

	O2™	ORIGIN200™	ORIGIN2000™	
Streams from Server*	20	100	250	450
Number of Processors	1 (R5000™ or R10000™)	2 (R10000, 195MHz)	4 (R10000, 195MHz)	6 (R10000, 195MHz)
Memory	128MB	256MB	512MB	768MB
Network Interfaces	100Base-T, FDDI, ATM	100Base-T, FDDI, ATM	100Base-T, FDDI, ATM	
Storage-Video Data	18GB	55GB	110GB	260GB
Content	20 hours	60 hours	120 hours	300 hours

\*Streams are appropriate for MPEG-1 at 1.5Mb per second.

**Scalability**  
The only solution in the industry to support streaming of stored or live assets to thousands of users over low- or high-bandwidth connections—from 28.8Kb per second to 8Mb per second.

**Web Integration**  
Browser plug-in and helper applications for video playback. Access video content via URLs and Web-based interfaces to all media serving, monitoring, administration, and control tools.

**Operations Management**  
Monitor system resource usage, networks, and client video playback. Configure filesystems and network interfaces. Online troubleshooting tools and error logging for precise server monitoring over the Web.

**Reliability**  
The combination of IRIS FailSafe for WebFORCE MediaBase, integrated RAID support, automatic software failure recovery, and GRIO ensures maximum uptime of the server, guarantees delivery of streams, and provides predictable performance of all active streams.

**Encoding and Decoding**  
Tight integration with industry-leading encoding solutions for live capture and broadcast. Ability to control bit rates, streaming formats, and start and end time.

**Multiple Network Support**  
Streaming over multiple network technologies, including IP (over 10Base-T, 100Base-T, FDDI, and ATM) and Native ATM. Advanced networking management, including RSVP, LAN Emulation, network interface load balancing, and streaming over cable modems.

**Content Management**  
Integrated content management, including complex search capabilities. Advanced storage, bus, and disk I/O management allows simultaneous load and playback of content with optimal playback performance.

**Format Flexibility**  
A broad range of video formats are supported, including H.263, MPEG-1, MPEG-2, RealAudio, RealVideo, and other proprietary media streaming engines. Playback on multiple client platforms including Windows 95, Windows NT, Macintosh, and UNIX.

**Webcasting**  
Multicasting of stored or live assets reach the widest possible audience utilizing existing bandwidth.

# WebFORCE® MediaBase

## Intelligent Media Streaming



## MERGING STREAMING MEDIA AND THE WEB

Silicon Graphics® WebFORCE MediaBase software integrates everything you need to develop and deliver the ultimate in real-time, interactive Web media streaming applications. This groundbreaking server software lets you enhance communications with immersive, high-impact video and audio.

WebFORCE MediaBase helps you use streaming digital video and audio over the Internet or intranet to entice viewers and hold their attention for better communications, marketing, education, or entertainment.



# Redefining Media Delivery



### RELIABLE, GUARANTEED DELIVERY

Integrated with the Silicon Graphics IRIS FailSafe™ solution, WebFORCE MediaBase maximizes resource availability. The combination of IRIS FailSafe for MediaBase, full-function RAID to protect video and textual data, and automatic software failure recovery ensures maximum availability of media assets.

For predictable performance of all active streams, WebFORCE MediaBase takes advantage of the Silicon Graphics Guaranteed Rate I/O (GRIO) feature, a unique capability supported by the advanced 64-bit IRIX™ operating system. The GRIO mechanism, unique in the industry, reserves the adequate bandwidth for each video stream to guarantee glitch-free streaming from the server.

### UNMATCHED SCALABILITY

WebFORCE MediaBase offers a cost-effective solution for managing and delivering scalable, networked video applications. With support for thousands of simultaneous video streams, WebFORCE MediaBase provides a unique ability to grow your video streaming capabilities incrementally. WebFORCE MediaBase supports streams for both on-demand and multicast playback of video from 28.8Kb per second to 8Mb per second over intranets and the public Internet. The flexible and open architecture of WebFORCE MediaBase can manage and stream assets in standard formats—H.263, MPEG-1, and MPEG-2—and can also be integrated with popular proprietary media streaming formats. Adherence to open standards and an extensible system architecture protect your investment while your company grows.

### INTEGRATED CONTENT AND STORAGE MANAGEMENT

WebFORCE MediaBase offers built-in advanced text search capabilities providing easy access to and management of terabytes of video data. Asset Transfer Services (ATS) allow media assets to be distributed among multiple WebFORCE MediaBase servers. Advanced disk and I/O bandwidth management optimizes server throughput, and intelligent content and placement mechanisms improve streaming performance.

### AN OPEN SOLUTION

WebFORCE MediaBase servers can manage and stream video and audio data stored in industry-standard H.263 or MPEG and Progressive Networks' RealAudio and RealVideo formats. The most popular third-party streaming engines, including those from VXtreme, Vosaic, VDONet, the Duck Corporation, Televitess, ZMicrosystems, and Xing, can also be integrated.

WebFORCE MediaBase interfaces with every important network type including 10Base-T, 100Base-T, FDDI, and ATM. Built-in support for LAN Emulation (LANE), cable modems, and automated bandwidth management offers maximum network versatility.

WebFORCE MediaBase software automatically selects the network interface that is best suited to the client—high-bandwidth (up to 8Mb per second) connections for TV-quality video applications or low-bandwidth (from 28.8Kb per second) for less demanding Internet/intranet applications. WebFORCE MediaBase streams to Apple® Macintosh®, Windows® 95 and Windows NT®, and various UNIX® systems. Software and hardware decoding options are available.

### A COMPLETE MEDIA STREAMING SOLUTION

Only Silicon Graphics provides a complete highly scalable, high-availability solution for streaming media applications—an essential component for Internet service providers offering video delivery services. WebFORCE MediaBase grows with your evolving video streaming needs, providing scalable streaming to thousands of simultaneous users over a variety of network topologies. Integrated content management tools allow you to handle vast amounts of video data in a distributed computing environment. Web-based playback, server management, administration, and configuration tools make WebFORCE MediaBase an easy-to-use media streaming solution. Guaranteed, reliable delivery of streams and protection against software and hardware failures ensure maximum availability of media streams.

### SERVING DIVERSE APPLICATIONS

The user-friendly features of WebFORCE MediaBase make it ideal for many applications:

- Computer-based training—video-based training improves student retention, enables interactive self-paced training to the desktop, and guarantees instructor consistency while saving time and travel costs.
- Webcasting—scheduled playback of live or recorded material enables you to efficiently reach the widest possible audience with existing bandwidth using IP multicasting.
- Digital video archiving—catalog terabytes of video data, increase access to and usage of stored video content, and efficiently manage high asset turnover of distributed video libraries. This is an ideal solution for advertising agencies, production houses, and broadcasters who have large pools of video content.
- Networked multimedia kiosks—build high-impact, interactive displays for airport travel information, retail video catalogs, manufacturing process flow, and more.
- Entertainment and information on demand—present the latest movie previews, news, sports highlights, or local programming over the public Internet or via your cable infrastructure.