VideoFlow

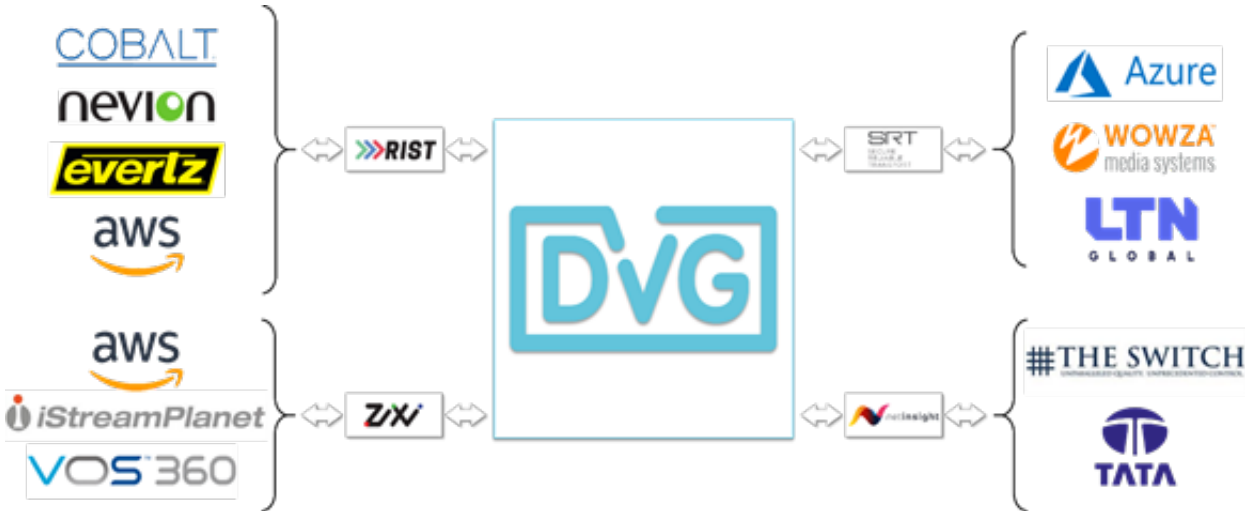
Why be limited to a single protocol or vendor?

Leverage your network by bridging diverse interfaces, services and standards

DVG
Video Over IP Gateway

Much More than Just a Reliable Video delivery protocol!

The Digital Video Gateway (DVG) is a MULTITOOL software platform, developed to deliver reliable video, over any IP network including over the internet. It converts multiple legacy interfaces like ASI to IP, enables varied video services, even if each is using different video protection protocols such as SRT, RIST, and Zixi. It connects any network type, to and from any cloud all in a single product.



VideoFlow sees the below requirements as the most crucial ones for Reliable Broadcast Over IP; Maintaining **High Quality**, ensuring **Reliability**, easy **Connectivity**, comprehensive **Security**, and Increased **Operational Efficiency**, hence VideoFlow invested in enabling a vast feature set per each requirement as part of the DVG offering.

High Quality

- Jitter elimination
- Configurable delay
- SMPTE 2022 FEC
- ARQ
  - VideoFlow, RIST, SRT, and ZiXi
- Hybrid ARQ/FEC
- Prioritized Packet Flow
- Null packets deletion & restoration
- Out-of-band video quality protection

Reliability

- Stream redundancy
- Link redundancy
- SMPTE 2022-7
- Device redundancy
- Disaster recovery
- Input Failover
- Output Failover
- High Availability
- Dynamic load share
- Controlled Adaptive Rate
- Multi-Profile Distribution
- MPTS Dynamic Rate
- Stream Priority Delivery
- Stream activation trigger

Connectivity

- Point-to-Point
- Point-to-Multipoint
- Multipoint-to-Point
- Bidirectional
- Video over IP switching
- Stream duplication
- Unicast/Multicast
- VLAN tagging
- UDP VPN
- GRE
- NAT traversal
- Multi ISP
- Multi DHCP

Security

- Cybersecurity EBU R-143 compatible
- Integrated Firewall
- Endpoint authentication
- Encrypted VPNs
- AES128, AES256
- DTLS
- PSK
- IPSec
- Identity-based protection

Operational Efficiency

- Remote site configuration & management
- Alarms notifications
- Confidence return feed
- Confidence monitor feed
- ETR290 stream monitor in real-time (QoE)
- Real-time network monitoring (QoS)
- Integrated network test tools
- Built-in encoder/transcoder
- Integrated Demux

How DVG Works and is Priced

DVG wide installation options

- Dockers Container
- Linux OS
- ISO
- Virtual Machine (ESXi, VirtualBox, VMWare, KVM)
- Runs on COTS platforms
- Cloud installations- AWS, Azure, Google

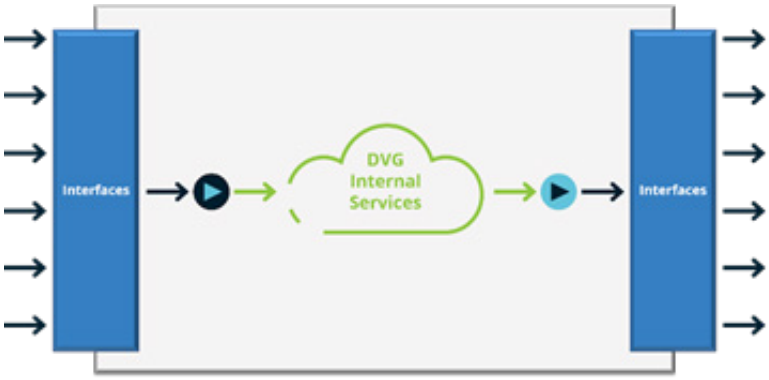
Business Model

- CAPEX - One Time Fee
- OPEX - Monthly Fee, pay per usage
- Data Rate – is not a factor in pricing

Introducing the SG (Stream Gate) concept

A SG can be either Input ▶ or Output ▶

The number of required SGs dictates the DVG price, SG I/O configuration change is flexible at any time. Below you can find a list of Integrated Services offered by DVG at no additional cost.



Reliability
- Hitless Redundancy
- Input Failover
- Output Failover
- Activation Trigger
- Dynamic Load Share
- High Availability
- Null Packets Deletion
- Null Packets Restoration
- CAR
- MPD
- MDR
- SPD*

Versatility
- Encoder
- Decoder*
- Transcoder
- Play From File
- Play To File
- Publisher
- Service Demux
- PID Demux
- Signal Switch
- MPE* Encapsulation
- MPE* Decapsulation

Connectivity
- RIST Tunnel
- EasyLink
- UDP VPN
- GRE
- IPSec
- Multicast
- Unicast
- Point to Point
- Point to Multipoint
- Multipoint to Point
- DHCP
- Port Forwarding

Security
- Firewall
- AES128
- AES256
- DTLS
- PSK

Operations
- Network Statistics
- ETR290
- Net Test Tools
- Alarms
- Email Alerts
- PLP* Monitor
- IGMP Listener
- NETCONF/ YOUNG

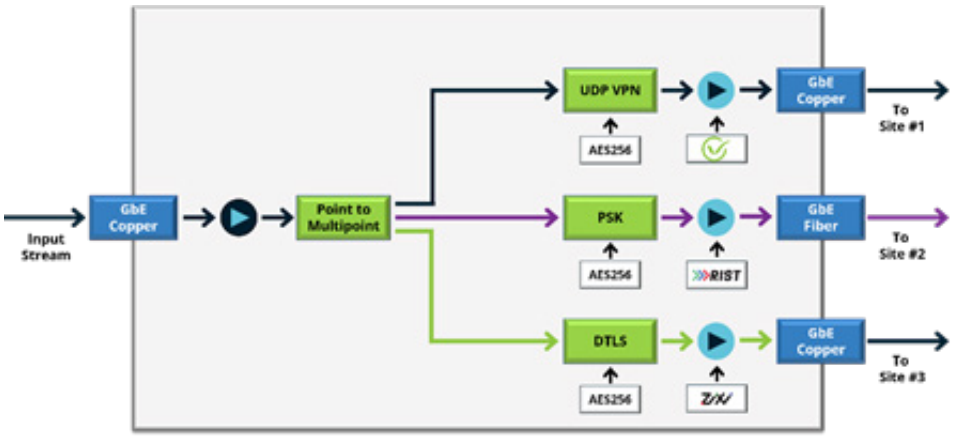
Legacy⇔ IP
- ASI⇨IP
- IP⇨ASI

* In Roadmap

A Glimpse of common DVG configurations

1. Simple Point-To-Point link

2. Point-To-Multi Point



Contact VideoFlow for additional configuration options and more info www.video-flow.com

VideoFlow

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