Teleste Luminato 2018

Luminato – Left to right

Receivers

Modulators

IP enabled

Luminato – Fact of the day

8500

Luminato Receivers

- No more traditional reception specific receivers
- Multistandard receivers
  - LRM-A
  - LRM-B
- Quad and Dual receivers
- IP reception included in Quad receiver
- Simultaneous reception of e.g. DVB-S2X and DVB-T2

Luminato key benefit - Encryption

Simulcrypt up to four CAS simultaneous

IPTV encryption (AES)

Enhanced security with scrambling on the receivers

Samsung LynkDRM and LG Pro:idiom hospitality DRMs

Luminato Dense Modulator

LDM-A

Luminato Dense Modulator – Hard figures

Totally new design

Compatible with existing chassis (LCH-D)

16 / 24 QAMs per module

Flexible channel selection

Max 3 modules within existing chassis LCH-D

Luminato Dense Modulator – Soft figures

QAMs added with licenses

First samples available by end of 2017

Launched in GPL H1/2018

General availability end of Q1/2018

Next phases will include Dense COFDM modulator

Existing DVB-C modulator will remain available

Luminato Edge QAM

Dense modulator enables totally new density per module

Dataminer integration existing for umbrella monitoring and configuration

New Chassis will enable highest QAM density per 1RU

Luminato Chassis – Version 2.0 on drawing table

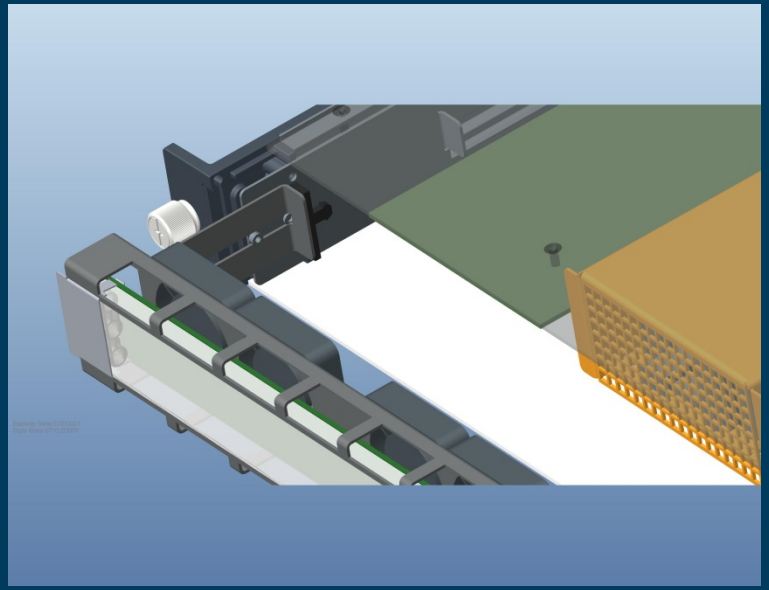
Six module slots

Interface card variable (1Gb ports vs. 10Gb ports)

Power supply on front side

Compliant with old modules

Available ”late” 2018



Luminato – Future compliancy is here

Transparent to codecs like HEVC

Transparent to resolutions like 4K

Support of DVB-S2X reception

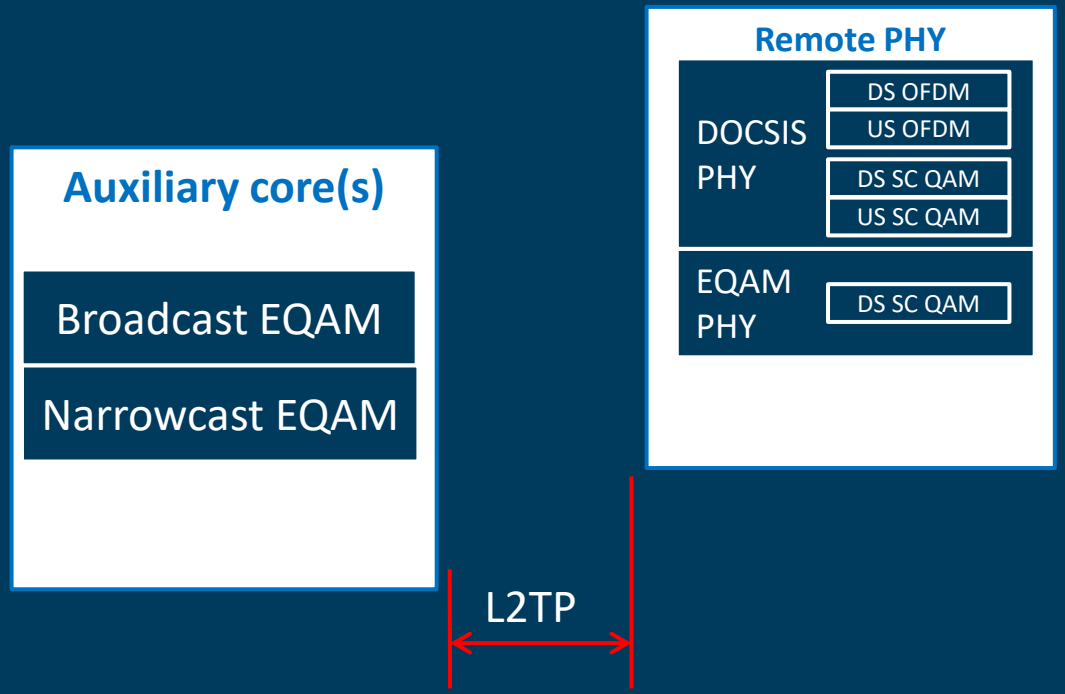
Luminato roadmap snapshot – DVB Video Core

Luminato acting as auxiliary core for:

- Broadcast video
- narrowcast video

Features:

- L2TP tunneling for pseudowires
- 1588 clock



CMAF

CENC

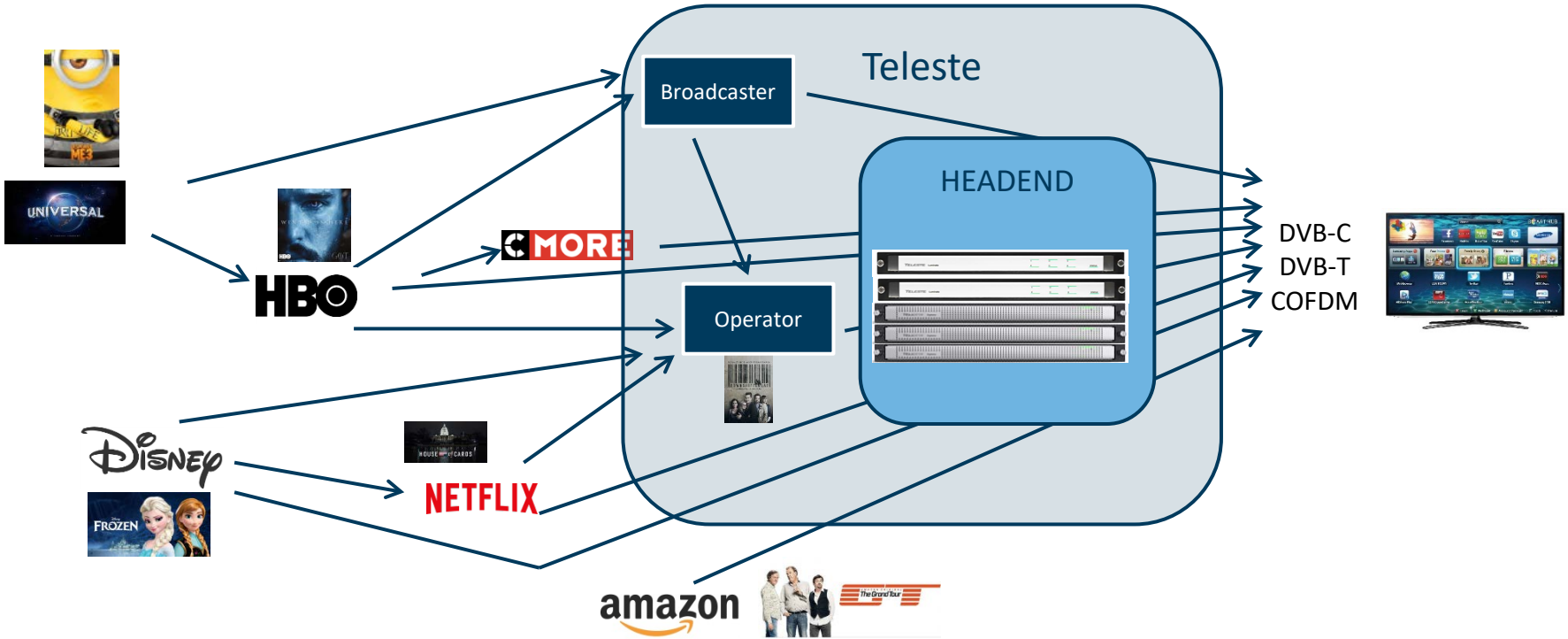
JITP

4K

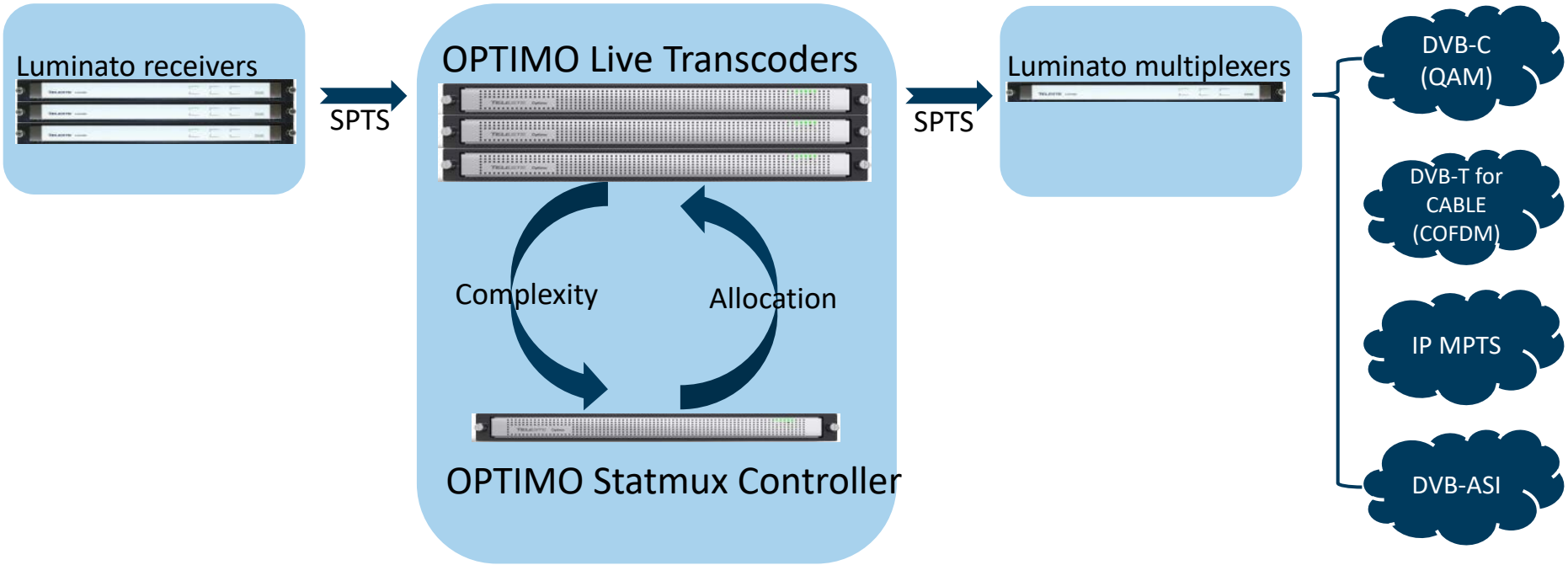
HDR

HEVC

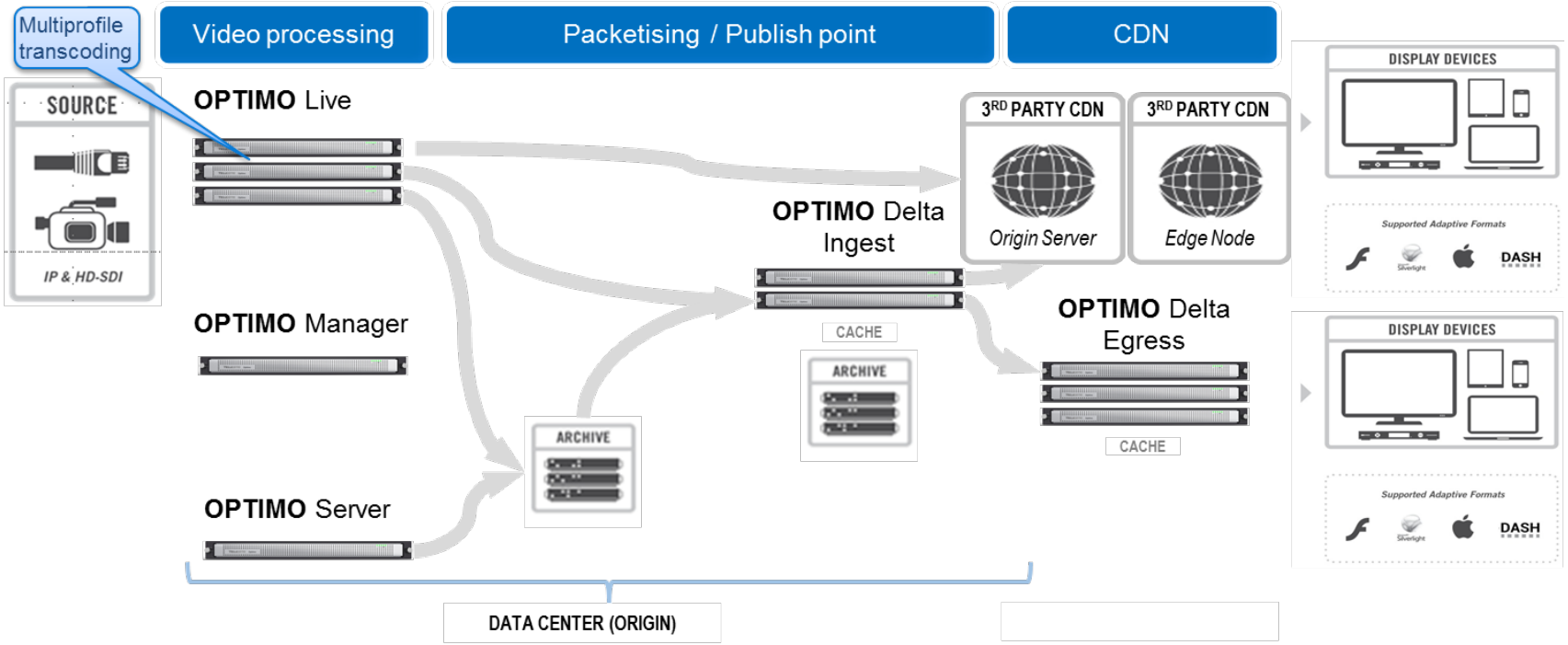
Video is everywhere



Optimo Statmux Architecture



Video Delivery Pipeline - Architecture for OTT customer



Video – Size matters

Activity	Typical bandwidth required
Music streaming	1.5 Mbps (CD quality) 250 Kbps (MPS)
Video streaming – standard quality	1.5 Mbps per user (minimum)
HD video streaming	5 Mbps per user
Streaming video services, such as Netflix, YouTube, HBO Go	Up to 10.5 Mbps per user (HD or 1080p streams)
4K ultra HD or HDR video streaming	25 Mbps per user