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Suppliers' Information Note

For The BT Network

BT MegaStream 34 and MegaStream Aggregate Service Description

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1. Introduction

This Suppliers' Information Note (SIN) describes the BT MegaStream 34 and MegaStream 34 Aggregate services and provides technical information for terminal equipment (TE) manufacturers and suppliers.

Note: Whilst still supported for existing customers, MegaStream 34 Aggregate services have been withdrawn for new sale. In addition, external shifts are no longer available.

2. Service Outline

BT MegaStream 34 is an inland point to point or aggregate (MegaStream 34 Aggregate) leased high speed digital service operating at 34,368kbit/s and is presented to the customer via an ITU-T Recommendation G.703^[1] interface.

The user network interface is located at the connectors on the BT network Terminating Equipment (NTE). These connectors are 75 ohm BNC, one for each direction of transmission, with the sockets being used on the BT side of the interface and plugs on the customer side. The physical dimensions required for BNC connector compatibility are specified in figure 2 of BS 9210 N0001:Part 2:1982^[2]

2.1 MegaStream 34

The service will support either a frame structure in accordance with ITU-T Recommendation G.751^[3] or an unstructured signal. It is, however, recommended that a frame structure in accordance with ITU-T Recommendation G.751 is used.

2.2 MegaStream 34 Aggregate

The 34Mbit/s Aggregate Interface will allow up to 16 x 2Mbit/s signals (comprising any mix of a customer's MegaStream2, MegaStream Genus 2, or KiloStream Aggregate services) to be aggregated together and terminated on a single Customer interface at 34Mbit/s.

The aggregate interface presents a 34Mbit/s signal in accordance with ITU-T Recommendations G.742^[4] & G.751^[3]. These standards describe the multiplexing and framing structure based on the PDH 2, 8, and 34Mbit/s hierarchy.

3. Further Information Contact Point

For "sales and marketing" information about this service please telephone BT Business Sales on 0800 800152. Alternatively please contact your Company's BT account manager.

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

4. References

[1]	ITU-T Recommendation G.703 - Physical/Electrical Characteristics of Hierarchical Digital Interfaces.
[2]	British Standard BS 9210:N0001 - Electronic Components of accessed quality: Radio Frequency connector type BNC, sealed, soldered, captive contact 50ohm. Part 2 : Issue 2 Control drawings, mating face details and gauge information.
[3]	ITU-T Recommendation G.751 - Digital multiplex equipment operating at the third order bit rate of 34 368 kbit/s and the fourth order bit rate of 139 264 kbit/s and using positive justification.
[4]	ITU-T Recommendation G.742 - Second order digital multiplex equipment operating at 8448 kbit/s and using positive justification.

For further information or copies of referenced sources, please see document sources at <http://www.sinet.bt.com/usenum.htm#docsources>

5. Glossary

BNC	Bayonet-Neill-Concelman
CCITT	The International Telegraph and Telephony Consultative Committee (Former name of ITU-T)
ITU-T	International Telecommunications Union for Telecommunications
NTE	Network Terminating Equipment
PDH	Plesiochronous Digital Hierarchy
SIN	Suppliers' Information Note
TE	Terminal Equipment

6. History

Issue 1	January 1996	First Issued..
Issue 2	February 1997	Includes aggregate interface.
Issue 2.1	April 2001	Editorial changes.
Issue 2.2	January 2003	Approval Requirements statement removed, information available via SINet Useful Contacts page. Document re-formatted, Glossary added, section numbering revised.
Issue 2.3	February 2008	Amended in order to note that MegaStream 34 Aggregate services have been withdrawn from new sale.

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