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## optiPoint WL2 professional/ optiPoint WL2 professional S

Enterprises deploy wireless networks to provide easy access to resources and data from anywhere in the enterprise. WLANs are transparent to IP traffic and therefore a natural environment for IP multimedia applications. Adding real-time IP communication, such as voice, is a logical next step since it leverages the investments made in converged LANs and extends the reach of a company's IP telephony and multimedia communication systems. WLANs also match perfectly today's mobile enterprise environment, and significantly increase the employee productivity.

Siemens is uniquely positioned as provider of high quality Enterprise-grade wireless telephones to enterprise customers. Siemens has developed strong expertise in mobile and wireless devices and has a leading market position in both DECT (Gigaset family) and GSM product lines. Recent acquisitions and partnerships added advanced WLAN technol-

ogy to the Siemens portfolio. The right mix of technologies and know-how is a guarantee for Siemens success in the WLAN telephone market.

## Telephones

Siemens 802.11 WLAN telephones, optiPoint WL2 professional and optiPoint WL2 professional S, support familiar telephone features such as polyphonic ringer tones, graphical display and plenty's of applications. In addition, the CorNet-enabled phone optiPoint WL2 professional allows users to access the rich enterprise telephony features and applications of the HiPath 4000 and HiPath 3000 systems. The Session Initiation Protocol (SIP) compliant optiPoint WL2 professional S addresses the growing SIP market and supports Siemens and third party SIP compliant systems. The 802.11 standard allows the new Siemens WLAN telephones to be deployed with any Access Points and in any network environment, but within the Siemens own WLAN infrastructure additional functionality is provided.



## Characteristics

Wireless LAN Voice-over-IP telephone with colored graphical display.

The optiPoint WL2 professional is supported by HiPath 4000 (from V2.0) and HiPath 3000 (from V5.0). The optiPoint WL2 professional S supported by SIP systems (e.g. HiPath 8000, from V1.0, BroadSoft BroadWorks from V11, Sylantro from V3.1)

- Interfaces: WLAN, USB
- Environment:  
These telephones are designed for enterprises that deploy WLAN and IP-infrastructure and HiPath or SIP-based non-HiPath communication systems
- Standards: WLAN, 802.11b (11 Mbit/s), 802.11g (full support of 54 Mbit/s), CorNet IP, SIP

## Configuration

- Wireless link to WLAN access point which connects to a LAN switch
- IP connection to the HG1500 gateway in the HiPath 3000 system; CorNet IP registration
- IP connection to the HG3530 gateway in the HiPath 4000 system; CorNet IP registration
- IP connection to a SIP proxy/registrar: SIP registration
- Basic telephone configuration via DHCP
- Advanced telephone configuration via device web page (single device) or HiPath Deployment Service (for mass configuration)

## Feature Set

### Handset

- Handset with colored graphical display: 6 lines, 128x128 pixel resolution, 4096 colors, 3,1cm x 3,1cm (1¼ in x 1¼ in)
  - Calling animation and Calling Line Identification (CLIP) / Caller ID on incoming calls
  - Illuminated keypad
  - Two soft keys for dynamic feature access
  - Intuitive user prompting
  - Illuminated MWI key
  - Hands free (speaker phone) key
  - Status display in standby/ idle mode: date, time, battery status, RF signal strength, connected access point
  - Status display in connected mode: battery status, RF-signal-strength, talk-time, off-hook sign, CLIP/ Caller ID
  - Keypad: 12 dial keys (3x4): 0-9, # and \*; 4 additional keys for on-hook, off-hook, hands-free (speaker phone), and MWI; 4-way navigation key; 2 soft keys for special functions depending on the connected system; 2 additional keys for applications
- ### Telephone functionality
- Missed Call List
  - Hands free (speaker phone)
  - List of all received calls
  - Dialing via numbers, SIP-URI<sup>1)</sup> and IP-address (direct IP-call)
  - Multi-line Appearance
  - Speed Dials configurable
  - Dialing preparation (input of telephone numbers before seizure) with correction capability
  - Redialing of last 10 different dialed numbers
  - Keypad Lock key and All Ringers Off key including icon for indication

- Common user Interface with Siemens desktop telephones via optiGuide user Interface<sup>2)</sup>
- HiPath feature access (depending on the connected HiPath system) for telephony features like call back, conference, consultation etc.
- Local SIP features<sup>1)</sup>: Hold, Mute, Transfer, Forward, Three-way Conference, MWI, DND, etc.
- SIP features with server support: Centralized Conference, Group Pickup, Priority Alerting, Distinctive Ringing, Keyset, Shared Call Appearance, Bridge Line Appearance, etc.

#### Local Directory

- Large local directory with up to 200 contacts, each contact may contain names, numbers, address, department, etc.
- CLIP is replaced by the Directory entry in the telephone itself<sup>1)</sup> or in the HiPath system<sup>2)</sup>

#### Audio

- 6 polyphonic ringer tones (with adjustable volume)<sup>1)</sup>
- 16 ringer tones, thereof 12 controlled by the HiPath system and 4 controlled by the user<sup>2)</sup>
- Downloadable ringer-tones
- Volume regulation (8 levels)
- CLIP / Caller ID dependent ringer tones
- VIP calls<sup>1)</sup>

#### Value-Add applications/features

- Voice announced CLIP / caller ID<sup>1)</sup>
- Voice dialing
- Polyphonic ringer tones (downloadable)
- Access to LDAP Directories
- Headset connection via Slim Lumberg connector
- Vibration ringer

- Wideband voice ready (G.722 codec option available)
- CTI Interface
- Over-the-air upgrade and configuration via HiPath Deployment Service, an advanced management application
- Support of HiPath applications (e.g. Management applications, Quality Data Collection tool)

#### Codecs/Acoustics

- G.711 (a-law and  $\mu$ -law)
- G.729ab (=G.729a with VAD=voice activity detection)
- G.723
- G.722 (optional)
- Advanced Echo Cancellation (AEC)

#### QoS\*

- ToS
- DiffServ
- 802.1q
- 802.11e (WME-subset)

#### Accessories

- Desktop charger
- Dual mode charger
- Data Link Cable USB
- Wide range of headsets available
- Choices of carrying cases
- AC adapter (by geographical region)

#### Others

- Web browser based administration
- Multi-language user interface
- Date/ time with synchronization via NTP server<sup>1)</sup> or HiPath system<sup>2)</sup>
- Range\*\* : In-building: up to 30 meters / 100 feet (depending on environment)  
Outdoors: up to 300 meters / 1000 feet (depending on environment)

- Power-Supply (Li-Ion, 3,7 V, battery)
- Operating time (Talk-time up to 4 h; Stand-by time up to 80h)
- Weight: approximately 100g / 3.5 ounces
- Dimensions (LxWxD):  
Handset: 132 x 52 x 22mm / 5.2 x 2.0 x 0.9 in  
Charger: 70 x 73 x 35mm / 2.7 x 2.9 x 1.4 in
- Color: light cashmere silver

#### Wireless

- 802.11g (fall-back to 802.11b)
- Frequency range: 2.4 – 2.497 GHz
- Number of selectable channels: 13 (ETSI) or 11 (North America)
- Adjustable output power: approx. +20 dBm EIRP
- Site survey tool integrated in the telephone
- data rate: 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbit/s
- SSID

#### Security

- WEP (64, 128 bit)
- WPA
- Cisco Infrastructure support via CCX
- Telephone lock via PIN
- VPN client
- Authentication (login/password)
- 802.11i (option only, if the standard becomes available)

# Our strengths - Your advantages

Siemens is known worldwide as a trailblazer in the advancement of information and communication technologies. No other company offers such a comprehensive and innovative portfolio.

Regardless of which communication technology you are using today – or want to use tomorrow – Siemens offers you the right solution.

[www.siemens.com/hipath](http://www.siemens.com/hipath)

## Authentication

- EAP-TLS
- LEAP

## Protocols/Network Features

- DHCP client
- FTP client
- VLAN support
- SNMP Trap Agent
- VoIP (SIP, RTP, RTCP, TLS)
- DNS
- HTTP and HTTPS server
- PPTP (for VPN support)
- UPNP (control point and device)
- IP addressing: fixed, DHCP, PPPoE

## PC-Software

- PC tool for exchange of contact data between Microsoft Outlook and the Local Directory of the WLAN telephone
- Download of ringer tones from PC to telephone

## Notes

- \* if access point is supporting QoS (802.11e/subset WME or others), VoIP performance is improved compared to real standard access points; security on air is dependent on access point properties; Voice quality is also strongly related to QoS of infrastructure; possibility of usage at access points is strongly dependent on infrastructure and not always ensured.
- \*\* Range is strongly dependent on environment, especially on materials between access point and WLAN-phone
- <sup>1)</sup> only available for the optiPoint WL2 professional S (SIP WLAN telephone)
- <sup>2)</sup> only available for the optiPoint WL2 professional (CorNet IP WLAN telephone)