NAFEM-INVENTORY-MANAGEMENT-MIB DEFINITIONS ::= BEGIN

-- From file: "inventory-management.mib"

IMPORTS

-- enterprises FROM RFC1155-SMI
IpAddress, Counter FROM RFC1065-SMI
OBJECT-TYPE FROM RFC-1212
DisplayString FROM RFC1213-MIB
NafemDateTime,
NafemChoice,
NafemInterval,
NafemAlarmStatus FROM NAFEM-TC-MIB
inventoryMgmtGroup,
invInstance,
invConfig,
invData,
invStorageAlarm,
invLog,
invLogHistory
invNotify FROM NAFEM-REG-MIB;

-- nafemInventoryModule MODULE-IDENTITY
-- LAST-UPDATED " 200301010000000 "
-- ORGANIZATION "NAFEM"
-- ORGANIZATION "NAFEM"
-- CONTACT-INFO
-- 
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-- 
"--

-- DESCRIPTION
-- " The Inventory Management Object Group module.
--
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Begin definitions

-- INVENTORY MANAGEMENT CONFIGURATION TABLE

invInfoItemTable OBJECT-TYPE
  SYNTAX SEQUENCE OF InvInfoItemEntry
  ACCESS not-accessible
  STATUS mandatory
  DESCRIPTION " Table of descriptions of inventory items. "
  ::= { invConfig 1 }

invInfoItemEntry OBJECT-TYPE
  SYNTAX InvInfoItemEntry
  ACCESS not-accessible
  STATUS mandatory
  DESCRIPTION " An entry in the table of descriptions of inventory items. "
  INDEX { invInfoItemEntryIndex }
  ::= { invInfoItemTable 1 }

InvInfoItemEntry ::= SEQUENCE {
  InvInfoItemEntryIndex INTEGER,
  invInfoItemName DisplayString,
  invInfoItemDescriptor DisplayString,
  invInfoItemUnits DisplayString,
  invInfoItemVendorNum INTEGER,
  invInfoItemCode DisplayString
}

invInfoItemEntryIndex OBJECT-TYPE
  SYNTAX INTEGER
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION " An index into the table of descriptions of inventory items. "
  ::= { invInfoItemEntry 1 }

invInfoItemName OBJECT-TYPE
  SYNTAX DisplayString (SIZE (0..32))
  ACCESS read-write
  STATUS mandatory
  DESCRIPTION " A textual name for an inventory item. "
  ::= { invInfoItemEntry 2 }

invInfoItemDescriptor OBJECT-TYPE
  SYNTAX DisplayString (SIZE (0..128))
  ACCESS read-write
  STATUS mandatory
  DESCRIPTION " A text string for the inventory item to provide additional descriptive information. "
  ::= { invInfoItemEntry 3 }
invInfoItemUnits OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..32))
ACCESS read-write
STATUS mandatory
DESCRIPTION " The units to be used for the inventory item. Due to the variation in descriptive units for inventory items this term does not follow the NAFEM UNITS data type. "
 ::= { invInfoItemEntry 4 }

invInfoItemVendorNum OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION " The vendor number to be associated with the supplier. "
 ::= { invInfoItemEntry 5 }

invInfoItemCode OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..16))
ACCESS read-write
STATUS mandatory
DESCRIPTION " A numerical code, such as a bar code, associated with an inventory item. "
 ::= { invInfoItemEntry 6 }

-- Inventory DATA TABLE

invInfoDataTable OBJECT-TYPE
SYNTAX SEQUENCE OF InvInfoDataEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION " Table of collected information for inventory items. "
 ::= { invData 1 }

invInfoDataEntry OBJECT-TYPE
SYNTAX InvInfoDataEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION " An entry in the table of collected information for inventory items. "
 INDEX { invInfoDataEntryIndex }
 ::= { invInfoDataTable 1 }

InvInfoDataEntry ::= SEQUENCE {
 invInfoDataEntryIndex INTEGER,
 invInfoDataCurrentUsage INTEGER,
 invInfoDataTotalUsage Counter,
 invInfoDataStatus INTEGER,
 invInfoDataTimestamp NafemDateTime
}

invInfoDataEntryIndex OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION " The index to an entry in the table information for inventory items. "
 ::= { invInfoDataEntry 1 }
invInfoDataCurrentUsage OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION " The current rate of consumption of the inventory item. "
::= { invInfoDataEntry 2 }

invInfoDataTotalUsage OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION " The total accumulated consumption of an inventory item. "
::= { invInfoDataEntry 3 }

invInfoDataStatus OBJECT-TYPE
SYNTAX INTEGER {
  ok (1),
  alarm(2)}
ACCESS read-only
STATUS mandatory
DESCRIPTION " The Status of the inventory data item. "
::= { invInfoDataEntry 4 }

invInfoDataTimestamp OBJECT-TYPE
SYNTAX NafemDateTime
ACCESS read-only
STATUS mandatory
DESCRIPTION " A date/time stamp associated with the consumption data. "
::= { invInfoDataEntry 5 }

-- Inventory STORAGE TABLE

invInfoStorageTable OBJECT-TYPE
SYNTAX SEQUENCE OF InvInfoStorageEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION " Table of information on inventory items for inventory stocking. "
::= { invStorageAlarm 1 }

invInfoStorageEntry OBJECT-TYPE
SYNTAX InvInfoStorageEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION " An entry in the table of information on inventory items for inventory stocking. "
INDEX { invInfoStorageEntryIndex }
::= { invInfoStorageTable 1 }

invInfoStorageEntry ::= SEQUENCE {
  invInfoStorageEntryIndex INTEGER, 
  invInfoStorageForcastVol INTEGER, 
  invInfoStorageOnHandVol INTEGER, 
  invInfoStorageStockLevel INTEGER 
}
invInfoStorageEntryIndex OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION "An index to an entry in the table of information on inventory items for inventory stocking."
::= {invInfoStorageEntry 1}

invInfoStorageForecastVol OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION "Projected usage of an inventory item."
::= {invInfoStorageEntry 2}

invInfoStorageOnHandVol OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION "Current on hand volume of an inventory item."
::= {invInfoStorageEntry 3}

invInfoStorageStockLevel OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION "Minimum desired stocking level of an inventory item."
::= {invInfoStorageEntry 4}

-- Inventory LOG TABLE

invLogTable OBJECT-TYPE
SYNTAX SEQUENCE OF InvLogEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION "Table of Log configuration parameters."
::= {invLog 1}

invLogEntry OBJECT-TYPE
SYNTAX InvLogEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION "Entry into log configuration parameters table."
INDEX {invLogEntryIndex}
::= {invLogTable 1}

InvLogEntry ::= SEQUENCE {
  invLogEntryIndex INTEGER,  
  invLogItemName DisplayString,  
  invLogEnable NafemChoice,  
  invLogInterval NafemInterval,  
  invLogDeviation INTEGER,  
  invLogForcedInterval INTEGER,  
  invLogMaxHoldDays INTEGER,  
  invLogHistoryOid OBJECT IDENTIFIER
}
invLogEntryIndex OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION " Index for log configuration parameters. "
::= { invLogEntry 1 }

invLogItemName OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..32))
ACCESS read-write
STATUS mandatory
DESCRIPTION " A textual name for an inventory item from the configuration table. "
::= { invLogEntry 2 }

invLogEnable OBJECT-TYPE
SYNTAX NafemChoice
ACCESS read-write
STATUS mandatory
DESCRIPTION " 1-'true' Enables history table activation. "
::= { invLogEntry 3 }

invLogInterval OBJECT-TYPE
SYNTAX NafemInterval
ACCESS read-write
STATUS mandatory
DESCRIPTION " The period in milliseconds that expires between logging of value to history table. Also known as sample rate. "
::= { invLogEntry 4 }

invLogDeviation OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION " Instead of interval, the user can specify a range change in current value to trigger a history record to be store. Example: current reading 125 and deviation of 2 is entered. Once the reading goes above 127 or below 123 a history record is stored and the new current reading is either 127 or 123. A zero represents no deviation action. "
::= { invLogEntry 5 }

invLogForcedInterval OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION " Allows the device to assure that a reading is recorded to history regardless of deviation at this rate. Example: current reading is 125 and stays there for three hours, if the user sets Min rate to 60,000 milliseconds than there will be a history record every hour at a minimum. "
::= { invLogEntry 6 }

invLogMaxHoldDays OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION " Maximum time to hold logged items in history table before over writing entries with newer data. "
::= { invLogEntry 7 }
invLogHistory OBJECT IDENTIFIER ::= { invLog 2 }

invLogHistoryTable OBJECT-TYPE
SYNTAX SEQUENCE OF InvLogHistoryEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION " Table of logged value properties. "
 ::= { invLogHistoryTable 1 }

invLogHistoryEntry OBJECT-TYPE
SYNTAX InvLogHistoryEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION " Entry into logged values table. "
INDEX { invLogHistoryEntryIndex }
 ::= { invLogHistoryTable 1 }

InvLogHistoryEntry ::= SEQUENCE {
   InvLogHistoryIndex  INTEGER,
   invLogHistoryEntryIndex  INTEGER,
   invLogHistoryValue  INTEGER,
   invLogHistoryTimeStamp  NafemDateTime
}

invLogHistoryIndex OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION " The log item index of the log item in the invLogTable to which this history is a part. "
 ::= { invLogHistoryEntry 1 }

invLogHistoryEntryIndex OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION " Index of logged values. "
 ::= { invLogHistoryEntry 1 }

invLogHistoryValue OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION " The current usage value at time of logging event. "
 ::= { invLogHistoryEntry 2 }

invLogHistoryTimeStamp OBJECT-TYPE
SYNTAX NafemDateTime
ACCESS read-only
STATUS mandatory
DESCRIPTION " Time values were logged to table. "
 ::= { invLogHistoryEntry 3 }
invNotifyTable OBJECT-TYPE
SYNTAX           SEQUENCE OF InvNotifyEntry
ACCESS           not-accessible
STATUS           mandatory
DESCRIPTION      " Table of notify message parameters. "
::= { invNotify 1 }

invNotifyEntry OBJECT-TYPE
SYNTAX           InvNotifyEntry
ACCESS           not-accessible
STATUS           mandatory
DESCRIPTION      " Entry into notify message table. "
INDEX            { invNotifyEntryIndex }
::= { invNotifyTable 1 }

InvNotifyEntry ::= SEQUENCE {
   InvNotifyEntryIndex               INTEGER,
   invNotifyMessage                  DisplayString ,
   invNotifyCode                     INTEGER,
   invNotifyTimeStamp                NafemDateTime,
   invNotifyEnable                   NafemChoice
}

invNotifyEntryIndex OBJECT-TYPE
SYNTAX           INTEGER
ACCESS           read-only
STATUS           mandatory
DESCRIPTION      " Index for the rows of the invNotifyTable. "
::= { invNotifyEntry 1 }

invNotifyMessage OBJECT-TYPE
SYNTAX           DisplayString (SIZE (0..32))
ACCESS           read-only
STATUS           mandatory
DESCRIPTION      " A textual description of the notify message. "
::= { invNotifyEntry 2 }

invNotifyCode OBJECT-TYPE
SYNTAX           INTEGER  NafemNotifyCode
ACCESS           read-only
STATUS           mandatory
DESCRIPTION      " Numeric value of notify condition. "
::= { invNotifyEntry 3 }

invNotifyTimeStamp OBJECT-TYPE
SYNTAX           NafemDateTime
ACCESS           read-only
STATUS           mandatory
DESCRIPTION      " The date and time at which an event occurred. "
::= { invNotifyEntry 4 }
invNotifyEnable OBJECT-TYPE
SYNTAX NafemChoice
ACCESS read-write
STATUS mandatory
DESCRIPTION "1 = Enable generation
2 = No trap generation
Reference current NAFEM textual convention."
::= {invNotifyEntry 5}

invNotifyAckTable OBJECT-TYPE
SYNTAX SEQUENCE OF InvNotifyAckEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION "Table of associated acknowledgement feature attribute to the notification message. This table is used when the system requires a response from a manager when a trap is sent."
::= {invNotify 2}

invNotifyAckEntry OBJECT-TYPE
SYNTAX InvNotifyAckEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION "Entry in acknowledgement table."
INDEX {invNotifyAckTableIndex}
::= {invNotifyAckTable 1}

InvNotifyAckEntry ::= SEQUENCE {
invNotifyAckTableIndex INTEGER,
invNotifyAck NafemChoice,
invNotifyInterval NafemInterval,
invNotifyRetries INTEGER,
invNotifyResponse IpAddress
}

invNotifyAckTableIndex OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION "Index for the rows of the invNotifyAckTable."
::= {invNotifyAckEntry 1}

invNotifyAck OBJECT-TYPE
SYNTAX NafemChoice
ACCESS read-write
STATUS mandatory
DESCRIPTION "1 = Acknowledgement required from manager
2 = No Acknowledgement required
Reference current NAFEM textual convention."
::= {invNotifyAckEntry 2}

invNotifyInterval OBJECT-TYPE
SYNTAX NafemInterval
ACCESS read-write
STATUS mandatory
DESCRIPTION "Delay interval between non-acknowledged trap events. Applicable only when acknowledgement required. Reference current NAFEM textual convention."
::= {invNotifyAckEntry 3}
invNotifyRetries OBJECT-TYPE
   SYNTAX INTEGER
   ACCESS read-write
   STATUS mandatory
   DESCRIPTION "Number of attempts of non-acknowledged trap events. Applicable only when acknowledgement required."
   ::= { invNotifyAckEntry 4 }

invNotifyResponse OBJECT-TYPE
   SYNTAX IpAddress
   ACCESS read-write
   STATUS mandatory
   DESCRIPTION "Response word from SNMP Manager to acknowledge to. Manager writes his/her Ipaddress to confirm receipt."
   ::= { invNotifyAckEntry 5 }

END