



Helix™ Mobile Server

Cross-Platform, Multi-Format and Carrier-Grade

Helix Mobile Server is the breakthrough digital media server from Real, providing support for each of the major media formats, industry leading performance, as well as advanced content networking capabilities. Helix Mobile Server is the number one choice of mobile carriers not only for its reliability, scalability and manageability but also for its cross-platform and multi-format support. Helix Mobile Server serves as the streaming media infrastructure for the world's leading mobile operators.

Benefits of Helix Mobile Server

- **Optimize Media for Mobile Networks**

Helix Mobile Server 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 the high quality deliver of Helix Mobile Server 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 Server 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.

- **Standards-Based**

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

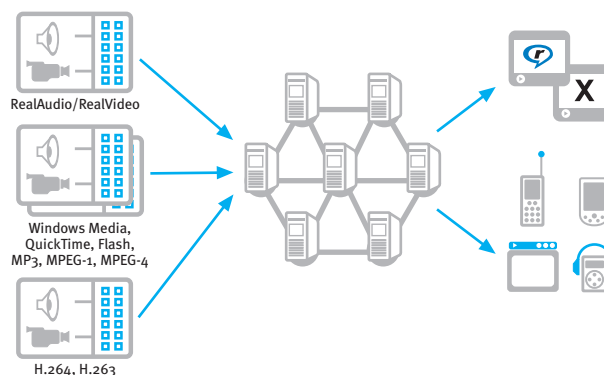
- IETF RFC 2326 compliant implementation of RTSP over TCP
- Supports HTTP delivery of JPEG, GIF 87a, GIF 89a, SMIL 2.0
- IETF RFC 2327 compliant implementation of SDP for RTSP DESCRIBE
- MP4 and 3GP file format support AMR wideband support
- Dynamic Packetization

- **Maximize End-to-End Bandwidth Utilization**

Helix Mobile Server 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 Server delivers data across any mobile network and supports devices over GSM, CDMA, EDGE, UMTS, WCDMA, 1xEV-DO and beyond, making it the most flexible server available to support your growth plans. 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 Server supports the 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.

With Helix Mobile Server, you can consolidate multiple media infrastructures onto a single platform to simplify management for your operations and optimize the media experience for your customers.

- **Assure Next Generation Networking Support**
Helix Mobile Server supports next generation protocols such as IP v6 for greater reach. This assures interoperability with next generation IP v6 network environments and supports a heterogeneous IPV4/IPV6 environment.
- **Customize Your Solutions Using a Standards-Based SDK**
Helix Mobile Server 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.
- **Multi-Platform Support**
Helix Mobile Server software is available on all of the leading platforms, including: Linux RHEL 4.0, Windows 2003 and Solaris 10 (Native) operating systems.

New in Version 12

- **Fast Channel Switching**
Fast Channel Switching allows quick changes to the media input for a continuous stream, eliminating the need to set up a separate RTSP session for each stream. This brings a more “TV-like” viewing experience to users as they “change channels” between different pieces of video content.

Fast Channel Switching works with on-demand clips, live streams, and simulated-live streams broadcast by SLTA. It is also compatible with security features such as username and password authentication.

This switching capability eliminates the need to set up and tear down a user's RTSP session when the user selects a new stream. As a result, a user can "change channels" without experiencing disruption in playback when a new channel begins.
- **Enhanced Rate Control**
The new Helix Mobile Server v12 also includes rate adaptation improvements for on-demand content, which improve overall end-user QoS, particularly with fluctuating networks.

This Enhanced Rate Control feature automatically delivers the highest bit-rate stream that can be supported by the network at any given time. It seamlessly manages signal strength and bearer handover for maximum end-user QoS and QoE.
- **Multi-Core and 64-Bit Scalability**
For ultimate scalability Helix Mobile Server v12 now takes advantage of the latest 64-bit server architecture across Windows, Linux and Solaris operating systems. In this way, Helix continues to provide the most platform choices of any digital media server available.

Helix Server v12 has been optimized for multi-core, 64-bit architectures and has been tested for maximum efficiency on multi-core servers, thus providing superior stability and performance.
- **Native Solaris 10 Support**
Now with native support for the Solaris 10 Operating System, Helix Server v12 takes full advantage of the improved performance and great cost-efficiency of this industry-leading UNIX platform.

Solaris 10 integrates new technologies to deliver high levels of performance, availability and security. Helix Server v12 has been developed natively to run with the highest levels of performance on Solaris 10.





Helix Server v12 running on Solaris 10 is a good choice for customers seeking cross-platform support, simplified administration and high levels of service.

Contact Real Today

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