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1 INTRODUCTION

1.1 Purpose

This document provides a guide to SSI Hardware. It describes the various parts of the SSI system, and the permitted combinations of hardware and software for each item of equipment. Preferred configurations and upgrade paths are listed as well as any significant problems that have been recorded with equipment. Also described are the testing methods used for testing SSI Trackside Data Links and the tools required.

1.2 Scope

This document is based mostly upon information contained in NR/GN/SIG/17901 SSI Configuration Guide [\[Ref 6\]](#), with additional information from the SSI Applications Manual (the contents of which are stated in NR/L2/SIG/17002 [\[Ref 1\]](#) and NR/GN/SIG/17903 SSI Hardware Problems [\[Ref 8\]](#).

It is intended to provide information to maintainers of installed SSI systems, and does not cover those elements of SSI used with the Design Workstation and On-Site Simulation systems, nor those activities relating to data preparation and scheme design.

It does not include hardware specific information relating to Westlock and Smartlock interlockings.

This issue of the guide provides guidance on the use of the following equipment:

- Multi-Processor Modules (MPM) (Interlocking and Diagnostic)
- Panel Processor Modules (PPM)
- Memory Modules (MM)
- Signal Modules (SM)
- Points Modules (PM)
- Data Link Modules (DLM)
- Long Distance Terminals (LDT)
- Technician's Terminal (TT)
- Trackside Data Link Testing
- Production Telegram Error Rate Test Set (PTERTS)

Should there be any disagreement between this document and the SSI Applications Manual, the information in the SSI Applications Manual shall be taken as definitive.

1.3 Definitions

SSI Document and Software Identification

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SSI documents and software originating from the British Railways Board were numbered in the BRXXXX series or the SSIXXXX series. Where new documents or software are produced based on previous BR or SSI documents, the ownership of the new document or software is reflected in the prefix to the number as follows:

BR	Network Rail PLC (applies to existing documents only, which will not be updated)
SSI	Network Rail PLC (unless the document is a Line Standard, in which case the numbering convention for Line Standards applies)
AL	ALSTOM Transport Information Solutions
WS	Westinghouse Signals Ltd
AE	AEA Technology plc

The numeric part of the identifier will generally reflect the number of the BR document from which it was originally derived. The issue of a new document identifier does not necessarily imply the withdrawal of the equivalent BR document, which may still apply to existing equipment designs.

1.4 Abbreviations

SSI	Solid State Interlocking
CCI	Control Centre Identity
MPM	Multiprocessor Module
MM	Memory Module
PPM	Panel Processor Module
DMPM	Diagnostic MPM
DLM	Data Link Module
LLL	Long Line Link
LDT	Long Distance Terminal

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