ACCESS SERVICE

7. Special Access Service

7.2 Service Descriptions

7.2.5 Video Service

Video Services are real time media transport services that deliver high quality video images and multi-channel audio. There are two digital video transport offerings: Serial Component Video Service (SCVS), capable of delivering a digital signal up to 270Mbps, and High Definition Video Transport (HDVT), capable of delivering up to a 12 Gbps serial digital signal. (C) (C) (C) (C)

(A) Basic Channel Description

(1) Serial Component Video Service (SCVS)

SCVS is a broadcast industry standards based 270 Mbps digital video transport for the limited purpose of providing one-way transport of high quality digital video and audio signals. (T) (T)

The following standard formats are supported:

(a) Serial Digital Interface (SDI) – Society of Motion Picture and Television Engineers (SMPTE) 259M; Audio embedding of either four analog audio channels at 20 KHz or two AES-EBU digital audio channels is available from the Telephone Company. (T) (T)

(b) Serial Data Transport Interface (SDTI) SMPTE 305M; and (T)

(c) Digital Video Broadcasting-Asynchronous Serial Interface (DVB-ASI) – (DVB) Digital Video Broadcasting International Industry Consortium. (N) (N)

The customer is responsible for providing MPEG video program stream(s) into a transport stream (TS) and encapsulating this into a 270 Mbps DVB-Asynchronous Serial Interface format. (T) (T)

SVCS is available on a point-to-point basis, or between a customer premises and a Telephone Company Hub location, where available.

(2) High Definition Video Transport (HDVT)

HDVT provides one-way transmission of a serial digital video signal. HDVT is available on a point-to-point basis or between a customer designated premises and a Telephone Company Hub location, where available. (T) (T) (D)

The following standard formats are supported:

(a) Society of Motion Picture and Television Engineers (SMPTE) SMPTE-2036 (12 Gbps) as a Quadlink Interface SMPTE 425-5. This UHD service utilizes J2K line compression. (N)

(b) Institute of Electrical and Electronics Engineers (IEEE) Standard 802.3 10 Gbps;

(c) SMPTE 424M (2.97 Gbps); (N)

(d) SMPTE 292M (1.485 Gbps); (T)

(e) IEEE Standard 802.3 1 Gbps; (N)

(f) SMPTE 310M (19.39Mbps); (T)

(g) Serial Digital Interface (SDI)- Society of Motion Picture and Television Engineers (SMPTE 259M); (T)

(h) Serial Data Transport Interface (SDTI) SMPTE 305M; and (T)

(i) Digital Video Broadcasting-Asynchronous Serial Interface (DVB-ASI). (T)

The customer can transmit video signals using any of the standard formats listed above; the format should be specified by the customer at the time of order placement to ensure end-to-end signal compatibility. (C) (C)

HDVT will support the transport of digital video with or without embedded audio. Audio embedding or de-bedding is the customer responsibility.

HDVT is provided where facilities are available. Where facilities are not available, Special Construction charges may apply as specified in Part 1, Section 8 of this Guidebook.

(B) Optional Features and Functions

(1) Video Regenerator

Video Span Regenerators provide for the regeneration of the SCVS/HDVT service signal across AT&T fiber facilities. The use of span regenerators may be required when the facility loss budget exceeds signal specification, the use of span regenerators will be determined solely by AT&T. (C) (C)

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(M) Material previously appearing on this page now appears on page 2.0.1.

(B) Optional Features and Functions (Cont'd)

(2) Power Survivability (N)

Power Survivability provides SCVS and HDVT customers with a minimum of 15 minutes of AC uninterrupted power source (UPS) power to customer premises SCVS and HDVT video transport equipment in the event of a commercial AC power failure.

Power survivability is offered on a per customer location, Per SCVS or HDVT circuit basis.

The Telephone Company will determine the design and engineering requirements for Power Survivability for SCVS and HDVT customers. Power Survivability is subject to availability by location.

Customers are responsible for providing floor space for power equipment as set forth in Part 2, Section 2 of this Guidebook.

The addition of Power Survivability to existing service may result in temporary service interruption. (N)

(3) Interface Optical, Wavelength or Electrical Handoff Options SCVS, HDVT (T) (M)

(D)

These options are available with SCVS and HDVT. The service will either (i) originate as an electrical or optical standards-based SCVS, HDVT signal at one end, and terminate as an optical or electrical standards-based SCVS, HDVT signal at the other end; (ii) originate as an optical SCVS, HDVT signal at one end, and terminate as an electrical or standards-based SCVS or HDVT video signal at the other end; or (iii) originate as an electrical SCVS, HDVT signal at one end, and terminate as an optical standards-based SCVS or HDVT video signal at the other end. The available bandwidths for the Optical and Electrical handoffs and the rates payable therefore are listed in the Rates and Charges section (Section 7.5(b)). (C) (C) (M)

(M) Material now appearing on this page previously appeared on page 2.