



Helix Proxy Server and Helix Mobile Proxy Server

Reduce Costs, Improve Playbacks

Helix Proxy Server is a software solution for reducing bandwidth costs associated with content entering your network by eliminating redundant requests for streaming media. By caching and splitting content closer to the end-user, Helix Proxy Server reduces transmission problems that degrade the quality of the playback experience. Helix Proxy Server also masks the IP address of your internal users and authenticates every client request at the origin, thereby controlling content and increasing content security.

Key Benefits

- **Reduce Bandwidth Costs**
By eliminating redundant data transmission between the server and proxy, you require less bandwidth to receive the same amount of content. Lower bandwidth usage translates into savings to your bottom line.
- **Manage the Network**
Cap inbound and outbound bandwidth, ensuring that mission-critical applications are not adversely affected by streaming activities.
- **Control Content**
Helix Proxy Server authenticates every client request at the origin, so control of the content always stays at the origin server.
- **Security**
Helix Proxy Server masks the IP address of your internal users.
- **Improve End-User Playback**
By caching and splitting content closer to the end-user, Helix Proxy Server reduces transmission problems that degrade the quality of the playback experience.

How Helix Proxy Server Works

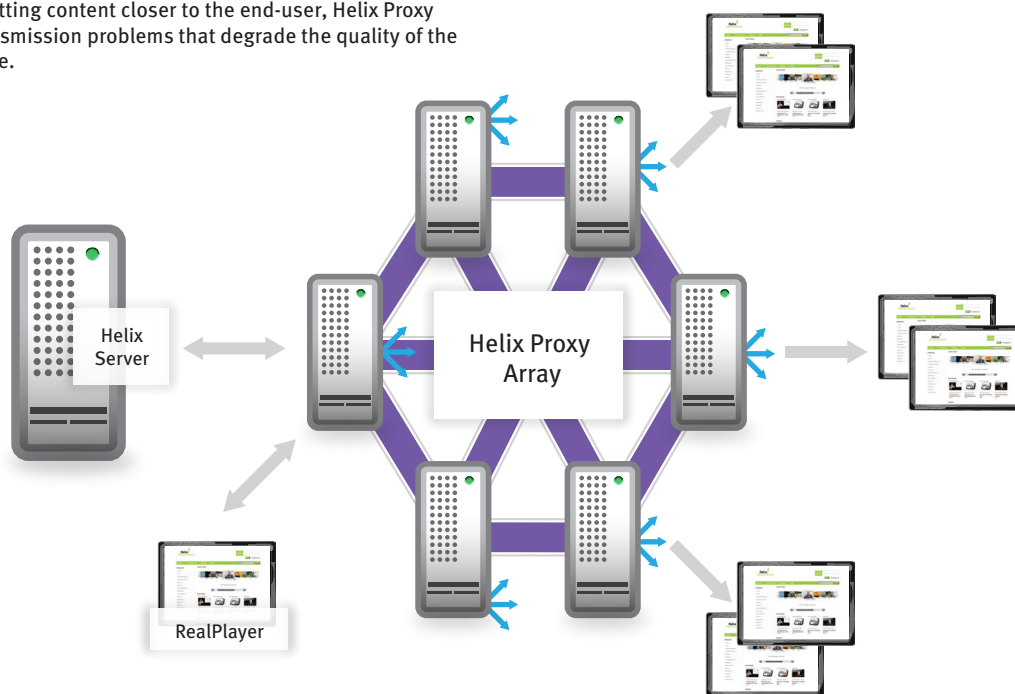
The first step in the Helix Proxy Server process happens when a Player, requests a digital media file hosted on Helix Universal Media Server. This request is directed through the Helix Proxy Server, which forwards the request to the Helix Server where the digital media files are stored.

The Helix Universal Media Server verifies the file's existence, and that the Player is authorized through IP addresses or content authentication to access the content. If the Helix Universal Media Server denies the request, it does not stream the requested file, and neither does the Helix Proxy Server.

Helix Proxy Server has three different ways of sending data to clients and automatically chooses the most efficient method possible, based on the type of content requested and the network configuration.

The Three Methods of Sending Data to Clients

- **Pass Through:** No bandwidth conservation is in effect, but all streaming media (both on demand and live) requests go through Helix Proxy Server.
- **Pull Splitting:** For live requests, Helix Proxy Server “shares” the stream among the clients who request it.
- **Content Caching:** For on demand requests, Helix Proxy Server stores the streaming media data for later viewing by other clients.



Product Specifications

Format	Codecs	Protocol
<ul style="list-style-type: none"> • 3GPP • 3GPP2 • MPEG-4 • Windows Media • QuickTime • Real Media • MP3 • SMIL 	<ul style="list-style-type: none"> • H.263 • H.264 • AAC • AAC Plus (HE-AACv1) • eAAC Plus (HE-AACv2) • AMR-NB • AMR-WB • VC1 	<ul style="list-style-type: none"> • RTSP • RTP • RBS (Helix-to-Helix) • RDT (Helix-to-Helix) • MMS (Windows Media)
Operating Systems	Hardware Requirements	Disk Storage
<ul style="list-style-type: none"> • Microsoft® Windows Server 2008 R2 64 bit • Microsoft Windows Server 2003 SP2 64 bit • Red Hat® Enterprise Linux® Server 5 64 bit/32 bit* • Oracle® Solaris 10 64 bit** 	<ul style="list-style-type: none"> • 3.2GHz Intel® Pentium® 4 processor (dual Intel Xeon® or faster recommended) • SPARC Tx Series or better • 32-bit operating systems: 2GB of RAM (4GB) • 64-bit operating systems: 4GB of RAM (8GB) • 1 GB Ethernet card recommended 	50 MB (install) + Log + Media space

* Clones of RHEL 5.x are not officially supported.

** Solaris on x86 is not supported.

About the Helix Media Delivery Platform

The Helix Media Delivery Platform is an end-to-end streaming media solution for government, education and enterprises that is multi-format, multi-platform, and multi-screen. With Helix Producer, Helix Universal Media Server, Helix Media Library, and Helix Enterprise Player – the core components of the platform – organizations can create, deliver, manage and playback content. Created by RealNetworks, the company that pioneered streaming media in 1995, Helix products provide a high-quality, scalable digital media experience. And with Helix's global customer support team, assistance is just a phone call or email away.

Contact Us

Contact a Helix Sales Representative at 800.444.8011 or helix-sales@realnetworks.com. To learn more about the Helix Media Delivery Platform, visit www.realnetworks.com/helix.