

Handling Legacy QAM Video in a DAA World

Webinar



Presenters



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Agenda

-  DAA Update – Inevitable but Delayed
-  Role of Legacy QAM Video in DAA Objectives
-  Full CCAP Video Core Complexities & Challenges
-  Enter the R-PHY Video Engine
-  Is a Video Engine Right for You?
-  Introducing ATX GigaPass™
-  Q&A

DAA Status Update – Inevitable...



Analog to Digital



Converged Service
Environment (All IP)



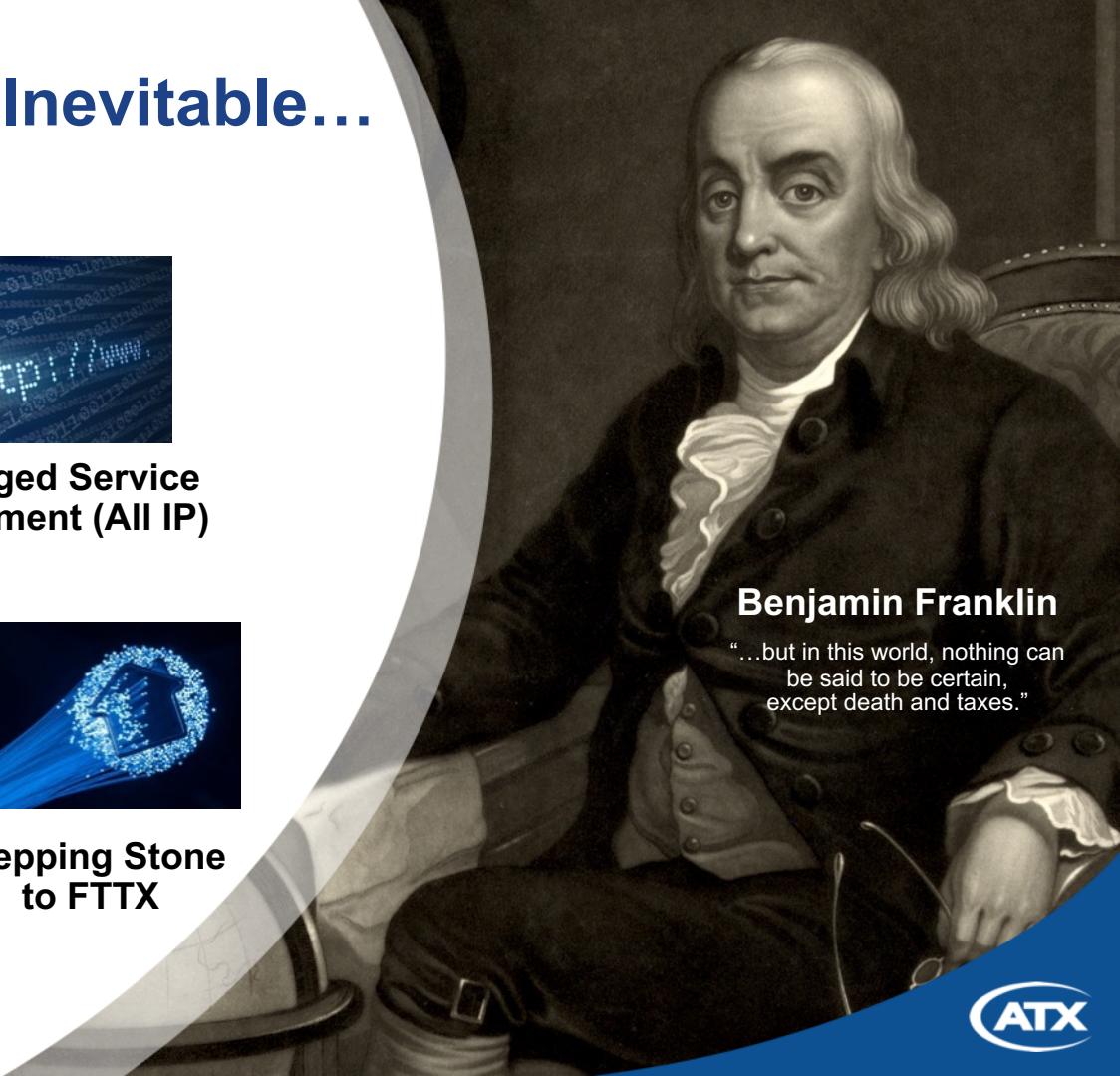
Higher
Spectrum/
Bandwidth



Headend
Virtualization



Stepping Stone
to FTTX



Benjamin Franklin

“...but in this world, nothing can be said to be certain, except death and taxes.”

...but Delayed



Analysis Paralysis



Technology/Architecture Choices



Vendor Disruptions



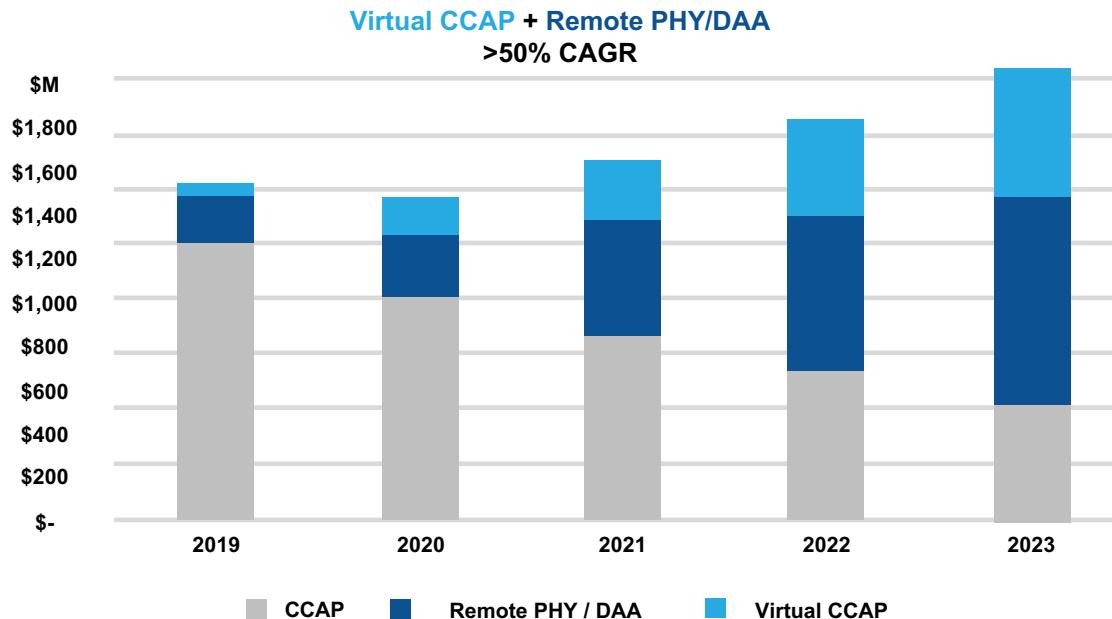
Regrettable Spend



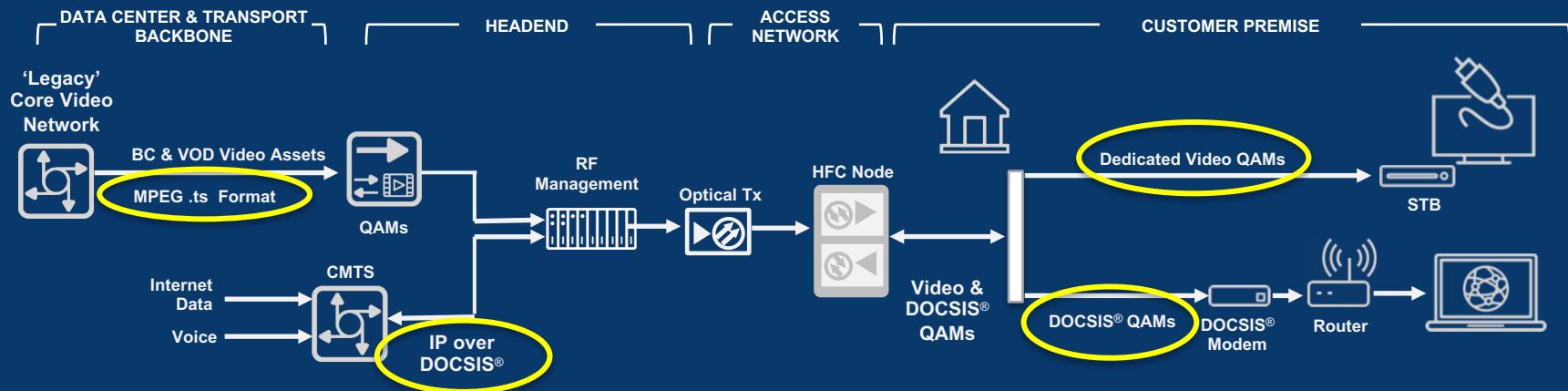
Looking Forward

Global Cable Access Spend

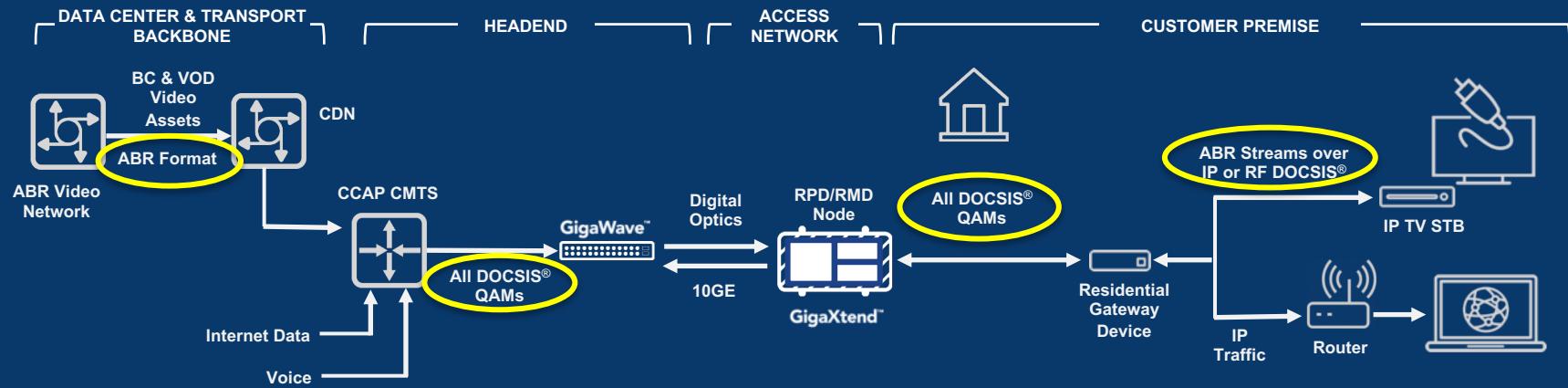
Source: Dell'Oro July 2019 Report



MSO Video Transport Network Evolution



Ideal DAA Network End State





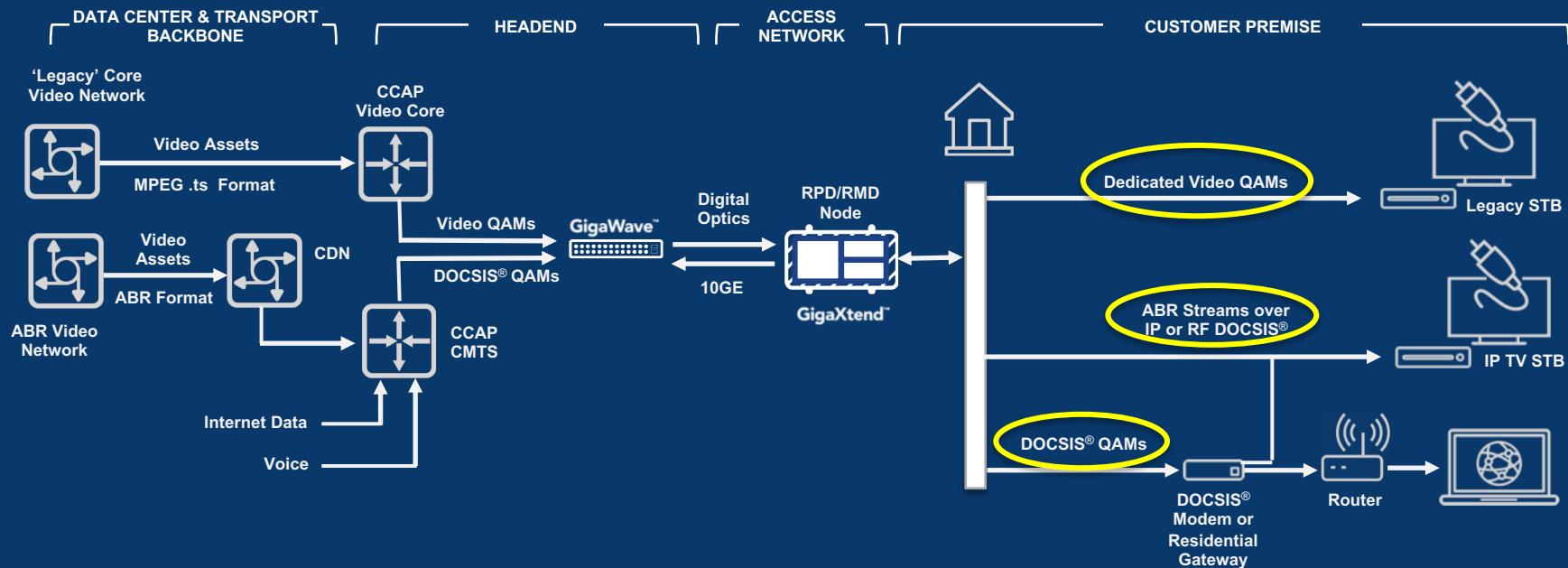
Ideal DAA Network End State

Why wouldn't MSOs migrate directly to an all-IPTV network?

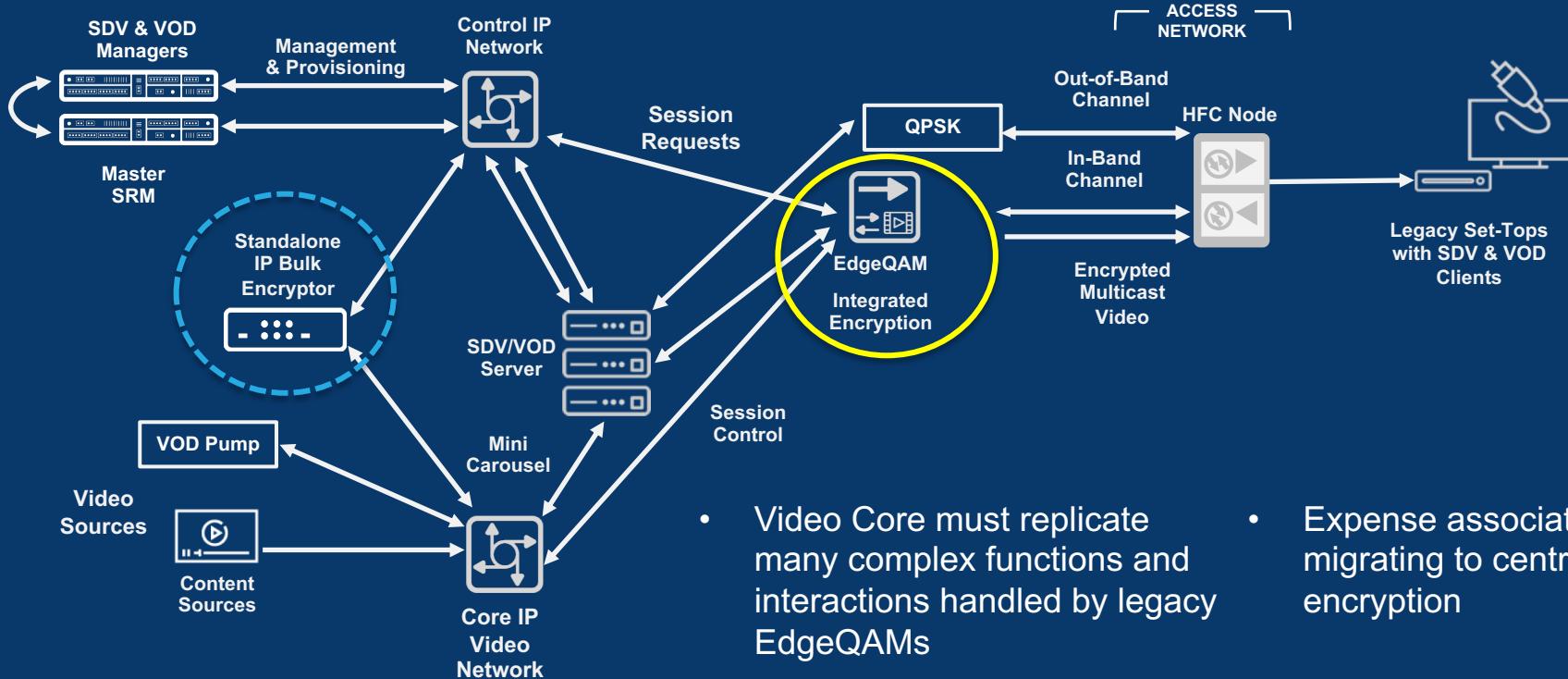
Many challenges include:

- Significant field work required to upgrade nodes with RPDs/RMDs
- Deployed base of legacy QAM video only STBs need to be replaced

DAA Network with Hybrid Video Delivery

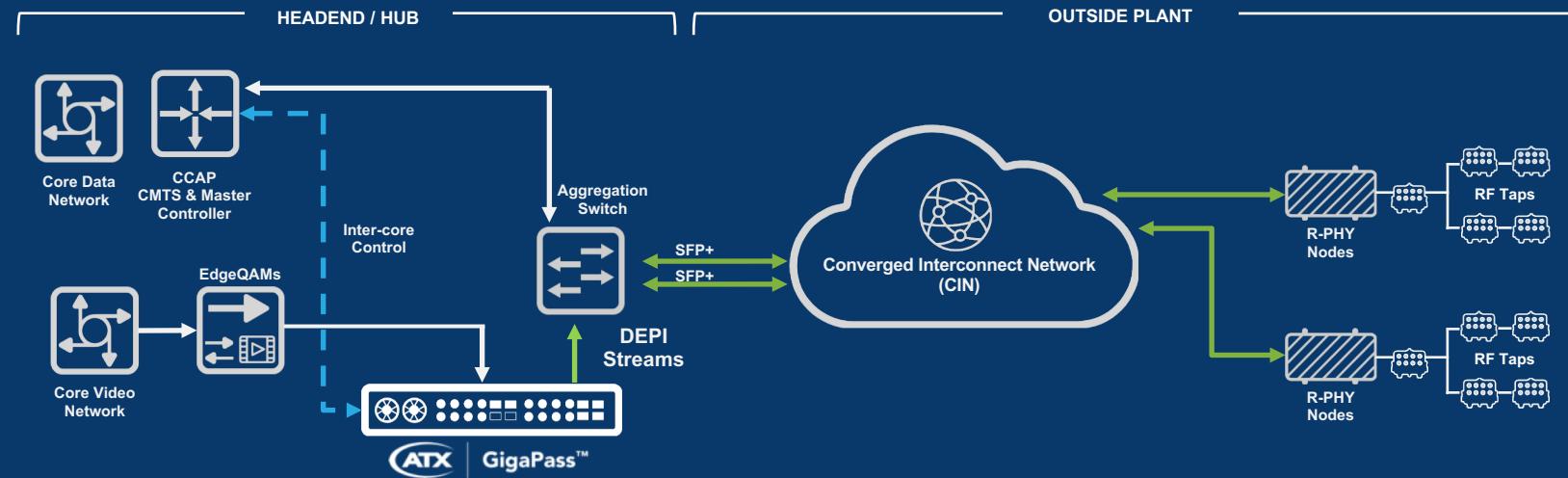


Full CCAP Video Core Complexities



- Video Core must replicate many complex functions and interactions handled by legacy EdgeQAMs
- Expense associated with migrating to centralized encryption
- CAS support mismatches or gaps may exist in certain Video Cores

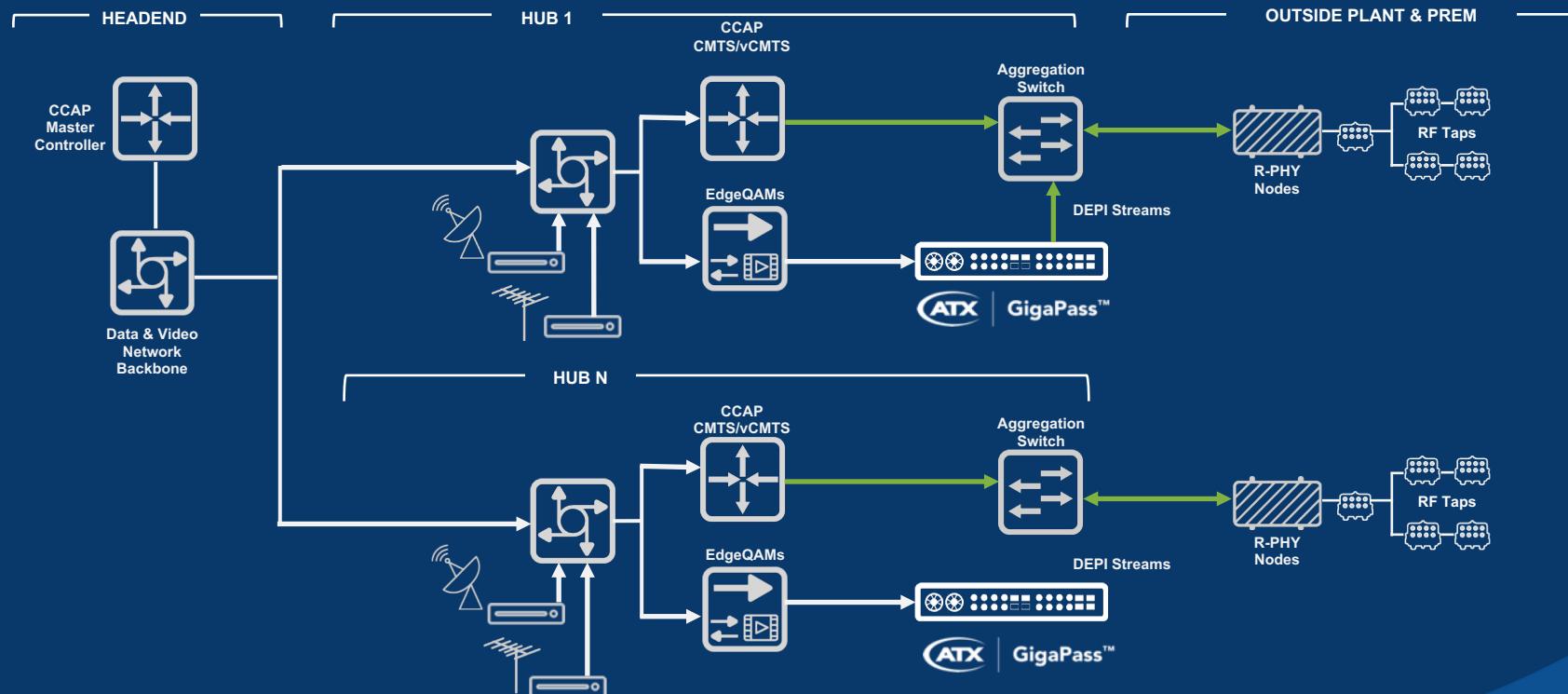
Enter the R-PHY Video Engine



- ✓ Enables reuse of equipment and back office ecosystems
- ✓ Mitigates against encryption mismatches
- ✓ Accelerates DAA deployments

Video Engine – Additional Application

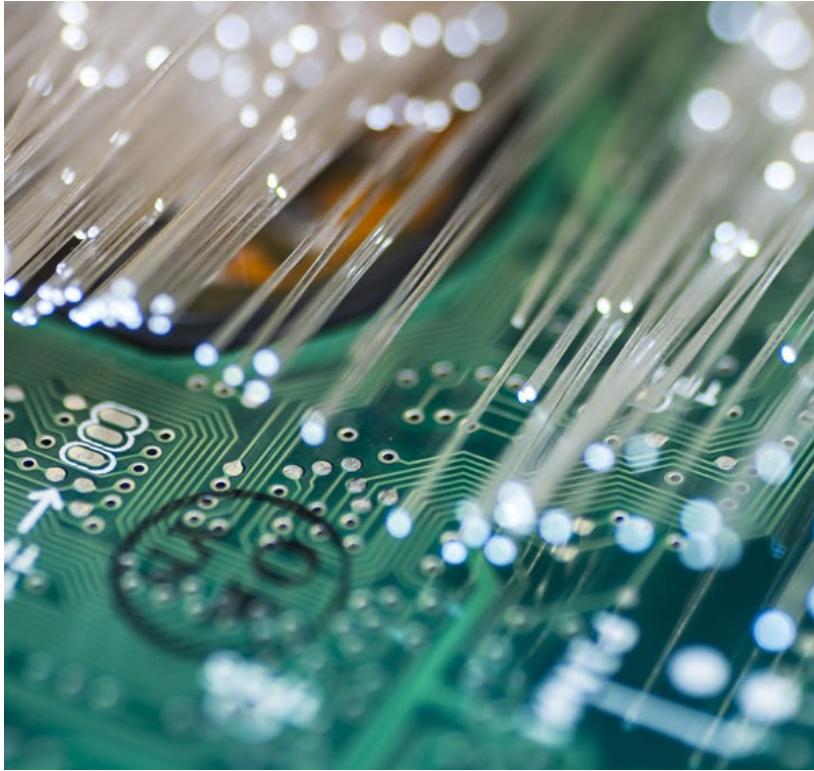
Maintaining a Distributed Legacy Video Network



Video Engine vs Full CCAP Video Core

	Video Engine	Full CCAP Video Core
Implementation and Deployment	✓ Very simple add-on to existing workflows. Enables continued use of existing infrastructure	✗ Complex requiring migration and re-configuration of many video workflow functions
Encryption Compatibility	✓ “Transparently” maintains existing encryption in use	✗ Not ubiquitously supported among all DAA vendors or requires centralizing encryption function
Price Point	✓ Low base price ✓ Scales evenly for additional capacity	✗ High base price ✓ “Per stream” price improves at large scale
Hardware Efficiency	✗ Less efficient given maintenance of existing eQAMs	✓ Efficiencies gained from decommissioning legacy eQAMs

Is a Video Engine Right for Your DAA Plans?



Do you anticipate migrating all your video subscribers to IPTV-capable STBs in the next several years and are you looking for the simplest and most cost-effective means of maintaining legacy QAM video in the interim?

Is there a potential mismatch between your CCAP solution vendor preference and your deployed legacy video CAS/encryption?

Are you currently reliant on a distributed legacy QAM video architecture?

ATX GigaPass – Key Features

- ✓ Total capacity of up to 320 processed QAMs in 1RU
- ✓ Output video multiplexes in DEPI or IP
- ✓ Flexibility to purchase and populate with 1 to 4 cards per chassis
- ✓ Support for tuning QAM Annex A, B & C mode carriers
- ✓ Redundant AC or DC power supplies
 - ✓ Redundancy support – cards are hot-swappable and operate completely independently with no shared common resources or points of failure



ATX GigaPass – Key Features

Operational Flexibility

- ✓ Tune, demodulate and convert up to 80 QAMs on a single card
- ✓ Supports multiple selectable operating modes to accommodate various broadcast and narrowcast architectures
 - Broadcast-80 mode: Single RF input, up to 80 QAMs processed
 - Broadcast-40 mode: 2 RF inputs, up to 40 QAMs processed each
 - Narrowcast mode: Up to 5 RF inputs of up to 16 QAMs each
- ✓ 2 x 1/10 Gbps SFP-based IP output ports per card (for output and management)





The 2050 Project

A strategic game plan for the long-term evolution of your HFC network



Download the white paper at:
<https://atx.com/the-2050-project-part-i/>