

ENENSYS mABR

OTT Content Delivery Solution



The ENENSYS Multicast ABR is a standard based, scalable OTT content delivery solution. It is designed to distribute live/linear TV streaming services with guaranteed High Quality of Experience. It natively supports filecasting for efficient delivery of On-Demand video and software upgrades in Multicast. Operators can now deliver the same content simultaneously to millions of users, using network resources

The ENENSYS Multicast ABR is a unique Solution for Network Operators wishing to offer High-Quality of Experience Streaming TV services over DSL/Cable/Fiber and Satellite, whatever the number of users. ENENSYS Multicast ABR also reduces the cost of scaling a traditional Unicast CDN network to support ever-growing video traffic demands and traffic peaks during prime-time and popular events. The solution can be upgraded to seamlessly support Multicast in 4G and 5G networks.

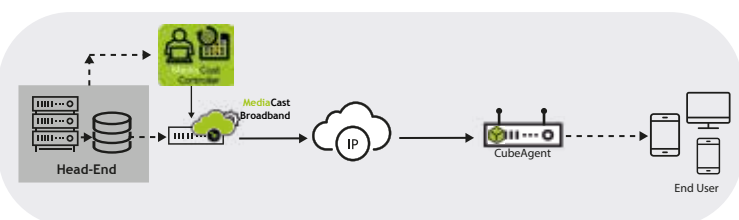
With the ENENSYS Multicast ABR solution end users will thrill watching their best sport team victory in HD, 4K, 8K quality. They will access their favorite content seamlessly from any screen, including their TV, SmartTV, Smartphones, Laptops or Tablets. They will access fast and securely the latest season of their favorite series for binge watching whenever they wish while only using a small fraction of your network resources. Subscribers can preload complete seasons of their preferred TV series or Movies without the operator wasting precious network resources. End users can enjoy the same services and customer experience anywhere on any device thanks to a simple Operator upgrade with MediaCast Mobile server. The ENENSYS Multicast ABR solution is composed of three applications: The MediaCast Broadband, The MediaCast Controller and The CubeAgent (described in a separate Datasheet)

MediaCast Broadband

Multicast Server software designed to acquire content from the Head-End/Origin. It efficiently and securely streams the content over multicast. It implements the proven 3GPP-LTE-Broadcast based and DVB/ETSI compliant FLUTE transport protocol, and the ENENSYS's advanced Forward Error Correction technology. MediaCast Broadband configuration is ensured by the MediaCast Controller.

MediaCast Controller

Application designed to configure the Multicast content delivery parameters. It obtains the content list from the Content Management System through standard open interfaces. It sends the content delivery instructions to the MediaCast Broadband Server and uses end-user Consumption Reports to dynamically decide to deliver a service/content in Unicast or Multicast.



Applications

- Live Streaming TV for Sports and Popular content delivery
- File Delivery of VoD catalogues and massive Set-Top-Boxes Software upgrades
- Satellite Backhauling for OTT TV Services
- 5G CDN and network scalability
- Quadruple-Play services with companion MediaCast Mobile server
- xDSL, Cable, Fiber, Satellite Support

Benefits

- Delivers guaranteed bit rate live and linear video streams
- Ensures Digital-Terrestrial-TV-like latency and zapping times
- Reduces CDN cost for Live TV by more than 50%
- Decreases the cost of on-demand content delivery and software upgrades
- Eliminates peaks of traffic automatically
- Lessens ecological footprint and power consumption
- Avoid operator lock-ins using DVB/ETSI and 3GPP

MediaCast Broadband

INPUT

- Content Ingest: xMB-U/RTP/DASH/HLS/CMAF-CE streams, any format files
- HTTP/Rest for content playlist ingestion (xMB-C)
- UI for server provisioning

OUTPUT

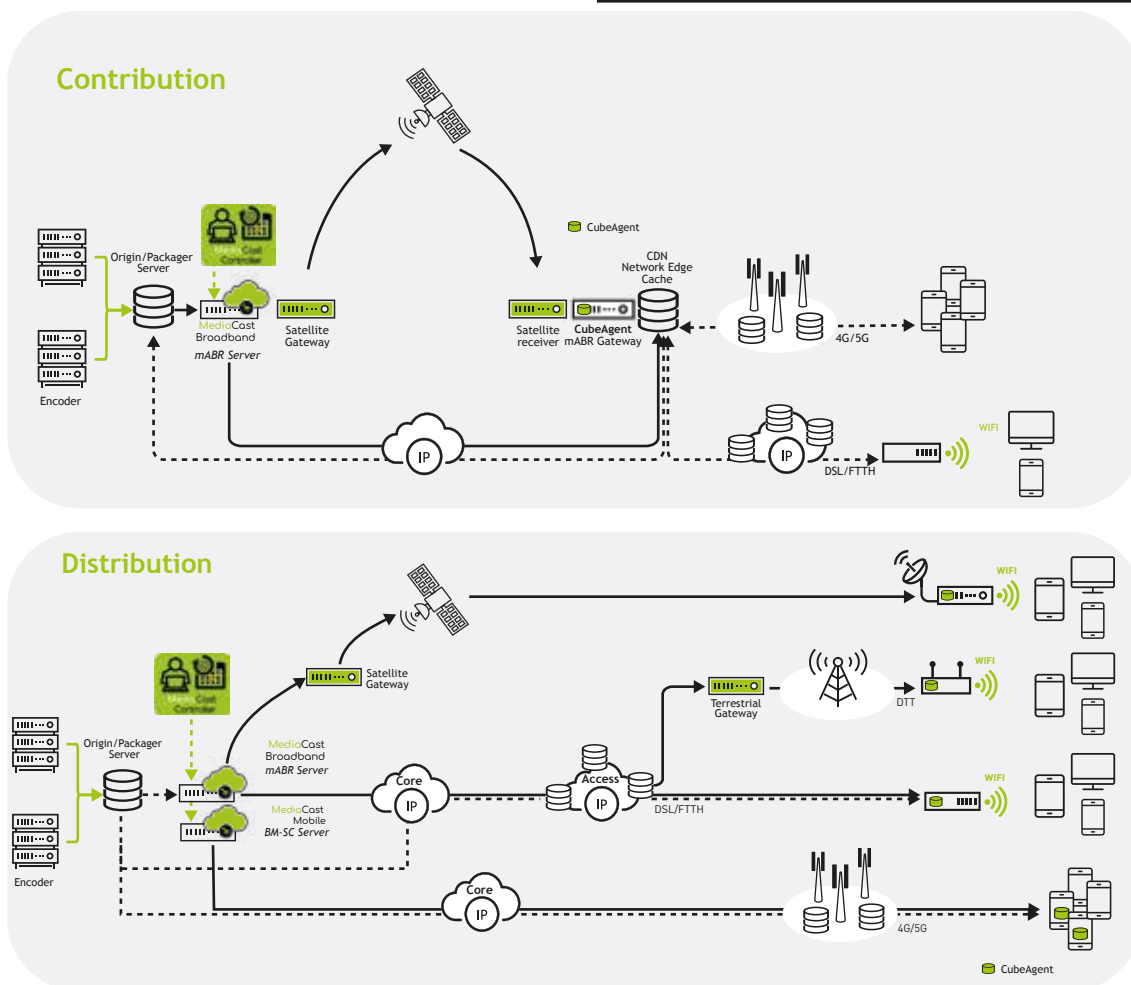
- Flute streams (RFC-6726, DVB-I Specs)
- FEC Raptor10: RFC-6681/5053, FEC LDPC: RFC-5170, FEC RS: RFC-5510

PHYSICAL

- MediaCast Broadband & MediaCast Controller run on any Hardware
- Virtualized frameworks: VmWare, OpenStack, KVM

FEATURING

- Delivers high-quality video to million of users in a single stream
- DVB compliant Multicast ABR
- Supports wireline DSL/Fiber, Satellite
- Supports 4G and 5G networks with an upgrade with MediaCast Mobile
- Supports multi-profile Dash and HLS streams
- Low latency CMAF and Fast Zapping
- Powerful Forward Error Correction (FEC)
- CDN agnostic
- Push file delivery in Multicast
- Quality-of-Service reports
- Runs over any virtualization framework
- Option: Unicast Multicast automatic Switch (MooD)



ORDERING CODES

MediaCast-Broadband	mABR server for multicast delivery of video or multimedia content over any IP-based
CubeAgent-Broadband	Multicast reception and interface with OTT user application

Options	MediaCastBroadband-50Mbps	Support additional 50Mb/s of throughput
	MediaCastBroadband-50KUsers	Support additional 50 000 users