

Features

- Logs standard header information in each record of the log file (port, type, date, time)
- Logs security violations and purges of the security file (if used with the TSX User Security System)
- Logs "TSX START" message when TSX is started
- Logs "LOGON" message and user identification when a user logs on to the TSX system
- Logs "LOGOFF" message and user identification in addition to statistics when a user logs off of TSX
- Logged statistics include: transaction count, lines printed, characters read, characters written, CPU run time
- Logging is not apparent to the user
- System Manager controls: logging requirements, log file storage, log file access
- Logging requirements may be established by user name and/or by port
- Logging subroutine may be made available to other custom-written programs
- Requires MAX IV and TSX (Revision H.00 or later) or MAX 32 and TSX/32 (Revision C.00 or later)

TSX Logging Support

The TSX Logging Support Package allows automatic recording of standard information into a log file at each TSX start up, user log on, log off, and optionally at other occurrences such as security viola-

tions and user programmed events. The logging action may be system-wide or may be limited to specific users (logging on at any port) or to specific ports (any user). See typical log file records below.

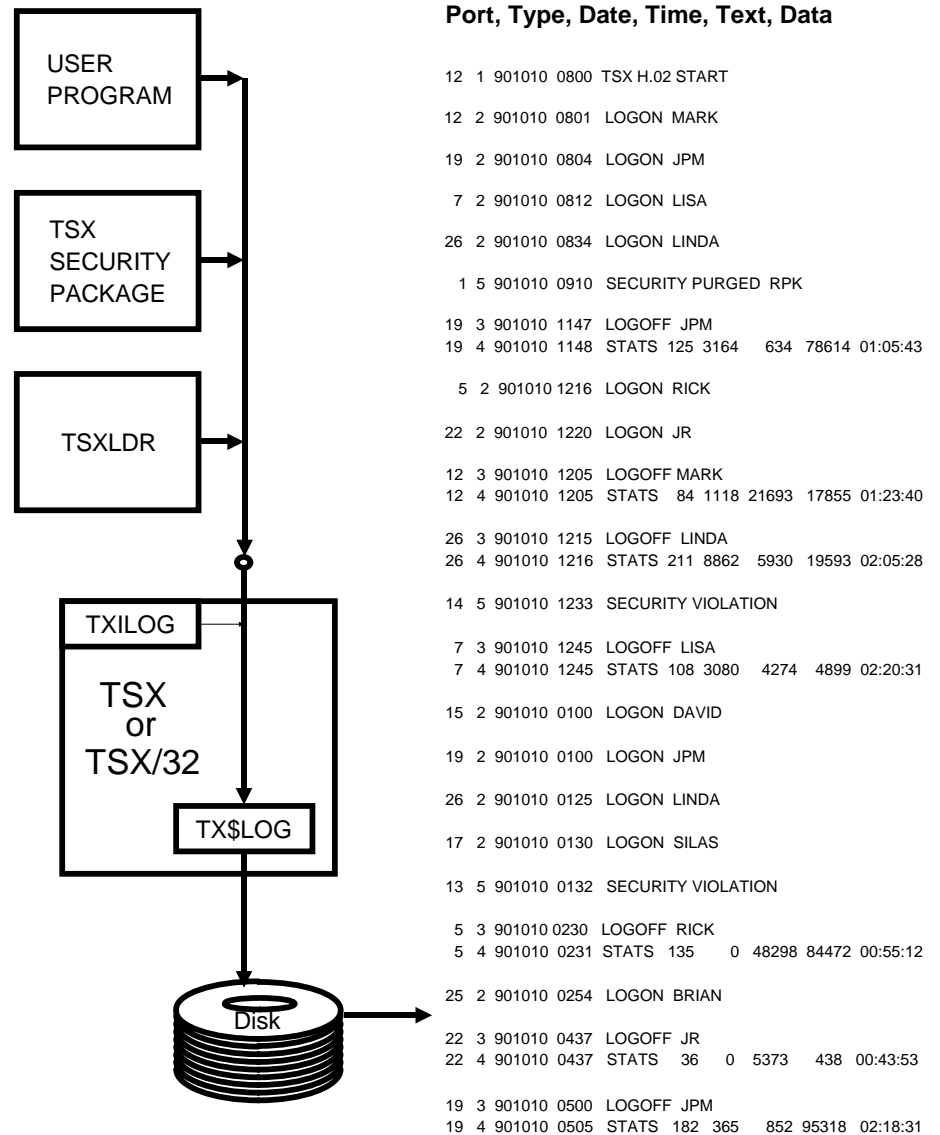


Figure 1: Automatic Generation of Log File Records

TSX Logging Support

Log Record Format

Information stored in the log file may be recorded in a variety of formats--text only, header information plus supplied text, header information plus default text, header plus default text and user alias (user's public name established in TSX task generation statement), or header plus default text and statistics. Text and default text are ASCII strings of up to 256 bytes, terminated by a null character (0). Header information always consists of port, log type, date, and time. Statistics include transaction count, lines printed, characters read, characters written, and total amount of CPU run time consumed.

Log File Storage

ASCII log records are written to TSX. Log data is compressed to conserve space and stored by TSX in standard compressed ASCII format on the log file. Tasks may concurrently log information without concern about record positioning or damaging other data. TSX does not overwrite

previously logged data when restarted. It automatically locates the last record logged and appends new records to provide a continuous log.

Program Interface

The LOGWRT subroutine is supplied to format and write data to the current log file using a TSX Binary I/O Service Routine. This subroutine may be used in programs to add customized log file records in addition to those provided by the TSX Logging Support Package.

Log File Access

Data written to the current log file may be listed by the System Manager in ASCII format from SED or any text editor. If previous log files have not been overwritten, they can be accessed in the same manner.

Log File Management

Control over the files used by the TSX Logging Support Package is provided through a supplied OC Directive, Job Control overlay, and TMP

Directive called TLO. When the original log file is full, it may be initialized and reused indefinitely. Alternatively, TLO allows the System Manager to store a pointer at the end of the current log file and begin logging records to a new log file.

Installation

An installation procedure, which can be used without modification on most systems, is provided by Logical Data Corporation. Only minor changes are required to the existing TSX Task Generation statements.

Customer Service

Logical Data Corporation supplies a complete range of services including consulting, configuration design, site planning, installation, training, and support.

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