

CIRCUIT DESCRIPTION

CD-5D149-01
ISSUE 1
APPENDIX 2M
DWG ISSUE 3M
DISTN CODE BT13

**ELECTRONIC SWITCHING SYSTEMS
5ESS® SWITCH
MESSAGE DETAIL RECORDS
TRANSLATOR APPLICATIONS
PROCESSOR
APPLICATION SCHEMATIC**

Description of Changes

1. In AS1, Added option "F".
2. In App Fig. 1. Added option "F".
3. Revised Notes 202, 302, 303, & 306.

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CHANGES

A. Description of Changes

- D.1 In AS1, added options "R,Q", "M,N", and "L,J,H,G".
- D.2 In APP FIG 1, added options "R,Q", "M,N", and "L,J,H,G".
- D.3 Added equipment Note 206.
- D.4 Revised Notes 202, 204, 302, and 303.

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user-configurable, and self-diagnosing interface between Integrated

Services Digital Network (ISDN) Basic Rate Interface (BRI), and a customer supplied MDR collection and costing devise.

2. GENERAL DESCRIPTION OF OPERATION

2.01 The 5ESS Switch MDR Translator allows the customer to receive MDR over an asynchronous datalink. The end customer uses a personal computer as an MDR collection device. The output from the 5ESS Switch MDR Translator is asynchronous, 1200 to 9600 baud, RS232-C compatible.

The 5ESS Switch MDR Translator receives MDR from the 5ESS Switch through the D-channel of an ISDN line. The MDR messages are defined in the Applications Processor Interface Specification (5D5900303). The 5ESS Switch MDR Translator completely handles the protocol for layer 1, layer 2, layer 3, and layer 4 of the O+D channel communications link. The 5ESS Switch MDR Translator always operates in a real-time mode. No MDR messages are buffered. All messages are immediately passed to the customer collection device. When an MDR message is received from the 5ESS Switch, protocol levels two, three, and four

SECTION I - GENERAL DESCRIPTION

1. PURPOSE OF SCHEMATIC

1.01 The 5ESS switch Message Detail Records (MDR) translator application processor application schematic provides connectivity and ordering information for a system which will provide a versatile,

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are stripped from the message and the message is translated into an ASCII format. In addition, a Carriage Return (CR) and Line Feed (LF) are added to the end of the MDR to delineate the records. The MDR messages are then transmitted through port P1 to the customer-based PC. Software flow control is supported on the asynchronous port (P1). The maximum throughput of the 5ESS Switch MDR Translator is 12,000 Message Detail Records per hour. One 5ESS Switch MDR Translator is needed for every BRI. Both the Business Customer Identification (BCID) and Line Card Equipment Number LCEN are programmed into the 5ESS Switch MDR Translator during installation.

SECTION II - DETAILED DESCRIPTION

1.01 None.

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SECTION III - REFERENCE DATA

1. WORKING LIMITS

1.01 None.

2. FUNCTIONAL DESIGNATIONS

2.01 See Information Note 305 in the schematic.

3. FUNCTIONS

3.01 Provides application information for 5ESS switch MDR translator.

4. ASSOCIATED CIRCUITS

4.01 See Information Note 304 in the schematic.

5. MANUFACTURING TEST REQUIREMENTS

5.01 None.