

# Netris CDN

Netris Content Delivery Network is a distributed system of servers to improve access to the video services by increasing access bandwidth and redundancy. Balanced and adaptive Netris CDN manages and preserves the quality of video content during its entire delivery and reduces bandwidth costs.

Netris CDN is based on Netris software solutions that are successfully implemented and running by a number of carriers and service providers. The system providing content delivery for OTT and IPTV services use the distributed structure of servers located in the areas with Internet traffic concentration.

## Netris CDN Key Features

- Support of different content sources
- Support of the most popular technologies and protocols
- Built in adaptive streaming system
- Delivery to multiple platforms and devices: STB, PC, Mac, mobile devices (iPad/iPhone as well as powered by Windows Mobile, Android, etc.)
- CA/DRM systems support
- Interactive services support on the streaming platform
- Multi-level hierarchical architecture
- Scalability without limits
- Service delivery both over managed network and Internet
- Statistics and analytical reports

## Netris CDN Components

### Central Node:

#### Netris DMA

Management centre to control key processes for on demand services, such as content distribution, reporting, edge nodes monitoring.

#### Netris iStream Video Server Cluster

Video Server Cluster is the combination of high performance and reliability to provide content ingest, storage and streaming across IP networks.

*Delivery: Multicast, Unicast, Simulated Multicast*

*Protocols: RTMP (as well as RTMPT, RTMPS), WMSP, RTSP, HTTP Live Streaming*

#### HeadEnd

The system is for receiving television signals for processing and distribution over IP network. (Vendors: Ericsson, Motorola, Harmonic, Harris, Teleste)

### CDN Key Benefits

- Additional revenue from the content sale
- Additional revenue from content delivery as a service for content providers
- Cost reducing because of traffic optimization
- Total system for IPTV and OTT services
- High quality of video services delivery

## Transcoding

The system is for video conversion of one encoding to another. It is necessary for different end user devices support. (Vendors: Ericsson, Harmonic, Teleste, RGB Networks, Elecard)

## CAS/DRM

The system is for content protection. (Vendors: Verimatrix, SecureMedia, NDS, Irdeto)

## Edge Node:

### Netris iStream Video Server

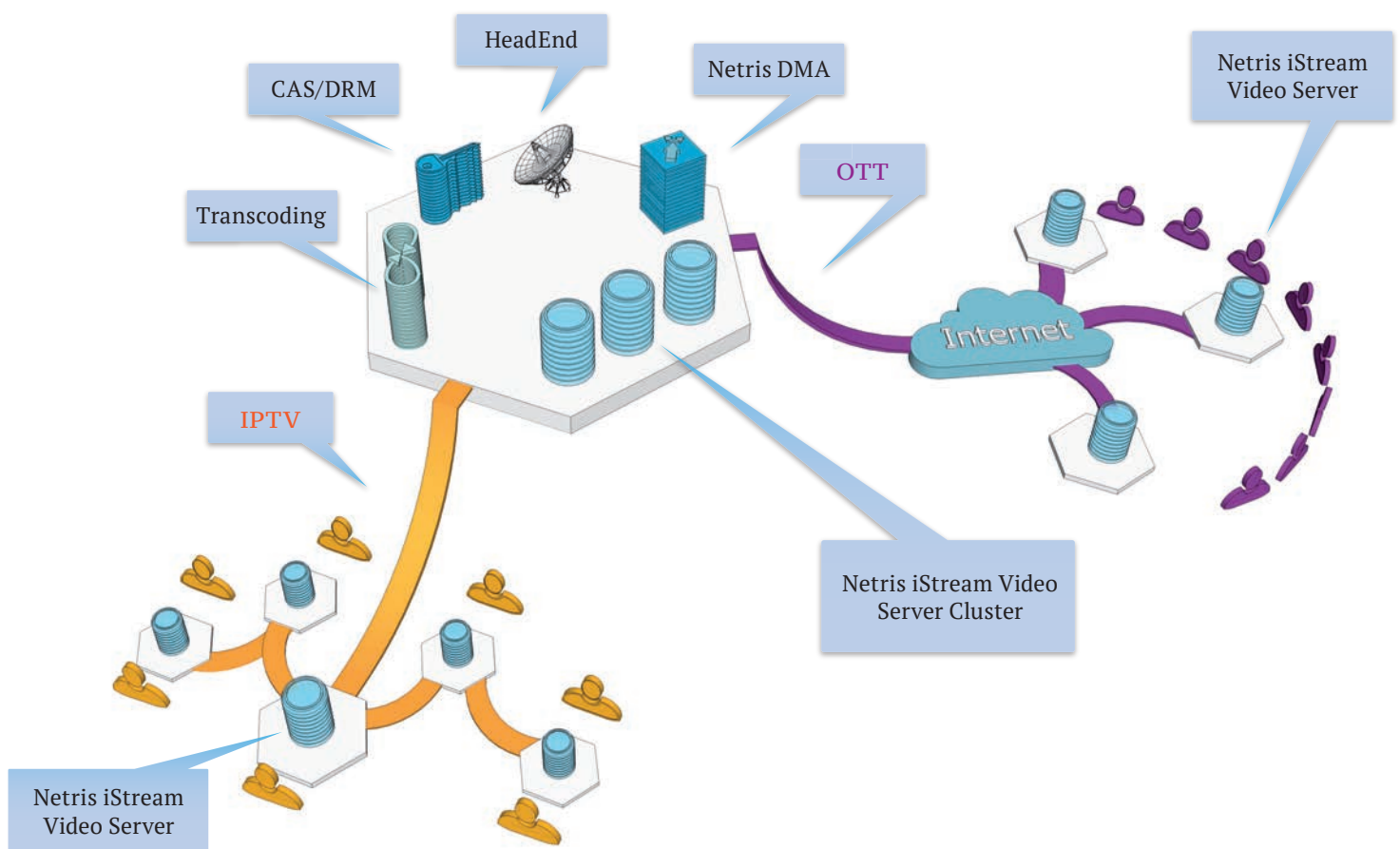
This video server interacts with end user devices. It provides content streaming and interactive services:

- Video on Demand
- Replay TV
- DVR
- Pause Live TV
- DQA

*Transfer: Streaming and Progressive Downloading*

*Supported players and devices: Adobe Flash Player, Apple QuickTime, mobile platforms (Apple iOS, Windows Mobile, Android), TV, STB.*

- ★ *Adaptive Streaming System: provides high quality of experience for Internet video consumption. It works by detecting a user's bandwidth and CPU capacity in real time and adjusting the quality of a video stream accordingly. Netris CDN uses own adaptive technology as well as supports Apple Live HTTP Streaming and 3GPP-Adaptation.*



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