

optiset E IPadapter— Add Value to Your Business

A Siemens White Paper

Steven Youngberg, Network Infrastructure Marketing

The optiset™ E IPadapter opens up the IP world to Siemens' seven million IP-ready optisets, 70 million workpoints, 2.5 million communication platforms and one million customers. The device, an accessory to Siemens' optiset E family of telephones, validates Siemens' HiPath technology as innovative, superior and evolutionary. Some vendors state that if you choose their system, "its all IP or nothing." Why compromise? It's not all or nothing with Siemens. We give you a choice of solutions, transport, and geographical location—when and where it makes sense for your business.



The IPAdapter

The IPAdapter connects to your existing optiset phoneset and your LAN or WAN. It lets you send calls through the data network to other devices that have access to IP transport, as well as to switched network devices. It will be available for the Hicom 150 H in September 2000 and for the Hicom 300 H in December 2000.

Operation

The IPAdapter converts normal optiset signaling into IP packets for transport via 10 base Ethernet over a LAN or WAN. You can connect the optiset and IPAdapter anywhere on your LAN/WAN through an RJ45 data connection. There are some features that will not be available in the version 1: room monitor, speaker call, hands-free answer back, relocation function and group call. The IPAdapter uses the same local power supply as the optiset E.

Workpoint devices compatibility

Just think of the world that the IPAdapter opens—IP telephones and PC clients, all native to IP. And, you still have access to the switched world!

When connected to an optiset E, the IPAdapter converses with Siemens optiPoint™ terminals and optiClient™ PC clients via H.323. Supported optisets include the Entry, Basic, Standard, Advance Plus and Memory, as well as optiset E Key Modules. Basic and Entry support require a Web browser. Additional features will be implemented in Version 2 of the IPAdapter.

Applicable communication

The Hicom 300 H, using the HG 3300 STMI IP gateway, and the Hicom 150 H, using the HG 1500, support the IPAdapter.

Infrastructure investment protection

With the IPAdapter, you don't need to replace your time-tested, feature-rich optisets just to exploit IP. The HiPath architecture lets your system grow to meet your needs—in accordance with your schedule and wherever you are along the communication evolutionary path. The IPAdapter allows one million Siemens' customers to be secure in their choice of Siemens future-proof solutions.

Siemens offerings are IP-enabled. This means that Siemens' communication platforms—including the Hicom 300 H, Hicom 150 H and HiPath 5500—as well as optisets, client PC's, and IP telephones all accommodate IP. This allows you to continue to purchase our solutions, migrate your current systems and leverage your network infrastructure, while planning for the future and future-proofing your investments.

Connectivity to the IP world

The IPAdapter provides direct access to IP and other H.323-compatible devices. This is critical, since many solutions that were once switched transport will be moving to IP transport. Mobility networks are growing fast, with new generations of base stations for microcell coverage. Second-generation mobile networks will offer direct access to the Internet via packet-switched transmission techniques (e.g., GPRS Support Node). Third-generation mobile networks, e.g., time division duplex (TDD) and frequency division duplex (FDD) base stations for UMTS (Universal Mobile Telecommunication System) will be technology enablers for business. Wireless and wired networks will leverage IP, allowing you to take full advantage of new business opportunities and remain competitive.

Quality

The IPAdapter leverages industry standards to provide exceptional quality of service and reliability. It uses H.323 with CorNet TS tunneling, Audio codec G.711 and G.7232). The signaling (CorNet TS) is transparently tunneled through a CorNet TC connection over the LAN, while the bearer channel (B-channel, voice) is set up through an H.323 connection over the LAN. Both CorNet TC and H.323 use Internet Protocols (IP).

Administration of IPAdapter

When you move an optiset from one data jack to another, the IPAdapter automatically reestablishes its new location through DHCP (dynamic IP configuration).

There are two different user interfaces provided by the IPAdapter:

- Administration via an HTTP-client for all optiset E's with a DHCP tool for IP addressing; the HTTP client is the same as the optiPoint 300 family of IP telephones
- Administration via an optiset E phone with display

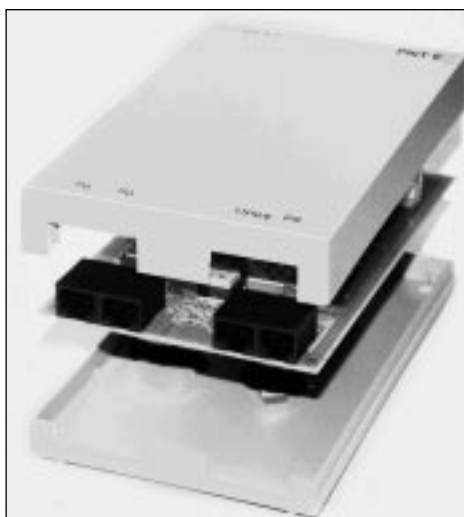
The user interface is used to initially set up the IPAdapter or is activated if there is no HTTP-client access available. To initialize the basic adapter configuration and provide administration, you use an optiset E display phone and dialog keys. optisets that do not have a display are configured via a web browser.

Benefits of IPAdapter

The IPAdapter allows you to retain your current communication platform's operation and feature familiarity. This lets you limit re-training—saving you money.

Many solutions and applications are moving to the IP world. Circuit-switched solutions are providing the option of IP connectivity. The IPAdapter lets you leverage the feature richness of the Siemens communication platform and the optiset family in the IP world. With the IPAdapter, common applications can be shared by one solution over a distributed architecture.

IPAdapter



With the IPAdapter, mobile employees can enable IP while teleworking.

One of the cornerstones of the HiPath optiPoint workpoint clients is Siemens' patented optiGuide context-sensitive user interface. Because it's context-sensitive, optiGuide™ always prompts with only the choices that make sense in the context of the moment. This context-sensitive optiGuide feature offers another key advantage—it enables Siemens to employ a consistent optiGuide interface across a wide variety of clients. The exceptional value of optiGuide becomes apparent as you move between different locations and client types. Under these conditions, you don't have to deal with a loss of features. Whether you're in the office using an optiset E telephone or soft phone client, or out of the office using a cell phone, your home phone or IPAdapter IP transport, optiGuide is there to help you make the most of each call. You can also enable optiGuide audio voice prompting on cellular telephones, leveraging optiset features.

Why compromise with less feature capabilities from other vendors?

Siemens provides choices, you have the same feature richness and reliability using a digital connection or IP connection. When you are ready for IP, we can provide that choice for you, leveraging your infrastructure investments.



Strengthens the evolutionary process

The IPAdapter solidifies the evolution from circuit switched to IP driven.:

1. Of circuit-switched, to leverage IP benefits
2. Of IP, to support circuit-switch feature richness
3. To common applications
4. To the mobile enterprise

Technical information

The following table provides supported features of the IPAdapter Versions 1 and 2:

Feature	optiset E IPAdapter Version 1 (September 2000)	optiset E IPAdapter Version 2 (December 2000)
Peer to Peer	not supported	Required
HG 1500 Gateway (Hicom 150 H)	Supported	Supported
HG 3000 family gateway (Hicom 300 H)	not supported	Supported
LAN-OUT	not supported	not supported
# Up0E-OUT	1	1
LAN-I/F	10BT	10BT
Audio Codecs	G.711	G.711, G.723 2)
H323 outband DTMF	not supported	not supported
optiset a/b-Adapter	not supported	Supported
optiset S0-Adapter	not supported	Required
optiset Phone-Adapter	not supported	not supported
optiset V.24-Adapter	not supported	Only API 2
optiset Headset-Adapter	Supported	Supported
Side Cars	Supported	Supported
Hands Free Mode	Supported	Supported
Administration Language	English	English
DHCP (dynamic IP configuration)	Supported	Supported
Mini-U/I (manual IP-configuration)	Supported	Supported