



## **AMV GATEWAY – Capabilities&Services**

### **Video / Audio**

- Content record / origination in HD and SD on Nexio Servers, Beta SP, Digibeta, XDCAM, DVCPRO HD, HDCAMSR. Automation is available.
  - Domestic and International CBand and Ku uplinks and downlinks.
- Video Standards Conversion utilizing Snell and Wilcox Alchemist Converter with Motion Compensation and audio delay.
  - HD Frame Rate Conversion utilizing ForA FRC7000 and FRC 8000 frame rate converters.
    - Cross Conversion utilizing Harris X75 converters.
- Digital MPEG2 AND MPEG 4 Compression is available utilizing Digicipher 2, Harmonic, Tandberg, Teirnan and Scientific Atlanta PowerVu equipment.

### **Voice / Data**

- Fully redundant and diverse fiber ring connectivity for local loops available.
  - Rack space available for customer CSU/DSU, routers, compression equipment, channel banks
  - Modem & equipment monitoring via ILC Maxview Earth Station Monitor and Control System
- Applications include internet traffic, voice and private WAN connections.

### **Fiber Connectivity**

- Connectivity to / from Azzurro, The Switch, Level 3 and Ascent. Direct fiber connectivity available from many metropolitan area locations.
- Diverse fiber carriers utilizing Verizon local and LD, Level 3, Lighttower and Qwest. GigE, OC3, DS3, T1, ASI, and IPVPN and public internet circuits available.

### **Facility Power**

- A 500 KVA Leibert Uninterruptible Power System (UPS) is in place along with backup battery protection. In the event of a loss of commercial power, the batteries will automatically power the station and a diesel generator will start. There is sufficient diesel fuel to run the generator and keep the station operating normal for 15 days.



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### **Facility Cooling**

- Eight redundant Carrier airhandling units cool the facility. These high performance systems are designed to be fully compatible with sensitive electronic equipment providing reliable control of room temperature.

### **Security**

- Security cameras offering 360degree view and 128Xzoom capability monitor the exterior and interior of the facility. A card access reader system is installed at the facility. These security cards are necessary to gain access through the parking lot gate and to all of the equipment rooms. Only authorized personnel are provided access to secured facilities.

### **Fire Detection**

- A Thorn Firequest smoke and heat detection system monitors the entire building for fire sensor alarms.

### **Monitor and Control System**

- A Maxview Earth Station Monitor and Control System (M&C) is installed and operating all equipment at the site. The M&C monitor all aspects of the facility with threshold set to switch protection facilities online in the event of a problem. The system also monitors environmental facilities to alert the staff to air conditioning and power anomalies.