Solaris™ 10 for Telecommunications

Carriers and service providers are accelerating the deployment of differentiated, high-value, and secure next-generation services across a converged network. It's a big move, but it brings down the cost of operations, reduces complexity, protects your IT infrastructure, and leaves plenty of room to grow. To help you deliver packet-based and wireless infrastructure solutions as quickly and securely as possible, the Solaris™ 10 Operating System (OS) has been designed with the most advanced, real-time, high-availability, and high-security features available in any OS today.

Highlights

Solaris 10 is the best choice for deploying next-generation, carrier-grade applications

- Solaris Containers dynamically control application and resource priorities
- Predictive Self Healing immediately detects failed services
- Platform choice includes SPARC, AMD Opteron, Intel Xeon, and support for NEBS level 3 and ATCA platforms
- Networking offers an ideal platform for VoIP and other telephony applications
- Optimized network stack delivers fastest possible transfer rates
- IPv6 supports a virtually unlimited number of devices
- DTrace analyzes and optimizes the entire system to maximize performance
- Process Rights Management limits security risk to services

Why Solaris™ 10?

The Solaris 10 OS offers a number of built-in features that make it the perfect platform for developing and deploying next-generation, carrier-grade services. These include:

Solaris Containers

With Solaris 10, you can safely host — on a single system — multiple applications or services that are completely isolated from each other. This allows you to define and meet telco-stringent service levels by dynamically controlling application and resource priorities.

Predictive Self Healing

Solaris 10 can detect failing system components — including CPUs, memory, and I/O — and take them off line without requiring your services to go off line as well. In addition, Predictive Self Healing immediately detects failed services and can restart them automatically with no user intervention, helping you to meet or exceed the industry benchmark of "five nines."

Platform choice

Deploy your services on a broad range of platforms including SPARC®, AMD Opteron, and Intel Xeon. This also includes support for certified Network Equipment Building Specification (NEBS) level 3 hardware and Advanced Telecom Computing Architecture (ATCA) platforms.

Networking

In-kernel support for Stream Control Transmission Protocol (SCTP) and bundled Session Initiation Protocol (SIP) server elements make Solaris 10 an ideal development and deployment platform for Voice over Internet Protocol (VoIP) and other telephony applications.

Optimized Network Stack

The Solaris 10 TCP/IP stack has been optimized to provide the fastest possible transfer rates across your network. It also scales linearly as processing power is added. With IP-based services becoming dominant in the telecom market, higher performance improves customer satisfaction and enables next- generation services on a carrier-grade scale.

IPv6 Support

This fundamental technology enables service providers to create next-generation services that could support a virtually unlimited number of devices likely to populate global networks.

Dynamic Tracing (DTrace)

Your entire system — the hardware, OS, services, and associated application stack — can be safely analyzed and optimized in real time on production systems to help maximize performance for your service.

Process Rights Management

Solaris 10 can be configured to limit the security risk to your services in the event of a security compromise. This greatly reduces the chances of key network applications, such as VoIP and unified messaging, being the target of hacking attempts.

What customers are saying

Continuous Computing

Continuous Computing is a global provider of high-availability platform solutions that enable telecom equipment manufacturers to rapidly deploy converged communication.

States Simon Waters, Vice President of Business Development for the company's Platforms business unit, "Continuous Computing has been a long-time Solaris partner. Solaris 10 — with support for x86 architecture — will enhance Continuous Computing's approach to ATCA platform development due to its emphasis on carrier-grade Operations, Administration, Maintenance, & Provisioning (OAM&P) through advanced features such as Solaris containers, predictive self healing, and process rights management."

Veraz Networks

"Sun is a leader in the carrier-grade telecommunication infrastructure equipment due to its outstanding reputation for reliability," says R. Paul Singh, Vice President of Business Development for Veraz Networks. "We are excited about the new and unique features in Solaris 10, and look forward to validating them and making these available to our customers."

What partners are saying

Adax, Inc.

Specializing in signaling infrastructure, Adax offers a complete set of solutions for today's evolving telecommunication networks.

"Being a Sun partner has been critical to ADAX's success in the telecommunication space," states Barry Zuckerman, President of ADAX. "Sun's hardware platforms and the robustness and reliability of Solaris has provided a carrier-grade solution for ADAX customers. ADAX is committed to Solaris 10 and to assuring ADAX products are fully supported on Solaris 10."

Pronto Networks, Inc.

"Solaris 10 provides the most robust and scalable service delivery software platform to Pronto's large-scale carrier customers as they deploy broadband wireless access networks using the Sun iForce℠ Wireless Fidelity (WiFi) Operation Support System (OSS) platform," explains Raj Sundar, Vice President of Engineering for Pronto Networks.

Learn More

Get the inside story on the trends and technologies shaping the future of computing by signing up for the Sun Inner Circle program. You'll receive a monthly newsletter packed with information, plus access to a wealth of resources. Register today at sun.com/joinic.

Kabira Technologies, Inc.

"Our customers in telecommunication and financial services require unique speed, scalability, transactionality, and business model flexibility to run next-generation and real-time services. With its new Predictive Self Healing and self-managing functionality, Sun's Solaris 10 OS, in combination with the zero-latency, 64-bit Kabira Infrastructure System, delivers unprecedented application performance and scalability to highly demanding network environments, paving the way for never-seen-before, real-time computing," comments David Marshall, Vice President of Marketing and Corporate Development for Kabira Technologies.

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