Aquila Broadcast delivers market leading video compression performance across all codecs - MPEG-2, MPEG-4 AVC and HEVC. It enables the same quality for services in less bandwidth equating to a significant reduction in transmission costs.
Aquila Broadcast Solution Workflow

Management path
  → Data path
  → CAS VPN

License
  → License Management & Controller

Configuration and monitoring interface

Conditional Access System

Stream(s)

Sync

Encoding Live
  → Encoding Live
  → Encoding Live (backup)

Stream Processing

Transport Stream(s)
Delivering the highest Picture Quality with significant cost savings

This real world use case example describes how a satellite broadcaster now requires two less transponders to carry their services due to the video compression performance gained by transitioning to MediaKind’s Aquila Broadcast Solution.

Customer Requirements:

- 82 x HD MPEG-4 AVC encoded channels
- 1 x UHD HEVC encoded channel

From current density

45 Mbps

4 Sport / 2 Entertainment

To new density

45 Mbps

4 Sport / 8 Entertainment

Solution Overview:

Aquila Broadcast configuration delivered:

- 82 x HD MPEG-4 AVC encoded channels
- No reduction in Picture Quality

- 2 x UHD HEVC encoded channels (1 additional UHD Channel)
- Reduction in transponder costs - from 11 x 45Mbps transponders to 9 x 45Mbps transponders

Current AVP Configuration

- 82 x HD H.264 Channels
- 1 x UHD HEVC Channel
- 11 x Transponders
- Average of 7.5 channels per transponder

New Encoding Live Configuration

- 82 x HD H.264 Channels
- 2 x UHD HEVC Channels
- 9 x Transponders
- Average of 9.3 channels per transponder

Highlights

- Maintained Picture Quality
- Additional UHD Channel
- Annual cost saving of 2 Transponders