



Helix™ Mobile Gateway

Cross-Platform, Multi-Format and Carrier-Grade

From the streaming media pioneers at RealNetworks comes the Helix Mobile Gateway. Designed and built to handle the unique demands of the mobile network environment, the Helix Mobile Gateway delivers live and on-demand audio and video to a vast array of consumer handsets, providing mobile operators and content providers with a solid foundation for revenue-producing mobile media services.

Mobile operators want to provide mobile content, and their subscribers want to access content already available on the Internet. Deployed at central and gateway nodes, Helix Mobile Gateway delivers by improving end-user quality and eliminating redundant transmissions.

Helix Mobile Gateway is a streaming media proxy-cache that manages media within the mobile operator network. It enables operators to pull content from the Internet and rebroadcast it with high quality and reduced latency when requested by users. Helix Mobile Gateway minimizes redundant connections for live content to reduce network traffic and improve the end-user experience. Future features of this product may include bit-rate and layout optimization by device, as well as subscriber access features.

Helix Mobile Gateway contains both Helix Mobile Server and Helix Mobile Proxy, the two core components of the Helix Media Delivery System for Mobile. This leading cross-platform, multi-format software suite enables carrier-grade digital media applications and services. It already serves as the streaming media infrastructure for the world's leading mobile operators.

Benefits of Helix Mobile Gateway

- **Reduce In-Bound Bandwidth**
Helix Mobile Gateway eliminates redundant data transmission between the Internet and the servers hosting the content resulting in significant savings in bandwidth to receive in-bound content.
- **Reduce Delivery Latency**
Helix Mobile Gateway reduces distance traveled for subsequent media files which reduces end-user latency for content served out of cache.
- **Provide Security**
Just like any other proxy server, Helix Mobile Gateway products mask the IP address of your internal users thus providing additional security.
- **Improve End-User Playback**
Helix Mobile Gateway aids in caching and splitting content closer to the end-user and hence reducing transmission problems
- **Optimize Media for Mobile Networks**
Helix Mobile Gateway is optimized for delivery of all major file formats to any wireless network, including EV-DO, GPRS, UMTS, EDGE, WCDMA, CDMA2000 and 802.11b-WiFi. With the broadest support for mobile delivery standards, including support for live streaming of 3GPP (H.263 and H.264) content, Helix Mobile Server is the number one choice for the mobile environment.
- **Increase Average Revenue Per User (ARPU)**
With features such as PlayNow™ and TrueLive™, users enjoy a better experience than ever before with IP-based media. Better experience means more usage and more usage means higher ARPU.

- **Improve Manageability**

Helix Mobile Gateway can improve manageability with new features like SNMP v3 support, extended client statistics and client connection cleanup. Real-time remote monitoring, notifications and server configuration updates improve remote manageability and can be fine-tuned for better control.

- **Assure Next Generation Networking Support**

Helix Mobile Gateway supports next generation protocols such as IP v6 for greater reach. This assures interoperability with next generation IP v6 network environments and supports an heterogeneous IPV4/IPV6 environment

- **Standards-Based**

Helix Mobile Gateway complies with 3GPP Release 6, including:

- IETF RFC 2326 compliant implementation of RTSP over TCP
- Supports HTTP delivery of JPEG, GIF 87a, GIF 89a, SMIL 2.0
- IETF RFC 2327 compliant implementation of SDP for RTSP DESCRIBE
- MP4 and 3GP file format support AMR wideband support
- Dynamic packetization

- **Maximum End-to-End Bandwidth Utilization**

Helix Mobile Gateway can automatically adjust data bit-rates based on network congestion to provide a better experience for your customers. The result is increased media service usage and higher value for your mobile customers

- **Extend Your Reach to Include More Platforms, Protocols and Formats**

Helix Mobile Gateway delivers data across any mobile network and supports devices over GSM, CDMA, EDGE, UMTS, WCDMA, 1xEV-DO and beyond, making it is most flexible server available to support your current and future growth plans. With best of standards and best of internet format and protocols support, you can consolidate multiple media infrastructures onto a single platform.

Choose the only digital media server with universal support for live and on-demand delivery of all major file formats, including RealAudio® and RealVideo®, H.264, Windows Media, QuickTime, MP3 and others.

Helix Mobile Gateway supports majority of leading internet protocols, standards, networks and devices; 3GPP, 3GPP2, IPv6, RTSP via HTTP v1.1, SNMP v3; H264, AAC, AAC+, MPEG4; GSM, CDMA, EDGE, IP, Wi-Fi, 1xEV-DO; LINUX, SYMBIAN, Windows CE, SmartPhones, JAVA, Nokia s60.

- **Customize Your Solutions Using a Standards-Based SDK**

Helix Mobile Gateway comes with a robust digital media SDK and powerful middleware built on an extensive object model with over 1000 interfaces and methods. Helix developers can write plug-ins and custom applications using the programming languages and environments most familiar to them.

System Requirements

Helix Server software is available on all of the leading platforms, including: Linux RHEL 4.0, Windows 2003 and Solaris 10 (Native) operating systems.

Contact Real Today

To learn more about Helix Mobile Gateway, please contact a Real sales representative at **1-800-444-8011** or visit www.realnetworks.com/industries/mobile/products/gateway/index.html

