



Deliver what they want

HPE Intelligent Network Server



Hewlett Packard
Enterprise

Simplify network services management and protect revenue streams with a platform using intelligent network protocols, so you can deliver services that attract and retain customers.

Built on HPE Integrity NonStop servers, including the latest-generation HPE Integrity NonStop BladeSystem, the HPE Intelligent Network Server brings the same levels of reliability, scalability, and data integrity to core network services as those powering the world's financial institutions and stock exchanges.

Know our commitment

At Hewlett Packard Enterprise, global citizenship is our commitment to hold ourselves to high standards of integrity, contribution, and accountability in balancing our business goals with our impact on society and the planet. To learn more, visit hp.com/hpinfo/globalcitizenship, and for information about HPE environmental programs, go to hp.com/environment.

Gain a proven, robust intelligent network server (INS) platform that supports legacy wired, wireless, and next-generation IP-based networks, including IP multimedia subsystem (IMS), long-term evolution (LTE), and session initiation protocol (SIP) with HPE Intelligent Network Server.

Review key features and benefits

The HPE Intelligent Network Server meets today's challenges, enabling you to rapidly deploy new telecommunications services, taking full advantage of lucrative market opportunities.

- **Supports multiple application/services on a single platform**—For more than 15 years, service providers have reduced their operational costs by consolidating their multiple applications onto a single HPE Intelligent Network Server platform.
- **Provides a single consistent OAM&P interface for all consolidated services**—The OAM&P infrastructure, required to manage services, is simplified dramatically because all services share a common interface for statistics, events, alarms, and performance information. This helps reduce costs and improve support personnel's understanding and response to issues that might impact service availability.
- **Supports connectivity to multiple networks using independent signaling protocols**—The INS platform supports multiple point codes on a single node and concurrent use of SS7, SIP, and Diameter stacks. Applications may be isolated to support only specific networks or cross all available networks to offer services to each.
- **Protects services from interruption/complete failure during unusual circumstances**—The INS overload management subsystem was designed to keep network traffic bursts from overwhelming the system or its applications. Services remain available regardless of workload.
- **Extends NonStop systems reliability to telecom networks**—HPE NonStop platforms provide the highest fault-tolerance offered today. And, when deployed as geographically distributed, active-active pairs, the risk of downtime is virtually none.
- **Scales linearly and massively as additional services and/or traffic are added to the platform**—The HPE NonStop platform, running INS, is designed to provide the full benefit you expect when adding hardware resources, whether adding new services to the platform or experiencing a growth in traffic with the successful uptake of existing services.
- **Offers two interfaces for developing new services**—You can extend and customize your offerings by taking advantage of a graphical Telecom Service Creation Environment and/or a C-based API for utmost performance.

Protect your revenue streams

The HPE Intelligent Network Server is hosted on HPE Integrity NonStop servers, renowned for their unsurpassed reliability. These servers have virtually no downtime and provide the uptime reliability on which global telecommunications providers and their customers depend. It's no wonder that the world's largest telecommunications companies deliver their off-switch services on Hewlett Packard Enterprise (HPE) platforms.

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

Interfaces include channelized and unchannelized T1 or E1 SS7 links, SS7 over ATM on a T1 or E1 carrier high-speed link, SS7 over IP/M3UA (SIGTRAN), SIP, and Diameter. The server also operates with a distinctive single-system image. This process enables use of a messaging environment for traffic processing and creates a true fault-tolerant structure, unlike simple high-availability platforms.

Review other services

- **HPE Solution Lifecycle Services** for the communications and media industry help you realize the full value of your solutions, from planning and assessment through to testing, deployment, operation, and nearly continuous improvement.
- **HPE Solution Consulting Services** help define business transformation and translate strategies into actionable solutions.
- **HPE Solution Implementation Services** offer a low-risk project lifecycle across design, development, customization, and network and system integration.
- **HPE Solutions Management Services** increase the operational efficiency of your existing solutions, including reactive, proactive, operational, and enhancement services.
- **HPE Services** offer a variety of sourcing options designed to improve business agility while reducing your operating expenses; options include IT and infrastructure outsourcing, application management, and business process outsourcing.

Grow with your business

Levering the compact footprint and superb performance of HPE Integrity NonStop BladeSystem, INS can range in capacity from 2 to 16 processors in a single-system environment, requiring no more than two cabinets. This scalability enables you to seamlessly support ever-increasing subscriber bases and use with nearly continuous availability and minimal upgrade effort. One carrier uses it to support more than five billion transactions per month with four systems running multiple applications.

Rapidly deploy and develop

Developing scalable applications spanning multistandard, multigeneration networks is not a trivial task. INS 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 you complete flexibility.

The native service development environment offering a C-based API provides:

- Increased performance and application control over all signaling layer levels
- A robust set of libraries providing SIP and Diameter interfaces into IP networks
- Additional capabilities for building TCAP and ISUP messaging services

The Telephony Service Creation Environment (TSCE) provides:

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

Manage your data effectively

The HPE Intelligent Network Server includes a fast and extremely scalable memory-based database environment (MBE) that offers enhanced performance and fault tolerance, as efficient data management is an essential component of a service platform. The MBE keeps the entire database in memory for increased performance, stores all data on disk if needed, and enables data to be replicated on remote servers to provide geographic redundancy.

Get seamless evolution

HPE Intelligent Network Server systems are fully compatible with wired, wireless, and hybrid applications provided by Hewlett Packard Enterprise and its business partners. This compatibility enables you to further leverage existing technology investments into the next generation of networks.

Review our applications

This is a partial list of applications available from HPE:

- HPE Home Location Register (GSM/ANSI/GPRS/UMTS)
- HPE Home Subscriber Server
- HPE Profile Manager
- HPE Position Determination Entity

Adding world-class HPE Home Location Register or its next-generation successor HPE Home Subscriber Server on the platform reduces cost and risk for ongoing operations when moving from legacy ANSI and GSM to next-generation IMS and LTE networks. Co-locating with HPE Profile Manager enables several additional unified profile solutions that reduce costs and risks further and gives new service revenue streams access to the consolidated view of all data. The subscriber experiences improve service quality leading to customer satisfaction. The HPE Unified Profile solutions lead the industry in providing the standards-compliant interfaces that you need to manage subscriber and service data in a heterogeneous network.

Beyond significant processing capability improvements and footprint reduction, HPE Integrity NonStop BladeSystem offers an extremely powerful I/O infrastructure that provides concurrent support of M3UA (SIGTRAN), SIP, and Diameter protocols with a single interface. INS uses the capability fully by offering new M3UA (SIGTRAN) links with well over 10 times the performance of the previous offering. For many applications, this means that a single SS7 link can carry all of the messages that processors in a NonStop server can handle. Improvements in the configuration capabilities, available with the new links, provide robust options for interconnection to support varying equipment capabilities and network topologies.

Review partner products

Hewlett Packard Enterprise and its partners fulfill your business objectives with attractive, ready-to-deploy applications:

- **Real-time billing solution**—This is for prepaid and post-paid services.
- **Invigorate Premium Real-Time Rating and Management**—This is a convergent rating offering for advanced voice/data services that empowers wired and wireless operators.
- **Virtual Mobile Exchange Solutions**—This enables groups of mobile subscribers to constitute a virtual PBX, which provides a number of capabilities, including private plans and enhanced call control functions. Included in this solution group is a global virtual private network with numerous VPN capabilities, multiline, and multi-SIM.
- **Intelligent Number Translator from ITS**—This is a feature-rich number translation solution designed to reduce costs associated with network-based number translations.
- **Enhanced Caller Name from ITS**—This is a suite of solutions that includes Wireless Caller Name, Virtual Caller ID, and Notify When Present.
- **Flexible Online Charging from ITS**—This solution suite enables operators to implement flexible charging plans and attractive incentive programs for individual and corporate clients. Solutions are available to manage voice and data usage.
- **Enhanced Call Management from ITS**—This provides parental or corporate control over mobile phone use.
- **Intelligent Network Mediation from ITS**—This enables the integration, implementation, and seamless coexistence of many INS services.



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