

Alcatel-Lucent OmniPCX Enterprise

{tab=Overview}

The Alcatel-Lucent OmniPCX Enterprise (OXE) Communication Server (CS) is a highly scalable solution based on a pure software communication server platform that provides multimedia call processing for both Alcatel-Lucent and third-party clients/phones including TDM, IP and SIP.

This rich call-handling application delivers world-class business telephony features for medium, large, and very large sized companies and offers a choice of either centralized or decentralized IP telephony solutions.

The Alcatel-Lucent OmniPCX Enterprise CS provides the building blocks for any IP and/or legacy communications solution, incorporating the latest Linux, XML, SIP, VXML technologies, and open standard practices such as QSIG, H.323, CSTA, and SIP. It offers broad scalability ranging from 10 to 100,000 users who can be spread across multiple geographical sites. Plus, it offers highly reliable, real-time, carrier-grade performance solutions with an unmatched 99.999% uptime.

{tab=OXE Offers}

- Architectural flexibility, which enables centralized or decentralized IP configurations, a choice of IP, IP/TDM or TDM, which minimizes additional investment, and at the same time, ensures interoperability through support of open standards. The Alcatel-Lucent OmniPCX Enterprise provides SIP at the core, enabling a smooth migration at your own pace, when and where it makes financial sense.
- Simplified management, because the same network management software is used across the enterprise, independent of the underlying infrastructure. The Alcatel-Lucent OmniVista Network Management System is a single, open management platform designed to manage and control a global, OmniPCX IP communication solution.
- Intelligent networking, reducing the cost to support all users at different sites. For instance, feature transparency across servers, or advanced route selection (ARS) is available from any site without having to duplicate the software at each site. A single image across fully networked servers provides simplified management of large and very large configurations.
- Openness, interoperability and integrated solutions. The OmniPCX Enterprise integrates open standards and state-of-the-art technologies to provide a very flexible solution. Alcatel-Lucent helps maximize customer investment returns by simplifying the interworking and integration of its solutions within existing or future communication environments. This is supported by hundreds of applications validated through the Alcatel-Lucent Application Partner Program (AAPP).

{tab=Financial Benefits}

A rapid and measurable return on investment and visible savings:

- Shared bandwidth in multi-site networking yields 5% to 30% savings in subscription and communication costs

- Centralizing applications yields 5% to 20% savings in carrier subscription and communication costs
- Integrated management of data and voice networks yields 10% to 40% savings
- Centralized maintenance, upgrades and related operations yield 5% to 20% savings
- Moves, adds and changes (MACs) yield 20% to 30% savings – 30% to 60% savings in cabling!
- Fixed/mobile convergence solutions (cellular extension and dual-mode WiFi/SIP) yield 10% to 20% savings of cellular costs
- Embedded IP contact center improves customer satisfaction from have a faster response
- Smooth migration path yields 20% to 50% savings in PBX annual hardware investment

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Technical Specifications

Software

- Client/server
- Chorus MIX micro kernel operating system
- SQL/CQL database
- Linux LILO/GRUB-compliant
- Linux Red Hat and Linux Kernel 2.4.17

System

- Centralized or distributed system
- Communication server and database duplication
- Main-standby seamless communications fail-over
- Passive communication server watchdog: central or remote
- Single server: 15,000 IP users/5,000 TDM users
- 100 servers in a single network
- Fully networked servers, 100,000 IP/TDM users with single image
- 250 servers in a supra network

- >1 million users in a supra-network
- BHCC per server: 300,000

Hardware

- Industry appliance servers or "in-the-skin processing";
- Native Ethernet connectivity on all CPUs
- Modular hardware
- TDM or IP switching
- Power supply
- Auxiliary power supply

To learn more about Alcatel-Lucent OmniPCX Enterprise, download this Acrobat PDF file Datasheet by clicking [here](#)