



Helix Server is the only multi-format, cross-platform streaming server for delivering the highest quality experience to PCs and mobile devices.

Broadcast the most popular media types to PCs and other supported devices from one server infrastructure. You can also deliver 3GPP (MPEG-4 video, H.263 and H.264)* content to a wide variety of multimedia-enabled mobile phones. Helix Server is available for Linux, Windows and Solaris operating systems. Use your platform of choice or leverage your existing heterogeneous operating system environment.

Whether for distance learning, CEO announcements, earnings calls, sermons, campaign speeches or public interest broadcasts, with Helix Server you will be able to reach your audience wherever, whenever is most convenient.

Helix Server is the broadband delivery component of the [Helix Media Delivery Platform](#) – the gold standard for multi-format, cross-platform digital video.

About Helix Server

With three capacity versions available (25 stream, 100 stream and Unlimited), Helix Server is a full-featured streaming media server designed for single installments as well as large distributed deployments.

As digital media becomes more pervasive and strategic at your organization, you will want to take advantage of the advanced features associated with deploying multiple Helix Servers. Helix Server is the right solution for corporations, government organizations, educational institutions and non-profit organizations that want to:

- Reach a large audience without being restrained by the streaming capacity of a single server
- Deliver streaming media to both PCs and wireless devices, including the iPhone*
- Build out a distributed digital media infrastructure
- Deliver streaming media via multicast** or unicast

Latest Feature Advancements

- [iPhone HTTP Streaming](#)
Stream video to the growing iPhone audience. Supports HTTP streaming and HTTP streaming with adaptive bit rate to the iPhone and iPod touch.
- [Flash Progressive Download](#)
Deliver Flash Video (.flv) and Flash animation (.swf) from Helix Mobile Server using HTTP progressive download.



- **Fast Channel Switching**
Allows quick changes to the media input for a continuous stream, eliminating the need to set up a separate session for each stream. This brings a more “TV-like” viewing experience to users as they “change channels” between different pieces of video content.
- **Server-Side Play List (SSPL) Management**
Increase end-user engagement with mobile video content by combining live and on-demand video assets in compelling and interactive ways in a single session. Playlists are dynamically updateable and may be created by content providers, mobile operators or customized by subscribers.
- **Live Rate Adaptation (LRA)**
Improves overall end-user QoS by automatically delivering the highest bit-rate stream supported by the network at any given time. Seamlessly manages network fluctuations, such as signal strength, bearer handover and network congestion.

Key Decision Criteria for Identifying the Right Server

- How big is your audience - small, medium or large?
- What devices do you plan to support today and in the future – PCs, mobile phones, smart phones, iPhones, netbooks, MIDs and other emerging devices?
- Do you plan to build out a distributed network of servers where content is delivered from a central server to end-users via a network of servers?
- What does your network topology look like? How many tiers are there?
- Are you looking to deliver content to an internal audience via multicast?

Why Deploy Multiple Helix Servers?

- **Conserve Bandwidth**
Multi-location organizations typically deploy a distributed network of Helix Servers to minimize the impact of digital media on their network.

When you deploy multiple servers you are able to distribute digital media to the point where it will be consumed. An employee in a different country, for example, can access a 750kbps media file from a local server rather than using scarce resources on the WAN to access it from a central location.

In addition, with the Helix Server, you will be able to take advantage of the bandwidth savings associated with multicasting** your live broadcast. With multicasting you can increase the audience for a live event by reducing the broadcasting bandwidth. This is because Helix Servers send a single live stream to multiple players. Multicasting requires a specially configured network, and is more suited for intranets than Internet delivery.
- **Deliver the Highest Quality Experience**
Improve user experience and broadcast predictability with server fail-over which automatically routes client requests to back-up servers in the event of service failures or unplanned outages.
- **Scale to Reach the Largest Possible Audience at the Lowest Cost**
Improve scalability and reduce bandwidth costs with an integrated server-to-server content networking system specifically designed to provision live and on-demand content reliably across distributed networks.

Helix Server

- **Mission-Critical Reliability**

From encoder to server, from server to server or from server to player, the system can be configured redundantly to provide a fail-over feed in the event of a network or equipment outage.

Product Specifications

Operating System	Processor	Memory	Hard Disk
Linux - RHEL 4.0 and 5.0 (Kernel 2.6)***	Intel P4 2.4 GHz	<ul style="list-style-type: none">• 512 MB per processor• 1-4 GB per processor (recommended)	50 MB (install) + Log + Media space
Windows 2003	Intel P4 2.4 GHz	<ul style="list-style-type: none">• 512 MB per processor• 1-4 GB per processor (recommended)	50 MB (install) + Log + Media space
Solaris 10****	Ultra Sparc III 1.5 GHz	<ul style="list-style-type: none">• 512 MB per processor• 1-4 GB per processor (recommended)	50 MB (install) + Log + Media space

About The Helix Media Delivery Platform

The Helix Platform includes all the tools needed to rapidly build and deploy digital video, from media encoding and asset authentication through to accounting and playback.

- **Carrier-Grade Scalability**

Helix Media Delivery Platform is specifically designed to scale and deliver content reliably across distributed networks.

- **Bandwidth Efficiency**

Maximize bandwidth efficiency and improve quality of service through multi-tier architecture enabling splitting and content caching.

- **End-To-End Quality and Reliability**

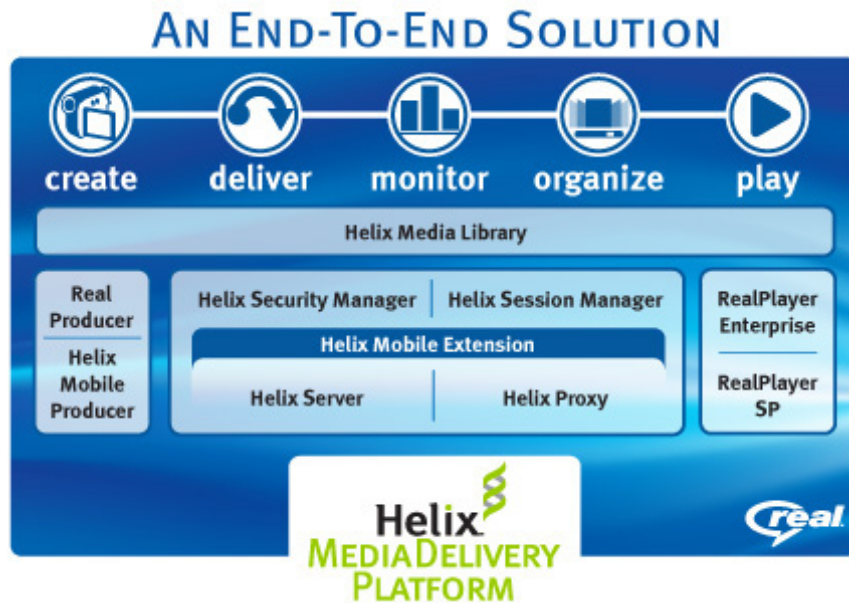
From encoder to server, from server to server or from server to player, the Helix Platform can be configured fully redundantly to provide a proven, fault-tolerant failover delivery service.

- **The Broadest Reach**

The Helix Media Delivery Platform offers proven handset interoperability and is fully 3GPP compliant delivering the broadest reach to any device including, PCs, mobile phones, smartphones, iPhones, netbooks, MID's and other emerging devices.*



Helix Server



Contact Real Today

To learn more about the Helix Media Delivery Platform, please visit www.realnetworks.com/HelixPlatform.aspx

To contact a RealNetworks sales representative or authorized reseller in your area, please visit www.realnetworks.com/contact/index.aspx

* Requires Helix Mobile Extension, which is available to Education, Enterprise and Government customers only.

** Only available with Helix Server Unlimited.

*** Note: Clones of RHEL 5.0 are not officially supported.

**** Solaris on x86 is not supported.