SIN 312

Issue 1.11
April 2015

Suppliers' Information Note

For The BT Network

BT ISDN SERVICES
OVERVIEW

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: http://www.btplc.com/sinet/

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

CONTENTS

1. <u>INTRODUCTION</u>

1.1 BT launched an ISDN service some years prior to the completion of the European ISDN standards published by the European Telecommunications Standards Institute (ETSI) using a mixture of international and BT customised signalling standards. Subsequently the BT ISDN service has been enhanced to become fully compliant with the ETSI Standards. The benefits of an ISDN service compliant to the ETSI standards are:

- Pan-European Service
- An increased choice and European wide availability of CPE
- Future proofing the customer's service
- Additional Digital Calling Features.

NOTE: From 1st September 1999, all supplementary services provided on BT's ISDN Services were re-branded as "Digital Select Services". Following a subsequent re-branding exercise these services are now called Digital Calling Features.

1.2 A number of ISDN related SINs have been published since BT launched its first ISDN service and the purpose of this SIN is to provide an overview of BT's ISDN services and index the SINs related to them. An overview of the ISDN related SINs in tabular form is given in Annex A.

2. <u>BT ISDN SERVICES CURRENTLY AVAILABLE</u>

The ISDN 2 and ISDN 30 Services currently offered by BT are supported on two network platforms, the *limited ETSI call control* platform and the *full ETSI call control* platform.

2.1 ISDN SERVICES ON THE *LIMITED ETSI CALL CONTROL* PLATFORM

The *limited ETSI call control* platform was designed and implemented prior to the completion of the European ISDN standards published by the European Telecommunications Standards Institute (ETSI). This network platform uses call control aligned with the existing implementation and as a consequence, the platform has restricted the capability to evolve to support the full range of ISDN Services as defined by ETSI.

The ISDN services supported on the *limited ETSI call control* network platform are:
- BT ISDN 2 Service as defined in SIN 171 [1]
- BT ISDN 30 (DASS) Service as defined in SIN 222 [2]
- BT ISDN 30 (I.421) Service as defined in SIN 232 [3].

BT currently has no plans to enhance the BT ISDN services provided on the *limited ETSI call control* platform. Any changes to these services will either be published in a new issue of the appropriate SIN above or else as a new SIN.

2.2	ISDN SERVICES ON THE *FULL ETSI CALL CONTROL* PLATFORM

The BT Euro-ISDN network platform which uses call control procedures fully aligned with the ISDN architecture as defined by the European (i.e. ETSI) standards is referred to as the *full ETSI call control* network platform.

2.2.1   Circuit Switched Services

The ISDN circuit switched services supported on the *full ETSI call control* network platform are:
- BT ISDN 2e Service as defined in SIN 261 [4] and SIN 368 [9]
- BT ISDN 30e Service as defined in SIN 261 [4] and SIN 368 [9]

Note 1: The term ISDN 2 is the BT name for the ISDN basic access service provided on the *limited ETSI call control* network platform (SIN171).
The term ISDN 2e is the BT name for its ISDN basic service supported on the *full ETSI call control* network platform (SIN 261).

Note 2: The term ISDN 30 (I.421) is the brand name for the BT ISDN primary rate access service defined in SIN 232 provided on the *limited ETSI call control* network platform. The term ISDN 30e is the BT name for its ISDN 30 (I.421) primary rate access service supported on the *full ETSI call control* network platform (SIN 261).

3.   SERVICE AVAILABILITY

3.1	For details of BT ISDN 2e and ISDN 30e Services supported on the BT *full ETSI call control* network platform see SIN 261.

3.2	All new provision of ISDN basic and primary rate access services offering the ETSI customer-network interface will be on the *full ETSI call control* network platform.

- ISDN Basic Access: all new provision of ISDN basic access services will be on the *full ETSI call control* network platform ie will be the ISDN 2e service. This includes additional accesses to existing ISDN 2 hunt groups where the existing accesses have previously been provided on the *limited ETSI call control* network platform. Therefore since ISDN 2 and ISDN 2e cannot (for technical reasons) be provided as part of the same hunt group, if an existing ISDN 2 hunt group needs additional channels then the whole hunt group installation will need to be upgraded to ISDN 2e. (Note: DDI on ISDN 2e is only provided on T reference point configured lines as opposed to ISDN 2 which only support combined S/T reference point).
- ISDN Primary Rate: all new provision of ETSI ISDN primary rate services will be on the *full ETSI call control* network platform ie will be the ISDN 30e service. Additions to existing ISDN 30 (I.421) service previously provided on the *limited ETSI call control* network platform may be supported but as previously announced in SIN 232, BT is now in the process of withdrawing ISDN 30 (I.421).

Note: ISDN 30 (I.421) access supported on the *limited ETSI call control* and ISDN 30e supported on the *full ETSI call control* network platform cannot (for technical reasons) be provided as part of the same hunt group.

Provision of ISDN 30 (DASS) services will be continued.

3.3   BT is now in the process of withdrawing BT ISDN 2 and ISDN 30 (I.421) Services supported on the *limited ETSI call control* network platform (as previously announced in SINs 171 and 232 respectively).

3.4   Customers on the BT ISDN 30 (DASS) Service will not be moved onto the ISDN 30e service supported on the BT *full ETSI call control* network platform unless the customer requests such a move. BT has no plans to enhance the ISDN 30 (DASS) service. The BT ISDN 30 (DASS) Service will continue to be supported on the BT 21CN network platform.

4.   <u>INDEX TO BT ISDN RELATED SINs</u>

This section lists all SINs currently available that are related to BT s ISDN services. SINs are available from http://www.btplc.com/sinet/

SINs applicable to ISDN Services on the *Limited ETSI Call Control* Platform

SIN 171 [1]   BT ISDN 2 National Service using limited ETSI call control - Service Description

SIN 256   BT ISDN 2 Service - Evolution to European Standard (ETSI) ISDN - Changes to an existing network service. Now withdrawn (information incorporated into SIN 171 Issue 8 and later)

SIN 222 [2]   BT ISDN 30 (DASS) Service - Service Description

SIN 232 [3]   BT ISDN 30 (I421) National Service using limited ETSI call control - Service Description

SINs applicable to ISDN Services on the *Full ETSI Call Control* Platform

SIN 261 [4]   BT ISDN 2e and ISDN 30e National Service using full ETSI call control - Service Description

SIN 368 [9]   Index of Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e Customer Interfaces

SIN 369 [10]   Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e: Basic Call Control and Basic Services

SIN 370 [11]   Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e: Digital Select Services

SIN 277   Impact on Terminal Equipment of changes to the dialled digit numbering in the public PSTN and ISDN. Now withdrawn and relevant ISDN information incorporated into Annex C of SIN 261, Issue 5.3 and later

SINs applicable to ISDN Services on both *Limited ETSI Call Control* and *Full ETSI Call Control* Platforms

SIN 243 [6]   ISDN International Interworking
SIN 312   BT ISDN Services Overview (i.e. this document)

5.   <u>FUTURE DEVELOPMENTS</u>

This document will be updated to reflect any enhancements or changes to the ISDN services offered by BT.

6.   <u>CONTACT POINTS</u>

Contacts for further information about the BT ISDN service can be found at
http://www.btplc.com/sinet/

If you have questions relating to this document then please contact sinet.helpdesk@bt.com

7.   <u>REFERENCES</u>

Ref. No.	Document Number	Title
1	SIN 171	BT ISDN 2 National Service using limited ETSI call control - Service Description
2	SIN 222	BT ISDN 30 (DASS) Service - Service Description
3	SIN 232	BT ISDN 30 (I.421) National Service using limited ETSI call control - Service Description
4	SIN 261	BT ISDN 2e and ISDN 30e National Service using full ETSI call control - Service Description
5	Intentionally left blank	
6	SIN 243	ISDN International Interworking
7	Intentionally left blank	
8	SIN 367	Characteristics of the BT Network: Electrical Safety and EMC
9	SIN 368	Index of Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e Customer Interfaces
10	SIN 369	Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e: Basic Call Control and Basic Services
11	SIN 370	Protocol Implementation Conformance Statements (PICS) for ISDN 2e and ISDN 30e: Digital Select Services

SINs are available as .pdf (portable document format) files from the WWW site at
http://www.btplc.com/sinet/

8. GLOSSARY

CPE   - Customer Premises Equipment
DASS   - Digital Access Signalling System
ETSI   - European Telecommunications Standards Institute
ISDN   - Integrated Services Digital Network
PICS   - Protocol Implementation Conformance Statement
PSTN   - Public Switched Telephone Network
SIN   - Suppliers' Information Note

9. HISTORY

Issue 1	June 1998
Issue 1.1	January 1999
Issue 1.2	December 1999
Issue 1.3	November 2000
Issue 1.4	November 2001
Issue 1.5	December 2003
Issue 1.6	July 2004
Issue 1.7	September 2006
Issue 1.8	July 2007
Issue 1.9	May 2008
Issue 1.10	January 2009
Issue 1.11	April 2015 (Change SINet site references from http://www.sinet.bt.com to http://www.btplc.com/sinet/)

ANNEX A - SUMMARY OF SINS RELATING TO BT ISDN SERVICES

Overview of ISDN SINs [this SIN] (SIN 312)					
Limited ETSI Call Control			*Full ETSI Call Control*		**General**
ISDN 2	ISDN 30 (DASS)	ISDN 30 (I.421)	ISDN 2e	ISDN 30e	
SIN 171 [1]	SIN 222 [2]	SIN 232 [3]	SIN 261 [4]		SIN 243 [6] (International Interworking)
			SIN 368 [9] (PICS Overview) SIN 369 [10] (Basic Call Control PICS) SIN 370 [11] (Digital Calling Features PICS)		

- Note: Only SINs contain information relating specifically to the ISDN are listed above. There are other SINs that are relevant to switched services be they on PSTN or ISDN e.g.: SIN 367 [8] (Characteristics of the BT Network: Electrical Safety and EMC),

- End of Annex A -

ANNEX B - DIFFERENCES COMPARED TO PREVIOUS ISSUE OF SIN 312

This Annex provides a brief description of the major changes between this issue (1.10) of Suppliers Information Note 312 and the previous issue (1.9). Please refer to the main body of the document for full descriptions of each topic, particularly as a number of editorial changes have also been made throughout this issue of the document.

DESCRIPTION	REF. SECTION
SIN updated to take account of removal of SINs 225, and 275 following previous notification of the withdrawal of the ISDN services defined in those SINs.	Throughout

Table A.1 - List of major changes from previous issue of SIN 312

- End of Annex B -