OpenStage HFA/SIP
Open Unified Communications telephones

OpenStage is a new generation of phones which sets the benchmark for Open and Unified Communications. These stylish devices provide an intuitive and engaging communication experience, incorporating innovative features.

OpenStage is the prelude to a new era of high quality and user-oriented communications solutions that, through their design concept, sustainably protect the environment and are distinguished by high energy efficiency.

IP phone models

The OpenStage IP (HFA/SIP) phone family comprises the following models:

- OpenStage 15 (ice blue or lava)
- OpenStage 20 (ice blue or lava)
- OpenStage 40 (ice blue or lava)
- OpenStage 60 (ice blue or lava)

Innovative features

The OpenStage family is intuitive in functionality and interface, integrated through interoperability with other devices, and multimodal to allow access to various services and applications.

The OpenStage family is designed to be extremely user-friendly and to simplify feature implementation. Sensorial interfaces based on advanced technology solutions (touch keys, embedded color LEDs, TouchSlider for volume control and TouchGuide navigator) as well as large, tiltable, backlit color graphical displays in TFT technology facilitate user interaction.

Soft-labeled (paperless phone) touch sensor keys can be easily programmed for specific phone functions, line/feature access, or speed dial by name.

OpenStage therefore is an ideal solution for office applications where mobility and flexibility are important factors.

Fixed feature/function keys enable easy access to frequently used phone functions such as Drop/Release, Call Forwarding, Speaker, and dedicated applications such as Phonebook, Call Log/History, Answering Machine.

OpenStage design highlights include variation of materials and colors (from molded plastic in ice blue or lava to high-end silver blue metallic lacquering and brushed aluminum).

The **OpenStage 15 SIP**, **OpenStage 20 SIP** and **OpenStage 40 SIP** telephones have been certified with the German BLUE ANGEL label (valid from software version V2R2 on). The **OpenStage 60 SIP** has also been certified with the German BLUE ANGEL label (valid for devices from hardware versions S30817-S7403-A101-50 (ice blue) and S30817-S7403-A103-50 (lava) produced from March 2014).

THE BLUE ANGEL is the first and oldest environment-related label for products and services.

The proprietor of this environmental label is the German Federal Ministry for the Environment, Nature Protection and Reactor Safety.

Unify is the first company to fulfill the high standards of THE BLUE ANGEL in protecting the environment and the climate with its VoIP telephones. That is achieved by high energy-efficiency, efficient use of materials, as well as an environmentally friendly recycling concept.

Further information can be found here:

http://www.unify.com/de/about/green-enterprise.aspx

http://www.blauer-engel.de/en/products_brands/search_products/produkttyp.php?id=559

Each OpenStage IP phone provides an integrated Ethernet switch. The network is accessed by 10/100 Base-T or, as a variant, via Gigabit Ethernet (exceptions: OpenStage 20 SIP/HFA).

All phones support 802.3af Power over LAN.

Administration

OpenStage telephones are easy to deploy and ongoing administration is simple.

The telephones can be centrally managed as part of an IT environment.

Experience ...
AudioPresence™

HD

OpenStage SIP/HFA phones offer Best-In-Class High Definition Voice – **AudioPresence™ HD**.

AudioPresence™ HD ensures that all OpenStage SIP/HFA phone users can get an immersive audio experience for voice calls and audio conferences. AudioPresence™ HD is provided across the entire portfolio of the OpenStage SIP/HFA phones.

AudioPresence™ HD leverages the standards-based G.722 high-definition audio codec, best-in-class speaker, microphone and acoustic components, as well as advanced noise rejection and echo cancellation in all OpenStage SIP/HFA phones.

SIP and HFA phone variants

Each model of OpenStage IP phones is available as a phone variant with the open standards for SIP voice communication or with the proprietary protocol of Unify (CorNet-IP, also known as HFA = HiPath Feature Access).

In addition to the standard-based SIP (RFC 3261) VoIP protocol, OpenStage SIP phones support even more features such as consultation, local 3-way conference, multilines, and team features that allow a high degree of flexibility in your IT strategy.

The OpenStage HFA (CorNet-IP) variants provide – together with an innovative user interface – a favorable access to a wide range of features of the following platforms:

· HiPath 3000
· OpenScape 4000
· OpenScape Office
· OpenScape Business

Product family

OpenStage 15

OpenStage 15 is a universal solution for efficient and professional telephony. Each succeeding model has increased feature capabilities and perceived value, culminating in the high-end OpenStage 60 model targeted at top level managers and executives.

OpenStage 15 is a full-featured speakerphone with display and eight function keys with LEDs that could be used for line keys when operated as a multiline telephone, for example.

Display
· Graphical display, 2-line monochrome (non swivel)

Keys
· Dialing keypad
· 3 fixed function keys with red LEDs
· 8 freely-programmable keys with red LEDs (extendable with key module)
· Key labeling via paper inserts
· Control keys +/-
· 3 keys for navigation

Acoustics
· Hands-free (fully duplex)
· AudioPresence™ HD

Wall-mountable

OpenStage 15
ice blue

OpenStage 15
lava

OpenStage 20

OpenStage 20 is a well equipped speakerphone. With its intuitive and interactive user interface, it is a universal solution for efficient and professional telephony.

Display

- Tiltable graphical display, 2 lines monochrome

Keys

- Dialing keypad
- 7 fixed function keys (partly equipped with red LEDs)
- Control keys +/-
- 3-way navigator

Acoustics

- Hands-free (fully duplex)
- Open listening
- AudioPresence^{TM} HD

Wall-mountable

OpenStage 20
ice blue

OpenStage 20
lava

OpenStage 40

Customizable for various workplace environments, OpenStage 40 is recommended for use as an office phone, e.g. for desk sharing, people working in teams or call center staff.

Display

- Tiltable graphical display, 6 lines monochrome, backlit
- Optical call alert

Keys

- Dialing keypad
- 8 fixed function keys (partly equipped with red LEDs)
- 6 freely programmable touch keys (illuminated) with red LEDs (function, speed dial or line keys)
- Control keys +/-
- 5-way navigator

Acoustics

- Hands-free (fully duplex)
- AudioPresence^{TM} HD

Interfaces

- Headset jack

Wall-mountable

OpenStage 40
ice blue

OpenStage 40
lava

OpenStage 60

Offers top-notch functionality and innovations, combining a maximum of usability with a clear, intuitive, and sleek design. An open application platform and personalization options make this phone the first choice for boss-secretary environments and people interacting with lots of other devices.

Display

- Tiltable graphical color TFT display, 320 x 240 pixel (QVGA), backlit
- Optical call alert

Keys

- Dialing keypad
- 6 fixed function keys (partly equipped with blue LEDs)
- 8 freely programmable touch keys (illuminated) with blue LEDs (function, speed dial or line keys)
- 6 mode keys (touch/sensor keys, illuminated) with blue or blue/white LEDs (e.g. to start applications)
- TouchSlider for volume adjustment with blue/white LEDs
- TouchGuide for navigation

Acoustics

- Hands-free (fully duplex)
- Polyphonic ring tones
- AudioPresence^{TM} HD

Interfaces

- Headset jack
- Bluetooth
- USB Master

OpenStage 60
ice blue

OpenStage 60
lava

Accessories

For the respective OpenStage models, a comprehensive range of accessories will be released separately. Here is a complete list of accessories:

OpenStage Key Module 15

- 18 additional freely programmable keys with LEDs: function, speed dial, or line keys
- Key labeling via paper inserts
- In ice blue or lava
- For OpenStage 15/40 (up to 1 unit can be connected)

OpenStage Key Module 40, 60

- 12 additional freely programmable keys with LEDs: function, speed dial, or line keys (two-level)
- Large graphical display for key labeling
- In ice blue, lava, or silver blue metallic
- For OpenStage 40, 60 (up to 2 units can be connected)

OpenStage Busy Lamp Field 40

- 90 additional freely programmable keys with LEDs: function, speed dial or line keys
- Key labeling via paper inserts
- In ice blue or lava
- For OpenStage 40 (only 1 unit can be connected)

Fore more information, refer to: http://wiki.unify.com/wiki/OpenStage_Busy_Lamp_Field_40

Wall mount kit

For OpenStage 20 and 40 in ice blue or lava

OpenStage Manager

For administration of OpenStage 60, the OpenStage Manager offers the following functions:

- Administer the OpenStage Phone Book:
  Synchronize contacts,
  Edit the phone book,
  Add pictures
- Manage polyphonic ring tones
- Load screen saver pictures
- Configure OpenStage phones
- Backup/restore user data

OpenStage applications

OpenStage is an extremely powerful platform for efficient business applications.

The following applications are available with the OpenStage phones[1]:

Telephony

- Graphical call handling
- Context-sensitive menus
- Simple use of complex phone features

Personal phone book

- Up to 1,000 personal contacts with different call numbers
- Combination of contacts into groups
- Add a picture to contacts

Call log/history

- List of missed, forwarded, dialed, and received calls
- Dial from the call log list

Directory access (LDAP client)

- Query corporate directories using LDAP
- Quick search and advanced search with various search criteria

Graphical voicemail control

- Message waiting indication via LED and icon on idle screen
- Intuitive user interface with CD player look & feel
- Support with HiPath Xpressions V5.0, OpenScape Xpressions V6.0, V7.0

Bluetooth V2.0[2]

- Object Push Profile: Send and receive business cards/vCards
- Headset profile: Connect a Bluetooth headset

XML applications

The OpenStage 60 supports the integration of applications via its XML application platform. More detailed information can be found at: http://wiki.unify.com/wiki/XML_Applications

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1. Not all features are available on all telephones.

2. OpenStage 60 only

Conference unit support

The conference unit can be connected via cable to the headset jack or via BT Interface, depending on phone type and conference type.

Information on recommended conference units can be found at:

- http://wiki.unify.com/wiki/ Conference_Unit
- http://wiki.unify.com/wiki/ HiPath_Ready_Certifications

Video support

Video calls

The OpenStage 60 SIP supports video calls via UVC-compliant USB cameras using the H.263 codec. The basic call features (e.g. hold, retrieve, mute, and consult) support video transmission.

OpenStage Gate View

The OpenStage Gate View solution enables the transmission of video data from a monitoring camera to the display of OpenStage 60 HFA phones.

This way, a perfect video monitoring solution is provided for many situations, e.g., for monitoring of doors or parking areas.

For details, refer to:
http://wiki.unify.com/wiki/ OpenStage_Gate_View

Platform support

OpenStage SIP phones are supported by OpenScape Voice and Asterisk.

OpenStage CorNet-IP telephones can be operated on HiPath 3000 and 4000 as well as on OpenScape Office and OpenScape Business.

Access to the PSTN – acoustic/voice quality

- FCC Part 68/CS-03 (Technical Requirements for Connection of Terminal Equipment to the Telephone Network)
- TIA/EIA-810A (Transmission Requirements for Narrowband VoIP and Voice over PCM Digital Wireline Telephones)
- TBR8 (Telephony 3.1 kHz teleservices – attachment requirements for handset terminals)
- Hearing aid capability (HAC) according to TIA/EIA-504A (Electronic Industries Association recommended standard RS-504 magnetic field intensity criteria for telephone compatibility with hearing aids)

Specifications

	OpenStage 15	OpenStage 20	OpenStage 40	OpenStage 60
Display				
Tiltable display (pixels, type)	2 lines, 205 x 41 pixels (not tiltable, fixed viewing angle of 30°)	2 lines, 205 x 41 pixels	6 lines, 240 x 128 pixels	320 x 240 pixels (QVGA) color TFT 5.7"
Background lighting for display	–	–	Yes	Yes
Keys/LEDs				
Fixed function keys (pushbuttons, partly illuminated)	3 3 red LEDs	7 5 red LEDs	8 6 red LEDs	6 5 blue LEDs
Freely programmable touch sensor keys (illuminated)	8 keys with red LEDs	–	6 keys with red LEDs	8 keys with blue LEDs
Mode keys (touch sensor keys, illuminated)	–	–	–	6 with blue or blue/white LEDs
Optical call alert	–	–	red	blue
Volume adjustment	+/- key	+/- key	+/- key	TouchSlider with blue/white LEDs
Navigation element	3 navigation keys	3-way navigator	5-way navigator	TouchGuide
Interfaces				
Bluetooth V2.0 (vCard support and headset profile)	–	–	–	Yes
Headset jack for corded/cordless headsets	–	–	Yes	Yes
USB Master	–	–	–	Yes
OpenStage Key Modules	Yes (max. 1)	–	Yes (max. 2)	Yes (max. 2)
OpenStage Busy Lamp Field	–	–	Yes (max. 1)	–
Integrated Ethernet switch	10/100 Base-T or Gigabit Ethernet (optional variant)	10/100 Base-T	10/100 Base-T or Gigabit Ethernet (optional variant)	10/100 Base-T or Gigabit Ethernet (optional variant)
Certifications				
	Safety EN60950-1 Safety US/CAN: UL60950-1;			
General	CE Mark, UL Mark			
Safety	EN60950-1, UL60950-1			
EMC	EN55022 Class B, EN55024, EN61000-3-2, EN61000-4-11 FCC Part 15 (CFR 47) Class B			
Environment	German BLUE ANGEL label for the OpenStage SIP telephones			
Audio				
G.711 (64 kbit/s a/µ law) G.722 (64 kbit/s) G.729AB (8 kbit/s)	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes
Open listening	Yes	Yes	Yes	Yes
Full duplex hands-free	Yes	Yes	Yes	Yes
Echo canceling for local echo (AEC) full duplex	Yes	Yes	Yes	Yes
Applications				
See section "OpenStage Applications"	–	–	–	Yes

	OpenStage 15	OpenStage 20	OpenStage 40	OpenStage 60
Security features				
Layer 2 authentication (802.1x)	Yes	Yes	Yes	Yes
Network				
IEEE802.1Q	Yes	Yes	Yes	Yes
QoS (DIFFSERV and IEEE802.1p)	Yes	Yes	Yes	Yes
Power supply				
External power supply unit (EU, US or UK)	Yes	Yes	Yes	Yes
Power over LAN: IEEE 802.3af	Yes	Yes	Yes	Yes
PoE class	Class 1	Class 1	Class 2	Class 3
Consumption data after annual load cycle according to RAL-UZ 150	23.7 kWh	22.0 kWh	25.2 kWh	31.7 kWh[1]
Specifications				
Dimensions (height x width x depth [mm])	70 x 240 x 221	70 x 240 x 220	70 x 270 x 220	70 x 300 x 220
Weight (kg)	0.783	0.834	1.068	1.245
Colors	ice blue or lava	ice blue or lava	ice blue or lava	ice blue or lava
Storage conditions	-40 °C to +70 °C (-40 °F to 158 °F)			
Operating conditions	+5 °C to +40 °C (41 °F to 104 °F)			

1. hardware-dependent

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