

-- extracted from rfc3165.txt
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DISMAN-SCRIPT-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,
OBJECT-TYPE,
NOTIFICATION-TYPE,
Integer32,
Unsigned32,
mib-2
 FROM SNMPv2-SMI
RowStatus,
TimeInterval,
DateAndTime,
StorageType,
DisplayString
 FROM SNMPv2-TC
MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP
 FROM SNMPv2-CONF
SnmpAdminString
 FROM SNMP-FRAMEWORK-MIB;

scriptMIB MODULE-IDENTITY

LAST-UPDATED "200108210000Z" -- Aug 21, 2001 12:00:00 AM
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DESCRIPTION

 "This MIB module defines a set of objects that allow to
 delegate management scripts to distributed managers."

REVISION "200108210000Z" -- Aug 21, 2001 12:00:00 AM

DESCRIPTION

 "Revised version, published as RFC 3165.

 This revision introduces several new objects: smScriptError,
 smScriptLastChange, smLaunchError, smLaunchLastChange,
 smLaunchRowExpireTime, smRunResultTime, and smRunErrorTime.

The following existing objects were updated: the maximum value of `smRunLifeTime` now disables the timer, an `autostart` value was added to the `smLaunchAdminStatus` object, and a new expired state was added to the `smLaunchOperStatus` object.

A new `smScriptException` notification has been added to support runtime error notifications.

Created new conformance and compliance statements that take care of the new objects and notifications.

Clarifications have been added in several places to remove ambiguities or contradictions that were discovered and reported by implementors."

REVISION "199902221800Z" -- Feb 22, 1999 6:00:00 PM

DESCRIPTION

"Initial version, published as RFC 2592."

```
-- 1.3.6.1.2.1.64 -- ::= { mib-2 64 }
--
-- The groups defined within this MIB module:
--
```

smObjects OBJECT IDENTIFIER

```
-- 1.3.6.1.2.1.64.1 -- ::= { scriptMIB 1 }
```

smNotifications OBJECT IDENTIFIER

```
-- 1.3.6.1.2.1.64.2 -- ::= { scriptMIB 2 }
```

smConformance OBJECT IDENTIFIER

```
-- 1.3.6.1.2.1.64.3 -- ::= { scriptMIB 3 }
```

```
--
-- Script language and language extensions.
--
-- This group defines tables which list the languages and the
-- language extensions supported by a Script MIB implementation.
-- Languages are uniquely identified by object identifier values.
--
```

smLangTable OBJECT-TYPE

SYNTAX SEQUENCE OF SmLangEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table lists supported script languages."

```
-- 1.3.6.1.2.1.64.1.1 -- ::= { smObjects 1 }
```

smLangEntry OBJECT-TYPE

SYNTAX SmLangEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry describing a particular language."

INDEX {
 smLangIndex
}

```
-- 1.3.6.1.2.1.64.1.1.1 -- ::= { smLangTable 1 }
```

```
SmLangEntry ::= SEQUENCE {  
    smLangIndex Integer32,  
    smLangLanguage OBJECT IDENTIFIER,  
    smLangVersion SnmpAdminString,  
    smLangVendor OBJECT IDENTIFIER,  
    smLangRevision SnmpAdminString,  
    smLangDescr SnmpAdminString  
}
```

smLangIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"The locally arbitrary, but unique identifier associated with this language entry.

The value is expected to remain constant at least from one re-initialization of the entity's network management system to the next re-initialization.

Note that the data type and the range of this object must be consistent with the definition of smScriptLanguage."

-- 1.3.6.1.2.1.64.1.1.1.1 -- ::= { smLangEntry 1 }

smLangLanguage OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The globally unique identification of the language."

-- 1.3.6.1.2.1.64.1.1.1.2 -- ::= { smLangEntry 2 }

smLangVersion OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The version number of the language. The zero-length string shall be used if the language does not have a version number.

It is suggested that the version number consist of one or more decimal numbers separated by dots, where the first number is called the major version number."

-- 1.3.6.1.2.1.64.1.1.1.3 -- ::= { smLangEntry 3 }

smLangVendor OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"An object identifier which identifies the vendor who provides the implementation of the language. This object identifier SHALL point to the object identifier directly below the enterprise object identifier {1 3 6 1 4 1} allocated for the vendor. The value must be the object identifier {0 0} if the vendor is not known."

-- 1.3.6.1.2.1.64.1.1.1.4 -- ::= { smLangEntry 4 }

smLangRevision OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The version number of the language implementation. The value of this object must be an empty string if version number of the implementation is unknown.

It is suggested that the value consist of one or more decimal numbers separated by dots, where the first number is called the major version number."

-- 1.3.6.1.2.1.64.1.1.1.5 -- ::= { smLangEntry 5 }

smLangDescr OBJECT-TYPE

SYNTAX SnmpAdminString
MAX-ACCESS read-only

```

        STATUS          current
        DESCRIPTION
            "A textual description of the language."
-- 1.3.6.1.2.1.64.1.1.1.6 -- ::= { smLangEntry 6 }

smExtsnTable OBJECT-TYPE
    SYNTAX          SEQUENCE OF SmExtsnEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        "This table lists supported language extensions."
-- 1.3.6.1.2.1.64.1.2 -- ::= { smObjects 2 }

smExtsnEntry OBJECT-TYPE
    SYNTAX          SmExtsnEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        "An entry describing a particular language extension."
    INDEX {
        smLangIndex,
        smExtsnIndex
    }
-- 1.3.6.1.2.1.64.1.2.1 -- ::= { smExtsnTable 1 }

SmExtsnEntry ::= SEQUENCE {
    smExtsnIndex      Integer32,
    smExtsnExtension OBJECT IDENTIFIER,
    smExtsnVersion   SnmpAdminString,
    smExtsnVendor    OBJECT IDENTIFIER,
    smExtsnRevision  SnmpAdminString,
    smExtsnDescr     SnmpAdminString
}

smExtsnIndex OBJECT-TYPE
    SYNTAX          Integer32 (1..2147483647)
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        "The locally arbitrary, but unique identifier associated
        with this language extension entry.

        The value is expected to remain constant at least from one
        re-initialization of the entity's network management system
        to the next re-initialization."
-- 1.3.6.1.2.1.64.1.2.1.1 -- ::= { smExtsnEntry 1 }

smExtsnExtension OBJECT-TYPE
    SYNTAX          OBJECT IDENTIFIER
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "The globally unique identification of the language
        extension."
-- 1.3.6.1.2.1.64.1.2.1.2 -- ::= { smExtsnEntry 2 }

smExtsnVersion OBJECT-TYPE
    SYNTAX          SnmpAdminString (SIZE (0..32))
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "The version number of the language extension.
        It is suggested that the version number consist of one or
        more decimal numbers separated by dots, where the first
        number is called the major version number."
-- 1.3.6.1.2.1.64.1.2.1.3 -- ::= { smExtsnEntry 3 }

smExtsnVendor OBJECT-TYPE

```

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"An object identifier which identifies the vendor who provides the implementation of the extension. The object identifier value should point to the OID node directly below the enterprise OID {1 3 6 1 4 1} allocated for the vendor. The value must be the object identifier {0 0} if the vendor is not known."

-- 1.3.6.1.2.1.64.1.2.1.4 -- ::= { smExtsnEntry 4 }

smExtsnRevision OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The version number of the extension implementation. The value of this object must be an empty string if version number of the implementation is unknown."

It is suggested that the value consist of one or more decimal numbers separated by dots, where the first number is called the major version number."

-- 1.3.6.1.2.1.64.1.2.1.5 -- ::= { smExtsnEntry 5 }

smExtsnDescr OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A textual description of the language extension."

-- 1.3.6.1.2.1.64.1.2.1.6 -- ::= { smExtsnEntry 6 }

--

-- Scripts known by the Script MIB implementation.

--

-- This group defines a table which lists all known scripts.

-- Scripts can be added and removed through manipulation of the

-- smScriptTable.

--

smScriptObjects OBJECT IDENTIFIER

-- 1.3.6.1.2.1.64.1.3 -- ::= { smObjects 3 }

smScriptTable OBJECT-TYPE

SYNTAX SEQUENCE OF SmScriptEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table lists and describes locally known scripts."

-- 1.3.6.1.2.1.64.1.3.1 -- ::= { smScriptObjects 1 }

smScriptEntry OBJECT-TYPE

SYNTAX SmScriptEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry describing a particular script. Every script that is stored in non-volatile memory is required to appear in this script table."

INDEX {
 smScriptOwner,
 smScriptName
}

-- 1.3.6.1.2.1.64.1.3.1.1 -- ::= { smScriptTable 1 }

SmScriptEntry ::= SEQUENCE {
 smScriptOwner SnmpAdminString,
 smScriptName SnmpAdminString,

```

        smScriptDescr      SnmpAdminString,
        smScriptLanguage   Integer32,
        smScriptSource     DisplayString,
        smScriptAdminStatus INTEGER,
        smScriptOperStatus INTEGER,
        smScriptStorageType StorageType,
        smScriptRowStatus  RowStatus,
        smScriptError      SnmpAdminString,
        smScriptLastChange DateAndTime
    }

```

smScriptOwner OBJECT-TYPE

```

    SYNTAX      SnmpAdminString (SIZE (0..32))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION

```

"The manager who owns this row in the smScriptTable."

```

-- 1.3.6.1.2.1.64.1.3.1.1.1 -- ::= { smScriptEntry 1 }

```

smScriptName OBJECT-TYPE

```

    SYNTAX      SnmpAdminString (SIZE (1..32))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION

```

"The locally-unique, administratively assigned name for this script. This object allows an smScriptOwner to have multiple entries in the smScriptTable."

This value of this object may be used to derive the name (e.g. a file name) which is used by the Script MIB implementation to access the script in non-volatile storage. The details of this mapping are implementation specific. However, the mapping needs to ensure that scripts created by different owners with the same script name do not map to the same name in non-volatile storage."

```

-- 1.3.6.1.2.1.64.1.3.1.1.2 -- ::= { smScriptEntry 2 }

```

smScriptDescr OBJECT-TYPE

```

    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION

```

"A description of the purpose of the script."

```

-- 1.3.6.1.2.1.64.1.3.1.1.3 -- ::= { smScriptEntry 3 }

```

smScriptLanguage OBJECT-TYPE

```

    SYNTAX      Integer32 (0..2147483647)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION

```

"The value of this object type identifies an entry in the smLangTable which is used to execute this script. The special value 0 may be used by hard-wired scripts that can not be modified and that are executed by internal functions."

Set requests to change this object are invalid if the value of smScriptOperStatus is 'enabled' or 'compiling' and will result in an inconsistentValue error."

Note that the data type and the range of this object must be consistent with the definition of smLangIndex."

```

-- 1.3.6.1.2.1.64.1.3.1.1.4 -- ::= { smScriptEntry 4 }

```

smScriptSource OBJECT-TYPE

```

    SYNTAX      DisplayString
    MAX-ACCESS  read-create
    STATUS      current

```

DESCRIPTION

"This object either contains a reference to the script source or an empty string. A reference must be given in the form of a Uniform Resource Locator (URL) as defined in RFC 2396. The allowed character sets and the encoding rules defined in RFC 2396 section 2 apply.

When the `smScriptAdminStatus` object is set to `'enabled'`, the Script MIB implementation will `'pull'` the script source from the URL contained in this object if the URL is not empty.

An empty URL indicates that the script source is loaded from local storage. The script is read from the `smCodeTable` if the value of `smScriptStorageType` is `volatile`. Otherwise, the script is read from non-volatile storage.

Note: This document does not mandate implementation of any specific URL scheme. An attempt to load a script from a nonsupported URL scheme will cause the `smScriptOperStatus` to report an `'unknownProtocol'` error.

Set requests to change this object are invalid if the value of `smScriptOperStatus` is `'enabled'`, `'editing'`, `'retrieving'` or `'compiling'` and will result in an `inconsistentValue` error."

DEFVAL { 'H' }

-- 1.3.6.1.2.1.64.1.3.1.1.5 -- ::= { smScriptEntry 5 }

`smScriptAdminStatus` OBJECT-TYPE

SYNTAX INTEGER {
enabled(1),
disabled(2),
editing(3) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of this object indicates the desired status of the script. See the definition of `smScriptOperStatus` for a description of the values.

When the `smScriptAdminStatus` object is set to `'enabled'` and the `smScriptOperStatus` is `'disabled'` or one of the error states, the Script MIB implementation will `'pull'` the script source from the URL contained in the `smScriptSource` object if the URL is not empty."

DEFVAL { disabled }

-- 1.3.6.1.2.1.64.1.3.1.1.6 -- ::= { smScriptEntry 6 }

`smScriptOperStatus` OBJECT-TYPE

SYNTAX INTEGER {
enabled(1),
disabled(2),
editing(3),
retrieving(4),
compiling(5),
noSuchScript(6),
accessDenied(7),
wrongLanguage(8),
wrongVersion(9),
compilationFailed(10),
noResourcesLeft(11),
unknownProtocol(12),
protocolFailure(13),
genericError(14) }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The actual status of the script in the runtime system. The value of this object is only meaningful when the value of

the `smScriptRowStatus` object is ``active'`.

The `smScriptOperStatus` object may have the following values:

- ``enabled'` indicates that the script is available and can be started by a launch table entry.
- ``disabled'` indicates that the script can not be used.
- ``editing'` indicates that the script can be modified in the `smCodeTable`.
- ``retrieving'` indicates that the script is currently being loaded from non-volatile storage or a remote system.
- ``compiling'` indicates that the script is currently being compiled by the runtime system.
- ``noSuchScript'` indicates that the script does not exist at the `smScriptSource`.
- ``accessDenied'` indicates that the script can not be loaded from the `smScriptSource` due to a lack of permissions.
- ``wrongLanguage'` indicates that the script can not be loaded from the `smScriptSource` because of a language mismatch.
- ``wrongVersion'` indicates that the script can not be loaded from the `smScriptSource` because of a language version mismatch.
- ``compilationFailed'` indicates that the compilation failed.
- ``noResourcesLeft'` indicates that the runtime system does not have enough resources to load the script.
- ``unknownProtocol'` indicates that the script could not be loaded from the `smScriptSource` because the requested protocol is not supported.
- ``protocolFailure'` indicates that the script could not be loaded from the `smScriptSource` because of a protocol failure.
- ``genericError'` indicates that the script could not be loaded due to an error condition not listed above.

The ``retrieving'` and ``compiling'` states are transient states which will either lead to one of the error states or the ``enabled'` state. The ``disabled'` and ``editing'` states are administrative states which are only reached by explicit management operations.

All launch table entries that refer to this script table entry shall have an `smLaunchOperStatus` value of ``disabled'` when the value of this object is not ``enabled'`."

```
DEFVAL { disabled }
-- 1.3.6.1.2.1.64.1.3.1.1.7 -- ::= { smScriptEntry 7 }
```

```
smScriptStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
```

"This object defines whether this row and the script controlled by this row are kept in volatile storage and lost upon reboot or if this row is backed up by non-volatile or permanent storage.

The storage type of this row always complies with the value of this entry if the value of the corresponding RowStatus object is 'active'.

However, the storage type of the script controlled by this row may be different, if the value of this entry is 'non-volatile'. The script controlled by this row is written into local non-volatile storage if the following condition becomes true:

- (a) the URL contained in the smScriptSource object is empty and
- (b) the smScriptStorageType is 'nonVolatile' and
- (c) the smScriptOperStatus is 'enabled'

Setting this object to 'volatile' removes a script from non-volatile storage if the script controlled by this row has been in non-volatile storage before. Attempts to set this object to permanent will always fail with an inconsistentValue error.

The value of smScriptStorageType is only meaningful if the value of the corresponding RowStatus object is 'active'. If smScriptStorageType has the value permanent(4), then all objects whose MAX-ACCESS value is read-create must be writable, with the exception of the smScriptStorageType and smScriptRowStatus objects, which shall be read-only."

```
DEFVAL { volatile }
-- 1.3.6.1.2.1.64.1.3.1.1.8 -- ::= { smScriptEntry 8 }
```

smScriptRowStatus OBJECT-TYPE

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"A control that allows entries to be added and removed from this table.

Changing the smScriptRowStatus from 'active' to 'notInService' will remove the associated script from the runtime system.

Deleting conceptual rows from this table may affect the deletion of other resources associated with this row. For example, a script stored in non-volatile storage may be removed from non-volatile storage.

An entry may not exist in the 'active' state unless all required objects in the entry have appropriate values. Rows that are not complete or not in service are not known by the script runtime system.

Attempts to 'destroy' a row or to set a row 'notInService' while the smScriptOperStatus is 'enabled' will result in an inconsistentValue error.

Attempts to 'destroy' a row or to set a row 'notInService' where the value of the smScriptStorageType object is 'permanent' or 'readOnly' will result in an inconsistentValue error.

The value of this object has no effect on whether other objects in this conceptual row can be modified."

```
-- 1.3.6.1.2.1.64.1.3.1.1.9 -- ::= { smScriptEntry 9 }
```

smScriptError OBJECT-TYPE

SYNTAX SnmpAdminString

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This object contains a descriptive error message if the
    transition into the operational status `enabled' failed.
    Implementations must reset the error message to a
    zero-length string when a new attempt to change the
    script status to `enabled' is started."
DEFVAL { 'H' }
-- 1.3.6.1.2.1.64.1.3.1.1.10 -- ::= { smScriptEntry 10 }

smScriptLastChange OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The date and time when this script table entry was last
    modified. The value '0000000000000000'H is returned if
    the script table entry has not yet been modified.

    Note that the resetting of smScriptError is not considered
    a change of the script table entry."
DEFVAL { '0000000000000000'H }
-- 1.3.6.1.2.1.64.1.3.1.1.11 -- ::= { smScriptEntry 11 }
--
-- Access to script code via SNMP
--
-- The smCodeTable allows script code to be read and modified
-- via SNMP.
--

smCodeTable OBJECT-TYPE
SYNTAX SEQUENCE OF SmCodeEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains the script code for scripts that are
    written via SNMP write operations."
-- 1.3.6.1.2.1.64.1.3.2 -- ::= { smScriptObjects 2 }

smCodeEntry OBJECT-TYPE
SYNTAX SmCodeEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "An entry describing a particular fragment of a script."
INDEX {
    smScriptOwner,
    smScriptName,
    smCodeIndex
}
-- 1.3.6.1.2.1.64.1.3.2.1 -- ::= { smCodeTable 1 }

SmCodeEntry ::= SEQUENCE {
    smCodeIndex Unsigned32,
    smCodeText OCTET STRING,
    smCodeRowStatus RowStatus
}

smCodeIndex OBJECT-TYPE
SYNTAX Unsigned32 (1..4294967295)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The index value identifying this code fragment."
-- 1.3.6.1.2.1.64.1.3.2.1.1 -- ::= { smCodeEntry 1 }

smCodeText OBJECT-TYPE

```

```
SYNTAX      OCTET STRING (SIZE (1..1024))
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
```

```
"The code that makes up a fragment of a script. The format
of this code fragment depends on the script language which
is identified by the associated smScriptLanguage object."
```

```
-- 1.3.6.1.2.1.64.1.3.2.1.2 -- ::= { smCodeEntry 2 }
```

smCodeRowStatus OBJECT-TYPE

```
SYNTAX      RowStatus
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
```

```
"A control that allows entries to be added and removed from
this table.
```

```
The value of this object has no effect on whether other
objects in this conceptual row can be modified."
```

```
-- 1.3.6.1.2.1.64.1.3.2.1.3 -- ::= { smCodeEntry 3 }
```

```
--
-- Script execution.
```

```
--
-- This group defines tables which allow script execution to be
-- initiated, suspended, resumed, and terminated. It also provides
-- a mechanism for keeping a history of recent script executions
-- and their results.
```

smRunObjects OBJECT IDENTIFIER

```
-- 1.3.6.1.2.1.64.1.4 -- ::= { smObjects 4 }
```

smLaunchTable OBJECT-TYPE

```
SYNTAX      SEQUENCE OF SmLaunchEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

```
"This table lists and describes scripts that are ready
to be executed together with their parameters."
```

```
-- 1.3.6.1.2.1.64.1.4.1 -- ::= { smRunObjects 1 }
```

smLaunchEntry OBJECT-TYPE

```
SYNTAX      SmLaunchEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

```
"An entry describing a particular executable script."
```

```
INDEX {
    smLaunchOwner,
    smLaunchName
}
```

```
-- 1.3.6.1.2.1.64.1.4.1.1 -- ::= { smLaunchTable 1 }
```

SmLaunchEntry ::= SEQUENCE {

```
    smLaunchOwner      SnmpAdminString,
    smLaunchName       SnmpAdminString,
    smLaunchScriptOwner SnmpAdminString,
    smLaunchScriptName SnmpAdminString,
    smLaunchArgument   OCTET STRING,
    smLaunchMaxRunning Unsigned32,
    smLaunchMaxCompleted Unsigned32,
    smLaunchLifeTime   TimeInterval,
    smLaunchExpireTime TimeInterval,
    smLaunchStart      Integer32,
    smLaunchControl    INTEGER,
    smLaunchAdminStatus INTEGER,
    smLaunchOperStatus INTEGER,
    smLaunchRunIndexNext Integer32,
    smLaunchStorageType StorageType,
```

```
smLaunchRowStatus      RowStatus,
smLaunchError          SnmpAdminString,
smLaunchLastChange     DateAndTime,
smLaunchRowExpireTime  TimeInterval
```

```
}
```

smLaunchOwner OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The manager who owns this row in the smLaunchTable. Every instance of a running script started from a particular entry in the smLaunchTable (i.e. entries in the smRunTable) will be owned by the same smLaunchOwner used to index the entry in the smLaunchTable. This owner is not necessarily the same as the owner of the script itself (smLaunchScriptOwner)."

```
-- 1.3.6.1.2.1.64.1.4.1.1.1 -- ::= { smLaunchEntry 1 }
```

smLaunchName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The locally-unique, administratively assigned name for this launch table entry. This object allows an smLaunchOwner to have multiple entries in the smLaunchTable. The smLaunchName is an arbitrary name that must be different from any other smLaunchTable entries with the same smLaunchOwner but can be the same as other entries in the smLaunchTable with different smLaunchOwner values. Note that the value of smLaunchName is not related in any way to the name of the script being launched."

```
-- 1.3.6.1.2.1.64.1.4.1.1.2 -- ::= { smLaunchEntry 2 }
```

smLaunchScriptOwner OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of this object in combination with the value of smLaunchScriptName identifies the script that can be launched from this smLaunchTable entry. Attempts to write this object will fail with an inconsistentValue error if the value of smLaunchOperStatus is 'enabled'."

```
-- 1.3.6.1.2.1.64.1.4.1.1.3 -- ::= { smLaunchEntry 3 }
```

smLaunchScriptName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..32))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of this object in combination with the value of the smLaunchScriptOwner identifies the script that can be launched from this smLaunchTable entry. The zero-length string may be used to point to a non-existing script."

Attempts to write this object will fail with an inconsistentValue error if the value of smLaunchOperStatus is 'enabled'."

DEFVAL { 'H' }

```
-- 1.3.6.1.2.1.64.1.4.1.1.4 -- ::= { smLaunchEntry 4 }
```

smLaunchArgument OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The argument supplied to the script. When a script is invoked, the value of this object is used to initialize the smRunArgument object."

DEFVAL { 'H' }

-- 1.3.6.1.2.1.64.1.4.1.1.5 -- ::= { smLaunchEntry 5 }

smLaunchMaxRunning OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of concurrently running scripts that may be invoked from this entry in the smLaunchTable. Lowering the current value of this object does not affect any scripts that are already executing."

DEFVAL { 1 }

-- 1.3.6.1.2.1.64.1.4.1.1.6 -- ::= { smLaunchEntry 6 }

smLaunchMaxCompleted OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of finished scripts invoked from this entry in the smLaunchTable allowed to be retained in the smRunTable. Whenever the value of this object is changed and whenever a script terminates, entries in the smRunTable are deleted if necessary until the number of completed scripts is smaller than the value of this object. Scripts whose smRunEndTime value indicates the oldest completion time are deleted first."

DEFVAL { 1 }

-- 1.3.6.1.2.1.64.1.4.1.1.7 -- ::= { smLaunchEntry 7 }

smLaunchLifeTime OBJECT-TYPE

SYNTAX TimeInterval

UNITS "centi-seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The default maximum amount of time a script launched from this entry may run. The value of this object is used to initialize the smRunLifeTime object when a script is launched. Changing the value of an smLaunchLifeTime instance does not affect scripts previously launched from this entry."

DEFVAL { 360000 }

-- 1.3.6.1.2.1.64.1.4.1.1.8 -- ::= { smLaunchEntry 8 }

smLaunchExpireTime OBJECT-TYPE

SYNTAX TimeInterval

UNITS "centi-seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The default maximum amount of time information about a script launched from this entry is kept in the smRunTable after the script has completed execution. The value of this object is used to initialize the smRunExpireTime object when a script is launched. Changing the value of an smLaunchExpireTime instance does not affect scripts previously launched from this entry."

DEFVAL { 360000 }

-- 1.3.6.1.2.1.64.1.4.1.1.9 -- ::= { smLaunchEntry 9 }

smLaunchStart OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used to start the execution of scripts. When retrieved, the value will be the value of `smRunIndex` for the last script that started execution by manipulating this object. The value will be zero if no script started execution yet.

A script is started by setting this object to an unused `smRunIndex` value. A new row in the `smRunTable` will be created which is indexed by the value supplied by the `set-request` in addition to the value of `smLaunchOwner` and `smLaunchName`. An unused value can be obtained by reading the `smLaunchRunIndexNext` object.

Setting this object to the special value 0 will start the script with a self-generated `smRunIndex` value. The consequence is that the script invoker has no reliable way to determine the `smRunIndex` value for this script invocation and that the invoker has therefore no way to obtain the results from this script invocation. The special value 0 is however useful for scheduled script invocations.

If this object is set, the following checks must be performed:

- 1) The value of the `smLaunchOperStatus` object in this entry of the `smLaunchTable` must be `'enabled'`.
- 2) The values of `smLaunchScriptOwner` and `smLaunchScriptName` of this row must identify an existing entry in the `smScriptTable`.
- 3) The value of `smScriptOperStatus` of this entry must be `'enabled'`.
- 4) The principal performing the set operation must have read access to the script. This must be checked by calling the `isAccessAllowed` abstract service interface defined in RFC 2271 on the row in the `smScriptTable` identified by `smLaunchScriptOwner` and `smLaunchScriptName`. The `isAccessAllowed` abstract service interface must be called on all columnar objects in the `smScriptTable` with a `MAX-ACCESS` value different than `'not-accessible'`. The test fails as soon as a call indicates that access is not allowed.
- 5) If the value provided by the set operation is not 0, a check must be made that the value is currently not in use. Otherwise, if the value provided by the set operation is 0, a suitable unused value must be generated.
- 6) The number of currently executing scripts invoked from this `smLaunchTable` entry must be less than `smLaunchMaxRunning`.

Attempts to start a script will fail with an `inconsistentValue` error if one of the checks described above fails.

Otherwise, if all checks have been passed, a new entry in the `smRunTable` will be created indexed by `smLaunchOwner`, `smLaunchName` and the new value for `smRunIndex`. The value of `smLaunchArgument` will be copied into `smRunArgument`, the value of `smLaunchLifeTime` will be copied to `smRunLifeTime`, and the value of `smLaunchExpireTime` will be copied to `smRunExpireTime`.

The `smRunStartTime` will be set to the current time and the `smRunState` will be set to `'initializing'` before the script execution is initiated in the appropriate runtime system.

Note that the data type and the range of this object must be consistent with the *smRunIndex* object. Since this object might be written from the scheduling MIB, the data type *Integer32* rather than *Unsigned32* is used."

DEFVAL { 0 }

-- 1.3.6.1.2.1.64.1.4.1.1.10 -- ::= { smLaunchEntry 10 }

smLaunchControl OBJECT-TYPE

SYNTAX INTEGER {
abort(1),
suspend(2),
resume(3),
nop(4) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used to request a state change for all running scripts in the *smRunTable* that were started from this row in the *smLaunchTable*.

Setting this object to *abort(1)*, *suspend(2)* or *resume(3)* will set the *smRunControl* object of all applicable rows in the *smRunTable* to *abort(1)*, *suspend(2)* or *resume(3)* respectively. The phrase 'applicable rows' means the set of rows which were created from this entry in the *smLaunchTable* and whose value of *smRunState* allows the corresponding state change as described in the definition of the *smRunControl* object. Setting this object to *nop(4)* has no effect.

Attempts to set this object lead to an *inconsistentValue* error only if all implicated sets on all the applicable rows lead to *inconsistentValue* errors. It is not allowed to return an *inconsistentValue* error if at least one state change on one of the applicable rows was successful."

DEFVAL { nop }

-- 1.3.6.1.2.1.64.1.4.1.1.11 -- ::= { smLaunchEntry 11 }

smLaunchAdminStatus OBJECT-TYPE

SYNTAX INTEGER {
enabled(1),
disabled(2),
autostart(3) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of this object indicates the desired status of this launch table entry. The values *enabled(1)* and *autostart(3)* both indicate that the launch table entry should transition into the operational *enabled(1)* state as soon as the associated script table entry is *enabled(1)*.

The value *autostart(3)* further indicates that the script is started automatically by conceptually writing the value 0 into the associated *smLaunchStart* object during the transition from the 'disabled' into the 'enabled' operational state. This is useful for scripts that are to be launched on system start-up."

DEFVAL { disabled }

-- 1.3.6.1.2.1.64.1.4.1.1.12 -- ::= { smLaunchEntry 12 }

smLaunchOperStatus OBJECT-TYPE

SYNTAX INTEGER {
enabled(1),
disabled(2),
expired(3) }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of this object indicates the actual status of this launch table entry. The `smLaunchOperStatus` object may have the following values:

- `'enabled'` indicates that the launch table entry is available and can be used to start scripts.
- `'disabled'` indicates that the launch table entry can not be used to start scripts.
- `'expired'` indicates that the launch table entry can not be used to start scripts and will disappear as soon as all `smRunTable` entries associated with this launch table entry have disappeared.

The value `'enabled'` requires that the `smLaunchRowStatus` object is active. The value `'disabled'` requires that there are no entries in the `smRunTable` associated with this `smLaunchTable` entry."

```
DEFVAL      { disabled }
-- 1.3.6.1.2.1.64.1.4.1.1.13 -- ::= { smLaunchEntry 13 }
```

`smLaunchRunIndexNext` OBJECT-TYPE

```
SYNTAX      Integer32 (1..2147483647)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

"This variable is used for creating rows in the `smRunTable`. The value of this variable is a currently unused value for `smRunIndex`, which can be written into the `smLaunchStart` object associated with this row to launch a script.

The value returned when reading this variable must be unique for the `smLaunchOwner` and `smLaunchName` associated with this row. Subsequent attempts to read this variable must return different values.

This variable will return the special value 0 if no new rows can be created.

Note that the data type and the range of this object must be consistent with the definition of `smRunIndex`."

```
-- 1.3.6.1.2.1.64.1.4.1.1.14 -- ::= { smLaunchEntry 14 }
```

`smLaunchStorageType` OBJECT-TYPE

```
SYNTAX      StorageType
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
```

"This object defines if this row is kept in volatile storage and lost upon reboot or if this row is backed up by stable storage.

The value of `smLaunchStorageType` is only meaningful if the value of the corresponding `RowStatus` object is active.

If `smLaunchStorageType` has the value `permanent(4)`, then all objects whose `MAX-ACCESS` value is `read-create` must be writable, with the exception of the `smLaunchStorageType` and `smLaunchRowStatus` objects, which shall be `read-only`."

```
DEFVAL      { volatile }
-- 1.3.6.1.2.1.64.1.4.1.1.15 -- ::= { smLaunchEntry 15 }
```

`smLaunchRowStatus` OBJECT-TYPE

```
SYNTAX      RowStatus
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
```

"A control that allows entries to be added and removed from

this table.

Attempts to `destroy` a row or to set a row `notInService` while the `smLaunchOperStatus` is `enabled` will result in an `inconsistentValue` error.

Attempts to `destroy` a row or to set a row `notInService` where the value of the `smLaunchStorageType` object is `permanent` or `readOnly` will result in an `inconsistentValue` error.

The value of this object has no effect on whether other objects in this conceptual row can be modified."

```
-- 1.3.6.1.2.1.64.1.4.1.1.16 -- ::= { smLaunchEntry 16 }
```

`smLaunchError` OBJECT-TYPE

SYNTAX `SnmAdminString`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"This object contains a descriptive error message if an attempt to launch a script fails. Implementations must reset the error message to a zero-length string when a new attempt to launch a script is started."

DEFVAL { 'H' }

```
-- 1.3.6.1.2.1.64.1.4.1.1.17 -- ::= { smLaunchEntry 17 }
```

`smLaunchLastChange` OBJECT-TYPE

SYNTAX `DateAndTime`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

"The date and time when this launch table entry was last modified. The value '0000000000000000'H is returned if the launch table entry has not yet been modified.

Note that a change of `smLaunchStart`, `smLaunchControl`, `smLaunchRunIndexNext`, `smLaunchRowExpireTime`, or the resetting of `smLaunchError` is not considered a change of this launch table entry."

DEFVAL { '0000000000000000'H }

```
-- 1.3.6.1.2.1.64.1.4.1.1.18 -- ::= { smLaunchEntry 18 }
```

`smLaunchRowExpireTime` OBJECT-TYPE

SYNTAX `TimeInterval`

UNITS "centi-seconds"

MAX-ACCESS `read-create`

STATUS `current`

DESCRIPTION

"The value of this object specifies how long this row remains in the `enabled` or `disabled` operational state. The value reported by this object ticks backwards. When the value reaches 0, it stops ticking backward and the row is deleted if there are no `smRunTable` entries associated with this `smLaunchTable` entry. Otherwise, the `smLaunchOperStatus` changes to `expired` and the row deletion is deferred until there are no `smRunTable` entries associated with this `smLaunchTable` entry.

The `smLaunchRowExpireTime` will not tick backwards if it is set to its maximum value (2147483647). In other words, setting this object to its maximum value turns the timer off.

The value of this object may be set in order to increase or reduce the remaining time that the launch table entry may be used. Setting the value to 0 will cause an immediate row deletion or transition into the `expired` operational state.

It is not possible to set this object while the operational status is `expired`. Attempts to modify this object while the operational status is `expired` leads to an inconsistentValue error.

Note that the timer ticks backwards independent of the operational state of the launch table entry."

```
DEFVAL { 2147483647 }  
-- 1.3.6.1.2.1.64.1.4.1.1.19 -- ::= { smLaunchEntry 19 }
```

smRunTable OBJECT-TYPE

```
SYNTAX SEQUENCE OF SmRunEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION
```

"This table lists and describes scripts that are currently running or have been running in the past."

```
-- 1.3.6.1.2.1.64.1.4.2 -- ::= { smRunObjects 2 }
```

smRunEntry OBJECT-TYPE

```
SYNTAX SmRunEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION
```

"An entry describing a particular running or finished script."

```
INDEX {  
    smLaunchOwner,  
    smLaunchName,  
    smRunIndex  
}
```

```
-- 1.3.6.1.2.1.64.1.4.2.1 -- ::= { smRunTable 1 }
```

```
SmRunEntry ::= SEQUENCE {  
    smRunIndex Integer32,  
    smRunArgument OCTET STRING,  
    smRunStartTime DateAndTime,  
    smRunEndTime DateAndTime,  
    smRunLifeTime TimeInterval,  
    smRunExpireTime TimeInterval,  
    smRunExitCode INTEGER,  
    smRunResult OCTET STRING,  
    smRunControl INTEGER,  
    smRunState INTEGER,  
    smRunError SnmpAdminString,  
    smRunResultTime DateAndTime,  
    smRunErrorTime DateAndTime  
}
```

smRunIndex OBJECT-TYPE

```
SYNTAX Integer32 (1..2147483647)  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION
```

"The locally arbitrary, but unique identifier associated with this running or finished script. This value must be unique for all rows in the smRunTable with the same smLaunchOwner and smLaunchName."

Note that the data type and the range of this object must be consistent with the definition of smLaunchRunIndexNext and smLaunchStart."

```
-- 1.3.6.1.2.1.64.1.4.2.1.1 -- ::= { smRunEntry 1 }
```

smRunArgument OBJECT-TYPE

```
SYNTAX OCTET STRING  
MAX-ACCESS read-only  
STATUS current
```

DESCRIPTION

"The argument supplied to the script when it started."

DEFVAL { 'H' }

-- 1.3.6.1.2.1.64.1.4.2.1.2 -- ::= { smRunEntry 2 }

smRunStartTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time when the execution started. The value '0000000000000000'H is returned if the script has not started yet."

DEFVAL { '0000000000000000'H }

-- 1.3.6.1.2.1.64.1.4.2.1.3 -- ::= { smRunEntry 3 }

smRunEndTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time when the execution terminated. The value '0000000000000000'H is returned if the script has not terminated yet."

DEFVAL { '0000000000000000'H }

-- 1.3.6.1.2.1.64.1.4.2.1.4 -- ::= { smRunEntry 4 }

smRunLifeTime OBJECT-TYPE

SYNTAX TimeInterval

UNITS "centi-seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies how long the script can execute. This object returns the remaining time that the script may run. The object is initialized with the value of the associated smLaunchLifeTime object and ticks backwards. The script is aborted immediately when the value reaches 0.

The value of this object may be set in order to increase or reduce the remaining time that the script may run. Setting this value to 0 will abort script execution immediately, and, if the value of smRunExpireTime is also 0, will remove this entry from the smRunTable once it has terminated.

If smRunLifeTime is set to its maximum value (2147483647), either by a set operation or by its initialization from the smLaunchLifeTime object, then it will not tick backwards. A running script with a maximum smRunLifeTime value will thus never be terminated with a 'lifeTimeExceeded' exit code.

The value of smRunLifeTime reflects the real-time execution time as seen by the outside world. The value of this object will always be 0 for a script that finished execution, that is smRunState has the value 'terminated'.

The value of smRunLifeTime does not change while a script is suspended, that is smRunState has the value 'suspended'. Note that this does not affect set operations. It is legal to modify smRunLifeTime via set operations while a script is suspended."

-- 1.3.6.1.2.1.64.1.4.2.1.5 -- ::= { smRunEntry 5 }

smRunExpireTime OBJECT-TYPE

SYNTAX TimeInterval

UNITS "centi-seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value of this object specifies how long this row can exist in the `smRunTable` after the script has terminated. This object returns the remaining time that the row may exist before it is aged out. The object is initialized with the value of the associated `smLaunchExpireTime` object and ticks backwards. The entry in the `smRunTable` is destroyed when the value reaches 0 and the `smRunState` has the value `'terminated'`.

The value of this object may be set in order to increase or reduce the remaining time that the row may exist. Setting the value to 0 will destroy this entry as soon as the `smRunState` has the value `'terminated'`."

```
-- 1.3.6.1.2.1.64.1.4.2.1.6 -- ::= { smRunEntry 6 }
```

smRunExitCode OBJECT-TYPE

```
SYNTAX      INTEGER {
    noError(1),
    halted(2),
    lifeTimeExceeded(3),
    noResourcesLeft(4),
    languageError(5),
    runtimeError(6),
    invalidArgument(7),
    securityViolation(8),
    genericError(9) }
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of this object indicates the reason why a script finished execution. The `smRunExitCode` code may have one of the following values:

- `'noError'`, which indicates that the script completed successfully without errors;
- `'halted'`, which indicates that the script was halted by a request from an authorized manager;
- `'lifeTimeExceeded'`, which indicates that the script exited because a time limit was exceeded;
- `'noResourcesLeft'`, which indicates that the script exited because it ran out of resources (e.g. memory);
- `'languageError'`, which indicates that the script exited because of a language error (e.g. a syntax error in an interpreted language);
- `'runtimeError'`, which indicates that the script exited due to a runtime error (e.g. a division by zero);
- `'invalidArgument'`, which indicates that the script could not be run because of invalid script arguments;
- `'securityViolation'`, which indicates that the script exited due to a security violation;
- `'genericError'`, which indicates that the script exited for an unspecified reason.

If the script has not yet begun running, or is currently running, the value will be `'noError'`."

```
DEFVAL      { noError }
```

```
-- 1.3.6.1.2.1.64.1.4.2.1.7 -- ::= { smRunEntry 7 }
```

smRunResult OBJECT-TYPE

```
SYNTAX      OCTET STRING
```

MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The result value produced by the running script. Note that the result may change while the script is executing."

DEFVAL { 'H' }

-- 1.3.6.1.2.1.64.1.4.2.1.8 -- ::= { smRunEntry 8 }

smRunControl OBJECT-TYPE

SYNTAX INTEGER {
abort(1),
suspend(2),
resume(3),
nop(4) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value of this object indicates the desired status of the script execution defined by this row."

Setting this object to `abort' will abort execution if the value of smRunState is `initializing', `executing', `suspending', `suspended' or `resuming'. Setting this object to `abort' when the value of smRunState is `aborting' or `terminated', or if the implementation can determine that the attempt to abort the execution would fail, will result in an inconsistentValue error.

Setting this object to `suspend' will suspend execution if the value of smRunState is `executing'. Setting this object to `suspend' will cause an inconsistentValue error if the value of smRunState is not `executing' or if the implementation can determine that the attempt to suspend the execution would fail.

Setting this object to `resume' will resume execution if the value of smRunState is `suspending' or `suspended'. Setting this object to `resume' will cause an inconsistentValue error if the value of smRunState is not `suspended' or if the implementation can determine that the attempt to resume the execution would fail.

Setting this object to nop(4) has no effect."

DEFVAL { nop }

-- 1.3.6.1.2.1.64.1.4.2.1.9 -- ::= { smRunEntry 9 }

smRunState OBJECT-TYPE

SYNTAX INTEGER {
initializing(1),
executing(2),
suspending(3),
suspended(4),
resuming(5),
aborting(6),
terminated(7) }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of this object indicates the script's execution state. If the script has been invoked but has not yet begun execution, the value will be `initializing'. If the script is running, the value will be `executing'."

A running script which received a request to suspend execution first transitions into a temporary `suspending' state. The temporary `suspending' state changes to `suspended' when the script has actually been suspended. The temporary `suspending' state changes back to `executing' if the attempt to suspend the running script fails.

A suspended script which received a request to resume execution first transitions into a temporary `resuming` state. The temporary `resuming` state changes to `running` when the script has actually been resumed. The temporary `resuming` state changes back to `suspended` if the attempt to resume the suspended script fails.

A script which received a request to abort execution but which is still running first transitions into a temporary `aborting` state.

A script which has finished its execution is `terminated`."

```
-- 1.3.6.1.2.1.64.1.4.2.1.10 -- ::= { smRunEntry 10 }
```

smRunError OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains a descriptive error message if the script startup or execution raised an abnormal condition. An implementation must store a descriptive error message in this object if the script exits with the smRunExitCode `genericError`."

DEFVAL { 'H' }

```
-- 1.3.6.1.2.1.64.1.4.2.1.11 -- ::= { smRunEntry 11 }
```

smRunResultTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time when the smRunResult was last updated. The value '0000000000000000'H is returned if smRunResult has not yet been updated after the creation of this smRunTable entry."

DEFVAL { '0000000000000000'H }

```
-- 1.3.6.1.2.1.64.1.4.2.1.12 -- ::= { smRunEntry 12 }
```

smRunErrorTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time when the smRunError was last updated. The value '0000000000000000'H is returned if smRunError has not yet been updated after the creation of this smRunTable entry."

DEFVAL { '0000000000000000'H }

```
-- 1.3.6.1.2.1.64.1.4.2.1.13 -- ::= { smRunEntry 13 }
```

```
--  
-- Notifications. The definition of smTraps makes notification  
-- registrations reversible (see STD 58, RFC 2578).  
--
```

smTraps OBJECT IDENTIFIER

```
-- 1.3.6.1.2.1.64.2.0 -- ::= { smNotifications 0 }
```

smScriptAbort NOTIFICATION-TYPE

OBJECTS {
 smRunExitCode,
 smRunEndTime,
 smRunError
}

STATUS current

DESCRIPTION

"This notification is generated whenever a running script terminates with an smRunExitCode unequal to `noError`."

```

-- 1.3.6.1.2.1.64.2.0.1 -- ::= { smTraps 1 }

smScriptResult NOTIFICATION-TYPE
    OBJECTS {
        smRunResult
    }
    STATUS current
    DESCRIPTION
        "This notification can be used by scripts to notify other
        management applications about results produced by the
        script.

        This notification is not automatically generated by the
        Script MIB implementation. It is the responsibility of
        the executing script to emit this notification where it
        is appropriate to do so."
-- 1.3.6.1.2.1.64.2.0.2 -- ::= { smTraps 2 }

smScriptException NOTIFICATION-TYPE
    OBJECTS {
        smRunError
    }
    STATUS current
    DESCRIPTION
        "This notification can be used by scripts to notify other
        management applications about script errors.

        This notification is not automatically generated by the
        Script MIB implementation. It is the responsibility of
        the executing script or the runtime system to emit this
        notification where it is appropriate to do so."
-- 1.3.6.1.2.1.64.2.0.3 -- ::= { smTraps 3 }
-- conformance information

smCompliances OBJECT IDENTIFIER
-- 1.3.6.1.2.1.64.3.1 -- ::= { smConformance 1 }

smGroups OBJECT IDENTIFIER
-- 1.3.6.1.2.1.64.3.2 -- ::= { smConformance 2 }
-- compliance statements

smCompliance2 MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "The compliance statement for SNMP entities which implement
        the Script MIB."
    MODULE
    MANDATORY-GROUPS {
        smLanguageGroup,
        smScriptGroup2,
        smLaunchGroup2,
        smRunGroup2,
        smNotificationsGroup2
    }
    VARIATION smCodeGroup
    DESCRIPTION
        "The smCodeGroup is mandatory only for those implementations
        that support the downloading of scripts via SNMP."
    OBJECT smScriptSource
        MIN-ACCESS read-only
        DESCRIPTION
            "The smScriptSource object is read-only for implementations
            that are not able to download script code from a URL."
    OBJECT smCodeText
        DESCRIPTION
            "A compliant implementation need only support write access to
            the smCodeText object only during row creation."
    OBJECT smLaunchArgument
        DESCRIPTION

```

```

        "A compliant implementation has to support a minimum size
        for smLaunchArgument of 255 octets."
OBJECT      smRunArgument
DESCRIPTION
        "A compliant implementation has to support a minimum size
        for smRunArgument of 255 octets."
OBJECT      smRunResult
DESCRIPTION
        "A compliant implementation has to support a minimum size
        for smRunResult of 255 octets."
OBJECT      smRunState
DESCRIPTION
        "A compliant implementation does not have to support script
        suspension and the smRunState `suspended'. Such an
        implementation will change into the `suspending' state
        when the smRunControl is set to `suspend' and remain in this
        state until smRunControl is set to `resume' or the script
        terminates."
-- 1.3.6.1.2.1.64.3.1.2 -- ::= { smCompliances 2 }

smLanguageGroup OBJECT-GROUP
OBJECTS {
    smLangLanguage,
    smLangVersion,
    smLangVendor,
    smLangRevision,
    smLangDescr,
    smExtsnExtension,
    smExtsnVersion,
    smExtsnVendor,
    smExtsnRevision,
    smExtsnDescr
}
STATUS      current
DESCRIPTION
        "A collection of objects providing information about the
        capabilities of the scripting engine."
-- 1.3.6.1.2.1.64.3.2.1 -- ::= { smGroups 1 }

smScriptGroup2 OBJECT-GROUP
OBJECTS {
    smScriptDescr,
    smScriptLanguage,
    smScriptSource,
    smScriptAdminStatus,
    smScriptOperStatus,
    smScriptStorageType,
    smScriptRowStatus,
    smScriptError,
    smScriptLastChange
}
STATUS      current
DESCRIPTION
        "A collection of objects providing information about
        installed scripts."
-- 1.3.6.1.2.1.64.3.2.7 -- ::= { smGroups 7 }

smCodeGroup OBJECT-GROUP
OBJECTS {
    smCodeText,
    smCodeRowStatus
}
STATUS      current
DESCRIPTION
        "A collection of objects used to download or modify scripts
        by using SNMP set requests."
-- 1.3.6.1.2.1.64.3.2.3 -- ::= { smGroups 3 }

smLaunchGroup2 OBJECT-GROUP

```

```

OBJECTS {
    smLaunchScriptOwner,
    smLaunchScriptName,
    smLaunchArgument,
    smLaunchMaxRunning,
    smLaunchMaxCompleted,
    smLaunchLifeTime,
    smLaunchExpireTime,
    smLaunchStart,
    smLaunchControl,
    smLaunchAdminStatus,
    smLaunchOperStatus,
    smLaunchRunIndexNext,
    smLaunchStorageType,
    smLaunchRowStatus,
    smLaunchError,
    smLaunchLastChange,
    smLaunchRowExpireTime
}
STATUS          current
DESCRIPTION
    "A collection of objects providing information about scripts
    that can be launched."
-- 1.3.6.1.2.1.64.3.2.8 -- ::= { smGroups 8 }

smRunGroup2 OBJECT-GROUP
OBJECTS {
    smRunArgument,
    smRunStartTime,
    smRunEndTime,
    smRunLifeTime,
    smRunExpireTime,
    smRunExitCode,
    smRunResult,
    smRunState,
    smRunControl,
    smRunError,
    smRunResultTime,
    smRunErrorTime
}
STATUS          current
DESCRIPTION
    "A collection of objects providing information about running
    scripts."
-- 1.3.6.1.2.1.64.3.2.9 -- ::= { smGroups 9 }

smNotificationsGroup2 NOTIFICATION-GROUP
NOTIFICATIONS {
    smScriptAbort,
    smScriptResult,
    smScriptException
}
STATUS          current
DESCRIPTION
    "The notifications emitted by the Script MIB."
-- 1.3.6.1.2.1.64.3.2.10 -- ::= { smGroups 10 }
--
-- Deprecated compliance and conformance group definitions
-- from RFC 2592.
--

smCompliance MODULE-COMPLIANCE
STATUS          deprecated
DESCRIPTION
    "The compliance statement for SNMP entities which implement
    the Script MIB."
MODULE
MANDATORY-GROUPS {
    smLanguageGroup,

```

```

        smScriptGroup,
        smLaunchGroup,
        smRunGroup
    }
    VARIATION      smCodeGroup
    DESCRIPTION
        "The smCodeGroup is mandatory only for those implementations
        that support the downloading of scripts via SNMP."
    OBJECT        smScriptSource
    MIN-ACCESS     read-only
    DESCRIPTION
        "The smScriptSource object is read-only for implementations
        that are not able to download script code from a URL."
    OBJECT        smCodeText
    DESCRIPTION
        "A compliant implementation need only support write access
        to the smCodeText object during row creation."
    OBJECT        smLaunchArgument
    DESCRIPTION
        "A compliant implementation has to support a minimum size
        for smLaunchArgument of 255 octets."
    OBJECT        smRunArgument
    DESCRIPTION
        "A compliant implementation has to support a minimum size
        for smRunArgument of 255 octets."
    OBJECT        smRunResult
    DESCRIPTION
        "A compliant implementation has to support a minimum size
        for smRunResult of 255 octets."
    OBJECT        smRunState
    DESCRIPTION
        "A compliant implementation does not have to support script
        suspension and the smRunState `suspended'. Such an
        implementation will change into the `suspending' state
        when the smRunControl is set to `suspend' and remain in this
        state until smRunControl is set to `resume' or the script
        terminates."
-- 1.3.6.1.2.1.64.3.1.1 -- ::= { smCompliances 1 }

smScriptGroup OBJECT-GROUP
OBJECTS {
    smScriptDescr,
    smScriptLanguage,
    smScriptSource,
    smScriptAdminStatus,
    smScriptOperStatus,
    smScriptStorageType,
    smScriptRowStatus
}
STATUS      deprecated
DESCRIPTION
    "A collection of objects providing information about
    installed scripts."
-- 1.3.6.1.2.1.64.3.2.2 -- ::= { smGroups 2 }

smLaunchGroup OBJECT-GROUP
OBJECTS {
    smLaunchScriptOwner,
    smLaunchScriptName,
    smLaunchArgument,
    smLaunchMaxRunning,
    smLaunchMaxCompleted,
    smLaunchLifeTime,
    smLaunchExpireTime,
    smLaunchStart,
    smLaunchControl,
    smLaunchAdminStatus,
    smLaunchOperStatus,
    smLaunchRunIndexNext,

```

```

        smLaunchStorageType,
        smLaunchRowStatus
    }
    STATUS      deprecated
    DESCRIPTION
        "A collection of objects providing information about scripts
        that can be launched."
-- 1.3.6.1.2.1.64.3.2.4 -- ::= { smGroups 4 }

smRunGroup OBJECT-GROUP
    OBJECTS {
        smRunArgument,
        smRunStartTime,
        smRunEndTime,
        smRunLifeTime,
        smRunExpireTime,
        smRunExitCode,
        smRunResult,
        smRunState,
        smRunControl,
        smRunError
    }
    STATUS      deprecated
    DESCRIPTION
        "A collection of objects providing information about running
        scripts."
-- 1.3.6.1.2.1.64.3.2.5 -- ::= { smGroups 5 }

smNotificationsGroup NOTIFICATION-GROUP
    NOTIFICATIONS {
        smScriptAbort,
        smScriptResult
    }
    STATUS      deprecated
    DESCRIPTION
        "The notifications emitted by the Script MIB."
-- 1.3.6.1.2.1.64.3.2.6 -- ::= { smGroups 6 }

```

END

```

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--
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```