

## FOR IMMEDIATE RELEASE

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## **MontaVista® Linux® Carrier Grade Edition New 5.0 Version Dramatically Advances Reliability and Security of Voice and Data Telecommunications**

*Fifth-generation of carrier grade operating system delivers high availability, field serviceability, and NSA-level security to network equipment providers and telecommunications carriers*

**SANTA CLARA, Calif. — Nov. 14, 2007** – MontaVista Software, Inc., the leading provider of Linux® for intelligent devices and communications infrastructure, today announced its new 5.0 release of MontaVista Linux Carrier Grade Edition (CGE), the carrier grade Linux operating system preferred by 7 of the top 8 network equipment providers (NEPs). New MontaVista Linux CGE 5.0 provides telecom carriers with new scalability features to handle unexpected jumps in protocol traffic, new functions to increase reliability, new field-serviceability features, and new NSA-level security protection.

“Carrier grade” is a term for software and hardware products that support public telecommunications and data communications networks. Carrier grade products require extremely high degrees of reliability, scalability, and performance to provide an uninterrupted flow of the enormous volume of high-bandwidth data and voice needed for today’s multimedia communications. Leading network equipment providers such as Alcatel-Lucent, Iskratel, Motorola, NEC, and others have made MontaVista Linux Carrier Grade Edition the most widely-deployed Linux in the carrier grade market.

CGE 5.0 includes features only available from MontaVista, especially new field-serviceability features that give field engineers the ability to fix and upgrade live systems while they are running with little or zero downtime. Unlike unproductized open source code, MontaVista Linux CGE is a field-proven production-quality operating system, has been integrated, tested, and debugged by MontaVista’s testing facilities, and is supported by MontaVista’s experienced support organization.

The heart of MontaVista Linux Carrier Grade Edition 5.0 is an embedded Linux operating system designed for telecom and network equipment, including ATCA- and MicroTCA-based platforms, such as SGSNs, GGSNs, and softswitches. Because CGE 5.0 supports Linux standards, designers can add functionality by including off-the-shelf Linux utilities without worrying about function loss due to incompatibility. New CGE 5.0 also includes a rich development environment that enables engineers to more quickly design new equipment and applications. MontaVista Linux CGE provides reliability, scalability, and real-time performance proven in the field by major voice and data carriers such as NTT DoCoMo.

“These days, if a data communications network fails or suffers a security lapse, it interrupts businesses and people’s lives,” said Dan Cauchy, director of marketing for carrier and mobile products at MontaVista Software. “The carriers and NEPs who run their businesses on MontaVista Linux have worked closely with us to make certain that MontaVista Linux CGE 5.0 offers the highest levels of availability, field serviceability, and security of any carrier grade OS.”

“At Iskratel, we develop complete solutions for fixed and mobile telephony and network management,” said Sani Rus, the system software development manager of Iskratel, Ltd., one of Europe’s leading suppliers of advanced telecommunications solutions. “MontaVista’s Linux



- **Microstate accounting:** For the first time in a commercial Linux product, engineers can accurately measure process and thread utilization on a CPU. CGE 5.0 performs high-resolution process accounting, so applications can be monitored to anticipate and prevent CPU overload situations. This enables engineers to design automated load balancing and graceful protocol degradation using reliable and accurate CPU load numbers. Engineers can accurately monitor and precisely predict CPU loads, increasing the accuracy of worst-case planning, preventing downtime, and reducing the purchase of backup equipment for traffic surges. Older systems report CPU and thread activities based on statistical sampling estimates, which can be very inaccurate (especially under telco-type loads), instead of the actual measurement now enabled by microstate accounting. Microstate accounting in CGE 5.0 will improve the scalability, reliability, and cost of carrier networks.
- **NSA-level security for carriers:** MontaVista Linux Carrier Grade Edition 5.0 is the first carrier grade operating system to include Security-Enhanced Linux (SELinux), developed by the National Security Agency (NSA). MontaVista SELinux protects the integrity of and controls access to files, network sockets, and all system objects by preventing an employee or external intruder from intentionally or accidentally taking control of the system. This is the first availability of any form of SELinux integrated into the kernel of a carrier grade operating system. CGE 5.0 also provides security governance tools, including the SLIDE integrated security policy development and deployment environment. Only MontaVista provides this degree of protection.
- **Integrated development environment:** Carrier Grade Edition 5.0 includes new runtime components that integrate with MontaVista DevRocket, an Eclipse-based IDE with development tools that enhance productivity for both kernel-level and application-level engineers. Integrated memory leak detection, performance profiling, memory usage analysis, and system tracing combine to accelerate system development and maintenance, and increase system availability.
- **Multicore and SMP support:** Carrier Grade Edition 5.0 supports both single-core and multicore processors, and supports equipment built with multiple processing chips as well as synchronous and asynchronous multiprocessing on integrated chips.
- **Carrier standards compliance:** MontaVista Linux CGE 5.0 has been designed to comply with the new Carrier Grade Linux Specification 4.0 from the Linux Foundation. CGE 5.0 also will comply with the SCOPE Alliance Linux Profile, and runs on hardware designed to support the PICMG Advanced Telecommunications Computing Architecture (ATCA) and MicroTCA specifications.
- **Lower costs:** Built-in functionality and integrated connectivity reduce the amount of custom development required. Linux compatibility enables the use of low-cost off-the-shelf Linux applications and utilities. The ability to get fast performance from low-end processors can reduce hardware costs. And MontaVista Linux Carrier Grade Edition 5.0 is royalty-free.
- **Faster time-to-market:** MontaVista Linux CGE 5.0 brings products to market more quickly by leveraging several factors at once. Industry-standard Linux avoids the time lag of learning the quirks of proprietary RTOS systems. Less custom engineering means shorter development cycles. Device-ready MontaVista products eliminate the time wasted on hunting, fixing, and integrating pieces of source code. Integrated development tools accelerate the embedded development process. Semiconductor manufacturers and the Linux community release drivers for Linux first, before drivers for any RTOS are released, so embedded Linux developers can be first to market with new drivers.
- **Enriched by MontaVista partner ecosystem:** Oracle, MySQL, Enea, VirtualLogix, and more than 70 additional MontaVista partners provide middleware, applications, and tools

ready to use in carrier grade network equipment with MontaVista Linux Carrier Grade Edition.

MontaVista Linux Carrier Grade Edition 5.0 will be available worldwide on December 17, 2007. Architectures supported will include Intel x86/x86\_64 and PowerPC, with MIPS to follow in the first quarter of 2008.

### **About MontaVista Software**

MontaVista Software, Inc. is the leading provider of Linux for intelligent devices and telecommunications infrastructure. MontaVista delivers commercial-quality Linux operating systems, time-saving development tools, expert support, and design and migration services. MontaVista has more than 400 partners, and thousands of companies use MontaVista embedded Linux to add functionality, increase reliability, reduce costs, and accelerate product development. MontaVista has offices in 15 countries. For more information, please visit [www.mvista.com](http://www.mvista.com)

### **About Iskratel**

The company's basic activity is the development of complete solutions for fixed and mobile telephony, convergence networks, next-generation networks, and network management required for the communication needs of the future information society. Apart from collaboration with the partners, the company's business philosophy also includes support services: network design, training and after-sales support. For more information about Iskratel, please visit [www.iskratel.si](http://www.iskratel.si)

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