

OS/3

**PROGRAM
PRODUCT
SPECIFICATION**IBM 3270
Emulator

Type Number: 6247-XX

SECTION I

The IBM 3270 Emulator provides communication between a SPERRY UNIVAC System/3 (OS/3) system and an IBM central processor system that supports 3270 protocol. The 3270 emulator functions as an IBM 3271 control unit, and provides support for both user programs resident in the OS/3 system and Sperry Univac local workstations. These local workstations function as IBM 3270 model 2 display stations.

The IBM 3270 Emulator employs the ICAM standard interface, and user programs may use either dedicated or global network facilities. However, local workstations must use the ICAM global network facility.

PRODUCT FEATURES

The following features are supported:

- Two-way alternate transmission (half duplex)
- Point-to-point or multidrop connections
- Binary synchronous operation (BSC)
- Switched (dialed) or nonswitched (direct) connection
- Transmission in EBCDIC
- Byte-oriented protocol
- Transmission speeds from 2400 to 7200 bits per second.

The emulator controls the transmission of messages and status between OS/3 and the remote IBM host as follows:

- Receive (Input) Functions
 - Acknowledge polls from the remote IBM host.
 - Acknowledge the receipt of error-free data messages.
 - Forward the message to the program or local workstation.
 - Negative acknowledge (NAK) messages found in error. NAKs are retransmitted until either an error-free message is received or the user-specified retry count is reached.
 - Optionally pass, strip, or convert IBM commands and orders (format control characters) from the received message. This is done based on the mode of operation and the user-specified ICAM generation.
- Transmit (Output) Functions
 - Send status to the remote host based on mode of operation and session status.
 - Report status to the ICAM interface when a transmission line error occurs. Messages are retransmitted until either error-free transmission is accomplished or the user-specified retry count is reached.
 - Transmit messages to the remote host and report successful status to ICAM when transmission is accomplished.
 - Optionally pass, strip, or convert format control characters to IBM orders based on mode of operation and the user-specified ICAM generation.

SOFTWARE REQUIREMENTS

The emulator requires the following OS/3 software products for operation:

- SCS – OS/3 system control software (6210-XX)
- ICAM terminal support facility (6231-XX)

HARDWARE REQUIREMENTS

The emulator operates on any System 80 or Series 90 processor that meets the minimal hardware configuration requirements for that specific model and satisfies the main storage requirements specified in the software documentation accompanying each release.

Additional main storage and/or peripheral devices may be required, depending on the user's selection of the system's supported features and the size of the user's programs, files, and data bases.

The communications adapters are:

- System 80 - Single line communications adapter 2788-02 or 2788-03
- Series 90 - Communications adapter, Synchronous line adapter

SECTION II

CUSTOMER EDUCATION

Sperry Univac makes available customer education related to this program product. Course availability and schedules are contained in the published course catalog. Charges for courses are at prevailing rates. Customers should contact their local Sperry Univac representative for enrollment procedures.

PROGRAM PRODUCT SUPPORT

Sperry Univac endeavors to correct any significant error in an unaltered current release of this program product that the customer brings to the attention of Sperry Univac in accordance with established correction procedures. Sperry Univac does not represent or warrant that all errors will be corrected. This error correction service may result from time to time in update releases that the customer will install. Sperry Univac reserves the right to alter the classification of this program product to reflect changes in policy or support requirements.

ORDERING INFORMATION

This program product and its associated documentation may be licensed from Sperry Univac at separately stated charges. Upon execution of the appropriate consolidated agreement or supplemental agreement, the following will be provided:

1. A magnetic tape or diskette(s) in OS/3 format.
2. One copy of the associated documentation.

