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-- file:  NMSysMgr.trp
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-- COMTEK Services, Inc. RFC 1225
-- Trap MIB for VMS NM*SysMgr Subagent
-- Release      3.5
-- Date         January 2002
-- Author       NF

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COMTEK-VMS-NM-SYSMGR-TRAP-MIB DEFINITIONS ::= BEGIN

-- SECTION 1: Top Level Definitions

-- Imports

IMPORTS
     TRAP-TYPE               FROM RFC-1215
     comtekVmsNMSysMgrSubagent
                             FROM COMTEK-DEFINITIONS-MIB
     sCfgVersion, sCpuPercentUsed, sCritCurCnt, sCritName, sCritReqCnt,
     sDskFreeBlocks, sDskLogVolName, sDskName, sDskOps,
     sDskQueueLengthDelta, sDskQueueLength, sDskStatus, sDskUsedPercent,
     sHwErrCnt, sHwErrDeviceName, sIntPercentUsed, sSyiMemFreePg,
     sSyiMemUsed, sOpcomFive, sOpcomFour, sOpcomOne, sOpcomSeven,
     sOpcomSix, sOpcomThree, sOpcomTwo, sPsCOMQueue, sPsCOMOQueue,
     sPsMWAITCount, sPsPID, sPsProcName, sPsState, sPsRWState,
     sQEntryJobname, sQEntryNum, sQEntryJobStatus, sQName, sQStatus,
     sShdCopy, sShdFail, sShdMerge, sShdName, sSwErrFile, sSwErrLineNum,
     sSwErrMessage, sSwErrStatus, sSyiSwpFree, sSyiSwpUsedPercent,
     sSyiPgFree, sSyiPgUsedPercent, sTrapNextSeqNum, sTrapTime
                             FROM COMTEK-VMS-NM-SYSMGR-MIB;

-- SECTION 2: Generic Trap Definitions

-- SECTION 3: COMTEK VMS NM*SysMgr Subagent Trap Definitions

sColdStart TRAP-TYPE
     ENTERPRISE      comtekVmsNMSysMgrSubagent
     VARIABLES       { sTrapNextSeqNum, sTrapTime, sCfgVersion }
     DESCRIPTION
          "A sColdStart trap signifies that the sending protocol entity
          is reinitializing itself such that the agent's configuration
          or the protocol entity implementation may be altered."
     ::= 0
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sSwErr TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sSwErrStatus, sSwErrFile,
                    sSwErrLineNum, sSwErrMessage }
     DESCRIPTION
           "Software error encountered.  This trap indicates that NM*SysMgr
           was unable to perform some action and explains the error.  This
           trap is typically encountered if sCfgFile, sCfgCritFile,
           sCfgCritDsk, or sCfgCritQue is set to a new file name which
           is erroneous or contains invalid data."
     ::= 1

sHwErr TRAP-TYPE
     ENTERPRISE      comtekVmsNMSysMgrSubagent
     VARIABLES       { sTrapNextSeqNum, sTrapTime, sHwErrDeviceName, sHwErrCnt }
     DESCRIPTION
           "Hardware error.  This trap indicates that the specified device
           has encountered an error.  sHwErr traps may be disabled by
           setting sCfgHwErrTraps to false(2)."
     ::= 2

sCpuUsage TRAP-TYPE
     ENTERPRISE       comtekVmsNMSysMgrSubagent
     VARIABLES        { sTrapNextSeqNum, sTrapTime, sCpuPercentUsed }
     DESCRIPTION
           "Excessive CPU utilization by all processes and interrupts. The
           threshold for this trap is contained in sCfgCpuLimit.  The variable
           sCfgCpuPersist can be used to control how frequently these traps
           are sent.  The sCfgCpuPersist variable specifies how many minutes
           the CPU usage must remain above the threshold before this trap is
           set."
     ::= 3

sIntUsage TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sIntPercentUsed }
     DESCRIPTION
          "Excessive CPU utilization by interrupts during the past one minute
          interval. The threshold at which this trap is sent is contained in
          sCfgIntLimit."
     ::= 4

sDskOpSec TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sDskName, sDskOps,
                    sDskLogVolName }
     DESCRIPTION
          "Excessive average disk operations per second.  The threshold at
          which this trap is sent is contained in either the critical disk
          file (sDskTrapOpSec) or in configuration file variable sCfgDskOps.
          sCfgDskTimer controls how often this data is computed and how
          often this trap may be sent."
     ::= 5

sDskFull TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sDskName, sDskUsedPercent,
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                    sDskFreeBlocks, sDskLogVolName }
     DESCRIPTION
          "Disk usage has reached or exceeded the critical threshold.  The
          threshold at which this trap is sent is contained in one of the
          following:

                         sDskTrapPercent (from the critical disk file)
                         sDskTrapBlocks (from the critical disk file)
                         sCfgDskLimit
                         sCfgDskMinFreeBlks

          If this disk has an entry in the critical disk file which
          specifies the threshold either in percent full (sDskTrapPercent)
          or in minimum disk blocks free (sDskTrapBlocks), that value is
          used to determine when sDskFull and sDskFullClear traps are sent.
          For disks which are not contained in the critical disk file,
          these traps are controlled by either the value contained in
          sCfgDskLimit (percent full) or sCfgDskMinFreeBlks (minimum
          number of free blocks).  Only one of the two values
          sCfgDskLimit and sCfgDskMinFreeBlks is in force (i.e, nonzero)
          at any given time.  If both values are zero, disk full and clear
          traps for disks not contained in the critical disk table
          are disabled.

          sCfgDskTimer controls how often this data is computed.
          sCfgDskAlarm controls how often this trap is repeated once the
          threshold has been reached."
     ::= 6

sDskFullClear TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sDskName, sDskUsedPercent,
                    sDskFreeBlocks, sDskLogVolName }
     DESCRIPTION
          "Disk usage that had reached or exceeded the critical threshold
          has now gone below that threshold.  This indicates that the
          condition that was reported by the sDskFull trap has been
          resolved."
     ::= 7

sSwpFull TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sSyiSwpUsedPercent,
                    sSyiSwpFree }
     DESCRIPTION
          "Swap file usage has reached or exceeded the critical threshold.
          The threshold at which this trap is sent is contained in
          sCfgSwpLimit.  sCfgSysInfoTimer controls how often this data is
          computed.  sCfgDskAlarm controls how often this trap is
          repeated once the threshold has been reached."
     ::= 8

sSwpFullClear TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sSyiSwpUsedPercent,
                    sSyiSwpFree }
     DESCRIPTION
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          "Swap file usage that had reached or exceeded the critical
          threshold has now gone below that threshold.  This indicates
          that the condition that was reported by the sSwpFull trap has
          been resolved."
     ::= 9

sPgFull TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sSyiPgUsedPercent,
                    sSyiPgFree }
     DESCRIPTION
          "Page file usage has reached or exceeded the critical threshold.
          The threshold at which this trap is sent is contained in
          sCfgPgLimit.  sCfgSysInfoTimer controls how often this data is
          computed.  sCfgDskAlarm controls how often this trap is
          repeated once the threshold has been reached."
     ::= 10

sPgFullClear TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sSyiPgUsedPercent,
                    sSyiPgFree }
     DESCRIPTION
          "Page file usage that had reached or exceeded the critical
          threshold has now gone below that threshold.  This indicates
          that the condition that was reported by the sPgFull trap has
          been resolved."
     ::= 11

sCriticalProcessMissing TRAP-TYPE
     ENTERPRISE    comtekVmsNMSysMgrSubagent
     VARIABLES     { sTrapNextSeqNum, sTrapTime, sCritName, sCritReqCnt,
                   sCritCurCnt }
     DESCRIPTION
          "Too few instances of processes by this name. This indicates
          that the current number of processes running (sCritCurCnt)
          with the specified name is less than the required number
          (sCritReqCnt).  sCfgCritTimer controls how often critical
          process checking is performed.  This trap will be repeated
          with a frequency specified by sCfgCritAlarm until the
          situation is resolved."
     ::= 12

sOpcomMessage TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sOpcomOne, sOpcomTwo,
                    sOpcomThree, sOpcomFour, sOpcomFive, sOpcomSix,
                    sOpcomSeven }
     DESCRIPTION
          "New message in operator log. This message contains the text
          of a opcom message.  The opcom header is stripped from the
          message before it is sent."
     ::= 13

sTermProc TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime }
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     DESCRIPTION
           "NM*SysMgr Subagent process termination."
     ::= 14

sDskStat TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sDskName, sDskStatus,
                    sDskLogVolName }
     DESCRIPTION
           "Disk device status has transitioned into one of the following
           states: POWER (power failed while unit was busy), TIMOUT (unit
           timed out), or MNTVERIP (mount verification in progress).  The
           variable sDskStatus identifies the new status of the disk."
     ::= 15

sWarmStart TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime }
     DESCRIPTION
           "The NM*SysMgr Subagent process has been reinitialized."
     ::= 16

sShdFailStatus TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sShdName, sShdFail }
     DESCRIPTION
           "Shadow set member failure status has changed.  Disk has transitioned
           either into or out of a shadow set failure as indicated by
           sShdFail."
     ::= 17

sShdCopyStatus TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sShdName, sShdCopy }
     DESCRIPTION
           "Shadow set member catch-up copy status has changed.  Disk has either
           started or completed catch-up copying as indicated by sShdCopy."
     ::= 18

sShdMergeStatus TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sShdName, sShdMerge }
     DESCRIPTION
           "Shadow set member merge copy status has changed.  Disk has either
           started or completed merge copying as indicated by sShdMerge."
     ::= 19

sQueStatusChange TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sQName, sQStatus }
     DESCRIPTION
           "Status of monitored queue has transitioned into or out of one
           of the following states as indicated by the following sQStatus
           bit settings: paused (bit 4 set), stalled (bit 10 set), starting
           (bit 11 set), stopped (bit 12 set), or disabled (bit 19 set)."
     ::= 20
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sQEntryStatusChange TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sQEntryNum, sQEntryJobname,
                    sQEntryJobStatus }
     DESCRIPTION
           "Status of specified queue entry has transitioned into or out of
           one of the following states as indicated by the sQEntryJobStatus
           bit settings: aborting (bit 0 set), refused (bit 4 set), or
           stalled (bit 13 set)."
     ::= 21

sProcStatusChange TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sPsPID, sPsProcName,
                    sPsState, sPsRWState }
     DESCRIPTION
           "Status of this process has transitioned into or out of MWAIT(2)
           state as indicated by the sPsState value.  The cause of the
           MWAIT state is contained in the sPsRWState variable.  If the
           process has transitioned out of the MWAIT state, the value of
           sPsRWState will be NULL."
     ::= 22

sMemFull TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sSyiMemUsed,
                      sSyiMemFreePg }
     DESCRIPTION
          "Physical memory usage has reached or exceeded the critical threshold.
          The threshold at which this trap is sent is contained in
          sCfgMemLimit.  sCfgSysInfoTimer controls how often this data is
          computed.  sCfgDskAlarm controls how often this trap is
          repeated once the threshold has been reached."
     ::= 23

sMemClear TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sSyiMemUsed,
                      sSyiMemFreePg }
     DESCRIPTION
          "Physical memory usage that had reached or exceeded the critical
          threshold has now gone below that threshold.  This indicates
          that the condition that was reported by the sMemFull trap has
          been resolved."
     ::= 24

sCOMQue TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sPsCOMQueue }
     DESCRIPTION
          "Number of processes in COM state has reached or exceeded
          the critical threshold. The threshold at which this trap is sent
          is contained in sCfgCOMQueueLimit.  sCfgPsTimer controls how often
          this data is computed."
     ::= 25

sCOMOQue TRAP-TYPE
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     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sPsCOMOQueue }
     DESCRIPTION
          "Number of processes in COMO state has reached or exceeded
          the critical threshold. The threshold at which this trap is sent
          is contained in sCfgCOMOQueueLimit.  sCfgPsTimer controls how often
          this data is computed."
     ::= 26

sCritProcClear TRAP-TYPE
     ENTERPRISE    comtekVmsNMSysMgrSubagent
     VARIABLES     { sTrapNextSeqNum, sTrapTime, sCritName, sCritReqCnt,
                   sCritCurCnt }
     DESCRIPTION
          "Critical Process Missing condition (indicated by the
          sCriticalProcessMissing Trap) has been cleared. This means
          that the current number of processes running (sCritCurCnt)
          with the specified name is equal or greater than the required
          number (sCritReqCnt).  sCfgCritTimer controls how often critical
          process checking is performed."
     ::= 27

sDskIOQLen TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sDskName,
                    sDskQueueLengthDelta, sDskQueueLength }
     DESCRIPTION
          "Disk I/O queue length has reached or exceeded the critical
          threshold specififed in the Critical Disk file."
     ::= 28

sCritJobMissing TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sQEntryJobname,
                    sQName }
     DESCRIPTION
          "User-specified critical job is missing from the specified
          queue."
     ::= 29

sMWAITExcessive TRAP-TYPE
     ENTERPRISE     comtekVmsNMSysMgrSubagent
     VARIABLES      { sTrapNextSeqNum, sTrapTime, sPsMWAITCount }
     DESCRIPTION
          "The number of processes in MWAIT state has exceeded the
          threshold specified by sCfgMWAITLimit."
     ::= 30

END
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