

# OV PMA Case Study

## Leveraging OV PMA for capacity gain and network resiliency

DOCSIS network health and the optimization of broadband operator investment in upgrading to a D3.1 network requires OV's Profile Management Application to identify and work around network impairments causing severe QoE issues for subscribers. The OV PMA solution:

- **Automatically identifies and deploys the optimal set of OFDM/OFDMA profiles for improving bandwidth** without the expense of line drops or other network build-out costs.
- All configurations are determined and **implemented automatically without manual intervention**, resulting in less time needed for engineers to monitor the network health, customer service to handle QoE issues and more efficient field technician effort.

### OPERATOR CHALLENGES

- Network impairments can result in D3.1 devices being knocked off the OFDM(A) channels, reducing their available bandwidth and causing QoE issues
- Available capacity on the SCQAM channels is reduced if OFDM(A) channels are not being used, causing severe congestion issues impacting both D3.0 and D3.1 devices

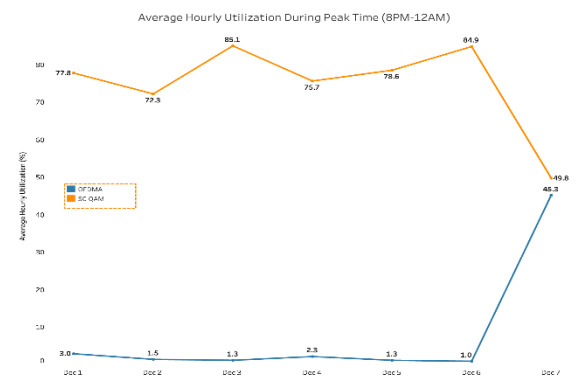
### SOLUTION

- OV PMA identified a suck-out impairment causing D3.1 devices to revert to the SCQAM network, thus reducing both the bandwidth for D3.1 devices and available capacity for D3.0 devices
- OV PMA automatically applied optimal modulation profiles to work around impairment resulting in numerous benefits described below



**34%**  
INCREASED  
CAPACITY  
FOR D 3.1  
MODEMS

**100%**  
INCREASE IN  
AVAILABLE  
CAPACITY  
FOR D 3.0  
MODEMS



### OV PMA Solution Benefits

- Resiliency- 124 of 134 D3.1 modems rebounded to OFDM(A) due to optimized profiles
- Increased capacity for D3.1 modems by 34%
- Reduced congestion and increased available capacity by >100% for D3.0 modems
- Avoided truck rolls and customer care calls
- Helped avoid/defer node splits
- Improved QoE for all D3.0 and D3.1 subscribers

### 12+ YEARS OF INDUSTRY LEADERSHIP

OpenVault solutions are deployed at 100+ broadband operators in the North America, Europe, Asia Pacific and Latin America, collectively serving over 80MM subscribers.