



SIN 251

Issue 1.11

September 2024

Suppliers' Information Note

For The BT Network

Private Circuit Services Evolving Network Modernisation And Its Effect On Analogue Private Circuits Technical Information For Suppliers

Each SIN is the copyright of British Telecommunications plc. Reproduction of the SIN is permitted only in its entirety, to disseminate information on the BT Network within your organisation. You must not edit or amend any SIN or reproduce extracts. You must not remove BT trade marks, notices, headings or copyright markings.

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: <https://www.bt.com/about/sinet>

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

CONTENTS

1. INTRODUCTION.....	3
2. CORE NETWORK.....	3
2.1 NEW 2-WIRE & 4-WIRE CIRCUITS	3
2.2 EXISTING CIRCUITS [2-WIRE & 4-WIRE]	3
2.2.1 With a main link over 15 kilometres in length	3
2.2.2 With a main link of 15 kilometres or less in length.....	3
2.3 020 7 DIAL CODE AREA (CENTRAL LONDON ZONE (CLZ))	4
3. ACCESS NETWORK [INCLUDING THOSE WITHIN THE 020 7 DIAL CODE AREA].....	4
3.1 NEW:.....	4
3.2 EXISTING:.....	4
4. GLOSSARY.....	5
5. HISTORY	5

1. INTRODUCTION

In 1990 BT restricted the availability of d.c. paths, and therefore its private circuit products that support d.c. path functionality, to the [local] access network. At the same time BT also reclassified Baseband and the services that support automatic d.c. signalling as “own exchange” products (“Own exchange” means the area served by a particular exchange building).

This SIN establishes the current status of, and BT's current thinking for, the core and access networks and as a consequence the future availability of BT's d.c. based private circuit products.

2. CORE NETWORK

The current routing and design of circuits within the core network, i.e. the network of cables and transmission systems that link exchange buildings, is generally determined by the age of the circuit and when it was installed or upgraded.

2.1 New 2-wire & 4-wire circuits

All remaining indirectly wired analogue private circuit products i.e. those routed over BT infrastructure, were withdrawn from new supply on 1st September 2016, and from service completely at the end of March 2020. Reasonable endeavours maintenance support will continue to be provided on existing installations contracted under Emergency Overrun Service extension (EOS extension) terms and conditions, and where technically possible and commercially realistic to do so until circuits are either ceased or withdrawn from the EOS service limited extension completely at the end of March 2025.

2.2 Existing circuits [2-wire & 4-wire]

2.2.1 With a main link over 15 kilometres in length

In September 1993 BT ceased re-routing existing circuits over the FDM (Frequency Division Multiplex) network. At the same time, BT also embarked upon a programme to proactively upgrade existing private circuits from the FDM network to the DPCN. Consequently the vast majority of these circuits are now routed over the DPCN.

2.2.2 With a main link of 15 kilometres or less in length

BT will continue to support the installed circuit base including those with end to end d.c. path functionality provided before 1990. However, where BT has an operational need to replace high liability high maintenance cost copper cables and/or introduce a programme to proactively move the core network onto the DPCN, the means of support may change.

In these situations customers wishing to retain d.c. path functionality for either manual or automatic signalling purposes may need to consider the accommodation of d.c./AC15 signalling converters in customer premises.

In the unlikely situation that a cable replacement affects a Baseband data circuit, the customer will be advised to upgrade to an alternative product or service to suit their needs.

2.3 020 7 dial code area (Central London Zone (CLZ))¹

Because of the preponderance of copper cable and the special nature of the cable network within the City of London, BT continues to support existing installations of d.c. paths within the 020 7 dial code area including, where local conditions allow, circuits where the two local ends are served by different but geographically very close and copper connected exchanges).

However all remaining indirectly wired analogue private circuit products i.e. those routed over BT infrastructure, were withdrawn from new supply on 1st September 2016, meaning BT cannot facilitate the rearrangement of any of these circuit types including existing d.c. based private circuits.

(Rearrangement is a term used within BT to mean that a customer relocating within the same “city” and/or its environs, will require his circuit to be moved from one exchange building area to another exchange building area).

BT will continue to support the installed circuit base contracted under Emergency Overrun Service extension (EOS extension) terms and conditions, and where technically possible and commercially realistic to do so until circuits are either ceased or withdrawn from the EOS service limited extension completely at the end of March 2025, subject to the provisos outlined in Section 2.2.2.

3. ACCESS NETWORK [including those within the 020 7 dial code area]

The status of a d.c. circuit within the access network, i.e. where it is wholly routed within the same exchange building area, is largely unchanged. Other than certain operational needs, e.g. to replace a damaged cable, and a limited copper to fibre upgrade programme, BT does not have immediate plans for wholesale modernisation of the access networks.

3.1 NEW:

All remaining indirectly wired analogue private circuit products i.e. those routed over BT infrastructure, were withdrawn from new supply on 1st September 2016, and from service completely at the end of March 2020. Reasonable endeavours maintenance support will continue to be provided on existing installations contracted under Emergency Overrun Service extension (EOS extension) terms and conditions, and where technically possible and commercially realistic to do so until circuits are either ceased or withdrawn from the EOS service limited extension completely at the end of March 2025.

The continued availability of d.c. paths remains restricted by the ongoing and future availability of suitable copper line plant and the technical requirements of customer's end terminal equipment.

For Baseband, the additional and overriding maxim is the continued availability of a suitable and continuous unloaded copper *cable* route between the two customer premises.

3.2 EXISTING:

¹ Enquiries relating to whether a customer premises falls within the 020 7 dial code area (CLZ) should be directed to the BT Private Circuit Helpdesk: 0800 800 977.

Subject to the same caveats as detailed in Section 2.2.2 for the existing circuit base with main links under 15 kilometres, BT will continue to support own exchange d.c. circuits.

4. GLOSSARY

CLZ	Central London Zone
DPCN	Digital Private Circuit Network
FDM	Frequency Division Multiplex
SIN	Suppliers' Information Note

5. HISTORY

Issue 1.0	March 1995	First issued
Issue 1.1	April 2001	Issued in revised format. Content not updated.
Issue 1.2	April 2002	Content review.
Issue 1.3	March 2003	Clause 2.4, text added to clarify Baseband provision policy in CLZ.
Issue 1.4	May 2004	Footnote 1 added – CLZ queries to be directed to the BT Private Circuit Helpdesk
Issue 1.5	July 2013	Content review with revision to routing and design approach for new inter-exchange circuits
Issue 1.6	August 2014	Textual clarifications including reference to the copper to fibre upgrade programme in the access network Change SINet site references from http://www.sinet.bt.com to http://www.btplc.com/sinet/
Issue 1.7	January 2016	Notes added about the timeframes for the withdrawal from new supply and subsequent final closure of the remaining analogue private circuit products.
Issue 1.8	May 2018	Textual clarifications following the withdrawal of all analogue services from new supply.
Issue 1.9	September 2020	Additional minor phrasing changes in availability text. Change SINet site references from http://www.btplc.com/sinet/ to https://www.bt.com/about/sinet
Issue 1.10	September 2023	Minor editorial changes to the note on withdrawal. Reasonable endaeavours maintenance on Emergency Overrun Service extension until end of March 2024. BT registered address changed to One Braham
Issue 1.11	September 2024	Minor editorial changes as EoS extension has a further limited extension until end of March 2025

-END-

