



Designed and built to handle the unique demands of the mobile network environment, Helix Mobile Proxy delivers live and on-demand media to the broadest audience.

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Deployed at central nodes, Helix Mobile Proxy improves end-user quality of service and quality of experience and eliminates redundant transmissions.

Helix Mobile Proxy 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 Proxy minimizes redundant connections to reduce network traffic and improve the end-user experience.

The Helix Mobile Proxy is the proxy-cache component of the [Helix Media Delivery Platform](#) – the gold standard for mobile video among mobile operators, media companies and device manufacturers.

## About Helix Mobile Proxy

The most powerful caching proxy server available for streaming media. Helix Mobile Proxy teams with media servers and players to optimize bandwidth and improve the playback experience.

- **Reduce Bandwidth Costs**  
By eliminating redundant data transmission between the server and the proxy less bandwidth is required to receive the same amount of content. Lower bandwidth usage translates into higher content quality and savings to the bottom line.
- **Improve End-User Playback**  
By caching and splitting content closer to the end-user, Helix Mobile Proxy reduces transmission problems that cause packet loss and degrade the quality of the playback experience.
- **Manage the Network**  
Cap inbound and outbound bandwidth, ensuring that mission-critical applications are not adversely affected by streaming activities.
- **Control Content**  
Helix Mobile Proxy authenticates client requests at the origin, so control of the content always resides at the origin server.
- **Security**  
Helix Mobile Proxy masks the IP address of media players requesting media across the Internet.



# Helix Mobile Proxy

## Media Delivery

Helix Mobile Proxy utilizes three media delivery methods and automatically selects the most efficient method, based upon the type of content requested and the network configuration.

- **Pull-Splitting**  
For live requests, Helix Mobile Proxy splits the stream among the clients who request it. A single live stream is split among client connections reducing network bandwidth and increasing quality of service.
- **Content-Caching**  
For on-demand requests, Helix Mobile Proxy caches the streaming media for later viewing by other clients. The cached content resides closer to client request, reducing network bandwidth and increasing quality of experience.
- **Pass-Through**  
Helix Mobile Proxy passes the stream from originating server. Although pass-through does not conserve bandwidth, Helix Mobile Proxy still acts as a portal for all streaming media traffic, enabling better monitoring and security.

## Universal Media Delivery

Helix Mobile Proxy can proxy the following file formats when served from the Helix Mobile Server. Otherwise it operates in pass-through mode. The Helix Mobile Proxy also proxies Microsoft Windows Media when served from a Windows Media server using the MMS protocol.

Formats	Codecs	Protocols
<ul style="list-style-type: none"><li>• Real Media</li><li>• 3GPP</li><li>• 3GPP2</li><li>• Flash</li><li>• Windows Media</li><li>• QuickTime</li><li>• MPEG-4</li><li>• MP3</li><li>• SMIL</li><li>• And more</li></ul>	<ul style="list-style-type: none"><li>• H.263</li><li>• H.264</li><li>• AAC</li><li>• AAC Plus (HE-AAC)</li><li>• AMR-NB</li><li>• AMR-WB</li><li>• And more</li></ul>	<ul style="list-style-type: none"><li>• RTSP</li><li>• RTP</li><li>• RBS (Helix-to-Helix)</li><li>• RDT (Helix-to-Helix)</li><li>• MMS (Windows Media)</li><li>• HTTP</li><li>• HTTP cloaking</li><li>• HTTP streaming to iPhone</li><li>• HTTP progressive download</li></ul>

## Product Specifications

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

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"><li>• 512 MB per processor</li><li>• 1-4 GB per processor (recommended)</li></ul>	100 MB (install) + Log + Media space
Windows 2003	Intel P4 2.4 GHz	<ul style="list-style-type: none"><li>• 512 MB per processor</li><li>• 1-4 GB per processor (recommended)</li></ul>	100 MB (install) + Log + Media space

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



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Operating System	Processor	Memory	Hard Disk
Solaris 10	Ultra Sparc III 1.5 GHz	<ul style="list-style-type: none"><li>• 512 MB per processor</li><li>• 1-4 GB per processor (recommended)</li></ul>	100 MB (install) + Log + Media space

## About The Helix Media Delivery Platform

The Helix Platform includes all the tools needed to rapidly build and deploy mobile TV services to subscribers, 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.

## AN END-TO-END SOLUTION



## Contact Real Today

To learn more about the Helix Media Delivery Platform, please visit [www.realnetworks.com/HelixPlatform.aspx](http://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](http://www.realnetworks.com/contact/index.aspx)