



UNIVERGE® Spherical® Enterprise Softswitch

Communications for a Competitive Edge

Empowered by Innovation

NEC



NEC's UNIVERGE Spherical Enterprise Softswitch is a complete, software-based communications solution designed to seamlessly integrate and reside within the application environment of any business. Spherical functions as a communications server, it integrates communication channels with business processes, and it supports unified communications applications. By combining these three distinct capabilities, Spherical delivers unmatched flexibility, reliability and scalability in an open-system solution. The improved efficiency it delivers enables organizations to leverage their network's true potential and make meaningful improvements to their company's communications.

Flexible, Standards-Based Components

As a business software system, Spherical moves communications out of the wiring closet on to general purpose servers of an organization's choice to run alongside other mission-critical applications on their network.

Spherical is unique because as a software-based solution, it can run on any underlying network infrastructure. This provides a high degree of flexibility and choices so that:

- companies can choose from a wide range of certified IP client devices, enabling end users multiple options to adapt to business needs
- users can take advantage of an integrated communications desktop for multiple forms of communication including voice, video, text messaging and SMS
- proprietary, dedicated voice switches are not required
- analog, SIP, T1 or PRI trunking are supported by the system

Additionally, Spherical offers multiple media gateway options for PSTN connectivity and legacy analog and digital PBX connections, ensuring a migration path and protection of existing investments.

Complete Enterprise Call Control and Rich Set of Communication Features

Spherical Manager is the core component of NEC's next generation software-based IP communications solution. It provides a comprehensive set of tools to help manage, maintain and monitor an organization's system. It includes an easy-to-use GUI that supports a wide range of capabilities. Flexible number planning, call accounting, rights-based security, and Class-of-Service profiles are just some of its extensive feature set. Included in Spherical Manager is a powerful reporting tool that analyzes call performance, tracks call volume and monitors resource usage.

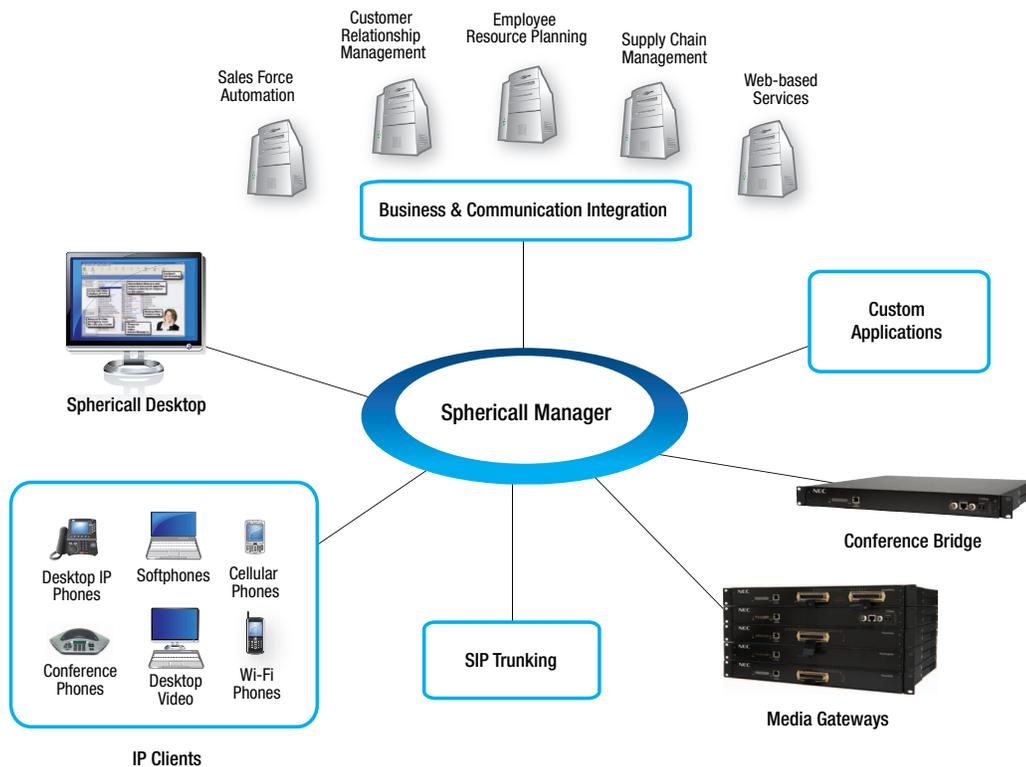
Spherical Manager supports many features in a single integrated environment while other vendors' solutions frequently require multiple external servers. Spherical Manager's integrated features include: music on hold, announcements, multi-lingual auto attendant, voice-mail, unified messaging, rich presence engine, text messaging and call-recording.

Unified Communications through Value-Added Applications

Spherical Manager integrates with the Spherical Desktop software suite to deliver unified communications to the enterprise desktop. Spherical provides the foundation of traditional unified communications capabilities that businesses need, including:

- Unified messaging
- Mobility and Wi-Fi solutions
- Integrated softphone functionality
- Integrated, on-demand conferencing
- Rich Presence
- Collaboration solutions
- Desktop video & instant messaging
- Software-based, on-demand recording

Spherical Manager also integrates with Microsoft® Exchange®, Active Directory®, and Outlook® to provide a powerful, fully-featured unified communications solution for enhanced efficiency and productivity. This set of tools is included at no charge and is bundled within the voice license. A complete software development kit (SDK) is also available at no charge for third-party product integrations.



Distributed-Software Architecture

Spherical, as part of an open, mission-critical communications infrastructure, is a distributed software application that can operate on centralized or remote networked servers, with no one server acting as a single point of failure. This provides an organization with redundancy and reliability in the event of network outages. This also minimizes hardware costs because shared processing and load balancing provides maximum system availability, enabling one Spherical system to support up to 30,000 ports.

Business and Communications Integration with Web Services

Spherical allows companies to integrate enterprise communications with complex business systems to achieve advanced, customized business solutions. With the introduction of open, standards-based components, Spherical becomes an enterprise communications system used by various business applications to integrate communications into business processes.

Web services support an open architecture that allows multiple devices to communicate and co-exist for fast, flexible, and repeatable application development and integration. Through standards-based XML and SOAP technology, web services provide access to the rich communications services of the software-based Spherical. Web services align with the concepts of a service-oriented architecture (SOA), enabling enterprise applications to easily integrate communications functions into critical business processes.

Specifications

Minimum System Requirements

Component	Minimum System Requirement
Operating System	Windows® 2003 Server
Additional Software	Java 2 Runtime Environment (Standard Edition) v.5 or higher
CPU	Intel Pentium 4, 2.4 GHz or higher (Core Duo and Quad Core, 2.8 recommended)
Memory	1024 MB SDRAM or higher (2048 recommended)
Ethernet	100 Mbps Ethernet recommended
System Speed	80 GB ATA HD or higher (250 GB recommended)

Additional Information

Protocols Supported
<ul style="list-style-type: none">• SIP - RFC 2543 / 3261• DHCP• SIMPLE (Windows Messenger)• TAPI 3.0• DirectX 8.0• XML• TCP/IP/UDP• FTP/TFTP• SNTP• RTP/RTCP• SOAP

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