



HP OpenCall Intelligent Network Server

Data sheet



HP OpenCall Intelligent Network Server is a proven cost-effective, fault-tolerant platform—what providers of wireline, wireless and converging telecommunications services need to deliver the advanced services that attract and retain customers.

HP OpenCall Intelligent Network Server provides a proven, robust IN services platform that supports legacy wireline, legacy wireless and next-generation IP Multimedia Subsystem-based networks (IMS).

Built on HP NonStop S-Series and Integrity NonStop servers, HP OpenCall Intelligent Network Server brings the same levels of reliability, scalability and data integrity to the core network services as those powering financial institutions and stock exchange markets worldwide.

HP OpenCall Intelligent Network Server meets today's challenges, enabling your organization to rapidly deploy new telecommunications services to take full advantage of lucrative market opportunities.

Key features and benefits

- The most reliable transaction processing server in the industry protects against outages harming your business.
- Virtually unlimited scalability enables you to expand capacity and performance simultaneously and easily as your service needs grow.
- Data integrity gives you confidence that problematic hardware will not compromise the most valuable component of the service—subscriber data.
- An open application programming interface and software architecture helps meet your service development and deployment needs.
- The platform offers common manageability for the industry-leading HP OpenCall Home Location Register and its next-generation successor, HP OpenCall Home Subscriber Server.
- Multiple applications can be delivered on a single platform.

Protect your revenue streams with the highly reliable IN platform

HP OpenCall Intelligent Network Server is hosted on HP NonStop servers, renowned for unsurpassed reliability. HP NonStop servers have proven to have virtually no downtime and provide the uptime reliability that telecommunications providers and their customers depend on globally. It's no wonder that the world's largest telecommunications companies have chosen to deliver their off-switch services on HP platforms.

The HP OpenCall Intelligent Network Server has the versatility, performance and reliability to be the services delivery foundation of your network. The INS was designed to manage advanced telecommunications services, such as Home Location Register (HLR), fraud prevention, prepay services, location services, enhanced networking services and others.

HP OpenCall Intelligent Network Server SS7 interfaces include:

- Channelized T1/E1 Low Speed Links
- Unchannelized T1/E1 High Speed Links
- SS7 over ATM on a T1 or E1 carrier High Speed Link
- SS7 over IP/M3UA (SIGTRAN)

HP OpenCall Intelligent Network Server also operates with a distinctive single-system image. This process enables the use of a messaging environment for traffic processing and creates a true fault-tolerant structure, unlike simple high-availability platforms.

Highly scalable and available service platform that grows with your business

With its compact footprint, HP OpenCall Intelligent Network Server platform can range in capacity from two processors to 16 processors in a single system environment. This scalability enables carriers to seamlessly support ever-increasing subscriber bases and usage with continuous availability and minimal upgrade effort. One U.S.-based carrier supports 4.2 billion transactions per month with four 12-CPU S86000 systems running multiple applications.

Rapidly deploy and develop your own advanced services

Developing scalable applications spanning multi-standard, multi-generation networks is not a trivial task. HP OpenCall Intelligent Network Server helps developers overcome many of the complexities by providing subsystems and capabilities that offload as much of the application development work as possible. Two development environments are provided to meet the varying needs of different service types, offering complete flexibility to telecom providers.

The native service development environment offering a C Application Programming Interface (API) provides:

- Maximum performance and application control over all levels of the signaling layers
- A robust set of libraries providing a SIP interface into IP networks
- Additional capabilities for building TCAP and ISUP messaging services

The Telephony Service Creation Environment (TSCE) provides:

- A graphical service creation environment and execution environment for rapid development and deployment
- Several Service Independent Building Block (SIBB) libraries that provide bundles of functional capabilities that can be used together to build an application
- The capability to create new SIBBs using the powerful native C API

Effectively manage your data

Because efficient data management is an essential component of a service platform, HP OpenCall Intelligent Network Server also includes a fast and extremely scalable Memory-Based database Environment (MBE) that offers optimum performance and fault tolerance. The Memory-Based database Environment keeps the entire database in memory for maximum performance, stores all data on disk if needed, and enables data to be replicated on each of the servers to provide geographic redundancy.

Seamless evolution to next-generation networks and the latest technologies

HP OpenCall Intelligent Network Server systems are fully compatible with wireline, wireless and hybrid (wireline/wireless) applications provided by HP and its business partners. This compatibility enables your organization to further leverage your existing technology investments well into the next-generation networks.

Furthermore, co-location of the world-class HP OpenCall Home Location Register and its next-generation successor, HP OpenCall Home Subscriber Server, on the same platform means subscribers enjoy a seamless service when moving from the legacy ANSI and GSM to IMS networks. The HP OpenCall Home Subscriber Service is leading the industry in providing the standards-compliant interfaces that service providers need to manage subscriber and service data in a heterogeneous IMS network. Co-location allows for easier management of the products with a single provisioning interface.

The latest developments in HP NonStop server technology enable HP OpenCall Intelligent Network Server software (including the graphical service creation environment and the Memory-Based database Environment) to operate on the new Integrity NonStop servers using existing I/O cabinetry and TigerEye communication boards. This allows existing customers to retain a significant portion of their original investments, rather than having to replace all components. Furthermore, the operational interfaces for the HP OpenCall Intelligent Network Server and the applications running on it are identical between the HP NonStop S-Series and HP Integrity NonStop servers.

A range of world-class HP applications complemented by HP OpenCall partnership products

The following is a partial list of the applications currently available from HP OpenCall:

- HP OpenCall Home Location Register (GSM/ANSI/GPRS/UMTS)
- HP OpenCall Home Subscriber Server
- HP OpenCall Position Determination Entity

For a complete list of features, please contact your HP sales representative.

Partner products running on HP OpenCall Intelligent Network Server

HP and its partners fulfill service providers' business objectives with attractive, ready-to-deploy applications:

- **CBOSS rtBilling**—a real-time billing offering for both prepaid and post-paid services
- **Invigate Premium Real Time Rating and Management**—a convergent rating offering for advanced voice/data services that empowers both wireline and wireless operators

- **Generic Number Translator from Integrated Telecom Solutions (ITS)**—an intelligent number translation offering designed to reduce the costs associated with network-based number translations
- **Global Virtual Private Network**—developed by ITS and powered by HP OpenCall Intelligent Network Server, GVPN enables service providers to enhance their product portfolio by offering VPN service to high-value corporate subscribers.

Location-based Services

- **Virtual Caller ID**—a low-cost alternative to traditional voicemail systems
- **Wireless Caller Name**—an essential element for any wireless network looking for parity with landline services

Technical specifications

System requirements

Hardware: S70000, S72000, S7400, S74000, S7600, S76000, S7800, S78000, S86000, S88000, NS5000, NS16000

Software: G06.27 for S-Series, H06.05 For NS-Series

About HP OpenCall

Leading carrier-grade platforms

HP OpenCall software is an integral part of HP's portfolio of wireline, wireless, IP and media solutions and enables service providers to transition to IMS-based networks and effectively manage the triple play of voice, data and multimedia services. Deployed in 40 of the world's top 50 service provider networks, HP OpenCall is the market leader in many industry categories, facilitating the convergence of the Internet with the world of voice communications.

For further information on HP OpenCall platforms, visit: www.hp.com/go/opencall

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