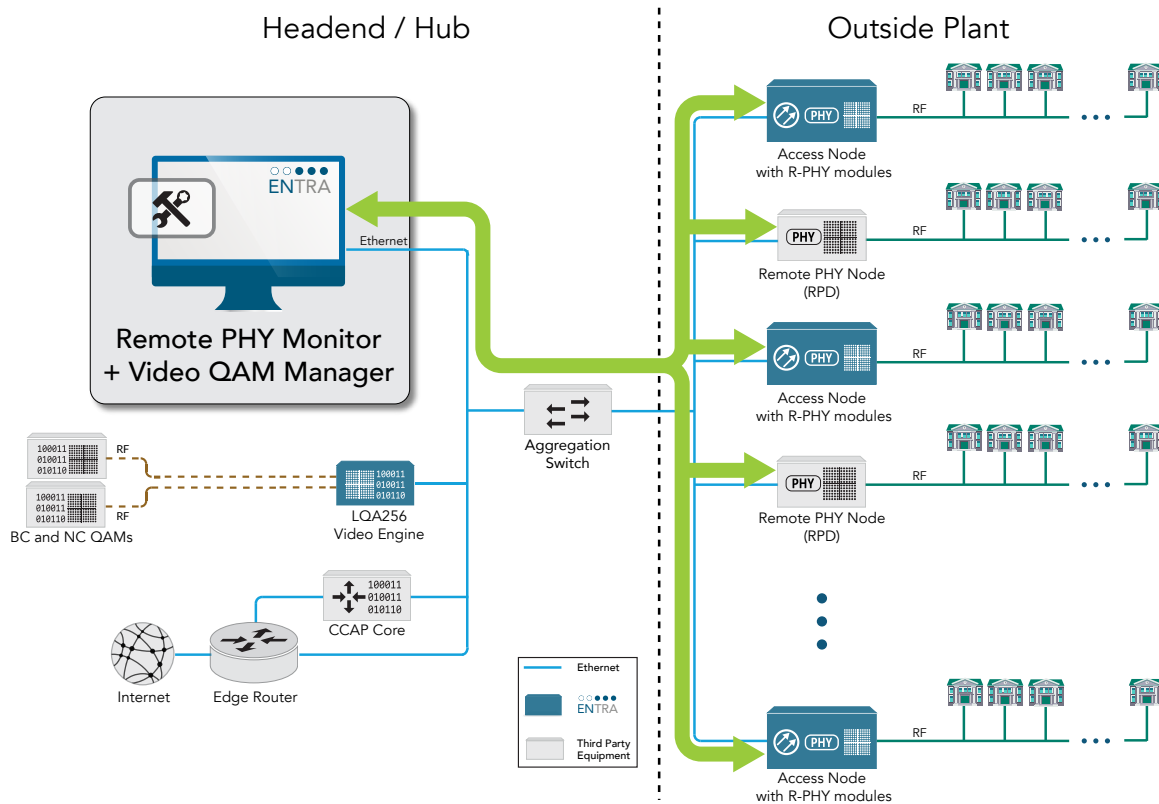


Improving Performance & Delivery of Video to R-PHY Access Nodes



Entra Video QAM Solution

Vecima's **Entra Remote PHY Monitor** collects, stores, and presents RPD configuration and operational data in a simplified, clear, and consistent way providing MSOs with actionable insight into their RPD deployments. Consolidating RPD monitoring capabilities into a vendor-agnostic system empowers our customers to have smooth DAA rollouts, reduce operational expenses, and ensure their HFC network is operating at peak capacity.

The **Video QAM Manager** acts as an auxiliary CCAP core to configure video on R-PHY nodes driven by standards-compliant video engines such as the **LQA256**. This solution provides an economical, low-risk method of deploying DAA without removing existing EdgeQAMs while avoiding looping video through the principal CCAP core.

Features - Remote PHY Monitor

- Monitor status and configuration of Entra R-PHY Access Nodes (Entra RPDs) and third-party RPDs*
- Rich Web Interface w/ Time-Flexible Charts (up to 30-days)
- Monitor key real-time RPD metrics
- Understand recent events with metric timeline views
- Ensure proper configuration and operation of RPDs
- Node Configuration** (e.g. RF Amplifier, Forward Injection Module)
- Detailed information on RF configuration, tunnel status, PTP status, RF Amplifiers**, and more

* Any standards-compliant RPD

** Entra R-PHY Access Node (Entra RPD) only feature

Features - Video QAM Manager

- Configure QAM Video on Entra R-PHY Access Nodes (Entra RPDs) and third-party RPDs*
- Supports Broadcast and Narrowcast (SDV/VOD)

* Any standards-compliant RPD

Specifications

Interfaces		Remote PHY Monitor	
Web UI	Responsive Single Page Application	Performance	Time-series metrics, streaming telemetry
REST API	Allows for integration with current and future platforms	Data Storage	External authentication, authorization levels
Console	CLI over SSH (Local Admin & Video Configuration)	Devices Supported	Entra R-PHY Access Nodes (Entra RPDs), third-party RPDs*
User Management		Monitoring of Devices	Initiate upgrades, schedule upgrades, inventory versions
Authentication Integration	TACACS+	Management of Devices**	Node health, RF configuration, RF Amplifiers**, PTP status, L2TPv3 tunnels, and Ethernet ports
Authorization Levels	Two account levels	** Entra R-PHY Access Node only feature	
Deployment		Video QAM Manager	
Appliance	1RU rack mount (Dell)	Performance	Configure QAM video service groups on up to 500 Nodes/RPDs* (per appliance)
Virtual Machine (future)	VMware ESXi	Devices Supported	Entra R-PHY Access Nodes (Entra RPDs), third-party RPDs*
		Video Engines Supported	Entra Legacy QAM Adapter, compliant third-party video engines
		* Any standard compliant RPD	