SIN 266

Issue 1.5
June 2015

Suppliers' Information Note

For The BT Network

Analogue Presented Vision Circuits
PAL System I Video Standard
SERVICE DESCRIPTION

This document does not form a part of any contract with BT customers or suppliers.

Users of this document should not rely solely on the information in this document, but should carry out their own tests to satisfy themselves that terminal equipment will work with the BT network.

BT reserves the right to amend or replace any or all of the information in this document.

BT shall have no liability in contract, tort or otherwise for any loss or damage, howsoever arising from use of, or reliance upon, the information in this document by any person.

Due to technological limitations a very small percentage of customer interfaces may not comply with some of the individual characteristics which may be defined in this document.

Publication of this Suppliers' Information Note does not give or imply any licence to any intellectual property rights belonging to British Telecommunications plc or others. It is your sole responsibility to obtain any licences, permissions or consents which may be necessary if you choose to act on the information supplied in the SIN.

This SIN is available in Portable Document Format (pdf) from: http://www.btplc.com/sinet/

Enquiries relating to this document should be directed to: sinet.helpdesk@bt.com

CONTENTS

1. Introduction

This Suppliers' Information Note (SIN) describes the PAL System I (ITU-R Report BT.624 [1]) interface used for BT's analogue presented vision circuits, and provides technical information for terminal equipment manufacturers, suppliers and developers.

2. Service outline

BT's analogue presented vision circuits have a PAL System I video standard interface and are designed for the point to point transmission of unidirectional broadcast quality vision signals along with their associated audio, teletext and data signals. Separate sound circuits can additionally be provided.

3. Service availability

PAL is no longer available for new supply.

The basic service provides a unidirectional circuit based on the 625 line monochrome/colour PAL System I [1] video standard television signal transmission parameters. The transmission of certain other signals including sound-in-sync, teletext and insertion test signals as part of the video signal can be agreed at the time of contract.

4. Technical specification

4.1 Interface presentation

The Network Terminating Equipment (NTE) provides the following interfaces which form the Network Termination Point (NTP):

Interfaces at the NTE	Electrical presentation	Physical presentation
Video	625/50 PAL system I (ITU-R Report BT.624 [1]) Bandwidth 5.5 MHz	Customer connection - 75 ohm BNC (industry standard coaxial connector) Test access - 75 ohm Musa "U" link (industry standard coaxial connector)

Table 1

Video circuits are presented at the NTE utilising a patch panel. This provides customer cable connections at the rear and removable U links at the front providing test access as described in Table 1.

4.2 Network Terminating Equipment (NTE) Power Requirements

The following power requirement options are available for the NTE:

- For Standard installations the NTE is mains powered. If this option is chosen, it will require a customer supplied mains a.c. power source close to the installation.
- The NTE may be powered from a -20 to -50 V d.c. nominal supply. As power supplies can vary slightly in output voltage and characteristics, the NTE will function with customer provided power supplies which conform to the latest issue of British Telecommunications Network Requirements (BTNR) 2511 [2]. Please consult BT regarding the availability of this option.

Note. *Customer provided power supplies for connection to this service shall conform with relevant safety standards.*

5. 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

6. References

ITU-R Publications (formerly CCIR)

[1]	ITU-R Report BT.624	Characteristics of television systems.

British Telecommunications Network Requirements

[2]	BTNR 2511	Interface of telecommunications equipment with a nominal 48 volt negative dc power supply.

For further information or copies of referenced sources, please see document sources at http://www.btplc.com/sinet/

7. Glossary

625/50	625 lines 50 frames per second video - the European standard
BTNR	British Telecommunications Network Requirements
CCIR	International Consultative Committee for Radio. Now known as ITU-R
ITU-R	International Telecommunications Union - Radio standardisation section (formerly CCIR)
Musa	Industry standard broadcast coaxial connector
NTE	Network Terminating Equipment
NTP	Network Termination Point
PAL	Phase Alternate Line
SIN	Suppliers Information Note

8. History

Issue 1	November 1996
Issue 1.1	October 2000
Issue 1.2	October 2003 – Power options revised / Phono connector references removed / Approval Requirements statement removed, information available via SINet Useful Contacts page / References updated
Issue 1.3	9 May 2008 – Inserted new references for further information
Issue 1.4	1 June 2012 -Service Availability amended
Issue 1.5	June 2015 - Change SINet site references from http://www.sinet.bt.com to http://www.btplc.com/sinet/ Changes to link for additional information

-END-