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Suppliers' Information Note

For The BT Network

BT International MegaStream[®] 34 Service Description

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1. Introduction

This Suppliers' Information Note (SIN) describes the BT International MegaStream[®]34 Service and provides technical information for terminal equipment (TE) manufacturers and suppliers.

2. Service Outline

The BT International MegaStream[®]34 Service provides an international high capacity digital service conforming to European Standards ETS 300 686^[1] and ETS 300 687^[2] operating at 34.368Mbit/s. The Service is presented to the customer via an ITU-T Recommendation (CCITT) G.703^[3] interface using the High Density Bipolar 3 (HDB3) line code.

Note. Where the distant or intermediate international PTO does not comply with all the relevant ETSI standards, the service will comply with the ITU-T recommendations as per correspondent agreement.

3. Service Availability

This service is available where network capacity exists and correspondent agreement exists with other international PTOs.

For “sales and marketing” information about this service please telephone the International Bandwidth Team on 01277 326788/01977 596622.

4. Technical Specification

4.1 Interface

The BT International MegaStream[®]34 service conforms to European Telecommunication Standard (ETS) 300 686^[1] supporting the following options:

- D34U offering (unstructured)
- Timing is the responsibility of the user
- The connection offered by BT conforms to clause 4.1b of ETS 300 686^[1] (75 Ω BNC option)

Note. The current BT offering is unstructured and therefore manufacturers may use their own data structuring method. BT recommend that the strategy of ETS 300 686^[1] is used as this will align with future BT offerings.

4.2 Connection Characteristics

The BT International MegaStream[®] 34 service conforms to ETS 300 687^[2] supporting the following option:

- D34U offering (unstructured)

Note. The current BT offering is unstructured and therefore manufacturers may use their own data structuring method. BT recommend that the strategy of ETS 300 687^[2] is used as this will align with future BT offerings.

4.3 Network Terminating Equipment (NTE) Power

The NTE requires a -50Volt power feed and consumes between 125 and 300 Watts of power, dependant on the customer option. This -50Volt supply can be supplied by BT, or a customer provided power supply can be used (see note). A customer supplied mains power source will be required close to the installation to operate the BT -50V power supply.

Where the NTE is powered by a customer provided -50Volts, the NTE will be supplied with a connection lead which will be presented as wires only. As power supplies can vary slightly in output voltage and characteristics, the NTE will function with customer provided power supplies which are in accordance with the British Telecom Network Requirement (BTNR) 2511^[4].

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

5. Service Maintenance

There are no mandatory maintenance facilities associated with this service.

6. Further Information Contact Point

For “sales and marketing” information about this service please telephone the International Bandwidth Team on 01277 326788/01977 596622.

Alternatively please contact either:

- Your Company’s BT account manager
- For personal customers, BT sales on 0800 800150 for product and service information, sales and rental enquiries.
- For business customers, BT sales on 0800 800152 for product and service information, sales and rental enquiries.

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

7. References

European Standards:

[1]	ETS 300 686	34 Mbit/s and 140 Mbit/s digital leased lines (D34U, D34S, D140U and D140S); Network interface presentation.	January 1996
[2]	ETS 300 687	34 Mbit/s digital leased lines (D34U and D34S); Connection characteristics.	January 1996

CCITT Recommendation:

[3]	G.703	Physical/Electrical characteristics of hierarchical digital interfaces.	1991
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British Telecommunications Network Requirements (BTNR):

[4]	BTNR 2511	Interface of telecomms equipment with a nominal 48v negative dc power supply.	Latest Issue
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For further information or copies of referenced sources, please see document sources at <http://www.sinet.bt.com/usenum.htm#docsources>

8. Abbreviations

BNC	Bayonet Nut Connector
BTNR	British Telecom Network Requirement
CCITT	Now known as ITU-T
CTR	Common Technical Regulation
ETS	European Telecommunication Standard
ETSI	European Telecommunications Standards Institute
HDB3	High Density Bipolar 3
ITU-T	International Telecommunications Union For Telecommunications (formerly CCITT)
NTE	Network Terminating Equipment
PTO	Public Telecommunication Operator
SIN	Suppliers' Information Note
TE	Terminal Equipment

9. History

Issue 1	April 1996	
Issue 1.1	October 2000	
Issue 1.2	April 2002	Editorial changes
Issue 1.3	May 2003	Approval Requirements statement removed, information available via SINet Useful Contacts page.

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