

## **Generic Broadcast Video Service Definitions**

**Analog Video Service**, also known as Broadcast Video Service, provides for sending broadcast-quality signals to single or multiple points. Broadcast Video Service carries a standard NTSC (National Television Systems Committee), 525-line/60-field or PAL (Phase Alternate Line) 625-line/50-field color signal. Each one-way channel can transport a single video signal accompanied by multiple 15 or 20 kHz audio signals

### **Digital Video Services**

Digital Video Services (DVS) is a content transport service built on contemporary public communications network infrastructure. It is all digital, end-to-end, designed to transport digital television program content. It is targeted at television service applications in business, cable, satellite and terrestrial broadcasting. DVS interfaces to the television facility are compliant with SMPTE (Society of Motion Picture and Television Engineers), ISO-MPEG (International Standards Organization – Motion Picture Experts Group), ITU-R (International Telecommunications Union - Radio Communication Sector), ETSI (European Telecommunications Standards Institute) and AES/EBU (Audio Engineering Society / European Broadcast Union) standards in use in the Media Industry and ITU-T (ITU Telecommunication Standardization Sector) and ANSI (American National Standards Institute) standards used by international telecom service providers.

**19.39 Mbps** – provides a broadband transport service meeting digital video requirements for a one-way, 19.39 Mbps transmission of compressed high definition video signals that conform to SMPTE 310M and ATSC Standard A-53. SMPTE 310M defines a method of digitally transmitting the MPEG-2 transport stream with a transfer rate of 19.39 Mbps and is primarily used for DTV applications.

**45 Mbps** – provides one-way, 45 Mbps transport meeting Telcordia 45Mbps standards. This service may be used to transport DVB/ASI (Digital Video Broadcasting / Asynchronous Serial Interface), MPEG and other compressed video signals at less than 45 Mbps. In some areas a CODEC (coder/decoder) option is available.

**45 Mbps/CODEC** – provides a broadband transport service meeting digital video requirements for a one-way, 45 Mbps transmission of video signals that conforms to ANSI and NTSC standards. This service is provided with an electrical 45Mbps interface on one end with a CODEC at one end, or optionally at both ends, of the circuit. This service may also allow for up to six audio signals.

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**270 Mbps** – provides a broadband transport service meeting digital video requirements for a one-way 270 Mbps transmission of broadcast video signals that conform to ANSI/SMPTE Standard 259M-1993. This standard describes a serial digital interface, operating with 4:2:2 serial component signals. This service transports video with embedded audio or may embed up to four 20kHz AES/EBU digital audio signals. In some areas, this service may be offered with a CODEC option, embed additional data signals, or be capable of carrying DVB/ASI signals.

**MPEG Video Service** – provides a one-way broadband transport for video using MPEG 2 video compression standards. The service is capable of compressing video to a range of bandwidth from less than 2 Mbps up to 50 Mbps for MPEG professional-quality service offerings. The interface can be either a NTSC broadcast quality 525-line/60-field or 625-line/50-field color signal or a SDI interface conforming to SMPTE Standard 259M-C. The service may include up to four 20 kHz AES/EBU digital audio signals. The encoded signal is typically output to a 45Mbps TDM, 45Mbps ATM (Asynchronous Transfer Mode), or IP (Internet Protocol) network interface for transport.

**Other Video Services:**

**750MHz – Cable Distribution System** is a one-way distribution system of multiple 6MHz AM-VSB RF channels (for a total bandwidth of 750MHz) used primarily for CATV (Cable Television) providers.

**Multichannel Video Service** – provides a one-way digital transmission for multiple audio and video signals in either point-to-point or point-to-multipoint configurations. The service can transmit the maximum of one of the following video arrangements and associated audio: 16 NTSC broadcast video signals, 16 commercial-quality NTSC signals, 8 SDI 270 Mbps signals, 32 45Mbps signals or other video interface combinations up to a maximum 2.4 Gbps.

**Video Hubbing/Switching** – Video switch arrangements are provided at designated video hubs, which are located in Service Provider switching offices. **Customer Control** is associated with Video Hubbing/Switching. A separate data control channel is provided that allows the customer to remotely control the switching of input to one or more output ports.

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