

ISM Alarm Messages

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IECC Applications Manual Contents, RT/E/S/10040.

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Published and issued by
Network Rail
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LONDON
NW1 2EE

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Amendment Record

Issue	Date	Description
6	29/10/1999	Converted to Word format by AEA Technology Rail. Same as issue 5.1.
6.1	01/11/1999	Section 4.1 alarm messages (7), (8), (10), (11) and (12) amended for MVME172 board. Minor typographical error in previous issue corrected.
6.2	22/12/1999	Layout in sections 3.19, 3.20 and 3.21 amended as a result of document review.
6.3	20/06/2000	Section 3.1 amended to cover introduction of PC-based ISM terminal.
7	21/03/2003	Railtrack amended to Network Rail. Sections 1, 2, 3, 3.2 and 4.2 amended for use of PSM logger facility instead of magnetic tape logger. Section 2 RDF and High Speed Links deleted. Section 3 message list alignment corrected in accordance with SAO-IEC-D34. Sections 3.9 and 3.10 (High Speed Link) and 3.19 (RDF) deleted. Subsequent sections renumbered. Section 4.1 items (8), (10), (11) and (12) amended to include term 'mixed board installations'. Section 4.6 (RDF) deleted. Section 6 RMT deleted from title and text.
8	15/12/2003	Sections 1, 2, 3.2 and 4.2 amended to include the IECC PC Logger (IPL) as a logging device for ISM data.

Author	Approved	Date	Authorised	Date
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I Introduction

Alarm and report messages come to IECC System Monitor (ISM). The information can be output to the ISM technician's terminal, the printer and the PC SPAD Monitor (PSM) logger or IECC PC Logger (IPL), both of which are replacements for the magnetic tape logger which is no longer used.

Most of the messages sent to ISM conform to specific formats (categories). These messages are processed by ISM to provide short form messages for display on the summary screens, long form messages for display on the detail screens and, if necessary, alarms for display on the GPVDU. The categories, messages, and message descriptions are detailed in sections 2, 3 and 4.

The other messages sent to ISM are free text messages. These messages are sending-subsystem specific and, in general, either provide self-explanatory reports or report serious software failures. The exceptions are messages from DIS and these are described in section 5. Some of the DIS alarm messages are also displayed on the GPVDU.

The ISM messages which are also displayed on the GPVDU are detailed in section 6.

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2 Message Categories

This section provides a table which summarises the general information for the different categories of alarms and reports.

Each alarm or report message belongs to a family (or category) of messages. Each message has a number of parameters that further define the information in the message as defined below:

Message category	This defines a family of messages and is used for reference only. All alarms and reports in a category will have the same severity, alarm/report classification and will be dealt with by ISM in the same manner.
Severity	This is an indication of the priority of attention that should be given to the message. The most severe alarms have a severity of five. Most reports are information only messages and have severity of zero.
Alarm / Report classification	This indicates whether the message is an Alarm, a Report or an Alarm Clear. These classifications are denoted by A, R and C respectively.
Action at ISM	The field may be set to yes (Y) or no (N) in the table and dictates where the message information is presented. There are three possible outputs: the PSM/IPL logger (T), the printer (P) and the ISM technician's terminal display (D). The message may be sent to all three or any combination.
Alarm Initiated Response field	This gives the identities of the destination for the response initiated by an alarm. Only certain alarms require a response to be initiated and the destinations for responses are either the SDSs or the DISs. The term 'Displays' in the table means DISs and SDSs.

The text 'Signalling network' and 'Information network' has been abbreviated to SNET and INET respectively for the purposes of clarity in this table only.