

SGIconsole™

A Multiserver Management System

Features

- Single system administration console
- Remote management capabilities
- Ease of administration
- System controller access
- Easy-to-use graphical and text user interface
- Reduced ownership costs
- User access control

An Intelligent Console Server with Remote Management Capabilities

In today's complex computing environment, it is crucial to be able to effectively monitor your heterogeneous server environment. This can be a daunting challenge, as every server has its own console for system management and message logging. To make the task more complex, many of your servers are spread throughout various sites and across the globe.

SGIconsole, a multiserver management system, solves these problems by consolidating and remotely managing the numerous consoles in your computing environment. SGIconsole is a powerful, easy-to-use central control console that manages and monitors multiple servers whether those servers are located at one site or around the world. Using SGIconsole, you can significantly reduce your system administration cost and floor space, thereby reducing the total cost of ownership of your computing environment, as the need for multiple dumb terminals is now eliminated.

Ease of Administration

SGIconsole provides a convenient and intelligent method to monitor and manage multiple SGI® servers running the SGI® IRIX® operating system. Multiple users can access and share consoles simultaneously. If a system's console is in use by another user, an administrator can view or take over that server's console. The SGIconsole Manager graphical user interface [GUI] logs all commands that it runs, providing a record of GUI activities for administrators to use for later reference. In addition, SGIconsole provides console-only support [get/steal/spy system console] for any server or workstation that does not have an SGI LI, L2, MSC, or MMSC system controller.

With SGIconsole, monitoring multiple servers is easy. An Ethernet hub and/or serial multiplexer, EL-16, provides the expanded connectivity needed to monitor multiple servers. A single EL-16 multiplexer connects up to 16 servers, and capacity can be increased with additional network-attached multiplexers. The IRIX operating system sees the serial ports as normal TTY ports, thereby eliminating complex network configurations or confusing protocols. This can save hours of setup time compared with using pseudoports on terminal servers. Remote management is possible since the EL-16 can be located anywhere on a network accessible to SGIconsole. As a result, system administrators can have remote access to SGIconsole via a modem or network access to the host workstation.

Easy Access to the System Controller

SGIconsole provides more than just console management. An administrator can open a window to any attached system controller and perform system controller functions from SGIconsole. Common system controller functions have been built into the SGIconsole user interface and can be accessed through an easy-to-use graphical interface. Some important built-in functions include:

- Generating an interrupt to create a diagnostic memory dump
- Resetting the system hardware



- Power cycling the system
- Logging system console and system controller console message
- User access control for server nodes and console management operations
- Batch additions of SGI console users

The SGIconsole platform has an easy-to-use GUI that the system administrator can use to manage and monitor multiple servers. The SGIconsole GUI allows the operator to click a mouse button to perform common tasks and has a scrollable history that allows the user to log console activities for future reference. The GUI also contains a Console Manager Guide to facilitate the

addition of nodes, groups, and console users upon initial setup.

SGIconsole also comes equipped with Performance Co-Pilot™ software that adds system-level monitoring support of:

- System hardware
- Operating system software, including the kernel
- Layered services (as provided by SGI, ISVs, and local infrastructure applications)
- End-user applications (in particular those with mission-critical objectives)
- The network
- Distributed solution architectures that involve multiple hosts (client server, federated servers, and more)

SGIconsole Technical Specifications

Software Support <ul style="list-style-type: none"> • SGIconsole • Console Manager • Performance Co-Pilot • Plug-ins for MSC, MMSC, LI, and L2 system controller support • EL-16 driver for Linux® • Red Hat® Linux 	Environmental and Regulatory Environmental <ul style="list-style-type: none"> • Nonoperating -40°C to +70°C • Operating +10°C to +35°C • Electrical 100 V–240 V • Frequency 50–60 Hz Regulatory Meets or exceeds the following requirements: <ul style="list-style-type: none"> • U.S./Canada UL 1950, 3rd Edition/CSA 22.2, No.950M93, 3rd Edition • Europe/Low Voltage Directive, 73/23/EEC TUV/GS, CE Mark to EN60950 2nd Edition • International CB certification and Report to IEC 60950, 3rd Edition
Processor Support <ul style="list-style-type: none"> • Microprocessor Intel® Pentium® III • I CPU • Clock speed 800 MHz • Primary cache 32KB • Secondary cache 256KB • System bus speed 133 MHz 	Regulatory Meets or exceeds the following requirements: <ul style="list-style-type: none"> • U.S./Canada UL 1950, 3rd Edition/CSA 22.2, No.950M93, 3rd Edition • Europe/Low Voltage Directive, 73/23/EEC TUV/GS, CE Mark to EN60950 2nd Edition • International CB certification and Report to IEC 60950, 3rd Edition Electromagnetic compatibility (EMC) <ul style="list-style-type: none"> • U.S. FCC 47 CFR Parts 2 and 15, Class B • Canada IC ICES-003 Class B limit • Europe EMC Directive, 89/336/EEC EN55022, Class B limit, EN55024, EN61000-3-2, and EN61000-3-3 • Japan VCCI Class B • Australia and New Zealand/AS/NZS 3548, Class B limit • Taiwan BSMI, Class A [CISPR 22] • International IEC CISPR-22, Class B limit
System Memory <ul style="list-style-type: none"> • Memory 128MB • Memory bandwidth 1.05GB/sec 	
System Features <ul style="list-style-type: none"> • Hard drives 1 1" enhanced 20GB IDE drive • CD-ROM drive IDE 24X slim line 5.25" drive in combo bay, preinstalled • Floppy drive 3.5", 1.44MB floppy disk drive in combo bay, preinstalled • Keyboard/mouse 2 PS/2 connectors • Serial ports 2 asynchronous, RS232C, 9-pin • USB ports 2 front, 2 back 	Serial Multiplexer: EL-16 <ul style="list-style-type: none"> • Maximum number of EL-16 multiplexers supported 4 • Serial MUX baud rate Up to 115K baud • Serial connection ports per EL-16 16 • Maximum physical connections per SGIconsole using EL-16s 64* <small>* Note: Beyond 16 physical connections, one Ethernet hub is required to cascade the additional EL-16's.</small>
Dimensions and Weights <ul style="list-style-type: none"> • Rack-mount 19" W x 21" D x 1.7" H • Weight 32 lb 	Support and Warranty <ul style="list-style-type: none"> • SGIconsole comes with a one-year hardware warranty with on-site next-day response and 90 days' software advisory telephone support for SGIconsole and Red Hat Linux • SGI offers a complete complement of hardware and software service upgrades that can be tailored to fit your needs
Ethernet Hub <ul style="list-style-type: none"> • Maximum number of Ethernet hubs supported 2 • 8 10Base-T ports per hub • Maximum ports 7 for the first hub, 6 for the second (13 per SGIconsole) 	Systems Managed <ul style="list-style-type: none"> • SGI® 3000 family, SGI® Origin® 300, SGI® Origin® 2000 series, Silicon Graphics® Onyx2®, SGI® Origin® 200 • Console-only support for servers and workstations without SGI system controllers Maximum Configuration Support <ul style="list-style-type: none"> • SGIconsole supports up to 64 systems, system partitions, or combinations of systems and system partitions • There is a maximum of 13 physical connections to Ethernet-connected systems [SGI 3000 family with L2 controllers and SGI Origin 300 with L2 controllers] • There is a maximum of 64 physical connections to EL-16-connected systems [SGI Origin 200, SGI 2000 series, Silicon Graphics Onyx2, SGI Origin 300 without L2 controllers, and SGI® Origin® 3200 without L2 controllers]



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