

Ref:	NR/L2/TEL/31108
Issue:	Issue 3
Date:	6 March 2010
Compliance date:	6 March 2010



Level 2

Specification for BT Circuits - Procurement Requirements

Endorsement and Authorisation

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Published and Issued by Network Rail, Kings Place, 90 York Way, London. N1 9AG.

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Issue record

Issue Date

Comments

- | | | |
|---|-------------|--|
| 1 | June 2007 | Original |
| 2 | August 2008 | Updated to reflect Phase 2A reorganisation.
Instruction regarding marking safety critical circuits added. |
| 3 | March 2010 | Updated to reflect Engineering reorganisation |

Reference documentation

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 6 March 2010.

When this standard is implemented, it is permissible for all projects that have formally completed GRIP Stage 4 to continue to comply with the Issue of any relevant Network Rail Standards current when GRIP Stage 4 was reached and not to comply with requirements contained herein, unless the designated Standard Owner has stipulated otherwise in the accompanying Briefing Note.

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1 Purpose

This standard defines the requirements to be used when BT circuits are procured by Network Rail for use in signalling, operational telecommunications or traction electrification control systems.

2 Scope

This standard applies to the procurement of all BT circuits for use by Network Rail in signalling, operational telecommunications or electrification traction control systems.

3 Definitions

BT

British Telecom

NTU

Network Terminating Unit

4 Requirements

4.1

When there is a requirement to use a BT circuit for operational purposes the circuit to be ordered shall be selected in accordance with the following tables shown in Tables 1 & 2.

4.2

When there is a requirement to use a BT circuit for operational purposes other than those listed in Tables 1 & 2 advice shall be sought from the Senior Technology Engineer (Transmission & IP).

4.3

When there is a requirement to use a BT digital circuit for operational purposes, for bandwidths higher than 2Mbit/s, then the requirements shall be:

1. Agreed with the Senior Technology Engineer (Transmission & IP), or;
2. In accordance with FTN documentation.

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4.4

Notes with respect to diversity are included and provide requirements that shall be considered to deliver a cost effective, acceptable, solution to Network Rail, when diversity within the BT network is required.

4.5

When BT circuits are used for the Transmission of Safety Related information the requirements of Railway Group Standard GK/RT0105 also apply.

4.6

When BT circuits are used as safety critical circuits the BT circuit order shall include a requirement to identify and mark the circuit ends and the relevant allocation records.

4.7

In order to facilitate acceptance of annual rental charges any order for the provision of BT circuits shall be countersigned by the Telecoms Maintenance Engineer for the relevant area.

4.8

Advice concerning the following shall be sought from the Senior Technology Engineer (Transmission & IP):

- a) 21CN (Twenty First Century Network) circuits offered by BT;
- b) other circuit requirements.

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Table 1: Network Rail Circuit Applications: Procurement of appropriate BT Services.

Where non-voice services are carried on infrastructure owned by an independent supplier then the requirements of GK/RT 0105 shall be complied with

Network Rail Application	Provision Requirements	Diversity Requirements	Network Rail Circuit Type
NRN / ORN and RETB land line circuits (includes TCO / ECR to MCU / OCU racks)	Total care option shall be specified to BT if the NRN/ORN base station has no overlap coverage on same channel. Where overlap coverage on same channel has been provided then BT bearer circuits to overlapping base stations shall be diverse. Total care shall be provided if application is for TCO or ECR emergency telephone circuits.	Diversity within BT Network not required.	ALOG1
		Diversity within BT Network required.	ALOG3