

Chapter 32

Interpreting the Enterprise-Specific Monitoring Services MIB

The enterprise-specific monitoring services MIB, whose object identifier is {jnxMibs 28}, provides statistics on files, records, memory, FTP, and error states of flow collection services on a Monitoring Services Physical Interface Card (PIC). It also provides Simple Network Management (SNMP) traps for unavailable destinations, unsuccessful file transfers, flow overloading, and memory overloading. For a downloadable version of this MIB, see www.juniper.net/techpubs/software/junos/junos71/swconfig71-net-mgmt/html/mib-jnx-coll.txt. For information about how to configure the monitoring services interface, see the *JUNOS Services Interfaces Guide* and the *JUNOS Feature Guide*.

This chapter discusses the following topics:

jnxCollGlobalStats on page 354

jnxCollPicIfTable on page 354

jnxCollFileTable on page 356

jnxCollGlobalStats

jnxCollGlobalStats provides statistics on all the router's Monitoring Services PICs and has the objects listed in Table 70.

Table 70: jnxCollGlobalStats

Object	Object Identifier	Description
jnxCollGlobalCreatedFiles	jnxCollGlobalStats 1	The number of files created by all the Monitoring Services PICs on the router since the last time the router was reset.
jnxCollGlobalOpenFiles	jnxCollGlobalStats 2	The number of open flow monitoring services files currently on the router.

jnxCollPicIfTable

jnxCollPicIfTable contains statistics about each Monitoring Services PIC.

jnxCollPicEntry

JnxCollPicEntry contains information about a Monitoring Services PIC. Each Monitoring Services PIC contains one interface and is identified by IfIndex. It has objects listed in Table 71.

Table 71: jnxCollPicEntry

Object	Object Identifier	Description
File Statistics		
jnxCollPicIfCreatedFiles	jnxCollPicIfEntry 1	The number of files created by a Monitoring Services PIC since the last time the PIC was reset.
jnxCollPicIfCreatedFileRate	jnxCollPicIfEntry 2	The number of files created per second during the current 10-second interval.
jnxCollPicIfPeakCreatedFileRate	jnxCollPicIfEntry 3	The peak number of files created per second.
jnxCollPicIfExportedFiles	jnxCollPicIfEntry 4s	The number of files exported by a Monitoring Services PIC.
jnxCollPicIfExportedFileRate	jnxCollPicIfEntry 5	The number of files exported per second during the current 10-second interval.
jnxCollPicIfPeakExportedFileRate	jnxCollPicIfEntry 6	The peak number of files exported per second.
jnxCollPicIfDestroyedFiles	jnxCollPicIfEntry 7	The number of files successfully exported and files dropped by the Monitoring Services PIC. Files are destroyed after they are transferred to the FTP server or when there is not enough memory.
jnxCollPicIfDestroyedFileRate	jnxCollPicIfEntry 8	The number of files dropped per second during the current 10-second interval. Files are dropped after they are transferred to the FTP server or when there is not enough memory.
jnxCollPicIfPeakDestroyedFileRate	jnxCollPicIfEntry 9	The peak number of files dropped, per second. Files are dropped after they are transferred to the FTP server or when there is not enough memory.

Object	Object Identifier	Description
Record Statistics		
jnxCollPicIfProcRecords	jnxCollPicIfEntry 10	The number of flow records processed by a Monitoring Services PIC.
jnxCollPicIfProcRecordsRate	jnxCollPicIfEntry 11	The number of flow records processed per seconds during the current 10-second interval.
jnxCollPicIfPeakProcRecordsRate	jnxCollPicIfEntry 12	The peak number of flow records processed.
Memory Statistics		
jnxCollPicIfMemoryUsed	jnxCollPicIfEntry 13	The amount of memory used, in bytes, by a Monitoring Services PIC.
jnxCollPicIfMemoryFree	jnxCollPicIfEntry 14	The amount of memory free, in bytes, by a Monitoring Services PIC.
FTP Statistics		
jnxCollPicIfFtpBytes	jnxCollPicIfEntry 15	The number of bytes transferred via FTP by a Monitoring Services PIC.
jnxCollPicIfFtpByteRate	jnxCollPicIfEntry 16	The number of bytes per second transferred via FTP measured during the current 10-second interval.
jnxCollPicIfPeakFtpByteRate	jnxCollPicIfEntry 17	The peak number of bytes per second transferred via FTP.
jnxCollPicIfFtpFiles	jnxCollPicIfEntry 18	The number of files transferred via FTP by a Monitoring Services PIC.
jnxCollPicIfFtpFileRate	jnxCollPicIfEntry 19	The number of files per second transferred via FTP.
jnxCollPicIfPeakFtpFileRate	jnxCollPicIfEntry 20	The peak number of files per second transferred via FTP.
jnxCollPicIfFtpFailures	jnxCollPicIfEntry 21	The number of FTP transfer failures transferred by a Monitoring Services PIC.
Error State Statistics		
jnxCollPicIfCurrentState	jnxCollPicIfEntry 22	The current state of various error conditions on a Monitoring Services PIC.
jnxCollPicIfLastStateChange	jnxCollPicIfEntry 23	The error condition of the last changed state.
jnxCollPicIfStateChangeTime	jnxCollPicIfEntry 24	The value of sysUpTime when the management subsystem last learned of a change to the jnxCollPicIfCurrentState for a Monitoring Services PIC.
jnxCollPicIfStateChangeDate	jnxCollPicIfEntry 25	The system date and time when the management subsystem last learned of a change to the jnxCollPicIfCurrentState on a Monitoring Services PIC.
jnxCollPicIfStateChangeType	jnxCollPicIfEntry 26	Indicates whether the last state change set a new error condition or cleared an existing one. This object contains the following values: none(1) set(2) cleared(3)

jnxCollFileTable

jnxCollFileTable contains information about each flow collection services file on the router.

jnxCollFileEntry

jnxCollFileEntry contains information about a single file open on a Monitoring Services PIC, and has the objects listed in Table 72.

Table 72: jnxCollFileTable

Object	Object Identifier	Description
jnxCollFileName	jnxCollFileEntry 1	The name of a flow collection services file on a Monitoring Services PIC.
jnxCollFileFname	jnxCollFileEntry 2	The name of a flow collection services file on this Monitoring Services PIC. This object is included for those Network Management (NM) applications that can't parse the filename from the instance portion of the OIDs and provides the value of jnxCollFileName.
jnxCollFileRecords	jnxCollFileEntry 3	The number of flow records in this file.
jnxCollFileRecordRate	jnxCollFileEntry 4	The number of flow records per second added to this file, measured during the current 10-second interval.
jnxCollFilePeakRecordRate	jnxCollFileEntry 5	The peak number of flow records per second added to this file.
jnxCollFileUncompBytes	jnxCollFileEntry 6	The number of uncompressed bytes in this file.
jnxCollFileUncompByteRate	jnxCollFileEntry 7	The number of uncompressed bytes per second added to this file.
jnxCollFilePeakUncompByteRate	jnxCollFileEntry 8	The peak number of uncompressed bytes per second added to this file.
jnxCollFileCompBytes	jnxCollFileEntry 9	The number of compressed bytes in this file.
jnxCollFileCompByteRate	jnxCollFileEntry 10	The number of compressed bytes per second added to this file during the current 10-second interval.
jnxCollFilePeakCompByteRate	jnxCollFileEntry 11	The peak number of compressed bytes per second added to this file.
jnxCollFileBlocks	jnxCollFileEntry 12	The number of blocks in this file.
jnxCollFileCompBlocks	jnxCollFileEntry 14	The number of compressed blocks in this file.
jnxCollFileTransferAttempts	jnxCollFileEntry 15	The number of FTP transfer attempts in this file.
jnxCollFileState	jnxCollFileEntry 16	The current state of this file. This object contains the following values: unknown(1) active(2)—The file is actively receiving flow records. wait(3)—The file is waiting for export. export1(4)—The file is being exported to the primary server. export2(5)—The file is being exported to the secondary server.