ENENSYS

vCaster

Delivery & Signalling server for ATSC 3.0

vCASTER IS ENENSYS' VIRTUALIZED SOFTWARE DESIGNED TO SUPPORT THE DELIVERY OF LIVE CONTENT FROM HEVC ENCODERS OR NON REAL-TIME CONTENT OVER ATSC3.0 NETWORKS USING ROUTE AND MMTP PROTOCOLS.

Running inside the core delivery network, the vCaster operates as a standalone ROUTE or MMTP software, supporting all the required ATSC3.0 specification and using standardized interfaces to control the delivery of broadcast content over an ATSC3.0 network.

Delivery of Live HEVC Encoders

ATSC3.0 has defined HEVC as the video encoding format. The ATSC3.0 encoders generate either DASH or MPU segments containing audiovisual content. The vCaster aims at delivering in multicast the DASH segments over ROUTE protocol and the MPU segments over MMTP. The vCaster can manage the delivery of several encoders (Up to 5x).

Non-Real Time Service Delivery

Non-real Time (NRT) services are applications generated by data server for delivering Electronic Service Guide (ESG), interactive applications or any kind of content to be download into the receiver. The vCaster is designed to deliver NRT services over ROUTE protocol.

Service Signalling

Service Signaling provides service discovery and description information. The Service List Table (SLT) enables the receiver to build a basic service list, and bootstrap the discovery of the SLS for each ATSC 3.0 service. The SLT can enable very rapid acquisition of basic service information. The Service Layer Signaling (SLS) enables the receiver to discover and access ATSC 3.0 services and their content components. The vCaster aims at generating both SLT and SLS and delivering them over ROUTE and MMTP protocols.

APPLICATIONS

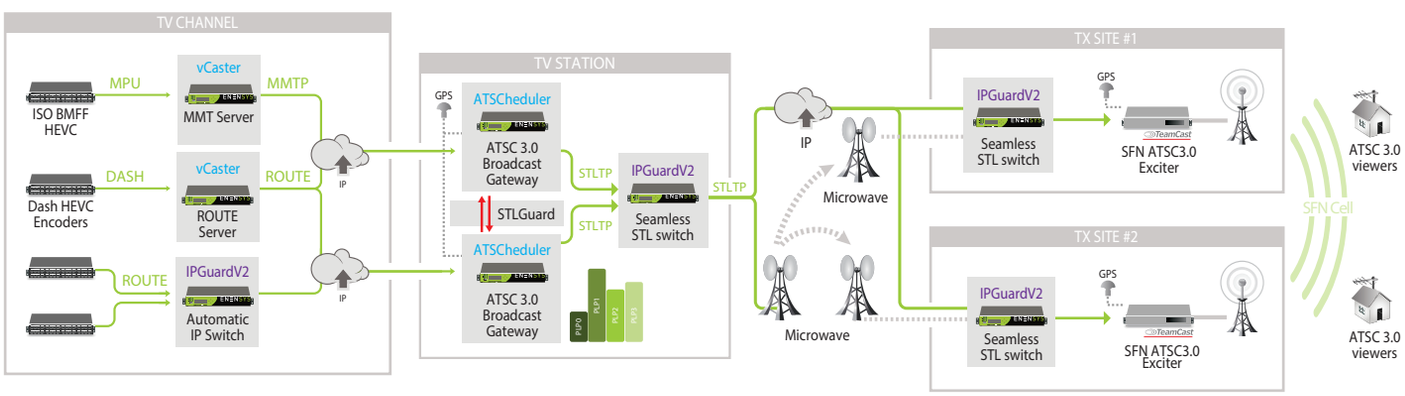
- ATSC 3.0 Live Content Delivery
- ATSC 3.0 NRT Content Delivery
- ROUTE and MMTP Delivery Server

BENEFITS

- Independent from live sources
- Management of multiple services in parallel
- ROUTE and MMTP simultaneous delivery
- Straightforward integration in ATSC3.0 architecture
- Virtualization enables resource optimization and cost-effective service roll-out
- Highly reliable with 1+1 redundancy
- Secure and standard interfaces

CHARACTERISTICS

- Web-Dav input to get DASH and MPU segments
- FTP input to upload NRT content
- ROUTE delivery server
- MMTP delivery server
- Multi-sessions support (Option)
- LLS/SLT tables generation and delivery
- SLS fragments generation and delivery
- System Time Fragment (STF) table generation and delivery
- HTTP/REST API for remote control
- Virtualized appliance running on standard servers
- SNMPv2 support



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INPUTS

GUI	HTML5 Web-based interface
DASH/MPU segments	Web-DAV interface Download/Upload support
NRT files	FTP access

OUTPUTS

ROUTE/MMTP	Multicast UDP/IP stream

FEATURING

ATSC standard	V3.0 support
ROUTE delivery	DASH segments or NRT files encapsulation into LCT sessions and ROUTE signaling for ROUTE delivery
MMTP delivery	MPU segment encapsulation into MMT packet and MMT signaling for MMTP delivery

FEATURING

Signaling	Service description to generate LLS/SLT tables SLS fragments generation and delivery STF table generation
Supervision Monitoring	Easy-to-use WEB-based GUI SNMPV3 support Service bit rate and video monitoring
Hypervisor	VMWare ESXI 6.5 KVM

ORDERING CODES

vCaster	ATSC 3.0 Files delivery server
Options	
vCaster-5sessions	Support up to 5 sessions
vCaster-10sessions	Support up to 10 sessions
vCaster-20sessions	Support up to 20 sessions
vCaster-Server	Hardware server to host vCaster

ENENSYS Networks

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RoHS