» The Real Time IP System
for medium-sized up to
very large enterprises «

HiPath 4000

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SIEMENS

As a successful company, you know how important communication is for your business. Regardless of whether you have only one very large location, or work across a network of satellites and branch offices, the quality and efficiency of your communication plays a hugely significant role in ensuring the smooth and efficient flow of business processes.

A new quality in IP communication

The innovative real-time IP system HiPath 4000 combines the advantages of IP-based communication and the service spectrum of telephone line communication systems – with greater resilience than could previously have been expected from pure TDM solutions. It is the right communication solution for medium-sized to very large companies and groups of companies that place the highest demands on safety, flexibility and services. The architecture of the communication system can be applied to companies with a spread-out, discrete architecture as well as to companies with a campus structure. Via a shared, open IP architecture companies can connect and communicate between different locations within a comprehensive network infrastructure.

HiPath 4000 offers sophisticated functions in IP and/or TDM environments, and, due to the inter-operability with the real-time IP systems HiPath 3000, HiPath 5000, and HiPath 8000, also makes possible the adjustment to customer-specific solutions – for any company size and any requirements.

Through its comprehensive resilience functions, HiPath 4000 secures company profitability that is achievable from HiPath communications solutions and their intelligent applications. A wide range of options, further development opportunities and higher added value from existing and future investments make the HiPath 4000 Real Time IP System a particularly economical decision.

HiPath 4000 – from Siemens, of course

Through a dialog with the customer, Siemens Communications develops innovative communications solutions that set trends and support enterprises in reaching their goals. Perfectly adapted to the most diverse branches and different company sizes and structures.
The Real Time IP System HiPath 4000 also offers all the advantages that have made Siemens the leading provider of communications solutions: especially high reliability and protection against failure, combined with the greatest level of flexibility and performance, along with fantastic compatibility and maximum scalability. Siemens is the only provider of complete solutions consisting of wireless infrastructure, user applications and devices. Only these end-to-end solutions offer a high return on investment, low total cost of ownership, and facilitate smooth implementation. And all this from a single source with the comprehensive portfolio of HiPath Services.

» HiPath 4000 – the IT switch for innovative communication «

Your staff uses all forms of communication – at all times and from all locations. Your customers demand maximum service quality and accessibility – preferably round-the-clock. Then the HiPath 4000 Real Time IP System is the right solution.

» HiPath 4000 –
makes the difference «

By combining the well-known strengths of TDM technology and the advantages of Voice over IP architecture, HiPath 4000 offers companies a comprehensive spectrum of resilience functions. These include modular, multi-level redundancy, failure safety, as well as access protection. The use of open standards, such as SIP and SRTP, opens up numerous expansion options for companies.

A new dimension of safety and reliability

Innovative routing intelligence ensures smooth operation even in the case of host failure. Intelligent survivability in the event of failure on the part of main or sub-systems can be scaled in accordance with requirements. In the event of IP network failure, an immediate diversion into the public telephone network (PSTN) takes place. Failure security can be further increased through the installation of a failure security module at each decentralized location. The use of a high performance real-time operating system provides comprehensive firewall functions.

HiPath 4000 offers a modular communications architecture consisting of "mix and match" components, supporting a wide range of communications options, standards and protocols. Integrated gateways and a protocol adaptor IP-TDM ensure maximum flexibility by enabling dynamic switching between different systems.

Particularly flexible and standard-based

The components meet industry standards: compact cPCI hardware in 19 inch rack design format or in standard hardware chassis. Furthermore, HiPath 4000 is equipped for ongoing support of existing analog and digital equipment. In addition, HiPath 4000 supports the open standard SIP (Session Initiation Protocol), which means smooth migration, easy integration and reliable investment protection – today and in the future.

HiPath 4000 offers full scalability and low complexity. Usable and expandable from the very smallest to the largest expansion, up to 15 directly connected access points and, in addition, up to 83 access points distributed via IP can be supported. In these configurations a maximum number of 12,000 digital or IP connections are possible. Thus, in network systems, there can be up to 100,000 participants without any problem.

Almost limitless expandability

Therefore HiPath 4000 is also suitable for very large companies or as a future scenario for company expansions, because with this scalability you will remain flexible for further expansions. Existing systems, such as HiPath 2000, HiPath 3000, or HiPath 4000, can be easily integrated into any IP or TDM infrastructure of the HiPath 4000 through an improved HiPath CorNet IP Interworking.

HiPath ComScendo on a Button suite

The HiPath ComScendo on a Button suite is an innovative off-the-shelf package of features, which – in conjunction with optiPoint display phones, HiPath cordless phones or an optiClient – provides new kinds of features to increase workplace productivity. The functions can be set up on the end device to be called up either by separate keys or via a menu that is called up via a single application key. The connection between HiPath 4000 and the corporate directory is generated by HiPath CAP (Common Application Platform – SW is supplied).

EasyLookup. Simple access to the corporate directory (LDAP) via search parameters, output of results on the display and direct dialing of the displayed phone number.

EasySee. Output of information from the corporate directory as PhoneCard on the PC.

EasyMail. Opening of an e-mail window on the PC with the e-mail addresses of all contacts.

EasyShare. Starting Microsoft Netmeeting on the PCs of all known contacts (in the directory).

EasyConference. In combination with the HiPath Meet-Me Conference Server (MMCS), conferences can also be initiated directly and quite conveniently via a key at the optiPoint terminals.

More options for your communications

SIP trunking offers companies many advantages – higher quality of service, more comprehensive functions and true convergence of voice and data in the telephone network. The open standard makes communications solutions more flexible, accelerates business processes, and provides new SIP-Q features, such as caller ID, call administration and call charge display.
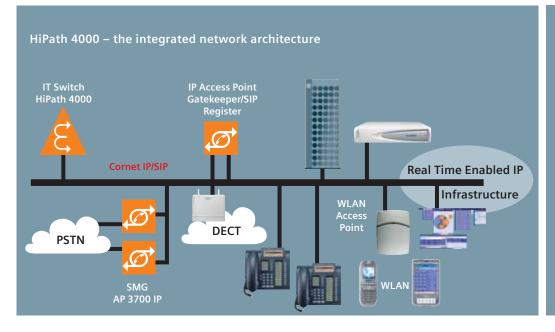
More security for your communication

HiPath X000 uses security encryption to protect your communications against unauthorized access to confidential conversations. Based on international standards, both call details and signaling paths are encrypted. And without any additional software or hardware, because the encryption is done directly in the existing end devices and in the gateways used.

❯ Comprehensive security – simple administration

HiPath SIcurity. With HiPath SIcurity, Siemens offers complete security systems from a single source: analysis and consulting, network and system security, secure access through SmartCard-based solutions and protection of your resources by means of identity and access management. Solution packages developed on the basis of typical requirements profiles can be adapted flexibly to specific needs. That cuts costs and provides you with the security that all solution components harmonize perfectly with one another.

HiPath MetaManagement. HiPath MetaManagement is the comprehensive, cross-system management solution for uniform administration of networks consisting of HiPath Real Time IP Systems, applications and standards-based third-party-provider products.

HiPath 4000 – the integrated network architecture

IT Switch HiPath 4000

IP Access Point Gatekeeper/SIP Register

Cornet IP/SIP

Real Time Enabled IP Infrastructure

PSTN

DECT

SMG AP 3700 IP

WLAN Access Point

WLAN

Within a real time–capable IP architecture, all parts of an intelligent, converged data and speech network interlock seamlessly – perfectly integrated IT: A slim IT switch, survivable media gateways, on-campus mobility solutions on the basis of DECT or WLAN, supported by a large number of high-performance applications – this is how you generate general satisfaction among your employees and a great competitive edge for your company.

» HiPath 4000 – the perfect supplement with applications, end devices and services «

HiPath Applications

Whether CTI applications, cordless solutions, unified messaging, or call center – a selection of many optional applications for HiPath 4000.

Do you want to optimize your CRM?
With a professional call center software solution you integrate customer-related processes into an innovative customer relationship management. Whether it is Internet, e-business, mobile business, or fax – the exploitation of customer potential is optimized, internal decision-making processes are accelerated, and the transparency of customer profiles is increased. This allows you to optimize customer service and loyalty.

Would you like to improve accessibility? An integrated speech storage system makes it possible to recall and distribute speech messages in a user's own voicemail box with individual outgoing message. Recorded calls can be retrieved anytime and from any place, and messages can also be signaled externally via user outcall.

Do you need standardized interfaces?
Do you need standardized interfaces? With a common application platform, interfaces that are based on open standards are provided to facilitate the integration of customer-specific solutions. CAP entry licenses are already part of ComScendo for HiPath 4000 at no charge. This makes it possible to seamlessly integrate vertical applications for hotels, banks, insurance companies and hospitals via standardized interfaces, such as TAPI and CAP.

》 HiPath Meet-Me Conference Server (MMCS)

Thanks to MMCS, all participants of a conference can dial in regardless of their current location and their infrastructure. All participants simply call the same number and are directly connected with each other – without having to take the trouble of having to call all participants. MMCS offers 1,000 meet-me conference rooms with up to 30 participants. Design and editing of personal conferences is done by the employees themselves, with settings for regular conferences being saved.

optiPoint 410 standard

An especially flexible IP phone with maximum adaptability, and exceptionally high voice quality thanks to G.722 broadband codec technology. Features can be updated simply via software downloads.

Further models:
optiPoint 410 entry
optiPoint 410 economy
optiPoint 410 economy plus
optiPoint 410 advance

optiPoint 420 advance

Ideal for desk sharing and flexible office environments. Thanks to new, innovative technology for automatic transfer of key presets and labeling, users can access their own key presets from every optiPoint 420.

Further models:
optiPoint 420 economy
optiPoint 420 economy plus
optiPoint 420 standard

HiPath Services

With HiPath Services, Siemens offers a comprehensive portfolio of solutions and support that increase the reliability, availability and security of networks and applications – from consultancy and integration through operational service support and outtasking. It supports the smooth running of all business processes – at any time and anywhere.

Professional Services provide resultoriented consulting, system integration and extensive modification services to ensure optimal integration of applications and business processes

Lifecycle Services offer comprehensive assistance, from implementation through ongoing support – guaranteeing the availability and security of the communications network and all applications.

Managed Services take over, if desired, complete communications management as an out-tasked service - for increased availability of the communications infrastructure and reduced overall costs.

optiClient 130

Telephony via PC offers many advantages: no telephone takes up space on your desk; you can work anywhere – whether you are in the office or on the road - with the same familiar user interface.

optiPoint WL2 professional

This convenient WLAN telephone also makes the full range of features available in the company on a mobile basis. With up to 4 hours of calling time and up to 80 hours of standby time.

Your success is the focus of everything we do at **Siemens Communications**. We work together with you to develop powerful communication solutions that help you achieve your business goals. Take advantage of our proven experience, innovation power and implementation skills in all key areas of voice and data communication.

As a leading provider of communication solutions for mobile, fixed and enterprise networks worldwide, we constantly strive to make communication easier and more efficient. Thus we are setting the trends for a communication environment that fosters your success – today and in the future.

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