```
-- Title:     MilPower Managed UPS MIB
-- Version:   2.05
-- Date:      Feb. 20, 2025
-- By:        zafrani Yakir


-- Change History
-- 2.05       Added support for M362-4: added upsOutputTwoStatus field +
upsExternalBattNumber field
-- 2.04       Added trap / Bentsi Ben-atar
-- 2.03       Fix Error and warrnings / Zvika Grinberg
-- 1.03       Fourth Vertion - Extended parameters suport
-- 1.02            Third Version - Extended parameters support
--            Dec 8, 2005 / Bentsi Ben-Atar
-- 1.01            Second Version - Delayed Shutdown support
--            July 18, 2005 / Bentsi Ben-Atar
-- 1.00            First Version
--            June 23, 2005 / Bentsi Ben-Atar


MILPOWER-UPS-MIB DEFINITIONS ::= BEGIN

IMPORTS
   enterprises,
   OBJECT-TYPE,IpAddress
        FROM SNMPv2-SMI
   DisplayString
        FROM SNMPv2-TC;

-- enterprises    OBJECT IDENTIFIER ::= { iso org(3) dod(6) internet(1)
private(4) 1 }
milpower     OBJECT IDENTIFIER ::= { enterprises 10790 }
products      OBJECT IDENTIFIER ::= { milpower 31}
ups2000VA   OBJECT IDENTIFIER ::= { products 1}



upsCommand OBJECT IDENTIFIER
      --    "UPS commands "
      ::= { ups2000VA 2 }

upsShutdown OBJECT-TYPE
      SYNTAX  INTEGER
     {
        shutdown(1),
        abortShutdown(2)
      }
      ACCESS read-write
      STATUS current
      DESCRIPTION      "Shutdown UPS "
      ::= { upsCommand 1 }

upsBattleMode OBJECT-TYPE
      SYNTAX  INTEGER
```

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    {
        disable(1),
        enable(2)
      }
      ACCESS read-write
      STATUS current
      DESCRIPTION      "Enable/disable battle mode  "
      ::= { upsCommand 2 }

upsShutdownDelay OBJECT-TYPE
      SYNTAX  INTEGER
    ACCESS read-write
      STATUS current
      DESCRIPTION      "Value in seconds of the delayed shutdown UPS
command"
      ::= { upsCommand 3 }

upsStandbyCmd OBJECT-TYPE
      SYNTAX  INTEGER
    {
        on(1),
        off(2)
      }
    ACCESS read-write
      STATUS current
      DESCRIPTION      "Turns the On/Off the AC output"
      ::= { upsCommand 4 }

upsAudioCmd OBJECT-TYPE
      SYNTAX  INTEGER
    {
        disable(1),
        enable(2)
      }
    ACCESS read-write
      STATUS current
      DESCRIPTION      "Enable/Disable the Audiable alarm"
      ::= { upsCommand 5 }

upsBattTestCmd OBJECT-TYPE
      SYNTAX INTEGER
    {
        doBatteryTest(1)
      }
    ACCESS read-write
      STATUS current
      DESCRIPTION      "Request a battery test"
      ::= { upsCommand 6 }


upsBattTestRslt OBJECT-TYPE
      SYNTAX  INTEGER
    {
      testNotMade(0),
```

```
        good(1),
        bad(2),
        notFull(3),
        inUse(4),
        loadTooLow(5),
        testNotCompleted(6),
        errorValue(7)
      }

    ACCESS read-only
      STATUS current
      DESCRIPTION      "Display result of battery test "
      ::= { upsCommand 7 }


upsShutdownDiagnosticCmd OBJECT-TYPE
      SYNTAX  INTEGER
    {
        sendRequest(1)
      }
    ACCESS read-write
      STATUS current
      DESCRIPTION      "Issue a diagnostic report request of the last
shutdown event"
      ::= { upsCommand 8 }

upsShutdownDiagnosticRslt OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..40))
    ACCESS read-only
      STATUS current
      DESCRIPTION      "Display diagnostic report of the last shutdown
event"
      ::= { upsCommand 9 }

upsProtectionResetCmd OBJECT-TYPE
    SYNTAX  INTEGER
    {
        sendCommand(1)
      }
    ACCESS read-write
      STATUS current
      DESCRIPTION      "Attempts to turns the UPS back on , after
Shutdown"
    ::= { upsCommand 10 }

upsSetLowBattLevelCmd OBJECT-TYPE
      SYNTAX  INTEGER
    {
      setTo35defualt(0),
        setTo10(1),
        setTo20(2),
        setTo30(3),
        setTo40(4),
        setTo50(5),
```

```
        setTo60(6),
        setTo70(7),
        setTo80(8),
        setTo90(9)
      }
    ACCESS read-write
      STATUS current
      DESCRIPTION      "Set UPS low battery level"
      ::= { upsCommand 11 }

upsMonitor OBJECT IDENTIFIER
      --    "UPS monitored parameters "
      ::= { ups2000VA 3 }

upsInput OBJECT-TYPE
      SYNTAX  INTEGER
    {
        ok(1),
        fail(2)
      }
      ACCESS read-only
      STATUS current
      DESCRIPTION      "UPS input status fail or OK "
      ::= { upsMonitor 1 }

upsChargeLevel OBJECT-TYPE
      SYNTAX  INTEGER
    {
        below4(1),
        between5and14(2),
        between15and24(3),
        between25and34(4),
        between35and44(5),
        between45and54(6),
        between55and64(7),
        between65and74(8),
        between75and84(9),
        between85and94(10),
        over95(11)
        }
      ACCESS read-only
      STATUS current
      DESCRIPTION      "UPS charge level [%] "
      ::= { upsMonitor 2 }
upsLoadLevel OBJECT-TYPE
      SYNTAX  INTEGER
    {
        below15(1),
        between16and23(2),
        between24and38(3),
        between39and53(4),
        between54and68(5),
        between69and83(6),
        between84and100(7),
```

```
        between101and115(8),
        between116and125(9),
        between126and135(10),
        over135(11)
        }
      ACCESS read-only
      STATUS current
      DESCRIPTION      "UPS load level [%]"
      ::= { upsMonitor 3 }

upsOutputStatus OBJECT-TYPE
      SYNTAX  INTEGER
    {
        other(1),
        normal(3),
        battery(5)
      }
      ACCESS read-only
      STATUS current
      DESCRIPTION      "UPS output status "
      ::= { upsMonitor 4 }

upsBatteryState OBJECT-TYPE
      SYNTAX  INTEGER
    {
        unknown(1),
        batteryNormal(2),
        batteryLow(3),
        batteryDepleted(4)
      }
      ACCESS read-only
      STATUS current
      DESCRIPTION      "UPS battery status "
      ::= { upsMonitor 5 }

upsAmbTemperature OBJECT-TYPE
      SYNTAX  INTEGER
    ACCESS read-only
      STATUS current
      DESCRIPTION      "UPS ambient temperature in 0.1c "
      ::= { upsMonitor 6 }


      upsExternalBattNumber OBJECT-TYPE
      SYNTAX  INTEGER
    {
        none(0),
        one(1),
        two(2),
        three(3),
        four(4),
        unknown(5)
      }
      ACCESS read-only
```

```
      STATUS current
      DESCRIPTION      "UPS external battery connected status "
      ::= { upsMonitor 7 }

      upsOutputTwoStatus OBJECT-TYPE
      SYNTAX  INTEGER
    {
        other(1),
        normal(3),
        off(5)
      }
      ACCESS read-only
      STATUS current
      DESCRIPTION      "UPS output Two status "
      ::= { upsMonitor 8 }

-- Traps Registration group
upsTrapsDest OBJECT IDENTIFIER    ::= { ups2000VA 6}


-------------------------------------------------------------------------
-----
--   Traps Registration group
-------------------------------------------------------------------------
-----

trapDestinationsTable OBJECT-TYPE
      SYNTAX SEQUENCE OF TrapDestinationsEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION "N/A"
      ::= { upsTrapsDest 1 }

trapDestinationsEntry OBJECT-TYPE
      SYNTAX TrapDestinationsEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION "N/A"

      INDEX  { trapDestinationsIndex  }
      ::= { trapDestinationsTable 1 }

TrapDestinationsEntry ::=
      SEQUENCE {
        trapDestinationsIndex       INTEGER,
        trapDestinationsAddress    IpAddress
      }

trapDestinationsIndex OBJECT-TYPE
      SYNTAX INTEGER
      MAX-ACCESS read-only
      STATUS current

      DESCRIPTION       "Trap destination table index."
```

```
      ::= { trapDestinationsEntry 1 }

trapDestinationsAddress OBJECT-TYPE
      SYNTAX IpAddress
      MAX-ACCESS read-only
      STATUS current

      DESCRIPTION       "IP Address of the destination host."
      ::= { trapDestinationsEntry 2 }

trapDestinationsCommands OBJECT IDENTIFIER    ::= { upsTrapsDest 7 }

trapDestTempAddress OBJECT-TYPE
      SYNTAX IpAddress
      MAX-ACCESS read-write
      STATUS current
      DESCRIPTION       "Used for temporary storage of the IP address to
add
                        or remove from the trap destinations table."
      ::= { trapDestinationsCommands 1 }

trapDestCommand OBJECT-TYPE
      SYNTAX INTEGER
      {
        add(1),
        remove(2)
      }
      MAX-ACCESS read-write
      STATUS current
      DESCRIPTION       "Activation command: setting this OID with value
1(add) adds
                        the IP address that is stored in the
fbzTrapDestTempAddress
                        to the trap destinations table. setting this OID
with value 2(remove)
                        deletes the IP address from the trap destinations
table."
      ::= { trapDestinationsCommands 2 }

-- Trap types:

upsAlarmsStatus OBJECT IDENTIFIER
      --    "Status for each possible Alarm: whether Activated or
Cleared"
      ::= { ups2000VA 50 }



upsInputStts OBJECT-TYPE
      SYNTAX  INTEGER {
                  alarmCleared(1),
                  alarmActivated(2) }
      ACCESS read-only
      STATUS mandatory
```

```
      DESCRIPTION "Status of the input voltage Alarm"
      ::= { upsAlarmsStatus 1 }
upsInputFail TRAP-TYPE
      ENTERPRISE ups2000VA
      VARIABLES {upsInputStts}
      DESCRIPTION "Input voltage is too low to support fully-loaded
output"
 ::= 1

upsBatterySt ts OBJECT-TYPE
      SYNTAX  INTEGER {
                  alarmCleared(1),
                  alarmActivated(2) }
      ACCESS read-only
      STATUS mandatory
      DESCRIPTION "Status of the battery Alarm"
      ::= { upsAlarmsStatus 2 }
upsBatteryLow TRAP-TYPE
      ENTERPRISE ups2000VA
      VARIABLES {upsBatterySt ts}
      DESCRIPTION "Battery voltage is too low to support fully-loaded
output"
 ::= 2

upsOverTempSt ts OBJECT-TYPE
      SYNTAX  INTEGER {
                  alarmCleared(1),
                  alarmActivated(2) }
      ACCESS read-only
      STATUS mandatory
      DESCRIPTION "Status of the battery Alarm"
      ::= { upsAlarmsStatus 3 }
upsOverTemperature TRAP-TYPE
      ENTERPRISE ups2000VA
      VARIABLES {upsOverTempSt ts}
      DESCRIPTION "Ambient UPS temperature is too high"
 ::= 3

upsInternalFailSt ts OBJECT-TYPE
      SYNTAX  INTEGER {
                  alarmCleared(1),
                  alarmActivated(2) }
      ACCESS read-only
      STATUS mandatory
      DESCRIPTION "Status of UPS internal status"
      ::= { upsAlarmsStatus 4 }
upsInternalFailure TRAP-TYPE
      ENTERPRISE ups2000VA
      VARIABLES {upsInternalFailSt ts}
      DESCRIPTION "UPS internal failure status"
 ::= 4

upsChargerFailSt ts OBJECT-TYPE
      SYNTAX  INTEGER {
```

```
                alarmCleared(1),
                alarmActivated(2) }
      ACCESS read-only
      STATUS mandatory
      DESCRIPTION "Status of UPS charger"
      ::= { upsAlarmsStatus 5 }
upsChargerFail TRAP-TYPE
      ENTERPRISE ups2000VA
      VARIABLES {upsChargerFailStts}
      DESCRIPTION "UPS charger failure status"
 ::= 5

upsBatteryFailStts OBJECT-TYPE
      SYNTAX  INTEGER {
                alarmCleared(1),
                alarmActivated(2) }
      ACCESS read-only
      STATUS mandatory
      DESCRIPTION "Status of UPS battery failure"
      ::= { upsAlarmsStatus 6 }
upsBatteryFail TRAP-TYPE
      ENTERPRISE ups2000VA
      VARIABLES {upsBatteryFailStts}
      DESCRIPTION "UPS battery failure status"
 ::= 6


milPowerAgentSoftwrDwld    OBJECT IDENTIFIER ::= { milpower 99 }
fileServer    OBJECT IDENTIFIER ::= { milPowerAgentSoftwrDwld 1 }
files         OBJECT IDENTIFIER ::= { milPowerAgentSoftwrDwld 2 }
fileOperations   OBJECT IDENTIFIER ::= { milPowerAgentSoftwrDwld 3 }


--
-------------------------------------------------------------------------
-----
-- Download File server group
-------------------------------------------------------------------------
-----
serverIPAddress OBJECT-TYPE
      SYNTAX  IpAddress
      MAX-ACCESS read-write
      STATUS current
      DESCRIPTION      "IP address of the FTP/TFTP server."
      ::= { fileServer 1 }


--
-------------------------------------------------------------------------
-----
-- Download files group
-------------------------------------------------------------------------
-----
```

```
filesTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF FilesEntry
      MAX-ACCESS  not-accessible
      STATUS  current
      DESCRIPTION       "This table describes the firmware or content
files stored
                        on the system resident Flash."
      ::= { files 1 }

filesEntry OBJECT-TYPE
      SYNTAX  FilesEntry
      MAX-ACCESS  not-accessible
      STATUS  current
      DESCRIPTION       "The basic data structure used to hold a single
file entry."
    INDEX   { fileIndex }
    ::= { filesTable 1 }

FilesEntry ::=
      SEQUENCE {
      fileIndex               INTEGER,
        fileName                DisplayString,
        fileSize                INTEGER,
        flashLocation             DisplayString
      }

fileIndex OBJECT-TYPE
      SYNTAX  INTEGER
      MAX-ACCESS  read-only
      STATUS  current
      DESCRIPTION       "Index of the files table."
      ::= { filesEntry 1 }

fileName OBJECT-TYPE
      SYNTAX  DisplayString
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION       "Name of the stored file (as downloaded by
TFTP)."
      ::= { filesEntry 2 }

fileSize OBJECT-TYPE
      SYNTAX  INTEGER
      MAX-ACCESS  read-only
      STATUS  current
      DESCRIPTION       "Size of the file (in bytes)."
      ::= { filesEntry 3 }

flashLocation OBJECT-TYPE
      SYNTAX  DisplayString
      MAX-ACCESS  read-only
      STATUS  current
      DESCRIPTION       "Base address (and/or bank) of the stored file."
```

```
      ::= { filesEntry 4 }

--
-------------------------------------------------------------------------
-----
-- Download actions group
-------------------------------------------------------------------------
-----

fileCommands OBJECT IDENTIFIER    ::= { fileOperations 2 }

downloadFilename OBJECT-TYPE
      SYNTAX  DisplayString
      MAX-ACCESS read-write
      STATUS current
      DESCRIPTION       "filename to download."
      ::= { fileCommands 1 }

downloadCommand OBJECT-TYPE
      SYNTAX  INTEGER
     {
        ready(1),
        downloadImage(21),
        downloadContent(22),
        busy(30)
      }
      MAX-ACCESS  read-write
      STATUS  current
      DESCRIPTION       "Initiate download session."
      ::= { fileCommands 2 }

downloadStatus OBJECT-TYPE
      SYNTAX  INTEGER
     {
        ready(1),
        downloadingImage(21),
        downloadingContent(22),
        downloadSuccessful(31),
        downloadFailed(41),
        downloadFailedFileTooLarge(42),
        downloadFailedGeneralError(43)
      }
      MAX-ACCESS  read-only
      STATUS  current
      DESCRIPTION       "The status of the current or last download
session."
      ::= { fileCommands 3 }

downloadProgress OBJECT-TYPE
      SYNTAX  INTEGER
      MAX-ACCESS  read-only
      STATUS  current
      DESCRIPTION       "The number of bytes loaded in the current or
last session."
```

```
      ::= { fileCommands 4 }

END
```