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Business Process Document

Telecoms Network Terminating Points (formerly RT/E/S/30035)

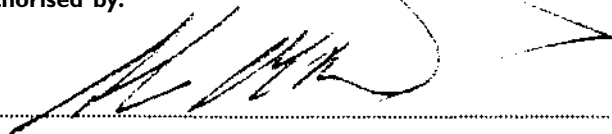
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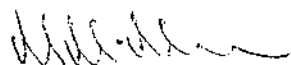
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Issue record

Issue	Date	Comments
1	June 2003	Original Issue
2	Dec 2005	Updated to new template

Implementation

This specification shall be implemented from 3rd December 2005

Compliance

This Network Rail Specification is mandatory and must be complied with by Network Rail and its Contractors from 1st January 2006.

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

Where the Head of Telecoms Engineering has specified that all projects will comply with the requirements, specific authority not to comply can be sought in the usual manner using the appropriate non-compliance authority processes described in Network Rail Standard, [NR/SP/STP/045](#) Managing the Process for Non-compliance Authority (formerly RT/LS/P/045).

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I Purpose

This Specification defines the boundaries between different parts of the telecoms network. It sets out a clear demarcation of maintenance responsibilities. In particular, it provides clear direction when failures arise as to what extent a contractor needs to investigate to establish whether their equipment is working normally.

2 Scope

This Specification applies to all equipment and systems provided solely for operational purposes and any equipment and systems which are indirectly used for safety related purposes. The division of responsibility is between the Finance Lease maintainer and other maintainers where a service is provided by Grant of Use or other business terms and conditions.

3 Reference documentation

No other documentation is referenced in this Specification.

4 Definitions

BT

British Telecom

CCTV

Closed Circuit Television

Global Crossing

Global Crossing and their Finance Lease maintainer

IDC

Insulation Displacement Connector

IMCo

Infrastructure Maintenance Contractor

LJU

Line Jack Unit

MDF

Main Distribution Frame

NTP

Network Terminating Point. The interface between different owners of parts of the telecoms system.

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SPT

Signal Post Telephone

5 Network Terminating Points

This section makes reference to drawings in Appendix A and shall be read in conjunction with those drawings. NTPs are referenced in square brackets in red e.g. [99] on the drawings and in the body of this standard.

5.1 Cable Distribution Frame - Drawings NTP/01 to NTP/03

Single MDF (Drawing NTP/01)

Arrangement [1]: The normal position of the NTP shall be at the block(s) on which the tie cable serving the Network Rail owned equipment terminates on the MDF. The tie cable to the equipment and the block(s) on which it terminates shall be considered to be Network Rail property. The jumper and the termination of the jumper onto the block shall be Global Crossing responsibility.

Arrangement [2]: If an intermediate jumper block exists between the finance lease asset termination block and the Network Rail owned equipment tie cable, the intermediate block shall be Network Rail owned. Global Crossing shall be responsible for the jumper (or cable) from the finance lease cable to the intermediate block, and for terminating it on the intermediate block. Network Rail shall be responsible for the jumper (or cable) from the intermediate block to the equipment tie cable.

Arrangement [3]: Where the tie cable to the Network Rail Equipment is terminated directly onto the termination block of the finance leased assets (e.g. trunk cable termination block or transmission system channel presentations) the termination of the tie cable onto the jumper side of the block shall be a Network Rail responsibility. However, the blocks shall be part of the finance lease. Global Crossing will require specific assurances about the competence of Network Rail & their contractors' staff when working directly on their cable termination blocks. At Global Crossing's discretion (and with Network Rail's agreement) it is permissible for them to request an intermediate jumper block as a replacement for the direct termination of a Network Rail cable on the finance lease asset termination block. Network Rail cables from Network Rail Equipment shall not be terminated directly onto the termination block for finance leased cable or transmission assets for new installations.

Arrangement [4]: Where a third party provider (e.g. BT) provides a service cable into the MDF, both Network Rail and Global Crossing shall be responsible for the jumper connecting their circuit to the cabling leading to their equipment.

Split MDF (Drawings NTP/02 & NTP/03).

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Arrangement [5]: An NTP block shall be provided by Network Rail at a location to be agreed between Network Rail and Global Crossing. In shared equipment rooms this would normally be on the Finance Leased MDF (Drawing NTP/02). If a separate IDF is provided by Network Rail for its own cables, transmission equipment and applications, it is permissible for Network Rail to decide that the NTP shall be on the Network Rail IDF. In this case Global Crossing shall be responsible for the installation and maintenance of the tie cable (Drawing NTP/03). This arrangement shall also apply where the finance lease accommodation is leased or owned by GX and where Network Rail enjoys only a right of access for existing equipment. In all cases, Network Rail shall define the allocation of circuits at the NTP. Global Crossing shall jumper circuits to the NTP in accordance with the allocation.

New Works

If Network Rail is transferring services to new equipment (e.g. for a new SPT Concentrator) then it is permissible for Network Rail to double-jumper from an existing NTP to a new service cable, but not if this involves disturbing a finance lease jumper. In this case, Global Crossing shall provide service to the new NTP in parallel with the existing service until the cut-over to the new equipment takes place. After cut-over to the new equipment has taken place, Global Crossing shall recover the jumpers to the old NTP.

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5.2 Lineside Cable Termination Cupboards

Existing Arrangements (Drawings NTP/04 and NTP/05)

Arrangement [6]: Where a tie cable is already provided to a Network Rail owned (signalling) equipment case, the termination block and termination of the tail cable shall be Network Rail responsibility. The tie cable and its termination on the block shall be a Global Crossing responsibility

Arrangement [7]: Where a tail cable runs direct from a finance leased cable termination case, the NTP shall be at the point where the tail cable from the equipment terminates. This is most often on the termination block of the trunk cable. This shall apply only where the termination is rewirable e.g. Klippon links or 2BA links. Where this is not the case (e.g. crimps) or is unsuitable (e.g. use of IDC blocks), **Arrangement [12]** applies.

Arrangement [8]: Where a telecoms cable termination box is already provided with intermediate links with a jumper on one side to the main cable pair and the tail cable terminated on the other side, these links shall be the NTP.

For both **Arrangement [7]** and **Arrangement [8]**, provision of the termination box and all the blocks/links shall be a Global Crossing responsibility. Network Rail and its IMCos shall have a right of entry to these cabinets to access the tail cable terminations (but only for the purpose of testing and disconnection/reconnection of the tail cable on the allocated leased cable pair). Global Crossing shall require specific assurances about the competence of Network Rail & their contractors' staff when working directly on their cable termination blocks.

New Works (Drawing NTP/06)

Arrangement [9 & 10]: The NTP shall be provided outside the Finance Lease Cable Termination Cupboard, except as below. This may be by providing a tie cable from the Cable Termination Cupboard to the signalling location case **Arrangement [9]** or to a dedicated NTP cupboard **Arrangement [10]**. The provision of the NTP block shall be a Network Rail responsibility in a signalling location case. Where a separate cupboard is provided, this shall be a Global Crossing responsibility. Global Crossing shall provide and run the tie cable to the NTP and shall terminate on the cable side of the block. Network Rail shall jumper or terminate cables onto the jumper side of the block.

Where separate NTP blocks are already provided within a telecoms cable termination cupboard, (See **Arrangement [8]** on drawing NTP/05) this arrangement may be perpetuated.