

Ref:	SSI8500I
Issue:	7
Date:	05/09/2015
Compliance date:	06/12/2015

Module

Design of Schemes, Chapter I: Equipment Procurement and Specifications

Endorsement and Authorisation

For endorsement, authorisation and issue record of this document, please refer to the SSI Applications Manual Contents, NR/L2/SIG/17002

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User information

This Network Rail standard contains colour-coding according to the following Red–Amber–Green classification.

Red requirements – No variations, could stop the railway

- **Red requirements shall** always be complied with and achieved.
- Red requirements shall be presented in a red box **with the word “shall” or expressed as a direct instruction**.
- Accountability for the efficacy of red requirements lies with the Professional Head/Standard Owner.
- Red requirements are monitored for compliance.
- Corrective actions shall be enforced if deviations are discovered through functional checks (e.g. engineering verification visits, audit or Operations Self-Assurance).

Amber requirements – Controlled variations, approved risk analysis and mitigation

- **Amber requirements shall** be complied with unless variation has been approved in advance.
- Amber requirements shall be presented with an amber sidebar **and with the word “shall” or expressed as a direct instruction**.
- Accountability for the efficacy of these requirements lies with the Professional Head/Standard Owner, or their nominated Delegated Authority.
- Amber requirements are monitored for compliance.
- Variations **may** be permitted. Variations are approved by the Standard Owner or through existing Delegated Authority arrangements.
- Corrective actions shall be enforced if **non-approved** variations are discovered through functional checks (e.g. engineering verification visits, audit or Operations Self-Assurance).

Green – Guidance

- Guidance is based on good practice. Guidance represents supporting information to help achieve **Red** and **Amber** requirements.
- Guidance shall be presented with a dotted green sidebar **and with the word “should” (usually in notes) or as a direct instruction**.
- Guidance is **not mandatory** and is not monitored for compliance.
- Alternative solutions may be used. Alternative solutions do not need to be formally approved.
- Decisions made by a competent person to use alternative solutions should be backed up by appropriate evidence or documentation.

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Issue record

Issue	Date	Comments
6	03/03/2012	6 th Issue
7	05/09/2015	Cross reference to SSI9503 in clause 2 has been removed AMD 04/01 (7) incorporated

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 06/12/2015.

When this standard is implemented, it is permissible for all projects that have formally completed GRIP Stage 3 (Option Selection) to continue to comply with the issue of any relevant Network Rail standards current when GRIP Stage 3 was completed and not to comply with requirements contained herein, unless stipulated otherwise in the scope of this standard.

Reference documentation

[GK/RT0031](#) - "Lineside Signals and Indicators", Issue 4, February 2002.

[GK/RT0060](#) - "Interlocking Principles", Issue 4, June 2003

[GK/RT0032](#) - "Provision of Lineside Signals", Issue 2, February 2002

BR819	Earthing and Bonding of Telecomms Cable Sheaths and Screening Conductors
BR1900	General Specification for SSI equipment
BR1901A	Procurement Specification for Points Module (Mk II)
BR1901B	Procurement Specification for Points Module (Mk III)
WS1901B	Engineering Specification for Points Module (MkIIIA)
BR1902A	Procurement Specification for Signal Module (Mk II)
WS1902B	Engineering Specification for Signal Module (MkIIIA)
BR1902B	Procurement Specification for Signal Module (Mk III)
BR1904A	Procurement Specification for Data Link Module (Mk III)
WS1904B	Engineering Specification for Data Link Module (MkIIIA)
BR1905A	Procurement Specification for Multiprocessor Module (MkII)
AL1905B	Specification for SSI Multiprocessor Module (MkALIII)
WS1905B	Engineering Specification for Multiprocessor Module (MkWSIII)
BR1906	Procurement Specification for Long Distance Terminal
BR1908A	Procurement Specification for Panel Processor Module (Mk II)
BR1911	Memory Module (Mk I)

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BR1911A	Memory Module (Mk II)
AL1911B	Specification for SSI Processor Memory Module (MkALIII)
WS1911B	Engineering Specification for Memory Module (MkWSIII)
BR1921A	Interfacing a Panel Multiplex System with a SSI MkII
BR1922	Message/Data, SSI to TD
BR1926	TFM Tester
BR1928	DLIT (Data Link Isolating Transformer)
GS/ES1930	Test Unit for Surge Protection Equipment
BR1932	SSI Data Link Cable
GS/ES1937	Data Link Surge Protection Units
BR1990	Specification for preparation of EPROMs for Railway Signalling applications.

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