

# Product catalogue 2012/13



innovaphone



PURE IP-COMMUNICATIONS

English





Communication Solutions



**Communicate & Collaborate.**

**Boost Your Efficiency.**

## ESTOS Software for Unified Communications

The ESTOS Unified Communications solution components enhance existing information infrastructure and the innovaphone PBX with the latest state-of-the-art features like **Computer Telephony Integration, Presence Management, Office Integration, Instant Messaging** and **Federation**. This results in effective communication processes within your company. ESTOS products fundamentally improve collaboration within teams, with business partners as well as with customers.

You can test the ESTOS software by downloading your free 45-day trial at [www.estos.com](http://www.estos.com).

To find out more information about our UC software in combination with the innovaphone PBX system, please feel free to get in touch with your innovaphone representative or directly with the ESTOS team. Please send an e-mail to [contact@estos.com](mailto:contact@estos.com) or call **+49 (8151) 36856 177**.

**Launched in 2012:**

Apps for iPhone, iPad, Android  
& Desktop Sharing Functionalities!

// **Computer Telephony Integration** // **Presence Management**  
// **Instant Messaging** // **Collaboration** // **Federation**



innovaphone AG has been playing a decisive role in the development of IP telephony ever since the company was founded in 1997. A communication solution, developed under the name of "innovaphone PBX", unites the security and high availability of telephony with the flexibility and scalability of IP. The innovaphone PBX hardware comprises gateways and a range of IP telephones. The entire product range is based on the unified hardware and software platform which is the core of the innovaphone product philosophy.

Permanent development in close collaboration with our customers and partners allows us to adapt the innovaphone PBX to meet the ever increasing requirements on complex communication solutions and to provide an extensive and convenient Unified Communications solution.

In contrast to other Unified Communications solutions, the innovaphone PBX thrives on both the software architecture and the powerful hardware. This makes it possible to fulfil every requirement of so-called "knowledge workers" and employees who need a conventional telephone to work with. The well-designed and prize-winning design telephones are perfectly suited to be integrated in the Unified Communications solution. Users are free to decide whether they only work via computer or if they want to make their calls without the computer - all this is possible using the innovaphone PBX's same uniform user interface and structure, without media disruption and without the user having to deal with change.

We are pleased to present you with the innovaphone product catalogue 2012/13 and are looking forward to feedback. Please also consult our internet site for more detailed information <http://www.innovaphone.com>.



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# innovaphone PBX

innovaphone AG provides a well-engineered VoIP telephone system - the innovaphone PBX. Together with appropriate software, it forms the basis for modern Unified Communication solutions from one source. The solutions are perfectly tailored to suit any size of company and can be extended practically at will. Software and hardware are always perfectly coordinated. Within the innovaphone PBX, there are terminals suitable for any kind of use – from simple to complex scenarios, from stationary to mobile. Integration of non VoIP terminals is also possible. Existing software can be integrated over standardised interfaces, enabling the innovaphone PBX to fit seamlessly into any heterogeneous environment. VoIP with innovaphone enables new and varied possibilities which would hardly have been conceivable with traditional telephony.

## Consistent scalability

As the number of gateways enables increases, even more exact scalability of the telephone systems is possible. The area for deployment is vastly extended for providers and PBX hosting providers thanks to the additional possibility of implementation in a VMware environment. An individual innovaphone PBX package can be tailored to meet the exact conditions of any company – never over-sized, but just right with room to grow, as necessary. All features are always available. Using the same firmware for all innovaphone products also brings advantages for technicians and administrators, saving time and costs for training.

## Maximum security

The innovaphone PBX can be protected by all the usual security features. Passwords can be managed centrally and can be linked with the login data from the Active Directory. Login data is therefore personal and not device-bound. Administration can be undertaken centrally thanks to the link to the Active Directory. This increases convenience especially in large organizations with many terminals, as a central password can be used for all devices instead of having to enter an individual password into each device. Maximum protection against all types of attacks can be reached on the innovaphone PBX if all security mechanisms are used in the correct way. Protocols such as SRTP or TLS are also available for voice data encryption.

## Mobility for professionals

The innovaphone PBX can be extended with a mobility module. This enables mobile phones to be integrated easily into the PBX. Thus a mobile phone can use the features of the PBX as a subscriber and is recognised as an internal subscriber. If the subscriber is called on his company extension number, not only his fixed line telephone will ring, but also his mobile phone. Another software module available on the market allows outgoing calls to be made so that the person being called sees the

company extension number on his display and not the mobile number. The module enables convenient dialling from the mobile phone directory and ensures that all calls are directed over and listed by the innovaphone PBX. The presence status of the subscriber is also visible in the innovaphone PBX.

## PBX in the cloud – PBX as a service

The innovaphone PBX can be installed on a PC as a Virtual Appliance (IPVA) in a VMware environment. Especially providers of centralised telephone systems such as PBX hosting providers and other service providers benefit from Virtual Appliance. As the solution does not entail a high initial investment, the solution is particularly attractive for newcomers to the market and the solutions can be extended from small scenarios to any size. Installing a new customer solution entails just setting up a PBX in a new VMware entity. Individual customer PBXs are securely separate from each other, and can be managed and billed easily.

As an alternative to the innovaphone Virtual Appliance (IPVA), the PBX can also run on the gateway. In this case, the innovaphone PBX's multi-client capability is important for a hosted PBX solution. It enables several virtual and independent PBXs for different customers to be run on one and the same device. The virtual PBXs can be added or deleted dynamically – without having to reboot the hardware.

## Displaying presence

A presence feature is included in the innovaphone PBX as part of the Unified Communications solution. It enables the PBX subscriber's calling status to be displayed on the telephone. The feature is available under both SIP and H.323 protocols. The presence feature works on all terminals, including the SoftwarePhone. The PBX manages the presence information itself. Within a PBX, it is possible for subscribers to set their current presence status on the telephone by selecting the appropriate availability information from a list and, if necessary, by inputting additional text. The presence feature is especially of interest for branch enterprises as it works across all company locations thus significantly increasing communication efficiency. The additional feature of SIP Federation enables messaging and presence to be used beyond the company borders. This enables business partners to also exchange their current status information or text messages.

# PBX Components



innovaphone **VoIP gateways** serve as the interface to other networks, at the same time forming the hardware platform for the innovaphone PBX. The innovaphone PBX software is pre-installed on the devices and can be activated easily with the appropriate license key. The various gateways have different types and numbers of interfaces which can also be activated using licenses. Any number of gateways can work together as a network for larger installations across multiple locations.



Various **IP adapters** are used to integrate non-VoIP capable devices into the innovaphone PBX, such as analogue telephones and fax devices. Door intercom systems or other similar analogue systems can also be integrated using adapters. All innovaphone gateways and adapters support the fax-over-IP protocol T.38. This is the only way to set up reliable fax connections over IP routes.



Feature rich stationary **telephones** are popular especially in business environments. The innovaphone product range has a wide range of various models. The innovaphone telephones and accessories cover all possible situations, and are especially suitable for use in extreme conditions, such as for operator desks, frequent callers and in harsh conditions. No training is necessary as handling the telephone is no different to traditional telephony. It is easy to learn how to use the special features which can also be pre-allocated to freely programmable function keys.



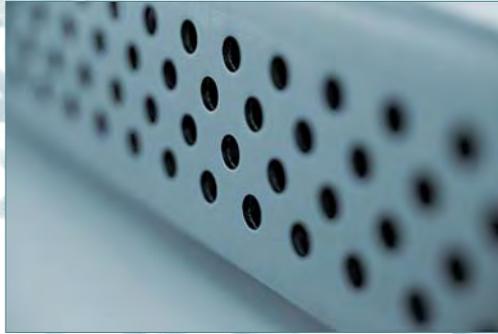
**Mobility** has turned into a basic necessity. However, quality, functionality and customary handling need to stay unchanged. Mobile terminals can be connected to the innovaphone PBX over DECT, WLAN and GSM. The telephones provide the customary convenience and features, no matter which network is used.

When used together with different applications, the innovaphone turns into a complete Unified Communication solution. The appropriate **software** either works in the protected environment on the gateways or is integrated in a VMware environment. External PC servers are generally not needed.



# VoIP Gateways

The innovaphone gateways form the interface to other networks and at the same time, they provide the hardware platform for the innovaphone PBX software. All gateways are very robust. The hardware has no hard disks or fans. Thanks to the generous design of the components and the lean software structures, innovaphone gateways are extremely powerful even when they are fulfilling PBX tasks in parallel. The stability of the gateways is reflected in the brushed stainless steel housing.



There are two series in the gateway range. The series that has a model number ending with 10 has a higher memory capacity and more powerful processor than the other gateways. Sufficient processing power dimension is guaranteed by a Dual Core processor, each with 800 MHz. The various gateways differ according to the type and number of interfaces, which can be activated as necessary using licenses. Several gateways can be joined together in larger installations. The new product line can be recognised by the number 10 at the end of the model number.

These new high-performance gateways with the number 10 at the end of the model number are capable of providing the innovaphone Linux application platform. Additional applications, which run on the Linux operating system, can be installed directly on the gateway and can also use the memory on the Compact Flash card. Therefore, the innovaphone Reporting software can also be installed either directly on one of this series' gateways or on a separate server.

The IP1060 is a pure media gateway with two PRI interfaces, which can, as usual, be licensed individually. The innovaphone PBX cannot be operated on the IP1060; neither can it be used as an application platform. The IP1060 is especially interesting when used with the innovaphone Virtual Appliance (IPVA) – if the innovaphone PBX is installed in a VMware environment, yet an ISDN connection still needs to be used. Of course, any other innovaphone gateway could be used for this too.

The IP0010 gateway is particularly suitable for scenarios where the innovaphone PBX is to run on the robust and lean innovaphone hardware without needing any ISDN connections, such as in a pure SIP environment or if additional DSP channels are needed for conferences.

The IP305 and IP800 are smaller gateways for PBX installations with ISDN basic rate interfaces to the trunk line and are extremely well suited for smaller PBX installations or for interconnecting branch offices and smaller representative offices with a "local break-out" to the trunk line.

The IP302 gateway has an ISDN interface to the trunk line and two analogue interfaces for internal terminals. This is the only gateway which has all the interface licenses included in delivery. This makes it especially suitable for quick installations in small offices or branch offices.

## Accessories:



1 19" rack for up to 2 devices  
Order no.: 01-00999-001



2 PoE injector for all products  
Order no.: 03-00010-228



3 Power supply for IP305 and IP302  
Order no.: 03-00010-226

## Licenses:

1 PRI order no.: 01-00500-003

2 BRI order no.: 01-00500-002

3 DSP order no.: 01-00500-004

| Gateway   | Interfaces, voice channels   | Looping in              | PBX support                  | Specifics, use cases, intended use, order information  |
|---|--|-------------------------|------------------------------|--|
|  <p><b>IP6010</b></p>   | 4 x PRI, 1 x BRI, 60 Channels, 2 x Ethernet 100 MBit, Compact Flash memory card slot     | 2 x PRI, Power off Loop | For up to 3200 registrations | <p>The gateway IP6010 is the most powerful innovaphone gateway and is suitable for very big telephone systems or headquarters in branch enterprises. It supports loop in operation over two PRI lines in existing systems or for local redundancy. An additional BRI connection can be used for remote access for administration purposes or as a connection for a local ISDN telephone.</p> <p><b>Order no.: 01-06010-002</b></p> |
|  <p><b>IP3010</b></p>   | 1 x PRI, 1 x BRI, 42 Channels, 2 x Ethernet 100 MBit, Compact Flash memory card slot     | No                      | For up to 3200 registrations | <p>The IP3010 gateway has one PRI interface with 12 additional channels for telephone conferences. It also provides a BRI interface for remote administration or for a local ISDN telephone.</p> <p><b>Order no.: 01-03010-001</b></p>   |
|  <p><b>IP1060</b></p>   | 2 x PRI, 1 x BRI, 60 Channels, 2 x Ethernet 100 MBit                                     | No                      | No                           | <p>The IP1060 is a media gateway for 60 channels between ISDN and VoIP. It is especially suitable to extend channels for any innovaphone PBX, also as a Virtual Appliance (IPVA), especially for providers and PBX hosting providers.</p> <p><b>Order no.: 01-01060-001</b></p>  |
|  <p><b>IP0010</b></p> | 60 Channels, 2 x Ethernet 100 MBit, Compact Flash memory card slot                       | No                      | For up to 3200 registrations | <p>The IP0010 is geared for an innovaphone PBX at the IP provider without an interface to the traditional telephone network. This gateway can also be used as a conference server with max. 60 channels.</p> <p><b>Order no.: 01-00010-003</b></p>   |
|  <p><b>IP810</b></p>  | 5 x BRI, 20 channels, 2 x Ethernet 100 MBit, Compact Flash memory card slot              | 2 x BRI, Power off Loop | For up to 500 registrations  | <p>The IP810 supports conferences with up to 20 channels and can make a Linux Application Platform available for additional applications.</p> <p><b>Order no.: 01-00810-001</b></p>  |
|  <p><b>IP800</b></p>  | 5 x BRI, 10 Channels, 2 x Ethernet 100 MBit, Compact Flash memory card slot              | 2 x BRI, Power off Loop | For up to 200 registrations  | <p>The IP800 is a scalable ISDN gateway with five ISDN interfaces. It supports loop in operation over two ISDN lines in existing systems or for local redundancy.</p> <p><b>Order no.: 01-00800-016</b></p>  |
|  <p><b>IP305</b></p>  | 2 x BRI, 4 Channels, 2 x Ethernet 100 MBit, Compact Flash memory card slot               | No                      | For up to 50 registrations   | <p>The IP305 rounds off the bottom end of the innovaphone product range of VoIP gateways. With its two ISDN interfaces, up to four calls can take place at the same time over the public network. The powerful hardware easily supports an additionally installed innovaphone PBX.</p> <p><b>Order no.: 01-00305-001</b></p>   |
|  <p><b>IP302</b></p>  | 1 x BRI, 2 x Analogue, 4 Channels, 2 x Ethernet 100 MBit, Compact Flash memory card slot | No                      | For up to 50 registrations   | <p>The IP302 PBX is a combination device, made up of a VoIP gateway to ISDN with an integrated gatekeeper and two analogue interfaces to connect fax machines or other analogue systems. The IP302 is therefore perfect for the innovaphone PBX in small branch offices.</p> <p><b>Order no.: 01-00302-001</b></p>   |

# IP Adapters

Various IP adapters are available to connect non-VoIP capable terminals in the innovaphone PBX. They are used to integrate analogue telephones and fax devices into the telephone system. Door intercoms can also be connected using adapters. All innovaphone gateways and adapters support the fax-over-IP protocol T.38 especially for fax communication. This is the only way to enable stable fax transmission over IP routes.

The IP28 combipack with its 16 analogue ports in one height unit in the server rack provides the highest port density in the smallest space. Furthermore, it is possible to integrate any number of units in the project. Therefore, almost any number of analogue lines and terminals can be operated from one central point.

With the help of DTMF control sequences, analogue telephones connected over IP adapters can use the innovaphone PBX features. Setting up call diversions, picking-up and parking calls and call protection are features which can thus be used by all telephones.

All IP adapters are completely equipped with and have all possible interface licenses pre-installed.



## Accessories:



1 19" rack for up to 2 devices  
Order no.: **01-00999-001**  
(already included in Combi Pack)



2 Mains adapter for IP22, IP24, IP28, IP28 Combi Pack  
Order no.: **03-00010-226**  
(for IP28 Combi Pack two mains adapters)

## Licenses:

1 Licenses are included

| IP adapter  | Interfaces                                    | Power supply   | Protocols                                      | Model   | Specifics, intended use, order information  |
|---|---|--|--|---|---|
|  <p><b>IP28 Combipack</b></p> | 16 x a/b FXS (RJ-11)<br>2 x Ethernet 100 MBit | 2 x Power over Ethernet (PoE) or<br>2 x power supply | SIP & H.323, Multiprotocol, Fax over IP (T.38) | integrated installation frame for 19" rack                              | <p>This combination has the highest port density with 16 analogue connections in one height unit in the server rack. Therefore, the unit is perfect for solutions which operate a lot of analogue lines and terminals from a central point.</p> <p><b>Order no.: 88-00010-024</b></p> |
|  <p><b>IP28</b></p>           | 8 x a/b FXS (RJ-11)<br>1 x Ethernet 100 MBit  | Power over Ethernet (PoE) or power supply            | SIP & H.323, Multiprotocol, Fax over IP (T.38) | Standalone device, installation frame for 19" rack available separately | <p>With the installation frame, the IP28 can be put next to a VoIP gateway with the innovaphone PBX.</p> <p><b>Order no.: 01-00028-001</b></p>  |
|  <p><b>IP24</b></p>         | 4 x a/b FXS (RJ-11)<br>1 x Ethernet 100 MBit  | Power over Ethernet (PoE) or power supply            | SIP & H.323, Multiprotocol, Fax over IP (T.38) | Standalone device, installation frame for 19" rack available separately | <p>The IP24 is a successful compromise of high port density and mobility. The IP adapter can be used both centrally in a server rack and de-centrally.</p> <p><b>Order no.: 01-00024-001</b></p>  |
|  <p><b>IP22</b></p>         | 2 x a/b FXS (RJ-11)<br>1 x Ethernet 100 MBit  | Power over Ethernet (PoE) or power supply            | SIP & H.323, Multiprotocol, Fax over IP (T.38) | Standalone device, installation frame for 19" rack available separately | <p>The small IP adapter is perfect for remote Fax devices. The power supply using PoE provides for simple wiring, and any space problems can be solved as it can be wall mounted.</p> <p><b>Order no.: 01-00022-001</b></p>   |

# IP Telephones

The IP222 and IP232 telephones have been developed entirely in-house and unite a very modern design with groundbreaking technological details. This design telephone product line has been awarded the coveted “red dot award: product design”. At first glance, the innovative handset cradle is particularly striking, suggesting the handset is floating. The telephones have a large colour display with optimal resolution and – dependent on the model - traditional function keys or an intuitive touchscreen. The telephones are not only attractive to look at, they set new standards concerning voice quality and power consumption. The four standard USB interfaces on these telephones are perfectly suited for versatile extensions. These interfaces can be used to easily connect headsets, extension modules and other peripheral devices.

The new G.722.2 standard has been implemented, which is an optimised version of the voice codec G.722.1. It enables voice quality to be adapted dynamically to the available bandwidth, setting completely new quality criteria with MOS values >4.5.

The integration of the brand new Green IT standard 802.3az shows the importance of sustainability for innovaphone’s development department. innovaphone is one of the first manufacturers on the market to integrate this “Energy Efficient Ethernet” standard in its devices. The idea behind this standard is that it enables ports to need power only when data is really being transmitted. The ports are in idle mode when no data is being



transmitted (which is usually the case 99 per cent of the time). Therefore, power consumption can be reduced drastically with the new innovaphone IP222 and IP232 terminals.

In parallel to the new product line, the tried and tested terminals in the portfolio will be continuously updated in keeping with the new PBX software.

All telephones have been optimised to be used on the innovaphone PBX and can make the most of the system’s entire range of features. They all run standard-based under SIP and H.323 and can be powered using Power over Ethernet. A second network connection enables either loop-in to the PC network or other network components to be operated on the device.



reddot design award  
winner 2011

## Accessories:



1 Extension module for IP240 and 241 (30 further function keys)  
Order no.: **01-00230-001**



2 Extension module for IP222 and IP232  
Order no.: **01-002X2-001 (black)**  
**01-002X2-002 (white)**



3 Power supply for all telephones except IP150  
Order no. Euro plug: **03-00010-004**  
Order no. international: **03-00010-002**

| Telephone   | Display, keypad  | Interfaces   | Specifics, intended use, order information   |
|---|--|--|--|
|  <p><b>IP232</b></p>       | Colour display 480 x 272 pixel 4.3", touchscreen, telephone keypad   | 2 x Gigabit Ethernet PoE, 4 x USB, Power supply  | <p>Modern design, large colour display and touchscreen make this phone a favourite for frequent callers and anyone who attaches great importance to a representative office environment.</p> <p><b>Order no.: 01-00232-001 (black)</b><br/> <b>Order no.: 01-00232-002 (white)</b></p>   |
|  <p><b>IP222</b></p>       | Colour display 320 x 240 pixel 3.5", telephone keypad, 2 x 6 freely programmable function keys                                   | 2 x Gigabit Ethernet PoE, 4 x USB, Power supply  | <p>IP222 is an alternative choice to the IP232 with traditional function keys instead of a touchscreen. Both telephones support the brand new Green IT standard IEEE 802.3az.</p> <p><b>Order no.: 01-00222-001 (black)</b><br/> <b>Order no.: 01-00222-002 (white)</b></p>  |
|  <p><b>IP241</b></p>        | Colour display 320 x 240 pixel, 3.5", telephone keypad, 7 freely programmable function keys, 8 partner keys, alphanumeric keypad | 2 x Gigabit Ethernet PoE, DHSG, Interface for extension module with 30 partner keys, Power supply  | <p>The large colour display provides a fast overview of all current status and current calls. Its traditional design enriches any office.</p> <p><b>Order no.: 01-00241-001</b></p>  |
|  <p><b>IP240</b></p>       | Display 128 x 64 pixel, telephone keypad, 7 freely programmable function keys, 8 partner keys, alphanumeric keypad               | 2 x Ethernet 100 MBit PoE, DHSG, Interface for extension module with 30 partner keys, Power supply | <p>The ergonomic alphanumeric keypad and 8 partner keys with LED indicator on the IP240 allow a fast overview. The telephone is therefore popular in secretariats and small operator desks. Large operator desks can add up to 3 extension modules to directly display more than 100 contacts.</p> <p><b>Order no.: 01-00240-001</b></p>   |
|  <p><b>IP200</b></p>      | Display 128 x 64 pixel, telephone keypad, 6 freely programmable function keys, alphanumeric keypad                               | 2 x Ethernet 100 MBit PoE, Interface for headset, Power supply                                     | <p>The IP200's complete alphanumeric keypad enables not only simple searches in the telephone book; it is also easier to create text messages and comments on own status.</p> <p><b>Order no.: 01-00200-002</b></p>  |
|  <p><b>IP110</b></p>     | Display 128 x 64 pixel, telephone keypad, 4 partner keys   | 2 x Ethernet 100 MBit PoE, Power supply  | <p>The IP110 enables effective and highly convenient calling comfort. The 7-line display with multi-lingual dialogues guarantees a multitude of features. The telephone provides the perfect condition for working offices. The telephone is wall mountable thus bringing the familiar calling convenience to the hallway or stairway.</p> <p><b>Order no.: 01-00110-001</b></p> |
|  <p><b>IP150/151</b></p> | Display 128 x 64 pixel, telephone keypad   | Ethernet 100 MBit PoE  | <p>The IP150 has a weatherproof housing, which is also protected against vandalism and is thus perfectly suited for use in factories or outdoors. The extremely loud ring also facilitates use in extreme conditions.</p> <p><b>Order no.: 01-00150-001 (IP150)</b><br/> <b>Order no.: 01-00150-005 (IP151)</b></p>  |



**4** PoE Injector for all telephones  
Order no.: **03-00010-228**



**5** Desk stand for IP110  
Order no.: **03-00010-008**

# Wireless

Cordless telephones in office environments increase employees' mobility and thus your company's. There are various telephones for the innovaphone PBX to cover different requirements based on DECT, WLAN and GSM technologies.



The IP1202 is an IP DECT gateway, extending the innovaphone PBX with DECT compatible subscribers. Very complex IP DECT systems can be set up using the IP1202. The IP1202 base station's multi-cell capability enables several devices to be installed; roaming and automatic handover works amongst them. The IP1202e's external antennae allow greater reach and a more exact radio coverage.

On the IP side, the system is compatible with SIP and H.323. It supports echo cancellation and several voice compression codecs. The IP63 and IP61 handsets from innovaphone are especially suitable. DECT based telephones are extremely light with an aesthetic modern design. The telephones have powerful rechargeable batteries providing excellent talk-time and stand-by time.

Both DECT telephones are suitable to be used in parallel with fixed installed telephones. innovaphone PBX features can also be used over a selection of character codes. Furthermore, all subscribers on the same PBX can be accessed directly.

Telephones for voice over WiFi are also an alternative to DECT. The innovaphone IP62 is the first VoWiFi handset, operating on all IEEE-802.11a/b/g/n networks. The innovaphone IP62 fully supports the IEEE-802.11n standard thus supporting the deployment of voice over the network without degrading the performance of the network. The SIP and H.323 protocols are fully supported; therefore,

the telephone is completely compatible with the innovaphone PBX and supports the standardised features.

The innovaphone PBX also enables a three-party conference to be set-up quickly and easily using a handset. Access to external directories over LDAP and direct support for CTI software are currently being developed.

GSM phones can be integrated in the innovaphone PBX by means of the innovative one number concept and a GSM client available on the market, which can be installed on mobile phones as an application. More information can be found on page 14 of the innovaphone licensing model.

## Accessories:



1 DECT charger for IP61, IP62 and IP63  
Order no.: **50-00060-001**



2 DECT battery for IP61  
Order no.: **50-00060-005**



3 DECT battery for IP62 and IP63  
Order no.: **50-00060-008**

| Product  | Technology                     | Interfaces   | Specifics, intended use, order information   |
|--|--------------------------------|--|--|
|  <p>IP1202</p>  | IP DECT gateway & base station | Ethernet 100 MBit PoE,<br>Power supply                       | <p>The IP1202 base station has multi-cell capability enabling several devices to be installed, with roaming and automatic handover.</p> <p><b>Order no.: 50-01202-001</b></p>  |
|  <p>IP1202e</p> | IP DECT gateway & base station | Ethernet 100 MBit PoE,<br>Power supply,<br>2 x MCX connector | <p>The two additional MCX connectors on the IP1202e allow external antennae to be connected, enabling an exact radio coverage and greater reach.</p> <p><b>Order no.: 50-01202-003</b></p>   |
|  <p>IP63</p>    | DECT handset                   | DECT,<br>Charging cradle with power supply                   | <p>The innovaphone IP63 simplifies complex features through an intuitive user interface and large, colour display.</p> <p><b>Order no.: 50-00063-001</b></p>   |
|  <p>IP61</p>   | DECT handset                   | DECT,<br>Charging cradle with power supply                   | <p>The innovaphone IP61 is a handset that is logical, smart and as flexible as your working day and a communication solution that represents true value.</p> <p><b>Order no.: 50-00061-001</b></p>   |
|  <p>d81</p>   | DECT handset                   | DECT,<br>Charging cradle with power supply                   | <p>The d81 is a DECT telephone with an extremely robust and hard-wearing housing. The mobile device, the integrated headset connector and the connectors for charging and programming the telephone are dust and splash water protected in line with IP65. The operating temperature lies between -10 C and +55 C.</p> <p><b>Order no.: 50-00081-001</b></p> |
|  <p>IP62</p>  | WiFi telephone                 | WLAN,<br>Charging cradle with power supply                   | <p>The telephone provides smooth interoperability and scalability with WLAN providers. The innovaphone IP62 also stands out as it communicates well with the innovaphone PBX and is easy to integrate.</p> <p><b>Order no.: 50-00062-001</b></p>   |

4



DECT headset mono for  
IP61, IP62 and IP63  
Order no.: **50-00060-015**

5



DECT power supply for IP1202  
Order no.: **50-00060-017**

# innovaphone Licensing Model

The different functionalities of the innovaphone PBX are activated by appropriate licenses. The combination of individual licenses enables the right solution to be put together for every individual project of any size. Licenses are managed in the my.innovaphone web portal, enabling licenses to be conveniently activated and bound to particular hardware at any time.

## Port License

The functionality of the innovaphone PBX is activated by port licenses. The licenses can be ordered and installed individually as needed. Port licenses are based on the number of ports on the installed PBX. A port license is needed for every object, for all devices which are registered to accept telephone calls.

A port is a PBX object, which serves to register devices. These are either internal devices for PBX subscribers (users, executives) or outside lines (trunk, gateway) to the public network. The port license incorporates a good discounting system. The license costs continue to sink the higher the number of subscribers. The first twenty licenses are dealt with in a different way. They are especially good value in order to facilitate entry to small systems.

The port license includes all the innovaphone PBX features including call diversion, call forward, call completion on busy, or no answer, 3 party conference, park call, group functions and partner functions as well as displaying status and sending text messages. Furthermore, it is possible to run a second telephone under the same registration on one license. A combination of an IP telephone and a DECT telephone has proven useful for staff who move away from their desks.

The license for the Unified Communications client, myPBX, is also included. Calls can be handled conveniently using the web application on the computer, partners can be displayed, messages sent and own status set.

## Mobility license

As an option, the innovaphone PBX can be extended by a mobility module which makes it possible to integrate mobile phones in to the PBX. Mobile phones can thus be integrated easily into the PBX making use of the PBX features. The mobile phone is then recognised as an internal subscriber by the PBX and the CTI software, which has to be installed separately.

Communication costs are much easier to control by integrating mobile telephones into the innovaphone PBX, as calls on mobiles are connected over the fixed line network. A separate server is not necessary as the mobility solution is fully integrated in the innovaphone PBX.

The mobility license allows a mobile phone to be used as a PBX subscriber in parallel.

## IPVA license

IPVA is one variation of the innovaphone PBX software which is installed as a virtual appliance in a VMware environment. VMware enables several virtual servers to be set-up on one hardware platform. Complex systems with a variable number of PBX entities can thus be installed and managed. IPVA provides the perfect basis for telephone system hosters. The solution is particularly attractive for newcomers to the market as solutions can be extended from small scenarios, with low initial investment, to scenarios of any size. One IPVA license is needed for each installed PBX port license.

## Standby license

It makes sense to setup redundant systems for a failover especially when several PBX installations are spread across multiple locations. In this case, the central PBX (master) can immediately take on the functionality of the local PBX without loss, should there be a failure. The number of standby licenses has to be equivalent to the number of installed port licenses.

## Releasing licenses

From version 8, it is possible to release a license bound to a piece of hardware in order to bind it to another hardware. However, this is not the case for hardware based licenses such as ISDN interface licenses, DSP channel licenses, a/b licenses, gatekeeper licenses and IPVA licenses.

**Software Service Agreement**

The Software Service Agreement (SSA) allows the customer to upgrade his licenses, at no extra cost, to new firmware versions released during the agreement period. Therefore, versions released during the SSA period do not need to be purchased. Exceptions include new features which are licensed separately.

Software Service Credits - so-called SSCs - are used as currency when taking out an SSA. They are easy to order and can be managed in the my.innovaphone portal. Every innovaphone license which can be included in an SSA has been allocated an SSC value. This value is due for an SSA with a 12 month period.

It is usually assumed that a Software Service Agreement will be entered into for the period of at least one year. The SSA begins from the first bind date of the license; the chosen SSA expiry date is the last date of the SSA period. It is possible, if necessary, to choose a different SSA expiry date in the future – the SSA is charged exactly to the day.

SSCs due for an SSA are always charged on a daily basis. Accordingly, one day SSA costs 1/365 of the annual SSC defined for the license. SSCs are rounded up to the next full SSC if the SSC calculation results in a fractional amount.

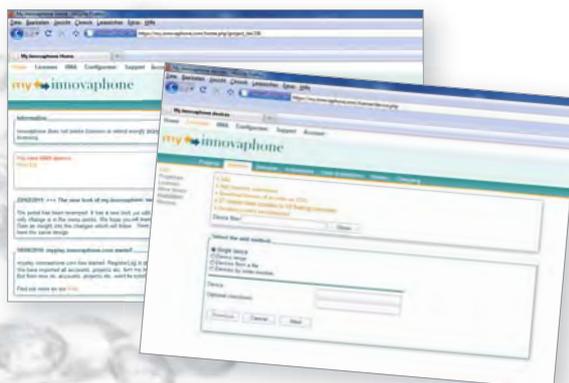
The bind date of the license is the crucial factor in calculating the number of SSCs necessary for a software service agreement. The software service agreement must be backward paid if the SSA start date varies from the license bind date.

In order to maintain a software service agreement, it is necessary to extend the SSA duration. Software service agreements are not automatically extended. The my.innovaphone portal sends reminders per email in due time before an SSA expires.

| License                        | Description   | Order information   |
|--------------------------------|---|---|
| Port license                   | Activates a number of subscribers on the PBX  | Order number 02-00024-001 et seq., dependent on total number of subscribers |
| Standby license                | Enables redundant systems   | Order number 02-00025-001 et seq., according to the number of port licenses |
| Mobility license               | Enables mobile phones to be integrated into the PBX   | Order number 02-00027-001   |
| IPVA license                   | Enables an innovaphone PX to be used in a VMware environment. One IPVA license is needed for each installed PBX port license. | Order number 02-00029-002   |
| Software Service Credits (SSC) | The SSC value is valid for one year's worth of upgrades to new firmware version releases free-of-charge                       | Order number 02-00023-02  |
| PRI interface license          | Activates an ISDN primary rate interface  | Order number 01-00500-03  |
| BRI interface license          | Activates an ISDN basic rate interface  | Order number 01-00500-02  |
| DSP license                    | Codec activation for a PRI or BRI channel license   | Order number 01-00500-04  |

**my.innovaphone Portal**

The my.innovaphone portal provides various aids to manage and structure the licenses which are available. As a web portal, it is always available and can be used from any browser, anywhere in the world. All innovaphone PBX licenses are managed and the software service credits allocated in this portal.



# Virtual Appliance (IPVA)

A PBX no longer needs to be installed in one's own company. A virtual PBX can save investment costs for the end user. Therefore an increasing number of IT system houses are providing PBX hosting or "PBX as a Service". PBX is a reliable, cost-effective alternative to buying your own PBX especially for companies with a flexible number of employees, ever-changing branch offices or other dynamic structures. The provider's trained employees can quickly implement new requirements, at the same time guaranteeing up-to-date software and securing the database.

## Multi-client capability

The innovaphone PBX has various models in any size for PBX hosting providers. The innovaphone PBX is multi-client capable already in normal gateway mode. This enables several virtual and individual PBXs to be run on the same gateway for separate clients. The virtual PBXs can be added or deleted dynamically without having to reboot the hardware each time.

The VoIP gateway IP0010 is perfectly suited to operate several virtual PBXs. In combination with the media gateway IP1060 and other innovaphone gateways, any number of ISDN channels can be allocated to different client solutions.

## innovaphone Virtual Appliance (IPVA)

The IPVA is an innovaphone PBX, which has been installed as a Virtual Appliance in a VMware environment. VMware enables several virtual servers to be set-up on one hardware platform. This allows systems with a variable number of entities to be managed centrally.

IPVA enables big installations to be realised and set up easily. The solution is particularly attractive for newcomers to the market as solutions can be extended from small scenarios, with low initial investment, to scenarios of any size. Installing a new customer solution entails just setting up a PBX in a new VMware entity. Individual customer PBXs are securely separate from each other and can be managed and billed easily. Licenses can be managed very conveniently thanks to the license master concept. The operator thus has complete control over the licenses which are available to a customer.

The media gateway IP1060 or any other innovaphone gateway should be used if the innovaphone PBX, as an IPVA, should still manage ISDN connections. Additional ports or additional gateways are activated if the number of ISDN lines increases.

There are no limitations in linking systems together as a virtual appliance (IPVA) and in linking systems working on the gateways as a base for the innovaphone PBX.

## Licensing the innovaphone Virtual Appliance (IPVA)

Separate IPVA licenses are used for the innovaphone Virtual Appliance. They must be equivalent in number to the number of port licenses. IPVA licenses can be managed on my.innovaphone in the same way as port licenses. There is one difference however: these licenses are bound to the MAC address of the VMware entity and can not be released again.

# innovaphone PBX: Additional Software & Tools

In addition to the pure innovaphone PBX software, innovaphone has other various software and tools which can, if necessary, perfectly complement an overall solution.

## innovaphone Reporting

innovaphone Reporting is a tool, which is simple to use and enables an overview of the calls in a company. It is based on the Linux application platform, which runs either on the IP6010, IP3010 and IP0010 innovaphone gateways; or in a VMware environment. innovaphone Reporting is based on a database which processes the Call Detail Records (CDR). The Reporting tool provides e.g.:



- Call monitoring for individual PBX subscribers or for groups
- Lists of all calls, the results can be grouped in any way, by date or object
- Individual filters can be generated, especially for frequent enquiries
- Call status enquiry (no answer, connected, busy, no connection)
- Call direction enquiry (incoming, outgoing, switched or forwarded calls)
- PDF or XML file enables results to be stored at any time
- Both time-controlled and manual backup of Reporting database and web-server configuration files is possible over the general web-server administration

## innovaphone PBX Operator

The innovaphone PBX Operator is a computer-based operator desk for the innovaphone PBX. It can access the innovaphone PBX's waiting queue and forward calls at will – also across several locations. The PBX operator runs on all popular Windows operating systems from Windows 2000. The software is extremely easy to handle, and can be operated just with the keypad. The Operator needs no additional registration on the innovaphone PBX.

- No server needed
- Multiple location capability
- Support master/slave scenarios – across locations
- Call transfer with consultation
- Call transfer without consultation (blind transfer)
- LDAP functionalities: forward and reverse searches

- Short key operability
- Drag & Drop
- Call journal; can be filtered according to outgoing or incoming calls
- Waiting queue monitoring
- Monitoring blind transfer calls: a call can be retrieved if it has been transferred wrongly
- Parking and unparking calls
- Inline help (integrated help)
- Searching via LDAP directory
- Automatic search in several PBXs
- Sending instant messages to PBX subscribers
- User search (search field):
  - Live search results: live display of busy signal
  - Active calls shown for any PBX subscriber
  - Presence status displayed
  - Presence note displayed
  - Permanent diversion displayed
- Set/change presence status for all PBX subscribers
- Set/change call diversion for all PBX subscribers
- Call recording (also for 3rd party products)
- Night service



## Intelligent waiting queue with Automatic Call Distribution (ACD)

innovaphone enables several waiting queues to be set up. No registration is necessary; therefore, it does not need a port license. The number of waiting calls in a waiting queue can be limited and a timeout feature releases callers who have not been retrieved from the waiting queue. DTMF tones are linked to the recorded message and make it possible for the caller in the waiting queue to be routed appropriately. This enables ACD to be used efficiently, already in the waiting queue.

### innovaphone Voicemail

The innovaphone voicemail is a professional answer phone integrated solution available across the network for every innovaphone PBX subscriber. The innovaphone Voicemail is extremely easy and convenient to use thanks to the feature keys on the telephone and the indicator "message waiting". The number of voicemail licenses must match the number of port licenses on the innovaphone PBX.



A Compact Flash (CF) card in the gateway can be used to store announcements and incoming messages. The innovaphone Voicemail is thus independent of external computer servers. Furthermore, CF cards can be quickly changed and archived.

- Voice recording: callers can leave a voice message
- No server needed
- Data storage on CF card (gateways with CF slot) or on external web server
- Message waiting is indicated by a MWI lamp (or via text/symbol) on the telephone, alternatively via e-mail (with or without message)
- Message Waiting Indication (MWI) is standard based (according to H.450.7), can be used for 3rd party SIP and H.323 telephones
- Voicemail menu (easy to use with any DTMF-telephone)
  - Return call
  - Play, save, delete, repeat message
  - Jump to next/previous message
  - Record personal announcement e.g. personal greeting
  - Change PIN
  - Pick-up voicemail messages without PIN

### Programmable ACD and IVR

The solution has been implemented on a script interpreter based on XML which is the core of the voicemail. The scripts for voicemail are delivered ready for use and can easily be adjusted to fit your needs, without needing much experience in XML. E-mails can thus be sent with sender information and data can be written or read in other systems, e.g. for a customer number enquiry of an ERP system.

The XML script interpreter enables sophisticated IVR systems for complex requirements. Own recorded announcements can be called up dynamically and can be answered as DMTF tones by pressing numbers on the key pad.

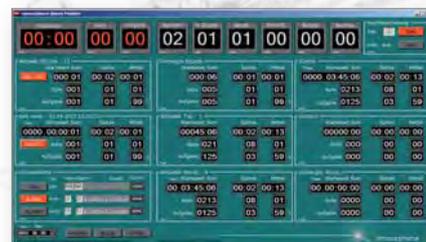
### Conference server

The innovaphone PBX is capable of providing several telephone conferences in various virtual rooms. The number of participants is dependent on how many DSP channels have been reserved. A waiting queue serves as the central starting point to the various rooms. Whenever a caller connects to the waiting queue, he is requested to enter a conference (PIN) number. If the user enters a valid conference PIN, he will be connected to the appropriate conference room. When participants join and leave the conference, their names are stated to participants who are already in the virtual conference room.

The ad-hoc broadcast conference is a special kind of conference. An innovaphone PBX subscriber group is called over a special broadcast number. The call on this number is distributed to the group participants. Whoever accepts the call is in the conference. Broadcast conference is an efficient way to exchange experiences for regular conferences with fixed participants, e.g. for a particular project.

### innovaphone Queue Monitor

The innovaphone Queue Monitor (IQM) is a Windows application which depicts the innovaphone PBX waiting queue graphically and in real time. The tool serves to help judge whether there are enough resources available to cope with the incoming calls. Several monitors can be used to monitor the different waiting queues; the number of calls waiting and the longest waiting time are shown in real time. A summator calculates these values and a second resettable summator enables any time periods to be measured. The innovaphone Queue Monitor is intuitive and needs no training.



### Update Manager

Every device which has an innovaphone firmware can be configured so that it regularly looks for new information at a central point: new firmware, for example. The devices collect their updates automatically and reboot as necessary.

### ESTOS MetaDirectory 3.0 Professional

The ESTOS MetaDirectory 3.0 Professional enables fast access to contact information. With the help of the LDAP protocol, distributed contact information is grouped to form a corporate information service. This enables efficient and individualised searches. Contact information can be integrated in Unified Communications and portal solutions with minimum

effort. e.g. from Microsoft Dynamics products, popular CRM and ERP systems, public exchange files, Lotus Notes, Tobit David and a wide array of telephone directory CDs.

Web-based, secure services (HTTPS and LDAPS) enable users to have direct access from a wide array of clients, terminals – especially from innovaphone products – as well as from mobile telephones and smartphones.

| Application                          | Description   | Platform                                    | Order information   |
|--------------------------------------|---|---|---|
| <b>innovaphone Reporting</b>         | Enables a fast overview of connections on the innovaphone PBX. Filters and sorting enable information to be processed as required and stored as PDF or XML.   | innovaphone PBX, Linux Application Platform | Order number 02-00028-001 and following   |
| <b>innovaphone Operator</b>          | The innovaphone PBX Operator is a computer-based operator for the innovaphone PBX. It can access waiting queues and forward calls at will.  | Windows                                     | Order number 02-00027-003   |
| <b>innovaphone Voicemail</b>         | The innovaphone Voicemail is an integrated professional voicemail solution available across the network for all subscribers on the innovaphone PBX.   | innovaphone PBX                             | Order number 02-00026-001 and following, according to the number of port licenses                       |
| <b>innovaphone IVR and ACD</b>       | An individual voicemail XML script can be setup for intelligent and complex call distribution (Automatic Call Distribution) between various users in order to store the desired call distribution plan.                                 | innovaphone PBX                             | Is already included in the port license   |
| <b>innovaphone Conference server</b> | The conference server enables several telephone conferences in various virtual rooms.   | innovaphone PBX                             | Needs one gateway DSP channel per participant, if necessary on a dedicated gateway as a conference unit |
| <b>innovaphone Queue monitor</b>     | Creates statistics on innovaphone PBX waiting queue in real time  | Windows                                     | Order number 02-00027-004   |
| <b>innovaphone Update Manager</b>    | Every device which has an innovaphone firmware can be configured so that it regularly looks for new information at a central point: new firmware, for example. The devices collect their updates automatically and reboot as necessary. | innovaphone PBX                             | Is already included in the port license   |
| <b>ESTOS MetaDirectory</b>           | The MetaDirectory is able to collect telephone numbers from different databases and provides this to the innovaphone PBX via LDAP protocol. Diverse database formats can be used as the information source.                             | Windows                                     | Order number 51-00030-082   |

# Unified Communications

## innovaphone myPBX: the Unified Communications client

The flexible Unified Communications client, myPBX, is available with the innovaphone PBX. It enables the telephone to be used from the computer and runs on any platform (Windows, Mac, etc.) A web browser is all that is needed – there is no need for time-consuming installation of complex software. Users can access the UC client over a simple link, and log-in with their telephone login. The user interface enables users to use all of the telephones, (whether desktop telephones or mobiles) which have been stored under their individual login on the innovaphone PBX. A wide array of features can be used after registering to myPBX:



- Set, display and add notes to presence status
- Federation
- Create favourite lists and individual profiles for flexible contact management
- Set and manage call diversions
- Alphanumeric contact search
- Telephone calls, chatting or e-mail
- Open a collaboration session out of myPBX
- Privacy protection
- Click to Dial: Select telephone numbers over a Windows hotkey (Windows)
- Fast access to myPBX using an icon on task bar (Windows)
- Popup window to run myPBX in the background (Windows)
- Manage call lists (innovaphone Reporting license necessary)

## innovaphone SoftwarePhone

There are jobs where team members are constantly on the telephone. Data often needs to be entered into the system during such calls – it is useful to have two free hands for typing. The innovaphone SoftwarePhone is the perfect solution for such situations: the employee can use the telephone features conveniently over his computer and telephone hands-free with a USB headset. A desktop telephone is no longer needed. The UC client myPBX is the user interface for the innovaphone SoftwarePhone.



## innovaphone Voicemail

The innovaphone Voicemail is a professional answer phone integrated solution available across the network for every innovaphone PBX subscriber. It uses the abilities of the innovaphone PBX in the best possible way. This service is extremely easy and convenient and is operated over the feature keys on the telephone. Access is possible directly from one's own telephone without a PIN. Access from an external telephone is protected by a PIN number.

DTML enables messages to be played back, deleted, repeated or stored from internal and external telephones. On request, calls can be returned directly from the voicemail menu. Personal announcements such as a personalised greeting can be recorded and managed directly on the telephone. Furthermore, the PIN number for external access can be changed in the voicemail menu.

## Unified Communications solution for Windows: ESTOS ProCall 4.0 Enterprise

ESTOS ProCall 4.0 Enterprise is a Unified Communications solution (UC) with all the important Computer Telephony Integration (CTI) comfort features as well as presence management, office integration and instant messaging to improve collaboration in companies – also beyond company domains thanks to the key technology Federation. Federation enables networks, in terms of social networks, with external companies: it guarantees secure exchange of presence information and instant messaging based on open standards (e.g. SIP/SIMPLE).

ProCall has been optimised for perfect interaction with innovaphone PBX systems, leading groupware platforms such as Microsoft Exchange, Lotus Notes and Tobit David, popular CRM and ERP systems such as Microsoft Dynamics CRM and NAV, Windows terminal and Citrix servers as well as Virtual Server technologies. The software supports the modern Windows operating systems and Microsoft Office versions in 32 and 64 Bit.



| Application               | Description   | Platform   | Order information   |
|---------------------------|---|--|---|
| innovaphone myPBX         | innovaphone PBX CTI application and platform for additional services such as text chat and collaboration sessions | Platform independent web application                   | Already included in the port license  |
| innovaphone SoftwarePhone | Telephony application, enabling convenient telephone calls via computer, sound system and headset                 | Used with myPBX  | Order number 02-00029-001   |
| innovaphone Voicemail     | Professional voicemail solution available across networks for every subscriber on the innovaphone PBX             | innovaphone PBX, CF card in gateway or external server | Order number 02-00026-001 and following<br>Must be equivalent to the same number of subscribers as port license users |
| ESTOS ProCall             | Unified Communications solution for Windows including CTI, office integration and instant messaging               | Windows  | Licensed according to number of subscribers,<br>Order number et seq. 51-00030-070                                     |

# Interfaces & Recommended Products

Supporting standard protocols and interfaces is a fundamental part of the innovaphone product philosophy. The innovaphone PBX's open interfaces provide versatile application possibilities to integrate both existing and other solutions.

SOAP-API is an extremely versatile interface on the innovaphone PBX, which is used for a wide range of applications and tools. It used e.g. by the TAPI interface, operator and a wide range of CTI applications from various manufacturers. Useful applications for free use are available on the innovaphone download server.

## Linux Application Platform

The innovaphone PBX's high performance Linux Application Platform enables Linux applications to be used in parallel to the innovaphone PBX. This is the case for all gateways with a 10 at the end of the product description. It enables both third-party applications and existing programmes to be operated

using the Linux Application Platform on these gateways. A separate server is not necessary as the applications are operated directly on the innovaphone box's Compact Flash card. The application innovaphone Reporting is the first application to be setup on the Linux Application Platform.

The LDAP interface serves for direct access to other software solutions' address databases. This address data can be accessed centrally over the PBX or separately by the individual telephones. Furthermore, the innovaphone PBX constantly writes Call Detail Records (CDR) for all external calls. CDRs are setup according to industry standards and are imported by billing solutions and processed according to the requirements.

XCAPi provides an ISDN CAPI 2.0 interface, thus enabling fast migration from an ISDN application to VoIP.

## Recommended Products

innovaphone has several lists with product information from 3rd party manufacturers to help ascertain interoperability. The lists can be found in the innovaphone Wiki under 3rd party. The table below is a brief excerpt:



| Product  | Manufacturer                   | Product name                        | Platform                           |
|--|--------------------------------|-------------------------------------|------------------------------------|
| Call centre solution incl. ACD and IVR system, statistics, wallboard, voicemail and SMS                    | Voxtron Europe N.V.            | Voxtron Communication Center        | Windows Server 2008                |
| Management system for secure guaranteed texts in Healthcare sector   | Ascom                          | ASCOM TeleCARE IP                   | Appliance                          |
| Control, acknowledge, inform and protocol alarms such as nurse call system                                 | Ascom                          | ASCOM Alarm Management Server (AMS) | Windows, PC, DECT & WLAN terminals |
| Headset, with or without cable, mono or duo, standard noise cancelation for microphone                     | GN Netcom GmbH                 | Jabra Headsets                      | n/a                                |
| IP based voice and video conference system   | TE-Systems                     | Colloquium.IP                       | from Windows XP                    |
| Inbound/Outbound call centre applications incl. ACD and IVR  | Authensis AG für Kommunikation | ACHAT                               | Windows, Linux                     |
| Unified Communications solution for messages: e-mail, fax, short text and voicemails on one user interface | serVonic GmbH                  | IXI-UMS                             | Windows                            |

Table: Excerpt from Recommended Products

Jabra®

# SAVE YOUR NECK

TALK IN COMFORT WITH A JABRA PRO™ 9400



## Jabra PRO™ 9400 SERIES STAY IN TOUCH AROUND THE OFFICE

- User-friendly touch screen for easy call control
- Triple connectivity: desk phone, softphone and mobile phone
- Merge calls from different phones
- Easy installation with SmartSetup wizard
- Wideband sound for desk and softphones
- Dual-microphone Noise Blackout™ and Digital Signal Processing
- Full hearing protection with Jabra SafeTone
- Up to 150 meters wireless range
- Up to 9 hours talk time
- Full EHS support
- Future-proof investment - free product upgrades via Jabra PC Suite
- Choice of 3 wearing styles for greater comfort

For more information visit [www.jabra.com/stayintouch](http://www.jabra.com/stayintouch)



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innovaphone AG | Böblinger Straße 76  
71065 Sindelfingen | Germany  
Tel +49 7031 7 30 09-0  
Fax +49 7031 7 30 09-99  
[www.innovaphone.com](http://www.innovaphone.com)  
e-mail: [info@innovaphone.com](mailto:info@innovaphone.com)