



## NATIVE VOIP

Alcatel **OmniPCX Office**



**Your company can avoid costly voice calls between their various sites in the world by sending voice over your existing worldwide data connections. You can simplify your in-site cabling infrastructure by connecting telephones to the same cable as PCs. And you can deliver a consistent level of voice features whatever the location or the user - headquarters, branch offices, home workers or mobile workers - by incorporating a voice server on your data network.**

### Native VoIP

The Alcatel **OmniPCX Office** is a server. More precisely, it is an appliance server, meaning that the software is preloaded, therefore allowing easy installation and maintenance as well as unmatched reliability.

The Alcatel **OmniPCX Office** offers native feature-rich call management for up to 200 IP users, without needing additional hardware.

The All-in-a-box Alcatel **OmniPCX Office** integrates a call server and a media gateway.

### Lower Costs

With the Alcatel **OmniPCX Office**, your company can reduce long-distance charges for internal-company calls by integrating voice into your WAN data network.

### Easy IP Phone Modification

With the Alcatel **OmniPCX Office** DHCP server, an IP phone can be moved or added in seconds.

### Better Communications for Branch Offices, Home Workers, Mobile Workers

More and more, users expect a transparency of features between headquarters and branch *offices* (same directory, voicemail, etc.).

This is implemented automatically by having remote IP phones in branches managed by the call server at the headquarters - IP phones share exactly the same features wherever they are located. Implementation assumes a managed data link between sites (leased lines, IPVPN, etc.).

When mobile workers connect to your company through the Internet (e.g. to download price lists or files), their PC can benefit remotely from the call server telecommunications features.

### IP Telephone Communications

The **OmniPCX Office** offers feature-rich call management for up to 200 IP users.

### E-Reflexes sets

A range of 3 phones - Advanced, Premium, Easy - offering a high level of telecommunications services (e.g. dial by name, text messaging, multiline, supervisor, secretary, etc.).

- 2 port Ethernet switch (10/100BT)
- G711, G723.1 and G729a voice compression
- Voice Activity Detection (VAD) and Comfort noise generation
- Level 3 QOS: TOS and Diffserv.

### IP PIMphony (Soft Phone)

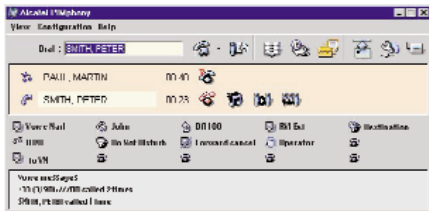
The Alcatel PIMphony is a client server software package providing user-friendly access to the **OmniPCX Office** telecommunications features from a PC (refer to PIMphony for Alcatel **OmniPCX Office** datasheet). It includes:

- VoIP protocol stacks, G711 and G723.1 voice compression to load on PCs
- PIMphony client software to load on PCs
- CTI server software embedded in the **OmniPCX Office**
- 3 feature levels: Basic, Pro or Team

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- Level 3 tagging and prioritization available with Windows 98, 2000, Millennium, NT4, XP
- handsets or headsets are available for increased comfort.



### H323 Devices

The **OmniPCX Office** supports standard H323 (V1 & V2) devices such as PCs with Microsoft NetMeeting.

### IP Trunking

The Alcatel **OmniPCX Office** offers IP trunking for up to 96 IP trunks. IP trunking is available with 2 main types of access to the WAN.

### WAN Access through the Alcatel **OmniPCX Office**

VoIP benefits from the **OmniPCX WAN** QOS mechanism.

- Policing: Based on TOS/Diffserv header, the **OmniPCX Office** puts Voice-over IP in its high priority queue.
- Queuing/ Shaping: the **OmniPCX Office** manages 2 queues in a buffer memory - a High Priority queue and a Lower Priority queue.
- Congestion control: the **OmniPCX Office** use Random Early Detection mechanism (RED) on the Lower Priority queue to inform packet sources to decrease their transmission rate.
- VoIP shares the bandwidth with the **OmniPCX Office** Internet applications (e-mail, VPN, etc.).

### Direct WAN Access via a Router

IP phones can access the WAN via a router directly connected to the LAN. This solution is particularly suitable for large corporate data networks.

- Policing, queuing, shaping and congestion control are managed directly by the router.

### Overflow, Backup and Optimization

Whatever the connection method, the Alcatel **OmniPCX Office** provides overflow and backup mechanisms through ISDN, as well as IP trunking optimization.

- Overflow: when VoIP calls exceed a given limit.
- Backup: in case of WAN link failure.

- Optimization: thanks to H450-based mechanisms, IP resources and number of compression/ decompression are optimized, as a result QoS is improved in situations of transfer and forwarding within the WAN.

### FoIP (Fax over IP)

The **OmniPCX Office** supports the T38 protocol that allows fax calls to be routed over the IP network, as well as the interoperability with other T38 devices.

### Interoperability

- The Alcatel **OmniPCX Office** is H323 V2 compliant and thus is able to interact with Alcatel and non-Alcatel systems supporting this standard.

