

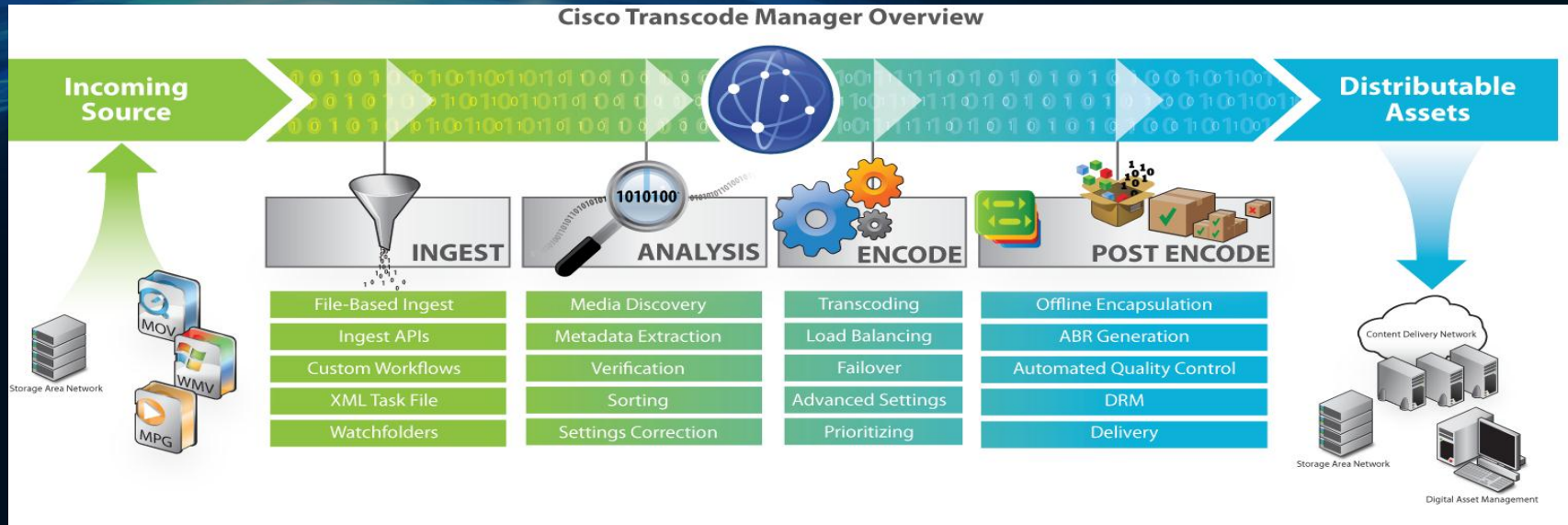


Cisco AnyRes VOD: Overview



Cisco AnyRes VOD: Components

Automate processing of large amounts of VoD content through a transcoding system with minimal human intervention.



Results: Save time, headcount & expense, while reducing errors.

Cisco AnyRes VOD Workflow



Cisco AnyRes VOD Client

API

Server



Analysis

- Determine Source
- Enable auto-routing

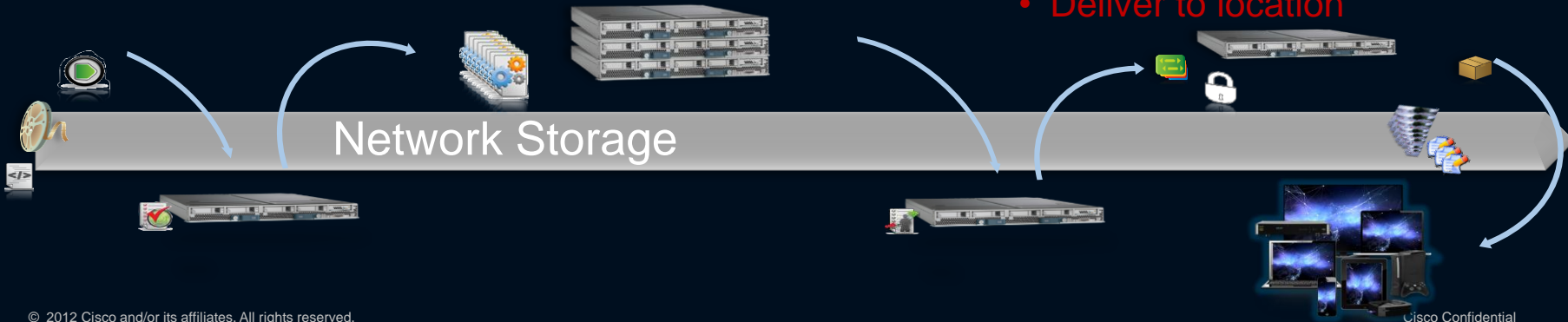
Encode

- Distributed and Multi-threaded encoding
- ABR transcodes

Post-Encode

- QC output
- ABR transwrap
- DRM/Encryption
- Deliver to location

Network Storage



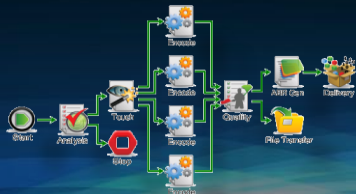
Supported Formats

- MPEG-2 elementary, program, and transport streams
 - QuickTime (all codecs supported by QT 7.2 and later, including Apple ProRes 422, DVCPRO HD, Avid DNxHD*, and IMX MPEG-2*)
 - H.264, all profiles
 - MXF (OP1A and OP-atom)
 - GXF (SMPTE-360M)
 - AVI
 - WMV
 - AVISynth scripts
 - Motion and Photo JPEG
 - AIFF audio
- * With installation of third-party decoders



- Windows Media Video (VC-1 and SMPTE-421M) Simple, Main, and Advanced profiles
- Windows Media Audio Standard and Professional (up to 8 channels)
- VC-1 and H.264 Smooth
- Flash On2 VP6
- MPEG-4 part 2 Simple and Advanced profiles
- H.264 and AVC Baseline, Main, and High profiles up to Level 5.1
- MPEG-2 Main and High profiles up to 4:2:2 color space
- AC-3 audio 2 and 6 channels
- AAC audio (LC and HE AAC)
- MPEG-1 Layer II Audio
- MP3 audio
- WAV LPCM audio

Key Features and Benefits



Workflow Design

Custom Workflows

Link up icons to customize workflows.

Automate Decisions

Save time sorting source files; let CAV route files and set template parameters.

Decision Logic

Boolean-style logic routes files through the workflow to reducing touch points.



Reporting and Customers

Reports

Output custom data to spreadsheets to track performance and billing.

Customers

Assign jobs to customers for billing and properly managing resources.

Prioritization

Jobs can be prioritized to ensure resources are focused on critical business.



Template Editor

Encode Parameters

Advanced parameters for all codecs, allowing for spec conformity and highest quality.

Closed Captioning

Support for CC standards.

Multi-Language

Configure templates for multiple audio tracks and subtitles.

AVISynth

Embedded support for popular post-scripting utility.

Key Features and Benefits



Adaptive Transport Stream

ATS

Intermediary H.264/AAC conditioned for ABR

Metadata

Transport Stream wrapper ideal for metadata, like CC, subtitles and multiple tracks

Archive Suitable

ATS files can be packaged any time in CAV to pick up ABR updates.

ABR Transwrap

Offline Encapsulator

Greatly increase ABR output density using transwrap

Output Popular ABR Formats

Output Microsoft Smooth, or Adobe HLS, + PlayReady, or Adobe HDS + Flash Access

Transwrap Only

Send ATS files though CAV at anytime, without encode

Multi-Language

Multiple Audio Tracks

Simplify workflow when outputting multiple audio files.

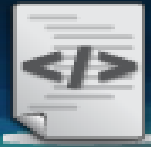
Subtitles

Output subtitles sourced from external file.

Language IDs

Map audio files and subtitles to any custom Language ID.

Key Features and Benefits



Ingest Task File

Trim

Set the in and out points; can be relative to a starting point.

Sources

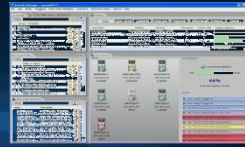
Points to source video and audio locations.

Companion

Files delivered from ingest to the output directory.

Thumbnail

Provide the frame number and CAV generates a thumbnail..



Remote Manager

Manage

GUI to configure all aspects of the transcoding workflow..

Monitor

Log in from anywhere to monitor progress of encoding farm or change job priorities.

Cross Platform JavaWS

Manage CAV Server from any computer on network, including OSX.



DRM & Encryption

PlayReady & Flash Access

Apply encrypted policies to over-the-top assets.

HLS or HDS Encryption

Encrypt delivery of each iOS segment, or Protected HDS.

DRM- or Encrypt-only

Source “in the clear” assets to have encryption applied without a transcode.

Thank you.



Disclaimer

Many of the products and features described herein remain in varying stages of development and will be offered on a when-and-if-available basis. This roadmap is subject to change at the sole discretion of Cisco, and Cisco will have no liability for delay in the delivery or failure to deliver any of the products or features set forth in this document.

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