SIP&HFA;
- OpenScape Desk Phone CP 200/400 TDM (OS4K only)

3.2 Help Page

On the jHPT Web Help page (shown in Figure 5) you can see the version information for jHPT Web and download the user and installation manuals. You can also go to the main menu page by clicking on the Main Menu link.

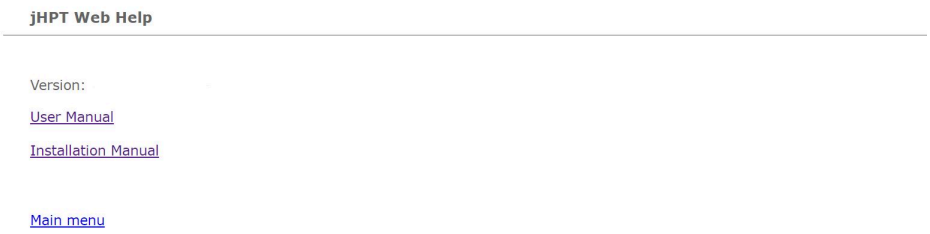

Figure 5: Help page.

3.3 Connecting to a phone

Follow the steps below to establish the connection to a phone:

1) Navigate to the **Main Menu** page.
2) In the **Model** field, keep the default option: **Auto detect**.
3) In the **IP address** field, enter the IP address of the phone or the extension number.

   The IP address can be used to connect directly to HFA or SIP phones.

   The extension number (OpenScape 4000 only) can be used from CP Phone family for both TDM and HFA via PBX using Cornet (minimum phone LW versions apply).
4) Enter the password in the **Password** field.

   NOTICE: The password is needed only for the IP phone models.
5) Click **Ok**.

If the phone you are trying to connect to does not have a software version that supports auto detection, you need to select the phone model manually from the drop-down list.

When selecting a phone model from the drop-down list, specific options are displayed, based on the selected model.

For IP devices, you can manually select the jHPT protocol and the number of key modules (see Figure 6).

TLS is the standard protocol used for modern IP phones where jHPT connects directly via the phone's IP address. Cornet can be used for TDM and HFA CP Phones to connect via the PBX using Cornet and the extension number (minimum phone LW versions apply).

NOTICE:

Please note that the CP700 and CP710 phones interact slowly when connected via Cornet.

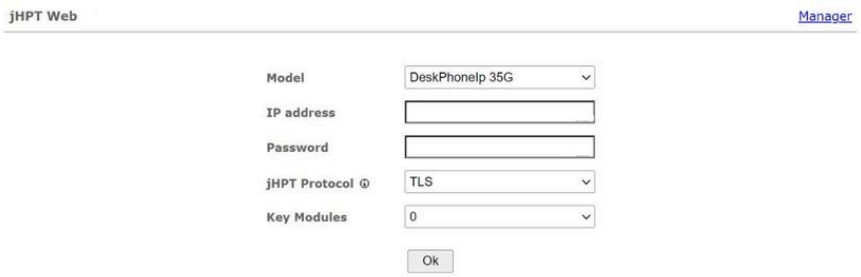

Figure 6: Options available for IP devices

For TDM devices, the jHPT protocol is unique and allows you to select the number of key modules (see Figure 7).

Figure 7: Options available for TDM devices

3.3.1 IP phones page

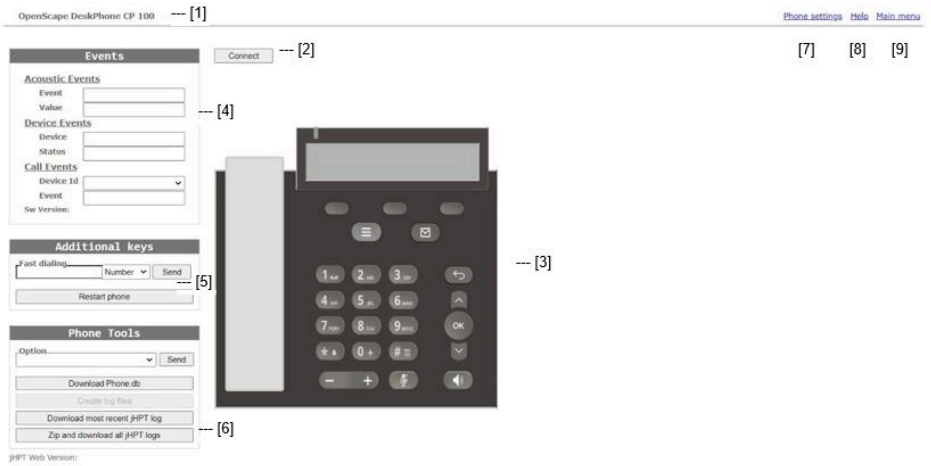

Figure 8: IP phone page layout

The IP phone page includes the following components:

[1]: the IP phone model

[2]: the **Connect**/ **Disconnect** button

[3]: the graphic representation of the phone

[4] Events: the values for **Acoustic Events**, **Device Events**, **Call Events** and the phone's software version

[5] Additional keys: keys for fast dialing and restarting the phone

[6] Phone Tools: additional phone tools

[7] Phone settings: the link to the phone's WBM page

[8] Help: the link to the jHPT help page

[9] Main menu: the link to the jHPT main menu page

When the phone's page is displayed, you can interact with the phone after by clicking the **Connect** button.

It is possible to restart the phone from jHPT, by clicking **Restart phone**, in the **Additional keys** menu. After restarting the phone, you must click **Connect** again.

In case of errors, you can download the current log or all jHPT logs from the **Phone Tools** menu.

3.3.2 TDM phones page

Figure 9: TDM phone page layout

The TDM phone page includes the following components:

[1]: the TDM phone model

[2]: the **Connect**/ **Disconnect** button

[3]: the graphic representation of the phone

[4] Events: the values for **Acoustic Events**, **Device Events**, **Call Events** and the phone's software version

[5] Additional keys: keys for fast dialing, restarting the phone and sending long press.

[6] Phone Tools: additional phone tools

[7] Help: link to the jHPT help page

[8] Main menu: link to the jHPT main menu page

When the phone's page is displayed, you can interact with the phone after by clicking the **Connect** button.

Some features can be activated or deactivated only by long pressing specific keys (e.g. the silent mode feature can be activated by long pressing the * key). This can be done via jHPT, by using the **Send long press** button in the

Additional keys menu, then pressing the key on the graphic representation of the phone

It is possible to restart the phone from jHPT, by clicking **Restart phone**, in the **Additional keys** menu. After restarting the phone, you must click **Connect** again.

In case of errors, you can download the current log or all jHPT logs from the **Phone Tools** menu.

IMPORTANT: The following minimum LW versions are required for full functionality:

- For CP200 TDM: V1R0.1.1
- For CP400 TDM: V1R0.3.1

3.3.3 Events values and meaning

Table 1: LED Mode

LED Mode	Description
0	Broken flutter, a combination of blinking and flutter.
1	Flutter, fast on and off.
2	Off. Lamp is off.
3	Steady. Lamp is continuously lit.
4	Blink. Lamp is blinking.
5	Unknown (the switching function cannot determine the mode of the LED).
6 - 100	All values in this range are switching function specific.

Table 2: LED Color

LED Color	Description
0	No color
1	Red
2	Yellow
3	Green
4	Blue
5	Unknown (the switching function cannot determine the color of the LED). Default if this parameter is not present.
6	White
7 - 100	All values in this range are switching function specific.

Table 3: Device Event

Device	Value
HANDSET	0
HEADSET	1
SPEAKERPHONE	2
OPENSLISTENING	3
RINGER	55

Table 4: Device Status

Status	Value
ACTIVE	0x01
INACTIVE	0x00

Table 5: Acoustic Event

Event	Value
RING_TONE1	
RING_TONE2	1
RING_TONE3	2
RING_TONE4	3
RING_TONE5	4
RING_TONE6	5
RING_TONE7	6
RING_TONE8	7
RING_TONE9	8
RING_TONE10	9
DIAL_TONE	10
SECOND_DIAL_TONE	11
RINGING_TONE	12
BUSY_TONE	13
SPECIAL_INFORMATION_TONE	14
CALL_WAITING_TONE	15
US_INTERNAL_CALL_WAITING_TONE	16

Event	Value
POSITIVE_INDICATION_TONE	17
CONFERENCE_TONE	18
NEGATIVE_INDICATION_TONE	19
INVALID_ENTRY_TONE	20
WARNING_BEEP	21
ERROR_MESSAGE_TONE	22
POSITIVE_ACK_TONE	23
KEYCLICK_TONE	24
DTMF_TONE	25
DTMF_SILENCE_TONE	26
NO_TONE	27
AUTO_ANSWER_TONE	28
AUDIO_TONE_MAX	29

Table 6: Acoustic Event Status

Status	Value
START	0x01
STOP	0x00

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