OpenStage T V2

Sales Information

PH HQ DA 1

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Version table:

Version	Date	Author	Changes
1.00	05/31/2007	Ralph Bach	Initial creation
1.01	06/29/2007	Ralph Bach	Busy Lamp Field release
1.02	08/03/2007	Peter Kremer	Further countries / languages OS 20 T / OS 40 T
1.03	08/22/2007	Peter Kremer	Further countries / languages OS 20 T / OS 40
1.04	09/17/2007	Peter Kremer	Release OS 20 T / OS 40 at HiPath 4000 V4
1.05	03/03/2008	Peter Kremer	Release OpenStage 60T / 80T, OpenStage Phone Adapter, OpenStage Key Module 60 / 80 at TDM phones, OpenStage Manager SW, RFID tag
1.06	05/06/2008	Peter Kremer	PSR at HiPath 4000
1.07	06/24/2008	Peter Kremer	Release OpenStage 10 T at HiPath 3000 / 4000
1.08	11/28/2008	Peter Kremer	Release V1R3, OpenStage 60 T / 80 T at HiPath 4000 V4 incl. SW download, CTI CallBridge, Update headsets, Bluetooth V2.0
1.09	02/27/2009	Peter Kremer	Release OpenStage 15 T at HiPath 4000 V5R0, announcement of release at HiPath 3000 V7R6, HiPath 4000 V4R4 and HiPath 3000 V8R0, announcement of release for OpenStage Key Module 15
1.10	04/06/2009	Peter Kremer	Release OpenStage Key Module 15
1.11	10/15/2009	Peter Kremer	Textupdates because of release OpenStage 15 T and OpenStage Key Module 15 at all platforms, Update Conference Unit, Update Headset Support, Update Power Supply, Release V2R0 for OpenStage 60/80 T, Update Roadmap
1.12	04/06/2010	Peter Kremer	Textupdates because of release OpenStage 30 T V2, announcement of release for SW version V2R0 for OS 10 T, OS 15 T, 20 T and OS 40 T, Update Conference Unit, Update Headset support, Update power supply, Update CallBridge Collection, Update Roadmap
1.13	03/31/2011	Peter Kremer	Textupdates because of release: OpenStage rubber feet (lifter), OpenStage BLF at Hiapth 4000 V6, text updates: Power Supply, optiPoint mode, connectivity, roadmap
2.0	03/30/2012	Peter Kremer	Textupdates because of release: OpenStage 60T/80T Core, Key Modules with silver keys, OpenStage stand, update headset list, update power consumption, optiPoint mode, connectivity, roadmap
2.1	03/04/2013	Peter Kremer	Textupdates because of: Further country releases, wall mount kit V2, update compatibility matrix, new chapter OpenStage HW changes and necessary software versions
2.2	05/08/2014	Ralph Bach	Adapted to new Unify template, incl.few text updates and shortenings (text/pictures) to reduce the file size
2.3	07/11/2014	Ralph Bach	Adapted after order stop for OpenStage 80 TDM and Key Module 80
2.4	24/04/2015	Ralph Bach	Adapted after order stop for OpenStage 20 T
2.5	13/08/2015	Ralph Bach	Adapted after order stop for Phone Adapter Added Bluetooth 2.1 and Hands-Free Profile (HFP)
2.6	19/01/2016	Ralph Bach	New company name: Unify Software and Solutions GmbH & Co.KG

1 Product Description

1.1 Overview

1.1.1 Brief Product Overview

The OpenStage TDM family includes the following phone models:

- OpenStage 10 T (available in ice blue or lava)
- OpenStage 15 T (available in ice blue or lava)
- OpenStage 30 T (available in ice blue or lava)
- OpenStage 40 T (available in ice blue or lava)
- OpenStage 60 T (available in ice blue or lava)

For the OpenStage T family the following accessories are available:

- Key Module 15 (for connection to OpenStage 15 T, 30 T and OpenStage 40 T, available in ice blue or lava)
- Key Module 40 (for connection to OpenStage 40 T, available in ice blue or lava)
- Key Module 60 (for connection to OpenStage 60 T, available in ice blue or lava)
- Busy Lamp Field (BLF) with 90 keys / LEDs (for connection to OpenStage 30 T, 40 T and 60 T, available in ice blue or lava).
- OpenStage wall mount kit
- OpenStage Lifter

Please consider the relevant phase-out circulars as well to get the latest information about the actual milestones.

1.1.2 Product Highlights

The outstanding attributes of the new OpenStage T family are:
(Note: Not all of the features are available with all OpenStage phone models).

- **Design**
  - A combination of various colors, materials meeting today's and future interior trends
  - Increase from model to model not only in features, but also in:
    - Perceived value in general
    - Control elements/keys (from mechanical pushbuttons to modern, capacitive touch technologies)
  - Aesthetic appearance from each perspective

- **(Customer / Partner) Logo**
  - Each OpenStage Phone can be customized with an individual (customer / partner) logo (exception: OpenStage 10 T).

- **„Self Labeling Keys"**
  - The functionality of the programmable keys is (same as with optiset E and optiPoint) defined by the Communication System (feature key, speed dial key, line key, etc.). The keys can be programmed in two layers. The programmed function / number is shown in the display, right next to the function key.

- **Usability**
  - Large displays
  - User Interface enhancements
  - Innovative control elements, like TouchGuide, TouchSlider and capacitive sensor keys

- **Excellent acoustics**
  - Full-duplex hands-free talking (exception: OpenStage 10 T)
  - New improved handset
  - New high-quality components (loudspeaker/microphone)
  - New designed speaker housing (more voluminous cabinet)

- **Connectivity**
  - Various capabilities to customize the phones to meet the individual needs of the customers, via accessories, like Key Modules or Busy Lamp Filed and open interfaces, like USB and Bluetooth

- **Personalization (OpenStage 60 T)**
  - Polyphonic ring tones (mp3)
  - Load pictures / Slideshow
  - Different Skins

1.1.3 Connectivity and Compatible Products

The matrix below shows the several OpenStage phone models and the related Communication Platforms versions initially released with.

Please consider that many of the platforms mentioned below already are in phase-out process and reached the end of HW- and SW-support already.

For details please refer to the appropriate sales information documents, release notes and phase-out circulars of the related communication systems as well.

	Openstage 10T	OpenStage 15T	OpenStage 30T	OpenStage 40T	OpenStage 60T
HiPath 3000 V6	-	-	-	-	-
HiPath3000 V7 (R0)	-	-	-	x	x
HiPath3000 V7 (R4)	x	-	x [1)]	x	x
HiPath 3000 V7 (>R5)	x	x	x [1)]	x	x
HiPath 3000 V8 (R1)	x	x	x [1)]	x	x
HiPath 3000 V8 (R4)	x	x	x	x	x
HiPath 3000 V9	x	x	x	x	x
OpenScape Business V1	x	x	x	x	x
HiPath 4000 V3	x [1)]	x [1)]	x [1)]	-	-
HiPath 4000 V4 (R0)	-	-	-	x	x
HiPath 4000 V4 (R2)	x	-	-	x	x
HiPath 4000 V4 (R4)	x	x	x	x	x
HiPath 4000 V5	x [2)]	x [2)]	x [2)]	x	x
HiPath 4000 V6	x [2)]	x [2)]	x [2)]	x	x
OpenScape 4000 V7	x [2)]	x [2)]	x [2)]	x	x
500 V8	x	x	x	x	x
500 V9	x	x	x	x	x
1100 V7	-	x	x	-	-

-: not released

x: released

x [1)]: released in optiPoint

x [2)]: Released on STHC board in optiPoint mode

The matrix below shows the several OpenStage extensions and the related platforms / SW versions released with:

	Key Module 15	Key Module 40/60	Phone Adapter	BLF
HiPath 3000 V7 (R0)	-	x	x	-
HiPath 3000 V7 (R4)	-	x	x	x
HiPath 3000 V7 (>R5)	x	x	x	x
HiPath 3000 V8	x	x	x	x
HiPath 3000 V9	x	x	x	x
OpenScape Business V1	x	x	x	x
HiPath 4000 V4 (>R0)	-	x	x	-
HiPath 4000 V4 (>R4)	x	x	x	-
HiPath 4000 V5	x	x	x	-
HiPath 4000 V6	x	x	x	x
OpenScape 4000 V7	x	x	x	x
500 V8	x	x	x	-
500 V9	x	x	x	-
1100 V7	x	-	-	-
Legend:	-	Not released		
	x	released		

1.1.4 Available Languages

The user interface and therewith the available languages for OpenStage T phones are more or less defined by the HiPath system. All languages supported by the released platforms will be supported by OpenStage phones.

The OpenStage user interface is available in the following languages: Brazil, Bulgarian, Catalan, Croatian, Czech, Danish, Dutch, English (USA & UK), Estonian, Finnish, French, German, Greek, Hungarian, Indonesian (with Latin characters), Italian, Latvian, Lithuanian, Macedonian, Malayan (with Latin characters), Norwegian, Polish, Portuguese, Romanian, Russian (in Cyrillic characters), Serbian (in Cyrillic and Latin characters), Slovak, Slovenian, Swedish, Spanish and Turkish.

The languages: Chinese, Japanese and Korean are available via PSR only.

1.1.5 Countries

The planned sales releases for the several countries will be announced via sales circular.
For sales in further countries the phones will be released on request. At this juncture it has to be assured, that all product related conformance tests are fulfilled.
To initiate the release process, a change request is required by the responsible region.
The actual overview of country releases can be found below:
http://opus1.global-intra.net:8080/TopNet/productIndexIndex.html

1.2 Description of Features

1.2.1 Positioning

OpenStage 10 T
OpenStage 10 T is the device of choice wherever only the most essential telephony functions are required. The telephone is suitable for use in reception areas and warehouses, for example.

OpenStage 15 T
OpenStage 15 T is a full-featured speakerphone with display and lighted feature keys for up to 8 line appearances, for example.

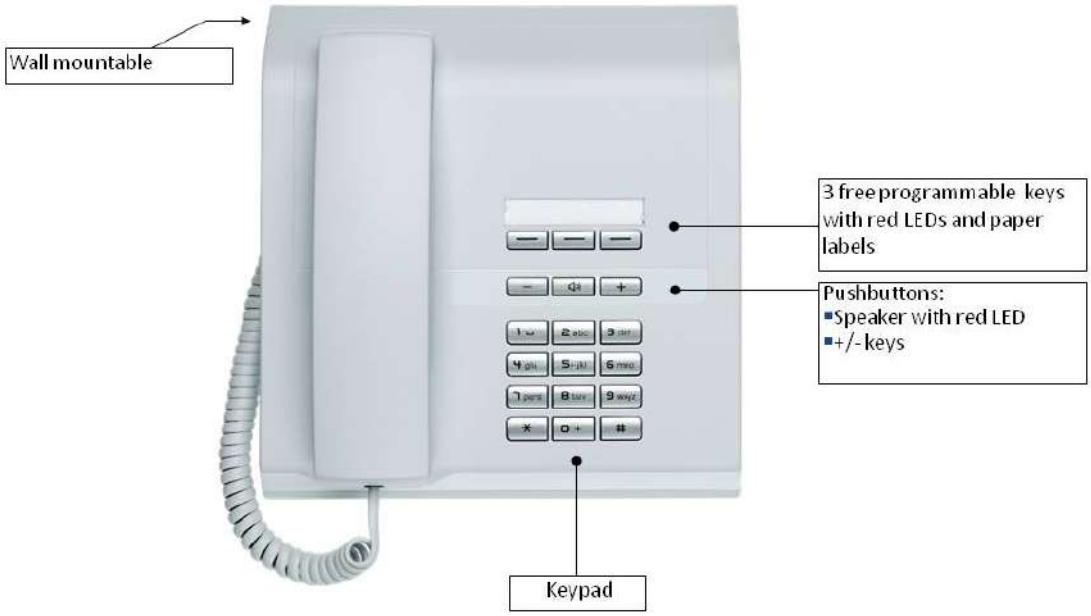
OpenStage 30 T
With it's ability to be customized for various workplace environments OpenStage 30 T is recommended to be used as office phone or for call center staff.

OpenStage 40 T
OpenStage 40 T exists of soft-labeled touch sensor keys. An ideal solution for people working in teams or for desk sharing applications.

OpenStage 60 T
Offers top notch functionality and innovations with a maximum of usability combined with a clear intuitive and sleek design. It's functionality and personalization options make this phone the first choice for boss/secretary environments and people interacting with other devices, like mobile phones or PDAs.

1.2.2 Detailed Feature Description

1.2.2.1 OpenStage 10 T



OpenStage 10 T: Design characteristics (ice blue variant)	
Phone housing	**ice blue**, semi matte
Handset housing	**ice blue**, semi matte
Detailing	• Engraved design lines • Sidepanel area high gloss • Keypad lacquered, silver blue and anthracite metallic • LED color red

OpenStage 10 T: Design characteristics (lava variant)	
Phone housing	**lava**, semi matte
Handset housing	**lava**, semi matte
Detailing	• Engraved design lines • Side panel area high gloss • Keypad lacquered, silver blue and anthracite metallic • LED color red

1.2.2.2 OpenStage 15 T

OpenStage 15 T: Design characteristics (ice blue variant)	
Phone housing	**ice blue**, semi matte
Handset housing	**ice blue**, semi matte
Detailing	• Engraved design lines • Sidepanel area high gloss • Keypad lacquered, silver blue and anthracite metallic • LED color red

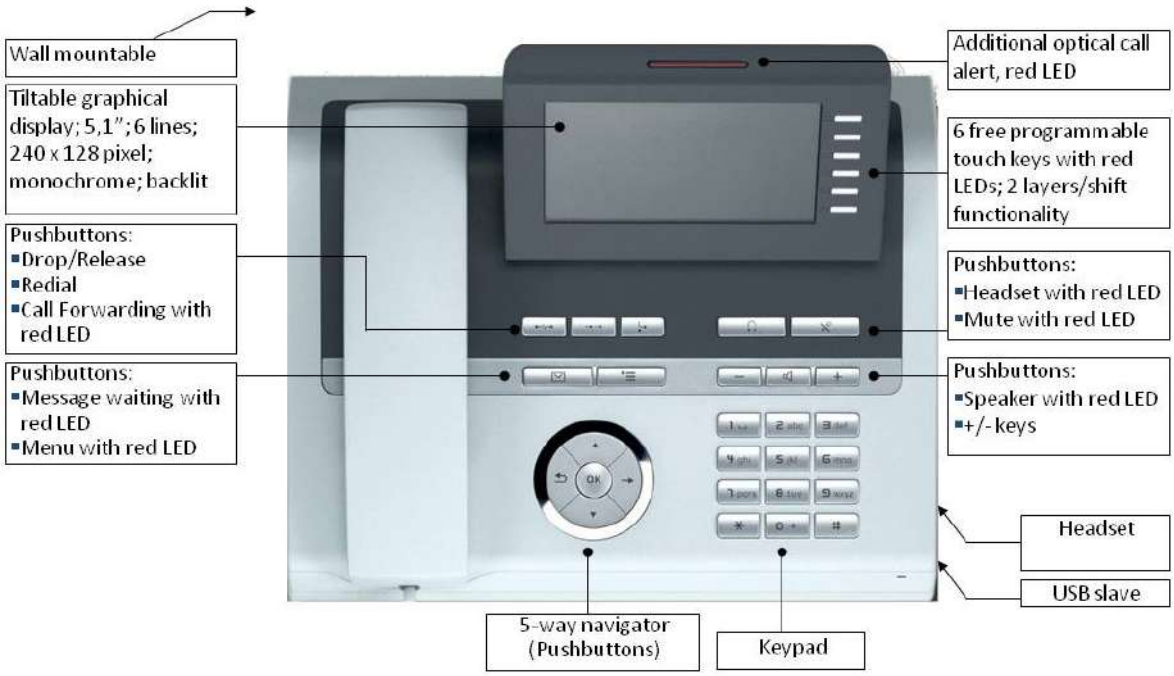
OpenStage 15 T: Design characteristics (lava variant)	
Phone housing	**lava**, semi matte
Handset housing	**lava**, semi matte
Detailing	• Engraved design lines • Side panel area high gloss • Keypad lacquered, silver blue and anthracite metallic • LED color red

1.2.2.3 OpenStage 30 T

OpenStage 30 T: Design characteristics (ice blue variant)	
Phone housing	**ice blue**, semi matte
Handset housing	**ice blue**, semi matte
Detailing	• Engraved design lines • Sidepanel area high gloss • Keypad lacquered, silver blue and anthracite metallic • LED color red

OpenStage 30 T: Design characteristics (lava variant)	
Phone housing	**lava**, semi matte
Handset housing	**lava**, semi matte
Detailing	• Engraved design lines • Side panel area high gloss • Keypad lacquered, silver blue and anthracite metallic • LED color red

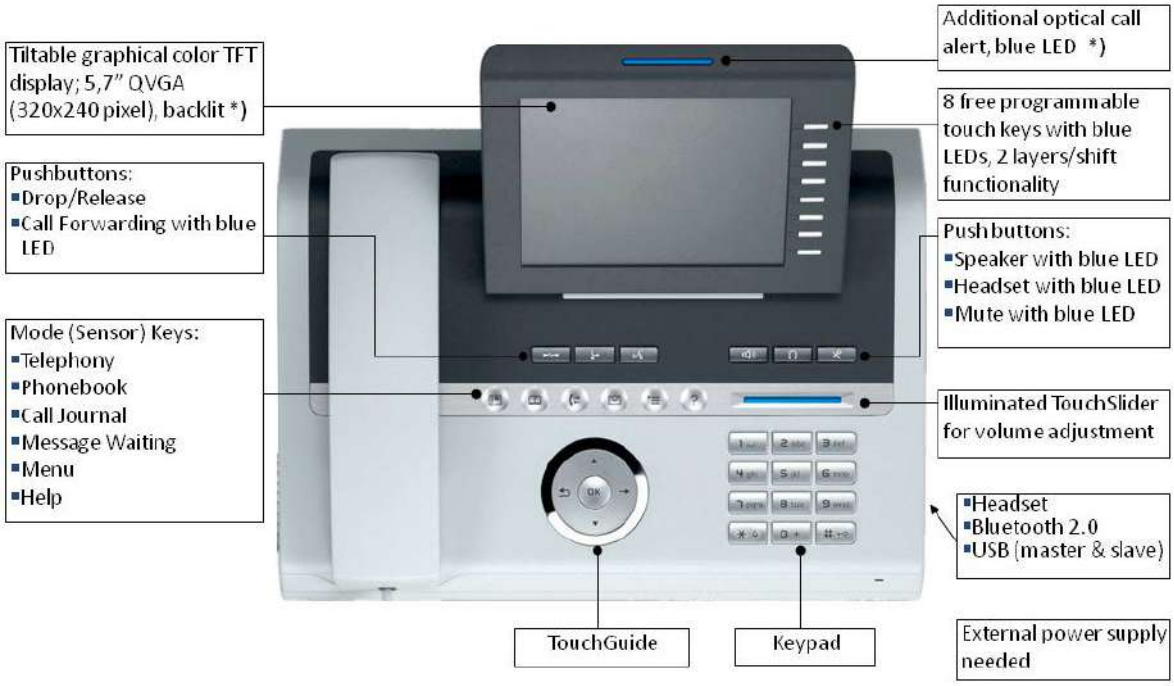
1.2.2.4 OpenStage 40 T



OpenStage 40 T: Design characteristics (ice blue variant)	
Phone housing	**ice blue**, semi matte
Handset housing	**ice blue**, semi matte
Housing Inlay	**slate gray**, semi matte
Function bar inlay	IMD-foil, brushed aluminium effect (IMD = In-Mold Decoration, a special type of plastic molding, is used for decorating plastic surfaces with color and/or with an abrasion resistant coat)
Display housing	**slate gray** (front), **ice blue** (back),semi matte
Detailing	• Engraved design lines • Sidepanel area high gloss • Chrome ring around navigator • Keypad lacquered, silver blue and anthracite metallic • LED color red

OpenStage 40 T: Design characteristics (lava variant)	
Phone housing	**lava**, semi matte
Handset housing	**lava**, semi matte
Housing Inlay	**charcoal**, semi matte
Function bar inlay	IMD-foil, brushed aluminium effect (IMD = In-Mold Decoration, a special type of plastic molding, is used for decorating plastic surfaces with color and/or with an abrasion resistant coat)
Display housing	**charcoal** (front), **lava** (back),semi matte
Detailing	• Engraved design lines • Side panel area high gloss • Chrome ring around navigator • Keypad lacquered, silver blue and anthracite metallic • LED color red

1.2.2.5 OpenStage 60 T



Picture showing old display module

OpenStage 60 T: Design characteristics (ice blue variant)	
Phone housing	**ice blue**, semi matte
Handset housing	**ice blue**, semi matte
Housing Inlay	**slate gray**, semi matte
Function bar inlay with Mode Keys	Control elements with capacitive sensor technology, IMD-foil, brushed aluminium effect (IMD = In-Mold Decoration, a special type of plastic molding, is used for decorating plastic surfaces with color and/or with an abrasion resistant coat)
Display housing	**slate gray** (front), **ice blue** (back),semi matte
Detailing	• Engraved design lines • Sidepanel area high gloss • Chrome ring around TouchGuide • TouchSlider with LEDs and capacitive sensor technology • Keypad lacquered, silver blue and anthracite metallic • LED color blue

***) Starting from April 2012 OpenStage 60 T has a new display module, with the following changes:**

Energy saving due to display with LED backlight

Due to the assembly of a new display with LED backlight instead of the current display with CCFL (tube) backlight the energy demand of OpenStage 60 T has been decreased (for details please refer to the chapter power consumptions).

Improved optical call alert

The older OpenStage 60 T indicated an incoming call on the screen and on an additional LED located in the middle of the top edge of the display housing.

To ensure a better visibility of the LED indication (even from the back side of the phone) a LED with enlarged angle of radiation has been located on the right hand side at the top of the display housing (see image below).

OpenStage 60 T: Design characteristics (lava variant)	
Phone housing	**lava**, semi matte
Handset housing	**lava**, semi matte
Housing Inlay	**charcoal**, semi matte
Function bar inlay with Mode Keys	Control elements with capacitive sensor technology, IMD-foil, brushed aluminium effect (IMD = In-Mold Decoration, a special type of plastic molding, is used for decorating plastic surfaces with color and/or with an abrasion resistant coat)
Display housing	**charcoal** (front), **lava** (back),semi matte
Detailing	• Engraved design lines • Side panel area high gloss • Chrome ring around TouchGuide • TouchSlider with LEDs and capacitive sensor technology • Keypad lacquered, silver blue and anthracite metallic • LED color blue

1.2.2.6 Key Modules

For the connection at OpenStage 15 T, 30 T and OpenStage 40 T the OpenStage Key Module 15 is released in the colors ice blue and lava.

It provides 18 free programmable keys (functionality defined by the communication system) with 18 red LEDs, which can be programmed in one layer. The key functions are labeled by paper labels. Maximum one Key Module 15 can be connected to an OpenStage 15 T / 30 T / 40 T phone. It cannot be used in combination with a (display) Key Module.

For the connection to OpenStage 40 T furthermore the Key Module 40 is already released. This module is available in ice blue or lava.

It provides 12 free programmable keys (functionality defined by the communication system) with 12 red LEDs, which can be programmed in two layers. The programmed function / number is shown in the backlit graphical black / white display, right next to the function key.

For OpenStage 60 T an own Key Modules is released: Key Module 60 in ice blue or lava with blue LEDs.

A maximum of two Key Modules (with display) can be connected to one OpenStage 40 T / 60 T.

Key Modules cannot be used in combination with a Busy Lamp Field.

The connection of the first Key Module requires an external power supply (for OpenStage 60 T always necessary) because, compared to optiPoint, the two large backlit, graphical displays (phone and Key Module) have higher power consumption, which cannot be provided via the $U_{P0/E}$-interface.

The power supply for Key Modules connected to OpenStage 60 T is provided via the always necessary external power supply of the phone.

With the phone SW version (V1R1.1.14) of OpenStage 40 T the clearness of the Key Module display has been improved by activation of the Key Module display backlit for a duration of 3 hours.

The Key Modules are identical to the Key Modules for the OpenStage IP Phones, which will be released separately within the sales information of the OpenStage IP Phones.

With effect from April 2012 the OpenStage Key Modules are delivered with silver keys (instead of slate grey keys). The image below shows an OpenStage key module 15 exemplarily for all other key modules and the BLF with silver keys.

1.2.2.7 Busy Lamp Field (BLF)

The Busy Lamp Field provides 90 programmable keys with red LEDs. The BLF is available in ice blue and lava. The BLF is currently released to be connected to the OpenStage 30 T, 40 T, 60 T model only. In case of use with OpenStage 30 T, 40 T and 60 T an external power supply at the phone is required.

The Busy Lamp Field cannot be used in combination with Key Modules.

1.2.2.8 Obsolete (formerly OpenStage Phone Adapter)

1.2.2.9 OpenStage Wall Mount Kit

For OpenStage 10/15/30/40 T a wall mount kit is available in the colors lava and ice-Blue.

Since 2nd July 2012, there is a new OpenStage wall mount kit orderable. The new OpenStage wall mount kit (V2) fits the physical requirements (standard telephone sockets / plates) in the United States of America. This way it meets the US standard regarding positioning of the kit itself. Advantage: Compared with the so-far-existing OpenStage wall mount kit better readability of the OS 15 T and OS 30 T (those have non-tilt able displays) is granted. The new wall mount kit also adheres the ADA (American Disabilities Act) requirement: The wall mounted phone must have a distance of no more than 4" off the wall.

Please see also http://wiki.unify.com/wiki/OpenStage_Wall_Mount_Kit

1.2.2.10 OpenStage Lifter

Rubber feet

The OpenStage lifters help to better read the displays on the OpenStage phones (all models) and OpenStage Key Modules (all models).

Phone and key module stand

There are new stands (made of aluminum) for all OpenStage phones and key modules available.

The big advantage for the users is the improved usability as the phone and the key module respectively is lifted on the rear side. This way also the readability of the key modules is improved. The stands are made of light aluminum.

The table below shows the 6 available stand variants – 4 stands for the phones and 2 stands for the corresponding key modules.

- OpenStage Stand OS10
- OpenStage Stand OS15/20/30
- OpenStage Stand OS40
- OpenStage Stand OS60
- OpenStage Stand OS15-Key Module
- OpenStage Stand OS40/60-Key Module

1.2.2.11 External Keyboard

An external alphanumeric keyboard fitting to the OpenStage design allowing text entry will **not** be offered. The TouchGuide and keypad allow quick and precise navigation within the personal Phonebook (search contacts and dial). Entering and editing contacts can easily be done at the PC with the OpenStage Manager SW.

1.2.2.12 Accessories matrix

	OpenStage 10 T	**OpenStage 15 T**	**OpenStage 30 T**	**OpenStage 40 T**	**OpenStage 60 T**
Power Supply Unit	optional	optional	optional	optional	mandatory
Wall Mount Kit	Yes	Yes	Yes	Yes	No
Lifer (rubber feet) / Stand	Yes	Yes	Yes	Yes	Yes
Key Module	No	max. 1 Key Module	max. 1 Key Module	max. 2 Key Modules	max. 2 Key Modules
Busy Lamp Field	No	No	max. 1 BLF	max. 1 BLF	max. 1 BLF

1.2.2.13 Features in general

Features	**OpenStage**	**OpenStage**		**OpenStage**	**OpenStage**
	10 T	**15 T**	**30 T**	**40 T**	**60 T**
Display					
Tiltable graphical display	No	2 lines, 205*41 pixel (not tiltable)		6 lines, 240*128 pixel	320*240 pixel (QVGA), TFT
Backlit	No	No		Yes	Yes
Color display	No	Monochrome		Monochrome	Color, 16 Bit color depth, 65.000 colors
Size	No	2 lines, 24 characters		5,1 inch (diagonal)	5,7 inch (diagonal)
Additional optical call alert	No	No		Red LED	Blue LED
Keys / LEDs					
Fixed function keys (Pushbuttons)	1 key „Speaker“ with 1 red LED	3 Keys with 3 red LEDs	8 Keys with 3 red LEDs	8 Keys with 6 red LEDs (no LED for „Drop/Release” and „Redial“)	6 Keys with 5 blue LEDs (no LED for „Drop/Release”)
Free programmable Touch-Keys (same functionality / principle as with optiPoint)	3 (pushbuttons with paper labels; 3 red LEDs	8 (pushbuttons with paper labels; 8 red LEDs		6 (thereof one can be a shift key, 2 levels); 6 red LEDs	8 (thereof one can be a shift key, 2 levels); 8 blue LEDs
Mode keys (touch keys)	0	0		0	6 with blue LEDs; thereof 2 (“Call Log” and „Message Waiting“) with additional white LED to display status changes
Volume adjustment	via +/- keys	via +/- keys		via +/- keys	via TouchSlider with blue/white LEDs
Navigation	No	via 3 keys		via 5-way navigator	TouchGuide
Interfaces					
Connection to HiPath system	SLMO, $U_{P0/E}$ 2-wire	SLMO, $U_{P0/E}$ 2-wire		SLMO, $U_{P0/E}$ 2-wire	SLMO, $U_{P0/E}$ 2-wire
Headset jack for wired headsets	No	No	Yes	Yes	Yes
Headset jack for wireless headsets	No	No		Yes	Yes
Conference Unit supported?	No	No	No	via optional cable	via Bluetooth or optional cable
Bluetooth 2.1	No	No		No	Yes
- OPP (Object Push Profile)	No	No		No	Yes (vCards)
- HSP (Headset Profile)	No	No		No	Yes
- HFP (Hands-Free Profile)	No	No		No	Yes
USB slave	No	No	Yes	Yes	Yes

Features	**OpenStage**	**OpenStage**		**OpenStage**	**OpenStage**
	10 T	**15 T**	**30 T**	**40 T**	**60 T**
USB master	No	No		No	Yes
Ability to connect expansion units, like Key Module	No	Yes		Yes	Yes
Audio					
Open Listening	Yes	Yes		Yes	Yes
Full-Duplex Hands-free	No	Yes		Yes	Yes
Polyphonic ring tones (mp3, wave, midi)	No	No		No	Yes
Applications					
Telephony	Yes	Yes		Yes	Yes
Personal Phonebook with up to 1.000 entries / contacts	No	No		No	Yes
Picture Clip (add pictures to personal phonebook)	No	No		No	Yes
Local Call Log (stored in the phone)	No	No (but access to HiPath provided call log)		No (but access to HiPath provided call log)	Yes
- Dialed number	-	-		-	30
- Received calls	-	-		-	30
- Missed calls	-	-		-	30
- Forwarded calls	-	-		-	30
Help	No	No		No	Yes
Supported by OpenStage Manager SW (connected via USB)	No	No		No	Yes
Themes / Skins	No	No		No	2
Personal Screensaver (Slide Show)	No	No		No	Yes
Technical data					
Operating system	CMX Tiny	CMX Tiny		CMX Tiny	Linux
Dimensions (height x width x length [mm])	70 x 210 x 220	70 x 240 x 221		70 x 270 x 221	70 x 300 x 269
Weight [kg]	0,63	0,777	0,782	1,120	1,235
Wall mountable	Yes	Yes		Yes	No
Power supply					
Power via SLMO	Yes	Yes		Yes	No
External Power supply (country specific variants available)	Yes	Yes		Yes	Yes, always

Storage conditions	-40 °C to +70 °C (ETSI EN300 019-2-2)
Operational conditions	+5 °C to +40 °C
Certification	
	CE-Mark: EMC EN 55022:2006 Class B, EN 55024:1998 +A1 +A2:2003, EN 61000-3-2:2006 Safety: EN60950-1:2006/A11 : 2009 USA / Canada: EMC (FCC) part 15 (CFR 47) Class B Safety: UL 60950-1, 2nd Ed. / CSA C22.2 No. 60950-1-07, 2nd Ed. Additional certifications: Safety EN 50385:2002 EMF, Human Field Exposure EMC, Emission ITE Residential Environment EMC, Immunity ITE Residential Environment EN 301 489-1 V1.6.1 EMC, Radio spectrum matters, common requirements EN 301 489-17 V1.2.1 EMC, Radio spectrum matters, 2.4GHz devices EN 300 328 V1.7.1 EMC, Radio spectrum matters, Wideband transmission systems EMC, Harmonic Current Emissions EN 302 208-2 V1.1.1 EMC; RDIF TBR 8 Annex C:1998 Acoustic Shock CFR 47, FCC P.15 Class B EMC Emission Residential Environment (USA)

Note: The two key modules, application module, display module, busy lamp field, and adapters for the optiPoint phone family cannot be used and operated together with OpenStage.

1.2.2.14 Downward compatibility

Starting with V2R0 OpenStage 10T/15T/30T can register to older HiPath versions as optiPoint (with optiPoint 500 Phone-ID):

- OpenStage 10T registers as optiPoint 500 entry
- OpenStage 15T registers as optiPoint 500 standard
- OpenStage 30T registers as optiPoint 500 advance

OpenStage phones will be delivered ex factory in “OpenStage mode” and provide a simple menu to activate the “optiPoint mode” , e.g. for OS15T/OS30T :

For OS10T a procedure is provided with support of LED indications.

OpenStage 15 Key Module (OS15T/30T) and OpenStage BLF (only OS30T) can be used in “optiPoint mode” as well.

Since the “old” HiPath systems do not have any knowledge about downward compatible OpenStage phones, the system and it’s management tools only see optiPoint phones.

No SW-Update of OpenStage TDM phones behind old HiPath systems

Compared to the corresponding optiPoint phones the OpenStage phones have different key layout and :

- OpenStage 30T provides 3 keys less
- OpenStage 15T provides 1 key less
- OpenStage 10T provides 4 keys less

-> The admin has to consider this, when assigning keys (he does not see in his tools whether he’s working on an optiPoint or an “optiPoint fake”).

- 1 key at the OpenStage Key Module 15 connected will be without any function and cannot be used, when connected to an OS15T phone.

1.2.2.15 Power supply / Power consumption

OpenStage Power supply

In line with the further development of our portfolio we are now able to offer smaller and lighter power supplies for all OpenStage and optiPoint 410/ 420/ 500 variants.

They are marked by a higher degree of efficiency leading to 14 - 19% lower power consumption, depending on the connected devices.

Important:

This new power unit is a device of safety class 1. The protection concept of the electric power supply needs to be based on equipment grounding conductor, e.g. using AC power plug F. If this does not fit appropriate country specific plugs and cords with grounding conductor have to be supplied locally.

Only the power supplies mentioned in this sales information document (chapter 3.2) are released for usage with OpenStage IP and TDM phones.

A deployment of the old „AULT-power supply“ is neither released nor allowed. Amongst others the output current of 0,25A is not sufficient to feed each OpenStage phone and configuration.

The table below shows the configurations with / without external power supply:

	Powered via SLMO	**External power supply required**
OpenStage 10T, 15T, 30T, 40T	X	
OpenStage 15T, 30 T, 40 T with 1 Key Module 15	X	
OpenStage 40T with 1-2 (Display) Key Modules		X
OpenStage 30 T, 40T, 60 T with 1 BLF		X
OpenStage 60T		X
OpenStage 60T with 1-2 (Display) Key Modules		X

Energy saving mode:

To be able to reduce the energy demand of the OpenStage phones to a minimum, OpenStage now offers an energy saving mode, which switches off the display backlight (phone and Key Module, if attached) after a time out.

At OpenStage 40 T this time out is set to 3 hours.

At OpenStage 60 T this timer is configurable between 2 and 8 hours.

This parameter can be set/changed by the administrator and not the user himself.

Power Consumption (on average)

Device	Number of				Power Consumption in Watt							
					Energy saving mode						Energy saving mode	
	Key Module 15	Key Module 40 - 80		Key Module 15	Key Module 40 - 80		Key Module 15	Key Module 40 - 80		Key Module 15	Key Module 40 - 80	
OpenStage 10 T	-	-	-	-	0,7	-	0,7	-	0,8	-	0,8	-
OpenStage 15 T	-	-	-	-	0,6	-	0,6	-	0,7	-	0,7	-
	1	-	-	-	0,7	-	0,7	-	0,8	-	0,8	-
OpenStage 30 T	-	-	-	-	0,6	-	0,6	-	0,6	-	0,7	-
	1	-	-	-	0,7	-	0,7	-	0,8	-	0,8	-
	-	-	1	1	-	1,8	-	1,8	-	1,9	-	2,0
OpenStage 40 T	-	-	-	-	0,7	-	0,7	-	0,9	-	1,0	-
	-	1	-	-	-	1,8	-	2,3	-	2,6	-	2,7
	-	2	-	-	-	2,2	-	3,4	-	3,7	-	3,8
	1	-	-	-	0,8	-	0,8	-	1,1	-	1,1	-
	-	-	1	1	-	2,0	-	2,0	-	2,3	-	2,4
OpenStage 60 T	-	-	-	-	-	2,6	-	5,5	-	5,5	-	5,7
	-	1	-	-	-	3,1	-	6,4	-	6,4	-	6,7
	-	2	-	-	-	3,5	-	7,5	-	7,5	-	7,7
	-	-	-	1	-	5,7	-	8,6	-	8,6	-	8,8
	-	2	-	1	-	6,6	-	10,6	-	10,6	-	10,6
OpenStage 60 T (new Display)	-	-	-	-	-	2,3	-	4,3	-	4,3	-	4,5
		1	-	-	-	2,5	-	5,0	-	5,0	-	5,2
		2	-	-	-	2,7	-	5,8	-	5,8	-	6,0
		-	-	1	-	5,5	-	8,2	-	8,2	-	8,4
		2	-	1	-	5,9	-	9,4	-	9,5	-	9,7
		-	1	-	-	4,2	-	6,1	-	6,2	-	6,5
			1	1	-	7,8	-	9,4	-	9,9	-	10,1
Busy Lamp Field	Keine LEDs an				0,2							
	45 LEDs an				0,7							
	90 LEDs an				1,3							

1.2.2.16 Ranges

The transmission range for OpenStage T with a Ø 0.6 mm PVC cable is at least 1000 meters.

The tables below show the OpenStage range values depending on specific installations / configurations:

	Feeding Range for 0.6mm cable (4),(5),(6)		
		U(HiPath) = 42V	**U(HiPath) = 48V**
	Pmax [W]	**range [m]**	**range [m]**
OpenStage 10T	1,5	1800	2400
OpenStage 15T	1,7	1600	2100
OpenStage 15T with OpenStage Key Module 15	2,1	1200	1800
OpenStage 30T	1,6	1700	2300
OpenStage 30T with OpenStage Key Module 15	1,9	1400	2000
OpenStage 40T	2,2	1100	1600
OpenStage 40T with OpenStage Key module 15	2,5	800	1400
OpenStage 60T	2,2	1100	1700

	Feeding Range for 0.8mm cable (4),(5),(6)		
		U(HiPath) = 42V	**U(HiPath) = 48V**
	Pmax [W]	**range [m]**	**range [m]**
OpenStage 10T	1,5	3100	4200
OpenStage 15T	1,7	2800	3700
OpenStage 15T with OpenStage Key Module 15	2,1	2100	3100
OpenStage 30T	1,6	3100	4100
OpenStage 30T with OpenStage Key Module 15	1,9	2600	3600
OpenStage 40T	2,2	1900	2800

OpenStage 40T with OpenStage Key Module 15	2,5	1400	2400
OpenStage 60T	2,2	1900	3000

	Feeding Range for 0.4mm cable (4),(5),(6)		
		U(HiPath) = 42V	**U(HiPath) = 48V**
	Pmax [W]	**range [m]**	**range [m]**
OpenStage 10T	1,5	700	1000
OpenStage 15T	1,7	600	900
OpenStage 15T with OpenStage Key Module 15	2,1	500	700
OpenStage 30T	1,6	700	1000
OpenStage 30T with OpenStage Key Module 15	1,9	600	800
OpenStage 40T (core)	2,2	400	600
OpenStage 40T with OpenStage Key Module 15	2,5	300	600
OpenStage 60T	2,2	400	700

Notes:

1) The maximum range is the minimum value of transmission range and feeding range.

2) The actual range depends on the characteristics of the used cable (loss, diameter).

3) For transmisson ranges of different cable types please refer to next page (column 16dB).

4) If a local power supply is used, the feeding range is not relevant.

5) If any option except OpenStage 15 keymodule is connected to the phone, a local power supply shall be used.

6) All range values in [m] are rounded down to Nx100m.

Cable type	Cable values (at 192kHz)			maximum range [m]		
	Delay	Loss	R_{Loop}	Delay	Loss	
	µs/km	dB/km	Ω/km	20.8µs	16dB	14,5dB
J-2Y(ST)Y4x2x0,51 LG ICCS Data5	6,3	9,1	185	3300	1700	1500
J-2YY ...x2x0,6/1,4 VIMF FR ICCS	6,3	9,1	130	3300	1700	1500
J-02YSCY4x2x0,5 PIMF ICCS300S	5,5	9,4	190	3800	1700	1500
J-02YS(ST)CY4x2x0,55 PIMF ICCS Data6	5,5	8,8	164	3800	1800	1600
J-2Y(ST)Y < 10x2x0,6 STIIIBD	6,3	10,8	130	3300	1400	1300
J-2Y(ST)Y ≥ 10x2x0,6 STIIIBD	6,3	8,8	130	3300	2100	1900
J-2Y(ST)Y < 10x2**x0,8** STIIIBD	6,3	n.v.	73,2	3300	n.v.	n.v.
J-2Y(ST)Y ≥ 10x2**x0,8** STIIIBD	6,3	n.v.	73,2	3300	n.v.	n.v.
Installation cable < 10x2x0,6 **	8	15,6	130	2600	1000	900
Installation cable ≥ 10x2x0,6 **	8	11	130	2600	1400	1300
Installation cable < 10x2**x0,8** **	8	14	73,2	2600	1100	1000
Installation cable ≥ 10x2**x0,8** **	8	8	73,2	2600	2000	1800
Outdoor cable < 10x2x0,6 STIIIBD **	6,3	9,6	130	3300	1600	1400
Outdoor cable ≥ 10x2x0,6 STIIIBD **	6,3	7,4	130	3300	2100	1900
Outdoor cable < 10x2**x0,8** STIIIBD **	6,3	n.v.	73,2	3300	n.v.	n.v.
Outdoor cable ≥ 10x2**x0,8** STIIIBD **	6,3	6,1	73,2	3300	n.v.	n.v.
Outdoor cable ...x2**x0,4** *	6,3	10,5	300	3300	1500	1300
A-PM ...x2x0,6 STIIILG oder BD *	5,5	6	130	3800	2600	2400
A-PM ...x2**x0,8** STIIILG *	5,5	4,5	73,2	3800	3500	3200

* do not use for new installations

** see examples below

n.v. no values available

Examples for installation cables: J-Y(ST)Y Nx2x0,6/0,8 LG
J-YY Nx2x0,6/0,8 BD
J-H(ST) H Nx2x0,6/0,8 BD FR NC
JE-H(ST) H Nx2x0,8 BD FRNCX
Examples for outdoor cables: A-2Y(L) 2Y Nx2x0,4/0,6/0,8 ST III BD 1PPERF
A-2YF(L) 2Y Nx2x0,4/0,6/0,8 ST III BD
A-2Y0F(L)2Y Nx2x0,6/0,8 ST III BD
A-02YS0F(L)2Y Nx2x0,6/0,8 ST III BD

Cable Type	**Transmission and Feeding Range [m], U=48V**						
OpenStage	**10T**	**15T**	**15T + Key Mod.**	**30T**	**30T + Key Mod.**	**40T**	**60T**
J-2Y(ST)Y4x2x**0,51** LG ICCS Data5	1700	1500	1200	1600	1400	1100	1100
J-2YY ...x2x0,6/1,4 VIMF FR ICCS	1700	1700	1700	1700	1700	1500	1700
J-02YSCY4x2x**0,5** PIMF ICCS300S	1600	1500	1200	1500	1300	1000	1100
J-02YS(ST)CY4x2x**0,55** PIMF ICCS Data6	1800	1700	1400	1800	1600	1200	1300
J-2Y(ST)Y < 10x2x0,6 STIIIBD	1400	1400	1400	1400	1400	1400	1400
J-2Y(ST)Y ≥ 10x2x0,6 STIIIBD	2100	2100	1800	2100	1800	1500	1700
J-2Y(ST)Y < 10x2**x0,8** STIIIBD	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.
J-2Y(ST)Y ≥ 10x2**x0,8** STIIIBD	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.
Installation cable < 10x2x0,6 **	1000	1000	1000	1000	1000	1000	1000
Installation cable ≥ 10x2x0,6 **	1400	1400	1400	1400	1400	1400	1400
Installation cable < 10x2**x0,8** **	1100	1100	1100	1100	1100	1100	1100
Installation cable ≥ 10x2**x0,8** **	2000	2000	2000	2000	2000	2000	2000
Outdoor cable < 10x2x0,6 STIIIBD **	1600	1600	1600	1600	1600	1500	1600
Outdoor cable ≥ 10x2x0,6 STIIIBD **	2100	2100	1800	2100	1800	1500	1700
Outdoor cable < 10x2**x0,8** STIIIBD **	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.
Outdoor cable ≥ 10x2**x0,8** STIIIBD **	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.
Outdoor cable ...x2**x0,4** *	1000	900	700	1000	800	600	700

A-PM ...x2x0,6 STIIILG oder BD *	2400	2100	1800	2300	2000	1500	1700
A-PM ...x2**x0,8** STIIILG *	3500	3500	3100	3500	3500	2600	3000

Cable Type	**Transmission and Feeding Range [m], U=42V**						
OpenStage	**10T**	**15T**	**15T + Key Mod.**	**30T**	**30T + Key Mod.**	**40T**	**60T**
J-2Y(ST)Y4x2x**0,51** LG ICCS Data5	1300	1100	800	1200	1000	700	800
J-2YY ...x2x0,6/1,4 VIMF FR ICCS	1700	1600	1200	1700	1400	1000	1100
J-02YSCY4x2x**0,5** PIMF ICCS300S	1300	1100	800	1200	1000	700	700
J-02YS(ST)CY4x2x**0,55** PIMF ICCS Data6	1500	1300	1000	1400	1100	800	900
J-2Y(ST)Y < 10x2x0,6 STIIIBD	1400	1400	1200	1400	1400	1000	1100
J-2Y(ST)Y ≥ 10x2x0,6 STIIIBD	1800	1600	1200	2100	1800	1000	1100
J-2Y(ST)Y < 10x2**x0,8** STIIIBD	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.
J-2Y(ST)Y ≥ 10x2**x0,8** STIIIBD	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.
Installation cable < 10x2x0,6 **	1000	1000	1000	1000	1000	1000	1000
Installation cable ≥ 10x2x0,6 **	1400	1400	1200	1400	1400	1000	1100
Installation cable < 10x2**x0,8** **	1100	1100	1100	1100	1100	1100	1100
Installation cable ≥ 10x2**x0,8** **	2000	2000	2000	2000	2000	1700	1900
Outdoor cable < 10x2x0,6 STIIIBD **	1600	1600	1200	1600	1400	1000	1100
Outdoor cable ≥ 10x2x0,6 STIIIBD **	1800	1600	1200	1700	1400	1000	1100
Outdoor cable < 10x2**x0,8** STIIIBD **	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.
Outdoor cable ≥ 10x2**x0,8** STIIIBD **	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.	n.v.
Outdoor cable ...x2**x0,4** *	700	600	500	700	600	400	400
A-PM ...x2x0,6 STIIILG oder BD *	1800	1600	1200	1700	1400	1000	1100
A-PM ...x2**x0,8** STIIILG *	3100	2400	2100	3100	2600	1700	1900

1.2.2.17 Emergency mode

The OpenStage 60 T phones offer a feature called “emergency mode”. Both phones require an external power supply, if this or the network behind fails, the phone switches to this mode and can still be used to make and receive calls without support of display, LED, USB and Key Module receiving power via the SLMO line card from the HiPath system, until power comes back again.

1.2.2.18 Software download

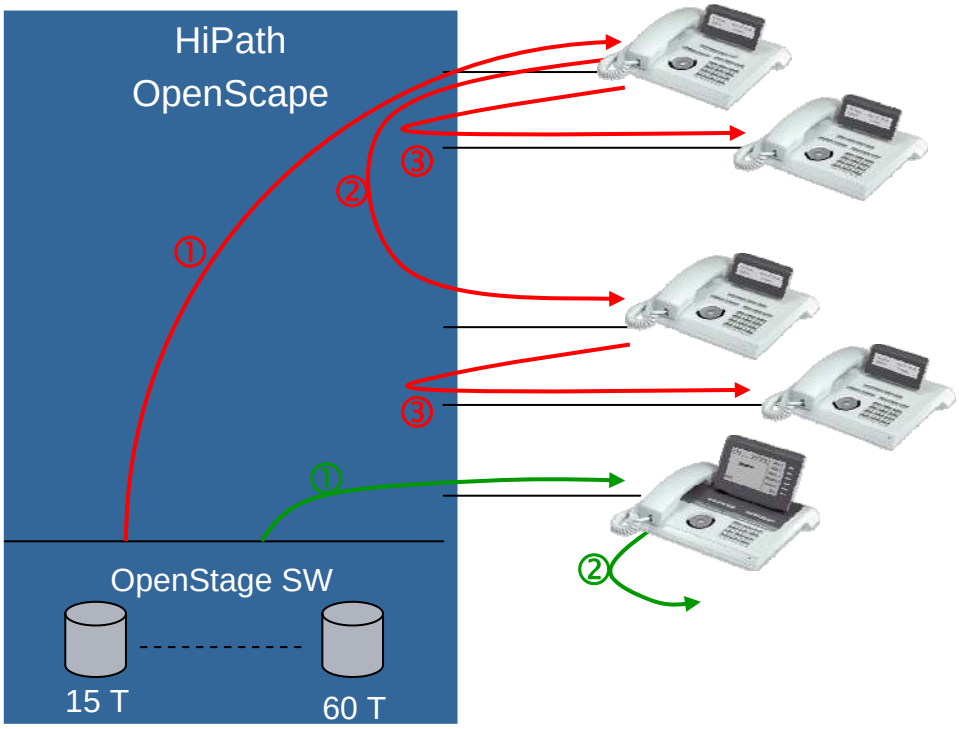
With the exception of OpenStage 10 T the SW of each OpenStage T phone can be updated via the $U_{P0/E}$-interface.

The SW bind of the related phone model is stored in the respective HiPath system. Up to date OpenStage software is available from official software sales channels (SEBA/SWS server).

SW download is initiated and controlled by HiPath Management
(For HiPath 3000 = HiPath Manager E).

Note: SW download at HiPath 4000 V4 is released at linecards SLMO24 and SLMOP, but not at STHC.

Due to the SW capacity of OpenStage 60 T a SW update via SLMO24 / SLMOP line card can take longer than for OpenStage 15 T/ 30 T / 40 T. SW upgrade is much faster if a USB stick is used alternative).



Workflow:

1. SW upload to the first “Master-Phone” via $U_{P0/E}$, D-channel
2. This Master-Phone distributes this SW bind to another phone of the same type via $U_{P0/E}$, B-channel
3. These two phones with the new SW distribute the bind to the next ones via $U_{P0/E}$, B-channel

A detailed description of functionality and download duration can be found in the sales information of the related communication platforms.

1.2.2.19 (Customer / Partner) Logo

With the exception of OpenStage 10 T each OpenStage Phone can be customized with an individual (customer / partner) logo.

OpenStage 15 T / 30 T are, like optiPoint 500, 100% driven by the communication System (stimulus). The logo is equivalent to the text string, which can be entered in the system (e.g. „HiPath 3000 V7“).

The logo for OpenStage 40 T and 60 T is a jpg- or png-graphics, which can be loaded into the phone via the respective Management Tool.

Supported formats:

OpenStage 40: .bmp

OpenStage 60: .jpg, .png

For detailed functionality and availability please refer to the sales information and documentation of the respective communication system.

1.2.2.20 OpenStage Manager SW (PC-phone connection via USB)

OpenStage Manager is a free PC software application (available in German and English) that offers customers a user-friendly way to personalize (manage phonebook entries, load pictures/ring tones, Backup/Restore of personal data, etc.) their OpenStage 60T phones.

The Software is available via the SWS Server and cannot be deployed via the Internet yet, due to legal restrictions.

Once this program has been installed, the Connection Service connects the phone and the PC. Following configuration it runs in the background without further user interaction.

User data access is protected by the user password stored on the phone to prevent third parties from accessing private data.

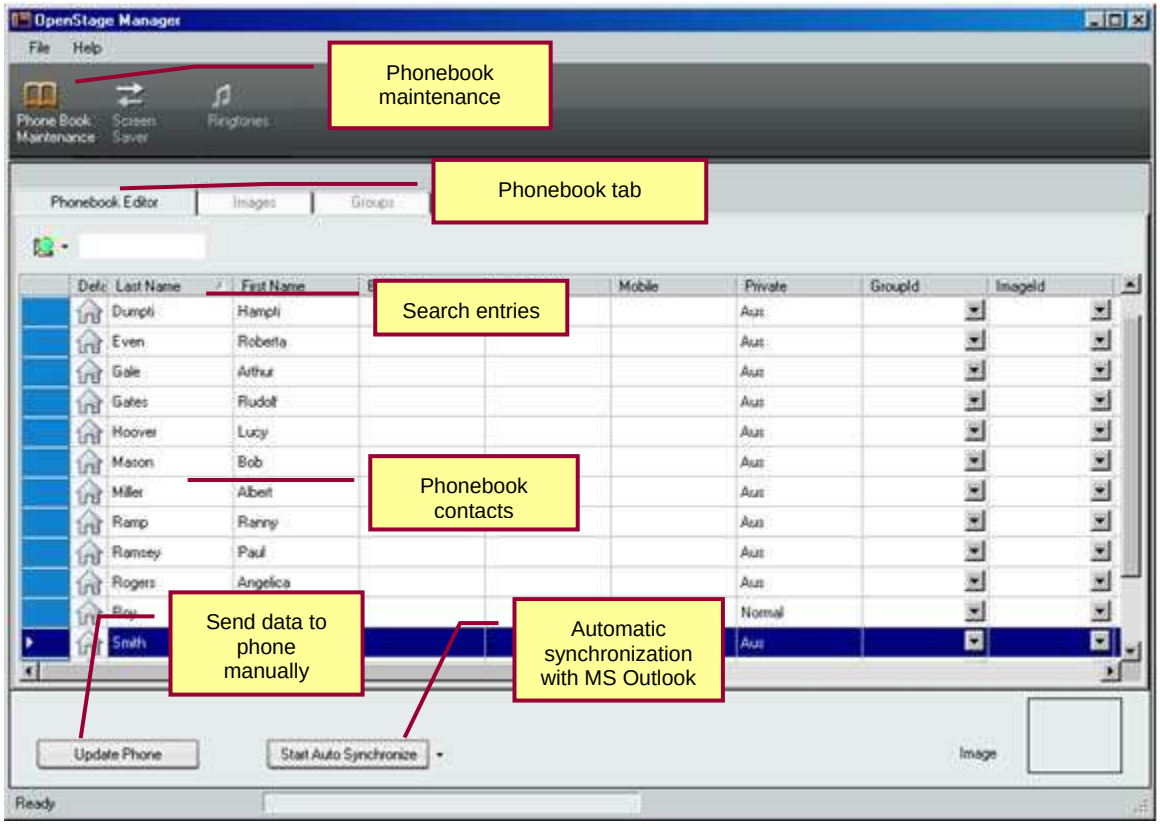
If no user password has been set, the Connection Service will not establish a connection and the OpenStage Manager will not work.

The Manager interface is divided into three administration areas, one for managing the Phonebook, for managing the slide show and the ring tones

Further information (supported Operating Systems e.g.) can be found here:

http://wiki.unify.com/wiki/OpenStage_Manager

Phonebook maintenance



The Manager displays the Phonebook in tabular form on the PC monitor. The user can manually add new entries and change or delete existing entries. As this table uses the same operating principles as Microsoft Excel, operating sequences are already familiar to the user.

A user-friendly search function makes it easy for users to quickly find specific entries for editing.

The Phonebook can be sorted in ascending and descending order by each keyword (department name, for instance).

Selected Microsoft Outlook contacts can be transferred to the Phonebook using copy-and-paste or drag-and-drop operations. Similarly, selected entries can be transferred from the Phonebook to Outlook.

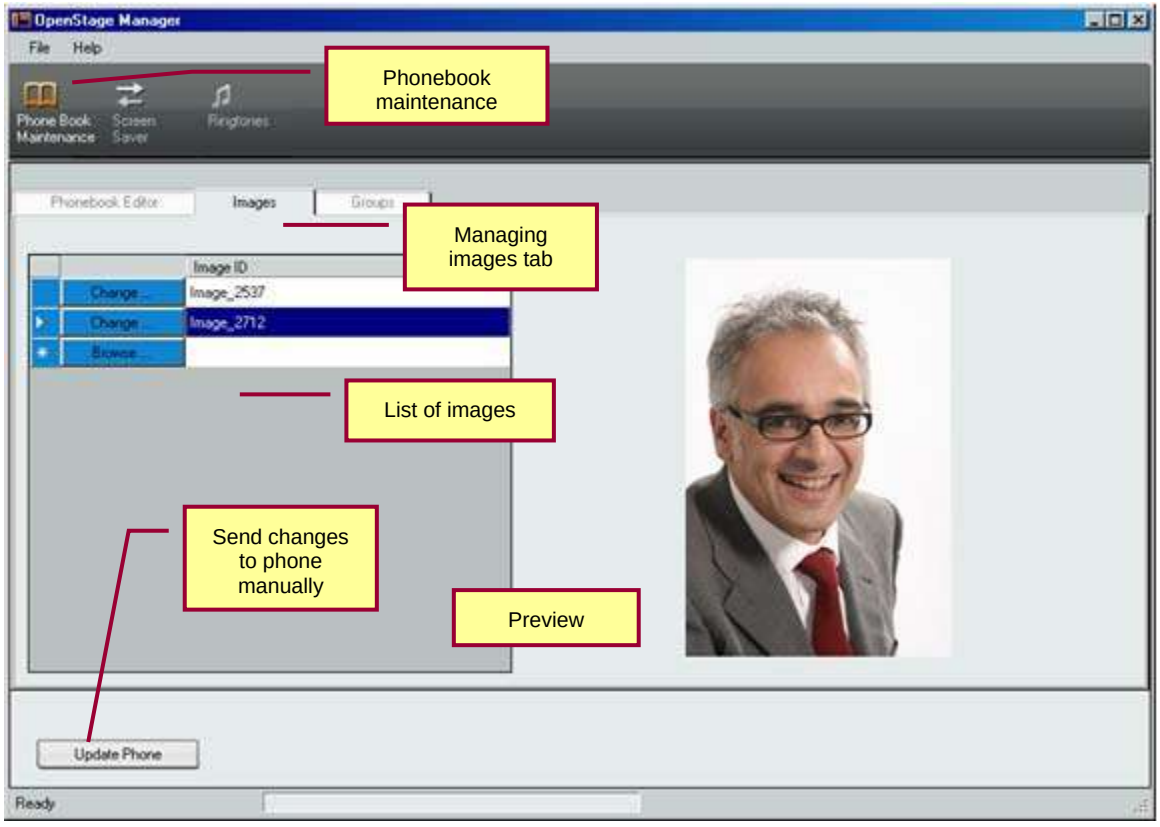
Personal images can be assigned by simply selecting an image file from the 'Images' database.

The Phonebook can be fully synchronized with Outlook Contacts at the push of a button. Manager then automatically synchronizes the contacts with the Phonebook. The synchronization direction can be configured (bidirectional, from Outlook to Phone or vice versa).

Additionally it’s possible to import csv-files.

Backup/Restore allows the user to save all user specific personal data he loaded to or entered into the phone on a PC and to restore this file afterwards.

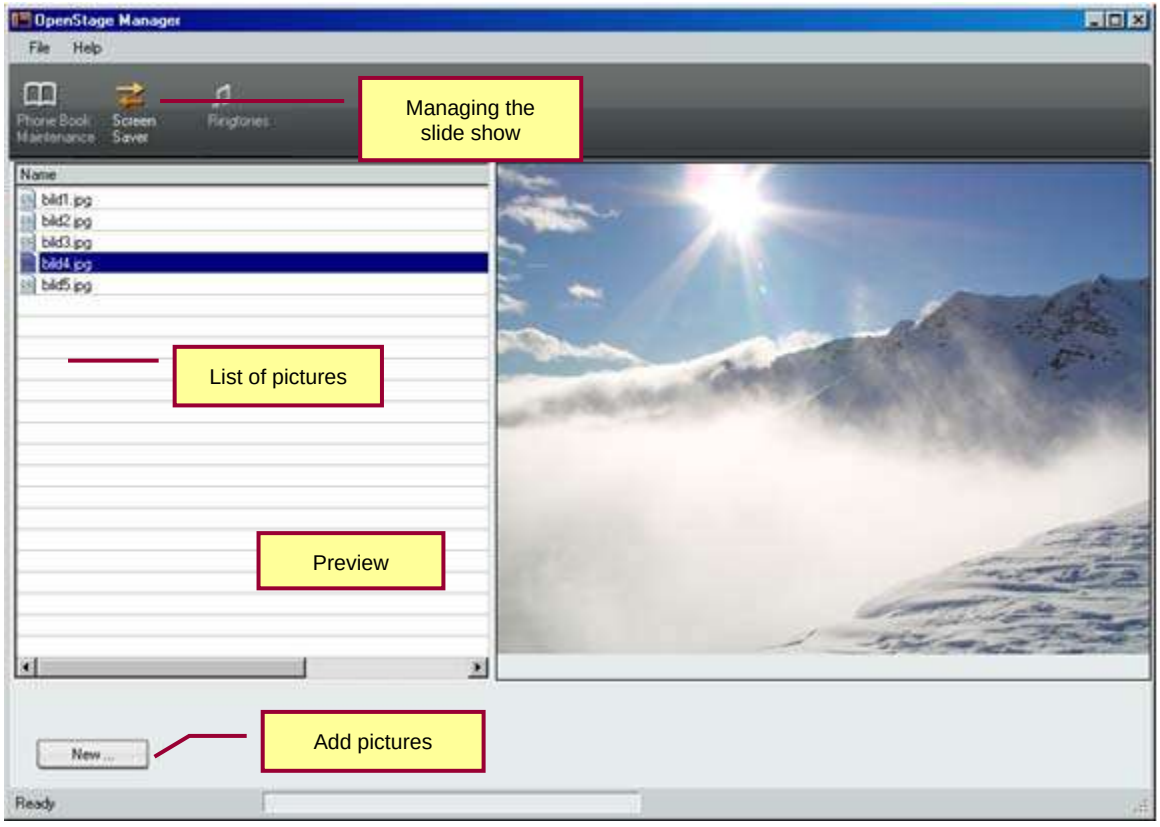
Managing images



Personal images are also arranged in tabular form for management purposes in the image database. This makes it easy for user to add new images and delete or rename an old image. Images are shown in a preview window.

All standard image formats are supported (.JPG and .PNG). Phone Manager automatically ensures that images are correctly scaled meaning that images can be transferred from high-resolution sources (such as, digital cameras) without the need for manual conversion.

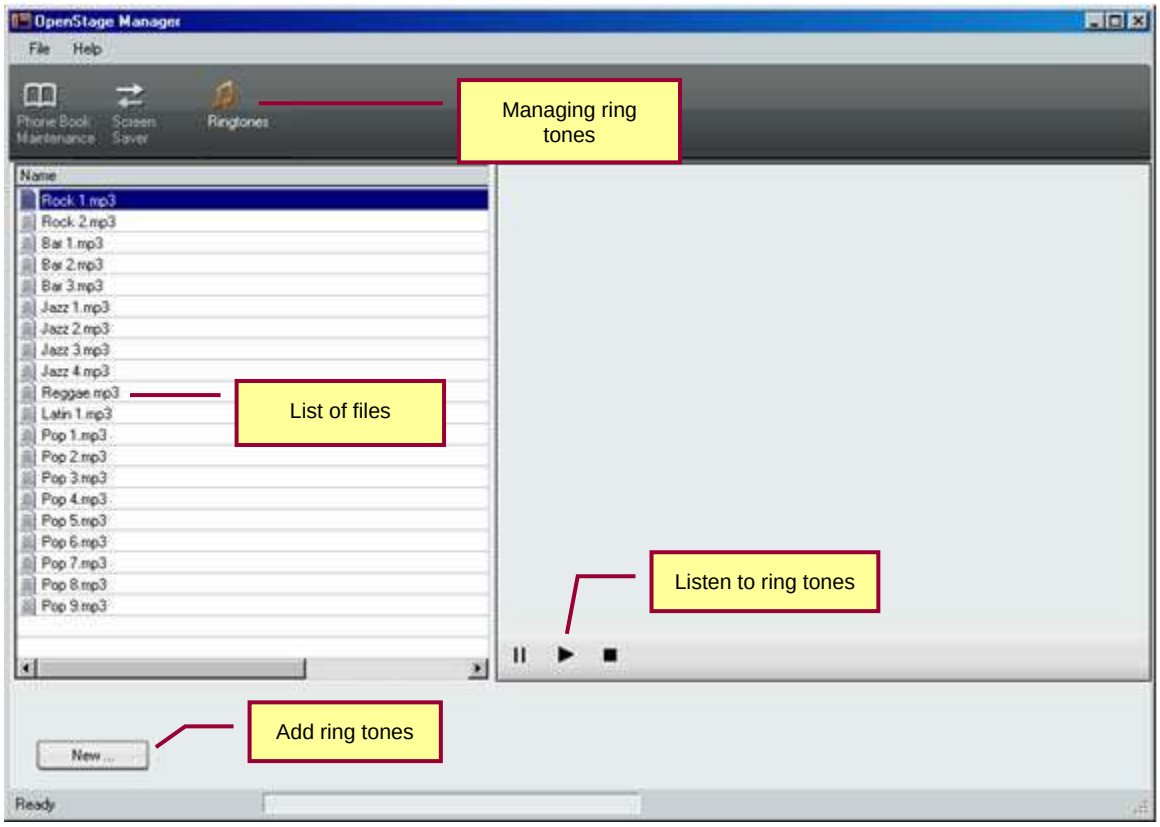
Managing the slide show



The user can add images using drag-and-drop operations e.g. or delete selected images.

All standard image formats are supported (.JPG and .PNG). Phone Manager automatically ensures that images are correctly scaled meaning that images can be transferred from high-resolution sources (such as, digital cameras) without the need for manual conversion.

Managing polyphonic ring tones



Drag&drop operation works here as well. It's possible to pre-listen to the ring tones via the PC speaker.

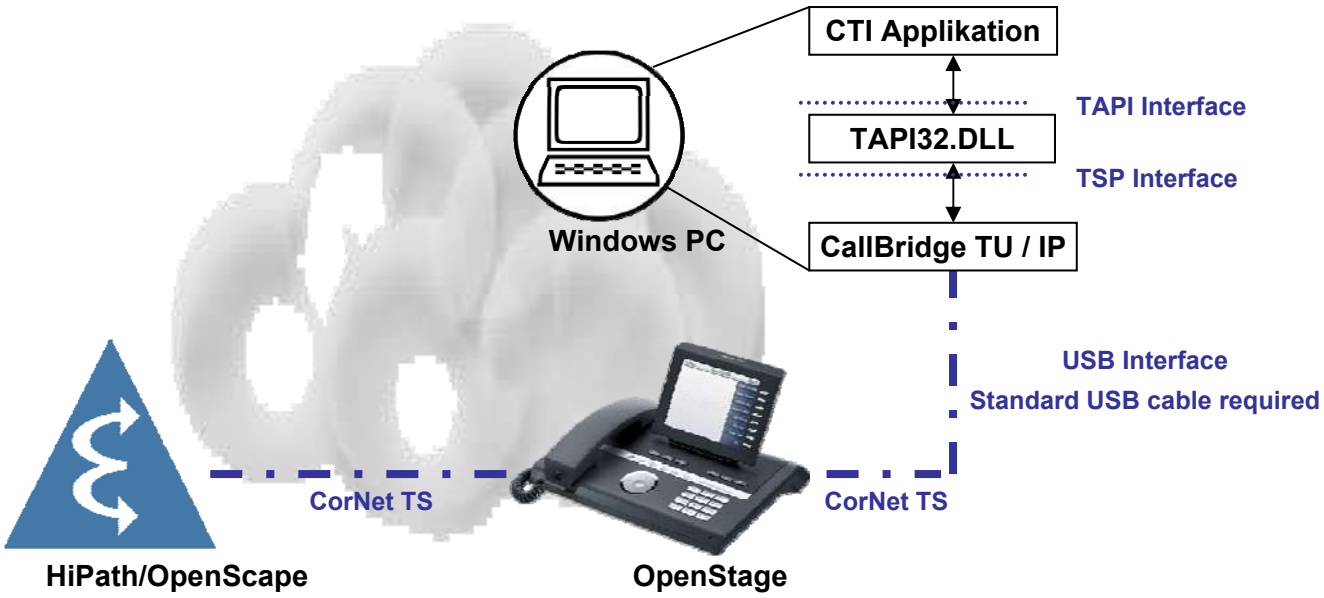
Available memory

1.2.2.21 1st party CTI (CallBridge Collection V2)

CallBridge Collection is a collection of three TAPI service providers (TSP):

- CallBridge TA for optiset E (via V.24-cable)
- CallBridge TU for optiPoint 500/600, OpenStage 30/40 T (via USB-cable)
- CallBridge IP for optiPoint 410/420/600 HFA, OpenStage HFA, OpenStage 60 T (via LAN-connection)

Each of these TSPs allows you to control a telephone using your computer. This type of Computer Telephony Integration is known as "First-Party CTI".
There are different USB driver for OpenStage TDM phones implemented and therefore different CallBridge SW has to be installed, depending on phone type.
OpenStage 30 T / 40 T:
For CallBridge TU a USB-driver (Version >= 2.1.1.0) has to be installed, which uses a virtual COM-port (e.g.. COM3).
OpenStage 60 T:
For CallBridge IP a RNDIS- driver has to be installed.
The installed RNDIS- driver ("IP over USB") applies a virtual network adapter in the PC.
A USB- cable provides the connection between phone an PC.
CallBridge SW is available for download via the SWS.



CallBridge Collection V2 is released for OpenStage 30 T / 40 T / 60 T at HiPath 3000 >=V7 und HiPath 4000 >=V4 (for OpenStage 30T at HiPath 4000 V3 too).
Supported Phone SW:

- OpenStage 30 T >= V2 R0.2.0
- OpenStage 40 T >= V1 R0.21.0
- OpenStage 60 T >= V1 R3.27.0

CallBridge Collection kann auf folgenden Microsoft Betriebssystemen eingesetzt werden:

- Windows 2000
- Windows XP 32 Bit
- Windows Vista 32 Bit
- Windows 7 32 Bit
- Windows Server 2003 32 Bit

- Windows Server 2008 32 Bit

CallBridge Collection cannot be used at a telephone, which uses a multi-line configuration (keyset, MULAP).

1.2.2.22 Personalization

Users can customize their OpenStage 60 T phones to suit their individual requirements and preferences. For example, they can assign an image to an entry in the Personal Phonebook so that it appears on the phone's display when they receive a call and during a conversation with the relevant contact. All standard image formats are supported (.JPG and .PNG).

OpenStage 60 T users choose between two different skins for their phone's user interface (“silver blue“ and „anthrazit orange“).

By loading images to the OpenStage 60 T, the user can create a personal "slide show" that plays on the phone's display after a set inactivity timeout. All standard image formats are supported (.JPG and .PNG).

Ring tones:

OpenStage 10T/15T/30T & 40T:

These phones provide 16 different ring tones. The tones are melodies generated by the HiPath system, like optiPoint. The feature “Distinctive Ringing” is available.

To access the setting of the ring tones the user has to press the +/- keys in idle state.

OpenStage 60T:

Setting the ring tones is done via the User Menu (-> Audio -> Settings). If no ring tone file (mp3, wave, midi) has been selected, the phone uses the HiPath generated ring tones, like optiPoint. The cadence of this ring tone cannot be changed by the user. The feature “Distinctive Ringing” is available.

OpenStage 60T is able to play wave, midi and mp3 ring tones. The user can choose one of the ring tones in the menu mentioned above. If one of the polyphonic tones has been chosen by the user, this then becomes the standard ring tone overriding the “Distinctive Ringing” feature.

The OpenStage Manager Software can be used to load ring tones to the phone.

The file size of a ring tone must not exceed 1.000.000 Bytes. It’s recommended to sample the music with 32 Kbit/s and to shorten the melodies to a length of 30 seconds. This leads to a reasonable proportion between quality, file size and duration/length.

The OpenStage Manager has to be used to delete personal data from the OpenStage 60T.

Further information can be found in the Clients&Devices Wiki:

http://wiki.unify.com/wiki/Devices

1.2.2.23 Available (phone) memory

OpenStage 60T:

All personal data, such as, Phonebook entries, images, etc. are stored in a memory that can be accessed by the user. The memory reserves exclusive space for exactly 1.000 Personal Phonebook entries. Approximately 8 MB of free memory is available for all other data.

1.2.2.24 RFID tag

All OpenStage phones (except OpenStage 10 T) are shipped with a passive RFID tag for storing the phone's Asset ID and part number. It will then be possible to provide the serial numbers of all phones supplied when placing an order. This information can be used to create an inventory list of all phones and ultimately demonstrate whether the phone was delivered/sold by our own sales channel (guarantee).

1.2.2.25 Bluetooth

OpenStage 60 T comes with a Bluetooth 2.0 interface. This function can be activated or deactivated for each phone in the administrator part of the Service menu. Bluetooth is deactivated by default. If Bluetooth was released for a phone by the administrator, the user can activate or deactivate this function as required to prevent misuse.

Supported profiles are the Headset and Hands-Free Profile for use of cordless headsets or confernence unit and the "Object Push Profile" that permits sending and receiving of virtual business cards (vCards).

Multiple vCards are only supported if the other Bluetooth device sends these vCards as a sequence of separated vCards. A specific "multivCard" format (a vCard that recursively contains other vCards) is not supported.

See also chapter headsets.

1.2.2.26 Conference Unit

The connection of a conference unit (external loudspeaker and microphone) is released for:

- OpenStage 60 T via Bluetooth starting with V1.R3.27 and via cable (headset jack) starting with V2.R0.20.0
- OpenStage 40 T via cable (headset jack) starting with V1.R0.26.0

More up to date information about certified products can be found here:
http://wiki.unify.com/wiki/Conference_Unit

If the device is connected to the OpenStage 60 T phone via Bluetooth after the normal pairing process the user has to configure the device as a conference unit (not headset) in the OpenStage menu (User -> Configuration -> Bluetooth -> Paired devices). This setting adjusts optimized acoustic parameters and additionally leads to a more intuitive handling; the conference unit is now being activated via the loudspeaker key at the phone and not the headset key.

If the device is connected to the headset jack of OpenStge 40T/60T an optional cable from the device vendor is required.

If the device is connected to the headset jack of OpenStage 60T the following settings are necessary in the user menu to configure the conference unit (Audio -> Audio settings -> headset interface -> Conference unit -> Conference unit ON).

If the device is connected to the headset jack of OpenStage 40T the following settings are necessary in the user menu to configure the conference unit (Audio accessorie -> Conference unit -> Conference unit ON).

1.2.2.27 Headsets

The following headsets have been tested in our acoustic lab and we recommend these for the use with OpenStage:

Corded Headsets

Jabra by GN Netcom

- Jabra BIZ 2400 Duo (2489-825-109) for RoW only - not for USA; capable of narrow band and wide band
- Jabra BIZ 2400 IP Mono (3in1) (GN2486-825-109), for RoW only - not for USA; capable of narrow band and wide band

Plantronics

- Plantronics SupraPlus Wideband (HW251N, HW261N) for RoW only - not for USA !! Only the variants with following Plantronics order numbers (currently not orderable anymore) are recommended: SupraPlus HW251N: 75100-07 and for SupraPlus HW261N: 75101-07; capable of narrow band and wide band
- Plantronics Encore Pro monaural (HW291N) for RoW only - not for USA; capable of narrow band and wide band
- Plantronics Encore Pro binaural (HW301N) for RoW only - not for USA; capable of narrow band and wide band
- Plantronics Entera Duo (HW121N) for RoW only - not for USA; capable of narrow band and wide band

Cordless Headsets (either DECT or Bluetooth based, using a base station for phone connection)

Jabra by GN Netcom

- GN9356-607-401, Version A; for RoW and USA; capable of narrow band only
- Jabra PRO 920 (920-25-508-101, Version A, FW 1.8.1); for RoW and USA; capable of narrow band only. This headset is rated “acceptable” for OpenStage. But because of the TX Squelch issue (background noise suppression may be perceived negative but can be switched off) Jabra PRO 920 is approved for use with OpenStage only under reserve.
- Jabra PRO 9470 (9470-26-904-101, Version A,FW 1.42.7); for RoW and USA; capable of narrow band and wide band
- Jabra Pro 9460 (9460-25-707-101, Version A); for RoW and USA; capable of narrow band and wide band
- Jabra Pro 9460 Duo (9460-29-707-101, Version A, FW 1.49.9); for RoW and USA; capable of narrow band and wide band
- Jabra GO 6470 (6470-15-207-501, Version A, FW 4.0.18); for RoW and USA; capable of narrow band only
- GN 6210-01 (Version C); for RoW only - not for USA; capable of narrow band only

Plantronics

- Savi Office WO100 (W01Base + WH100 headset); for RoW and USA; capable of narrow band only
- Savi Office WO200 (W01Base + WH200 headset); for RoW and USA; capable of narrow band only
- Savi Office WO300 (W01Base + WH300 headset); for RoW and USA; capable of narrow band only

- Savi Office WO350 (W01Base + WH350 headset); for RoW and USA; capable of narrow band only

The following OpenStage SW releases are needed to configure cordless headsets properly:

- OpenStage SIP phones: starting with SW version V1R5

Bluetooth headsets

- Jabra Pro 9470 (9470-26-904-101, Version A, FW 1.42.7) for RoW and USA; capable of narrow band only
- Jabra Go 6430 (6430-17-20-201, Version A); for RoW and USA; capable of narrow band only
- BT620 for RoW only - not for USA; capable of narrow band only
- BT8010 for RoW only - not for USA; capable of narrow band only
- BT8040 for RoW only - not for USA; capable of narrow band only
- GN6210-01 for RoW only - not for USA; capable of narrow band only
- JX10 for RoW only - not for USA; capable of narrow band only
- M5390 with ear-hook (used without Base, direct BT-connection to the phone), for RoW only - not for USA; capable of narrow band only
- BT530 [1] for RoW only - not for USA; capable of narrow band only

[1] After Switch ON the Headset, the reconnect must be initiated via the menue on the OpenStage phone.

Plantronics

- Savi Go (WG100 headset); for RoW and USA; capable of narrow band only
- Discovery 925; for RoW only - not for USA; capable of narrow band only
- Discovery 665; for RoW only - not for USA; capable of narrow band only

Different headsets may have varying switching times. OpenStage supports the Bluetooth "Headset Profile" and the "Hands Free Profile". Additional headset specific features may not be supported. The Bluetooth headset audio quality may be impaired by other Bluetooth devices in vicinity.

See also: http://wiki.unify.com/wiki/Headsets

Headsets should be sourced directly from the relevant vendor. The key criterion here is compliance with 121-TR9-5 (corded) or 121-TR9-5* (cordless).

Ask the headset supplier to get the right (adapter) cable for your headset which fits directly into the OpenStage headset socket.

Note:

> Starting with V1R3.18 (OpenStage 60 T) and V1R0.21 (OpenStage 40 T) the headset device type (wired or cordless) has to be configured by the user in the OpenStage menu. This optimizes the acoustics, especially when using DECT-based headsets.
>
> The third setting (Conference Unit) which can be seen here is to configure a conference unit connected to the headset interface.
>
> The activation of “Open Listening” is not recommended in case of using Bluetooth headsets, because of quality limitations.

1.2.2.28 OpenStage HW Changes and necessary Software

The following new wiki page shows an overview of OpenStage hardware changes and necessary software versions. Furthermore, it is also described which effects and erros may occur, if a wrong software version is used. For details please refer to
http://wiki.unify.com/wiki/OpenStage_Hardware_Changes_and_Necessary_Software_Versions

1.3 Customer Benefits

- OpenStage is primarily a business tool to improve your productivity.
  - Customizable quick access to important functions and features, e.g. speed dials, conferencing, transfer, hold, etc.
  - Easy to access to contacts and speed dials
  - Personal call log allows you to see missed calls and immediately call back
  - Open Interfaces – USB and Bluetooth for maximum connectivity options
  - User mobility / Flexible office
  - OpenStage manager PC software lets you customize your phone or update your phonebook
- New intuitive and rich communication experience. A new generation of stylish, tactile and engaging devices for a new era in people centric interaction, incorporating innovative features and control elements normally associated with mobile phones, e.g.
  - The stylish design is a result of extensive user research
  - Designed to be easy to use – A new more intuitive user interface, smooth, clear & ergonomic lay-out of functions, simple to navigate with touch sensitive modern and innovative control elements (TouchGuide, TouchSlider + touch keys) with large adjustable displays to suit all lighting conditions
  - Designed for a professional modern image - an excellent match between minimalist design with the right level of modernity and exclusivity
  - Customizable – Personal phonebook (with pictures), screen saver, picture downloads, skins, downloadable ring tones
  - Connectable – The ability to synchronize your personal phonebook with Outlook contacts, to beam contacts to and from your mobile phone, to use a Bluetooth headset to give personal mobility, or plug in a wide range of peripherals
- Superior Quality. Not all phones sound the same. You cannot afford to compromise on voice quality because when people talk on the phone they use only 15% of their communication capacity. People talk to make your business work.
  - Handset and base both designed to deliver maximum acoustic quality.
  - Full duplex communication
  - High quality components (speaker and microphone)

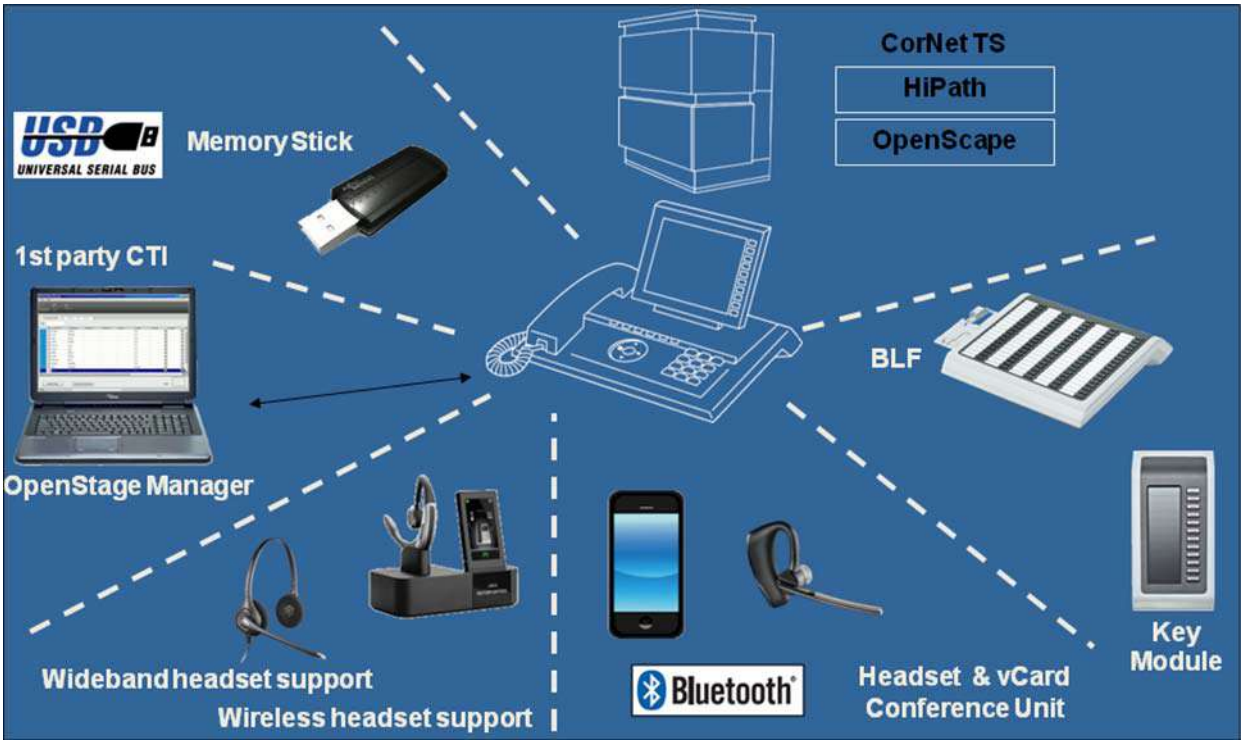
1.3.1 Unique Selling Proposition (USP)

Based on the full OpenStage feature set, which will be made available in several feature steps.

- Exclusive phone value through design and use of color/materials
- Innovative controls (TouchGuide, TouchSlider, touch keys)
- Displays used, especially for OpenStage 60 T, in regard to size (5.7"), resolution (QVGA = 320*240 pixels), and quality (TFT).
- Simple and intuitive operation over TouchGuide, TouchSlider, and capacitive function keys
- Wide-ranging personalization options (skins, picture clip, slide show, ring tones)
- Top-quality handset acoustics and in speakerphone mode (thanks to handset design, speakers used, incl. speaker housing)
- Wide-ranging options for individual customization and enhancement (key modules, busy lamp field, adapters, corded or cordless headsets, etc.)

1.4 Implementation and Networking Scenarios

1.4.1 Configuration Overview



1.5 Licensing

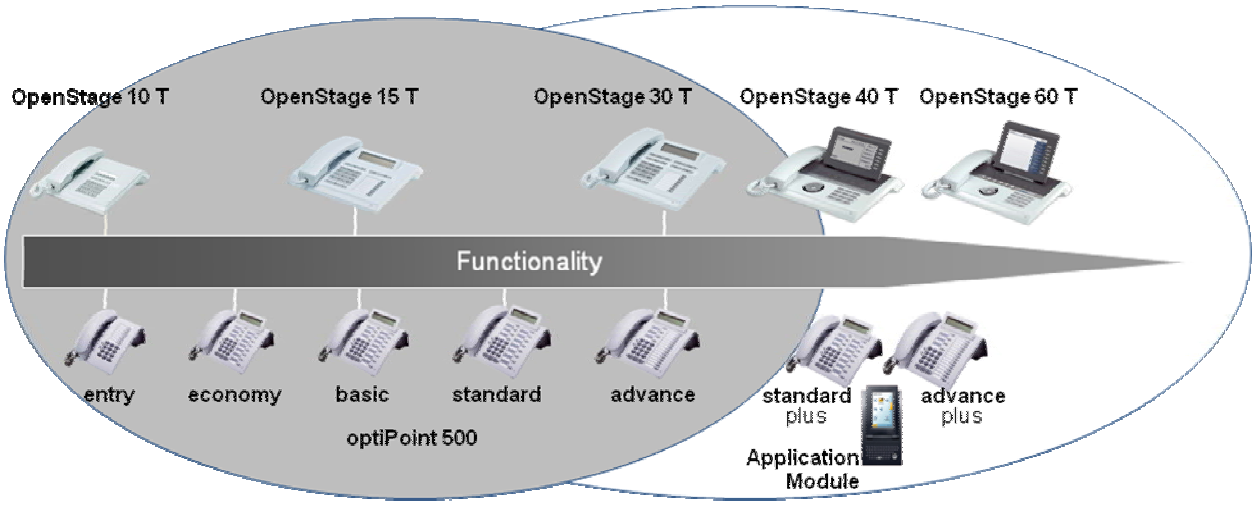
OpenStage phones do not require a special phone license.
Licensing is done via the Communication System.

1.6 Positioning and Migration

Migration from optiPoint to OpenStage is not mandatory.

OpenStage TDM phones can be operated in parallel to optiPoint 500 behind a HiPath system.

Positioning:



- Well balanced portfolio covering the complete range
- Each phone is clearly positioned against own and competitors portfolio (see also chapter 2.5)
- Enhance devices portfolio with High-End / Executive phone (OpenStage 60 T)
- OpenStage 60 T is beyond all competitors
- Market perceived value to compensate price erosion
- Replace optiPoint in mid- and high-end segment

1.7 Services

A whole range of different services from the areas "Lifecycle Services", "Managed Services", and "Professional Services" are available.

1.8 Positioning in Relation to Products in the Unify Product Range

2 Sales Information

2.1 Area of Application, Commencement of Marketing and Delivery

2.1.1 Customer Information on Commencement of Marketing and Delivery

As a customer of Unify Software and Solutions GmbH & Co.KG , you can obtain further information about this from your country-specific Unify organisation.

2.2 Sales Objectives and Target Groups

- To satisfy core customer requirements with OpenStage
- Ideally, to migrate all previous-generation Unify phones (set phones, optiset, optiPoint) to OpenStage medium-term.
- To trigger a pull effect to speed up platform/HiPath migration
- To gain market recognition for OpenStage for its innovativeness
- To actively market added value and innovation, especially for OpenStage 60 T, to combat the general downturn in prices.
- To mount selective attacks on leading competitors based on design, quality rating, and user interface (see the section on competition)
- To promote an emotional attachment to the terminal through design and personalization options

2.2.1 Target Group

The target group for OpenStage takes in all corporate customers, and particularly existing HiPath system customers. OpenStage is a global branch-neutral product.

2.3 Marketing Structure

Every OpenStage phone has exactly one order number that precisely defines both the hardware/device type and the preinstalled software. The phone is ready for operation ex works.

If necessary an external power supply has to be ordered separately. Different connector versions are available.

2.4 Supporting Sales Information

In general we'll offer individual information and documents for each target group:

Phone User:

- User Manuals
- Short Manuals (Operating Principles)
- Web Based Training

Sales, Technical Sales/Support, Project Planer, Service

- Sales Information
- TI Online / AKABAM
- Product-Homepage, NetInfo
- Web Based Training
- Trainings offered by TI
- Service-Guideline
- Administration Manual

Sales, Partners, Customers

- Data sheet
- Internet Homepage

This sales information, as well as further information can be found on the OpenStage T 2 website in ECRP:
http://opus1.global-intra.net:8118/ecrp_app/docList.html?pvId=415200

2.4.1 Supporting Sales Information on the Internet

The complete product documentation is available on the Unify Partner Portal:
http://www.unify.com/us/partners/partner-portal.aspx
For other language versions, please contact your country-specific Unify organisation.

3 Prices and Contract Processing

As a customer of Unify Software and Solutions GmbH & Co.KG , you can obtain further information about this from your country-specific Unify organisation.

3.1 Export-Regulations

Certain products in our sales program are subject to the regulations governing export permits required under EU / German / US law [in accordance with the Export List (in German ‘AL’) and Export Administration Regulations (EAR)].

At the time of an offer/bid or order confirmation you can’t be sure that

- the required export license will be granted in every case
- the validation of existing export licenses covers delivery times that can arise out of unexpected delays.

If, therefore, you are aware, or if you may assume, that what you are supplying to your customer is intended for export or re-export – including indirect export and transactions with dealers – you must ensure that the following reservation is included in your quotation, order confirmation, or contract, as the case may be:

„This offer (contract, order-confirmation) and fulfillment of contract are subject to the proviso that required export licenses have been granted and there are no other impediments arising from German or other export regulations.“

4 Data Protection and Information Security

4.1 Client Information on Data Protection and Information Security

The respective country-specific provisions regarding data protection must be complied with.

5 Training Concept

5.1 Client Information on the Training Offer

As a customer of Unify Software and Solutions GmbH & Co.KG , you can obtain further information about this from your country-specific Unify organisation.

For the Federal Republic of Germany, you can obtain further information on our training offer at the following URL:

https://academy.unify.com

6 Appendix

Abbreviations and/or Terms	Explanation
BLF	Busy Lamp Field
CCFM	Centralized Configuration Management (BroadSoft)
CDP	Cisco Discovery Protocol
CE	Commaunite Europeenne
CFB	Call Forwarding Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
DHCP	Dynamic Host Configuration Protocol
DLS	Deployment Service
DN	Directory Number
DNS	Domain Name Service
DTMF	Dual Tone Multi-Frequency
FCC	Federal Communications Commission
FTP	File Transfer Protocol
HFA	HiPath Feature Access
IEEE	Institute of Electrical and Electronics Engineers
IETF	Internet Engineering Task Force
IM	International Market
IMD	In-Mold Decoration, a special type of plastic molding, is used for decorating plastic surfaces with color and/or with an abrasion resistant coat.
IP	Internet Protocol
ISP	Internet Service Provider
JDK	Java Developer Kit
LAN	Local Area Network
LDAP	Lightweight Directory Access Protocol
LED	Light Emitting Diode
MIB	Management Information Base
NAT	Network Address Translation
PBX	Private Branch Exchange
PC	Personal Computer
PDF	Portable Document Format
PoE	Power over Ethernet
PSTN	Public Switched Telephone Network
QDC	Quality Data Collection
QoS	Quality of Service
RFID	Radio Frequency Identification
ROM	Read Only Memory

Abbreviations and/or Terms	Explanation
RTP	Real Time Transport Protocol
SDK	Software Developer's Kit
SESAP	Secured Enterprise Service and Administration Platform
SIP	Session Initiation Protocol
SMR	Software Maintenance Release
SNTP	Simple Network Time Protocol
SR	Sales Representative
SRV	A DNS RR for specifying the location of services
STUN	Simple Traversal of User Datagram Protocol Through Network Address Translators
SW	Software
SWS	Software Supply Server
TDM	Time Division Multiplexing
TKZ	Technik-Kennziffer
URL	Uniform Resource Locator
USB	Universal Serial Bus
VLAN	Virtual LAN
VoIP	Voice over Internet Protocol
WAP	Wireless Application Protocol
WBM	Web Based Management
WML	Wireless Markup Language
WSP	Wireless Session Protocol