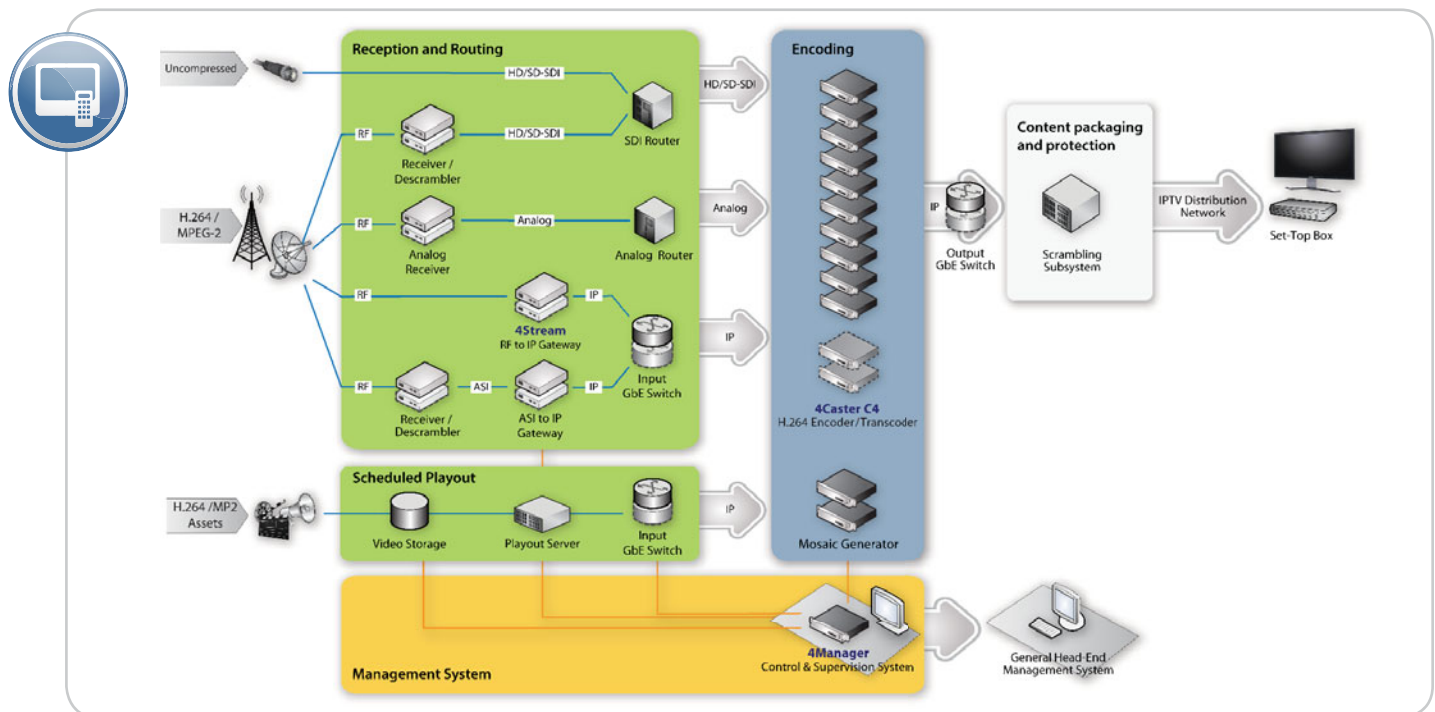




High-Quality Television from your Network

IPTV services attract and retain subscribers by creating compelling interactive television services that are a significant enhancement over incumbent viewing options. Examples of successful IPTV deployments can be found around the world and many telcos and cable operators are ready to extend the availability of IPTV on their networks. Envivio IPTV head-ends provide scalable solutions for delivering an appealing channel lineup with high video quality while paving the way for Three Screens services.



Reception and Routing

- MPEG-2 or H.264 sources from satellite or terrestrial network or baseband signal coming from Broadcast studios
- Envivio 4Stream™ IP Gateway for cost-effective, all-IP deployments
- Guaranteed interoperability with receivers and routers / gateways to adapt to legacy infrastructure using SDI, ASI or analog signals

Scheduled Playback

- Video assets are scheduled to play back to create near live TV channels

Encoding

- Envivio 4Caster™ C4 encoders address both SD and HD MPEG-4 encoding / transcoding
- Picture-in-picture and generation of mosaic video streams
- A range of ingest modules are available to integrate into all types of architectures
- A flexible license system allows operators to optimize their investment and adopt a pay-as-you-grow business model and expand to other screens

Management System

- Monitor the equipment of the head-end, manage the encoders, ensure system redundancy
- Provide various views and operational metrics of the system and interface with high-level NMS
- Schedule maintenance operations

Deployment and Support

- Assess existing ecosystem, analyze workflow for optimal video quality
- Build solution and integrate third-party equipment
- Configure equipment on site and train operators on the solution
- Various Support Level Agreements (SLA) address the various needs of each operator



Reference Architecture IPTV Head-End



MAXIMIZE YOUR INVESTMENT

Envivio's redundant, IP-based signal routing leverages commodity-priced cabling and devices. Less costly to deploy than broadcast signal routing, an all-digital IP-based signal flow simplifies routing and scalability while preserving signal integrity. The combination of 4Stream with IP output for signal reception and 4Caster C4 transcoding with IP input reduces the quantity of equipment needed.

4Caster C4 combines the performance of the latest generation Intel multi-core processors with advanced video compression codecs developed by Envivio. It enables operators to increase subscriber eligibility or channel lineup by lowering bandwidth requirements without any sacrifice on video quality. The flexible software architecture makes you benefit from continual quality enhancements and feature additions.



MANAGE DIVERSITY

Consumers expect choice. For an operator that means offering a high number of channels that may originate from a number of sources—satellite, local, direct from studios, all off-air. Envivio head-ends ingest virtually any signal with direct connectivity support for MPEG-2 or H.264 video over IP, as well as broadcast interfaces including analog, SDI, HD-SDI inputs, and ASI.



ABSOLUTE RELIABILITY

A great subscriber experience begins with a service that is on air, all the time. Envivio's high-availability platform delivers 99.999% uptime and unshakeable performance. Signal routing and power management are fully redundant. Fault tolerance throughout the head-end is increased by redundant components administered via the Envivio 4Manager management system which provides automatic 1+1 or N+M redundancy protection and high-level service supervision.

Envivio Customer Services ensures that signal acquisition, the first step to guaranteeing quality, is optimized, then fine tunes the encoder to generate maximum performance and efficiency for the specific deployment. A range of ongoing support options provides long-term assurances including troubleshooting assistance, extended warranties and upgrades for new releases.



BEYOND IPTV

Unlike most single-purpose broadcast equipment, the 4Caster C4 encoder / transcoder can be extended to support distribution to mobile and broadband devices. Envivio dramatically reduces the cost of multi-screen operations by delivering to all Three Screens—TV, Mobile and PC—from a single head-end under a unified management system.



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