

Real Streaming / Helix (RealNetworks)

Armen Kasamanyan

Digital Media Workflow

Create => Deliver => Play

Create: create compelling content to drive business benefits

Deliver: unified infrastructure for zero-failure delivery to distributed audiences

Play: productivity-focused media player on every desktop

Core Components Of a Streaming Solution

Content creation

Helix Producer: Next generation digital media production tool for broadcast streaming and download

Codecs

RealVideo: Delivers unparalleled quality from narrowband to HDTV at lowest bandwidth

Delivery Infrastructure

Helix Universal Server: Multi-format, cross platform server/proxy for media delivery

Player

RealOne Player: Combines streaming media with digital downloads and Web browsing

Product Naming

- Content Creation
 - latest = Helix Producer
 - previous = Real Producer 8
- Content Delivery
 - latest = Helix Universal Server
 - previous = Real Server 8
- Content Playback
 - latest = RealOne Player
 - previous = Real Player 8
- Video Codecs
 - latest = Real Video 9
 - previous = Real Video 8

What is Helix Producer?

Helix Producer is a professional-quality tool that creates Real Media audio and video files, so that you can stream them from a Helix Streaming Server or put them on a web server

INPUT

- capture from a live camera, or

- from a file in a wide range of formats,such as

AIF,AIFC,AIFF,DV,MPEG1,MPEG2.SND,MOV,
AU,WAV

OUTPUT

- create Real Video 9 w/ Real Audio 8

Helix Universal Server

- Most advanced digital media delivery software
- Ensures a continuous and superior viewing experience
- Enables enterprises wanting to deliver multiple formats to consolidate their infrastructure on one media delivery platform:
- Two types of Helix Universal Server are available:
 - Helix Universal Enterprise Server:
 - Used behind the firewall on corporate networks
 - Helix Universal Internet Server:
 - Used outside the firewall on the public internet

Multiple Operating Systems

- Helix Producer and Helix Universal Server are available on different operating systems
- Helix Universal Server running on different operating systems are completely interoperable
- Deliver homogeneous media services in a heterogeneous network environment

Supported protocols

- Helix Universal Server streams media to clients over internet using the following communication protocols:
 - Real Time Streaming Protocol (RTSP)
 - Microsoft Media services (MMS)
 - Hyper Text Transfer Protocol (HTTP)

RealVideo 9: Best Quality at Lowest Bandwidth

- Codec = compression/decompression
 - Software application that processes media through complex algorithms, which compress the file for streaming and then decompress it for playback
- RealVideo 9 has set an entirely new threshold for internet video quality
- Experienced with the RealOne Player, it provides a unique media experience with unlimited business and commerce opportunities across the entire spectrum of bit-rates

Helix Community

- Collaborative effort to create and extend the Helix DNA Platform
- Participants include RealNetworks, enterprises, software developers and researchers
 - 10000 registered users since July 2002
 - Commercial and OpenSource participants
- Access to Full Helix DNA Platform Source Code
 - License technology to build multi-format applications for streaming, web collaboration, mobile media delivery, in-home streaming, etc

Helix DNA Platform

- Foundation for innovation by RealNetworks and partners
 - Helix DNA components:
 - Helix DNA Client
 - Helix DNA Producer
 - Helix DNA Server
 - RealAudio and RealVideo codecs

Links

www.realnetworks.com

www.helix.com

THE END