SIN 323

Issue 1.6

July 2020

Suppliers' Information Note

For The BT Network

Switched Serial Digital Video (SDV)

and

Associated AES/EBU Digital Audio Circuit(s)

Service Description

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1 Introduction

This Suppliers Information Note (SIN) describes the BT switched Serial Digital Video service.

The switched Serial Digital Video product is implemented using the point to point service as described in SIN 320 [1]. Please refer to SIN 320 Serial Digital Video (SDV) and Associated AES/EBU Digital Audio Circuit(s) for information regarding the interface for this service.

2 Service outline

The BT Switched Serial Digital Video (SDV) service provides the transport of Serial Digital Component Video (SDCV) at 270 Mbit/s and generally[i] conforms with ITU-R Recommendations BT.601 [2] and 656 [3].

> *Studio equipment based on the component ITU-R BT.601 signal standard offers an increase in quality compared with analogue composite PAL systems. These systems are becoming the norm across a spectrum of users from post production to distribution for digital satellite and digital terrestrial. The BT Serial Digital Video, 140 Mbit/s service, therefore provides an increase in quality over the analogue composite PAL service. BT Serial Digital Video allows the transfer between broadcasters and their facility houses of video material in the digital studio format, preserving the quality.*

An SDV vision circuit has up to two nominal 20 kHz stereo circuits associated with it, each of which provides a single 20 kHz AES/EBU[ii] stereo audio interface (this service may be analogue/digitally presented at either or both ends). The provision of Multiple Analogue Stereo Sound circuits in association with SDV circuits is not available.

The switching service provides switching at 140 Mbit/s for those SDV customers who wish to connect with other SDV customers who have circuits accessible from the 140 Mbit/s switcher.

3 Service availability

Switched Serial Digital Video (SDV) is no longer available for new supply.

Switched Serial Digital Video (SDV) Circuits were available on a point to switch basis within the UK. This product was available either as a new provision or as a migration from existing Analogue Presented PAL Vision Circuits with associated Sound Circuits.

The switched version was available to originate or terminate on existing 140 Mbit/s digital switches; vision and sound are always switched together.

The switched service was subject to availability.

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[i] Due to the need for compression to package the audio and video within the telecommunications channel there are some limitations of use. Please consult BT Broadcast Services to discuss the suitability for specific applications.

[ii] As note above

4 Switching

Switching of circuits is achieved by making bookings with the "Switching Booking Service" who are contactable on 0800 672855.

It is necessary to have the permission of the renter of circuit(s) prior to connecting circuits together. Providing these permissions are in place to connect to the desired circuits, the Switching Booking Service can provide the desired connections.

Details regarding the permissions and timeliness of the switching are available from either the Marketing Team on 00800 28 27 28 27, or "Switching Booking Service" on 0800 672855.

5 Technical specification and Information

The switched Serial Digital Video product has the same customer interface as described in SIN 320 which describes the point to point service.

Please refer to SIN 320 Serial Digital Video (SDV) and Associated AES/EBU Digital Audio Circuit(s) for technical information of this service interface.

6 Further information

For further information please go to: http://www.mediaandbroadcast.bt.com/contact-us/

If you have enquiries relating to this document then please email: sinet.helpdesk@bt.com

7 Glossary

AES	Audio Engineering Society
CCIR	International Consultative Committee for Radio. Now known as ITU-R
EBU	European Broadcasting Union
ITU-R	International Telecommunications Union - Radio standardisation section (formerly CCIR)
PAL	Phase Alternate Line
SIN	Suppliers' Information Note

8 References

[1]	SIN 320	Serial Digital Video (SDV) and Associated AES/EBU Digital Audio Circuit(s) - Service Description.
[2]	ITU-R Recommendation BT.601	Studio encoding parameters of digital television for standard 4:3 and wide-screen 16:9 aspect ratios.
[3]	ITU-R Recommendation BT.656	Interfaces for digital component video signals in 525-line and 625-line television systems operating at the 4:2:2 level of Recommendation ITU-R BT.601 (Part A).

9 History

Issue 1	18 November 1998	First Issued
Issue 1.1	September 2001	Editorial Format Changes Only
Issue 1.2	October 2003	Audio updated to reflect addition of 2 AES option / References updated / Section 6 'Further information' details updated / Approval Requirements statement removed, information available via SINet Useful Contacts page
Issue 1.3	9 May 2008	Inserted new references for further information
Issue 1.4	1 June 2012	Service Availability amended
Issue 1.5	July 2015	Change SINet site references from http://www.sinet.bt.com to http://www.btplc.com/sinet/ Change to contact for further information
Issue 1.6	July 2020	Change SINet site references from http://www.btplc.com/sinet/ to https://www.bt.com/about/sinet

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