

# **Real Streaming / Helix (RealNetworks)**

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# 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](http://www.realnetworks.com)

[www.helix.com](http://www.helix.com)

**THE END**