Internet Draft
<draft-bakke-iscsimib-02.txt>
Expires August 2001

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February 2000

Definitions of Managed Objects for SCSI over TCP

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2. Abstract

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in TCP/IP based internets. In particular it defines objects for managing a client using the iSCSI (SCSI over TCP) protocol. It is meant to match the latest version of iSCSI defined in [ISCSI].

3. Acknowledgments

In addition to the authors, several people contributed to the development of this MIB. Thanks especially to those who took the time to participate in our weekly conference calls to flesh out our requirements, object models, table structures, and attributes: Sudhakar Chellam, John Hufferd (IBM), Kevin Gibbons (Nishan), Chad Gregory (Intel), Jack Harwood (EMC), Hari Mudaliar (Adaptec), Ie Wei Njoo (Agilent), Lawrence Lamers (SAN Valley), Satish Mali (Stonefly Networks), and William Terrell (Troika).

4. The SNMP Management Framework

The SNMP Management Framework presently consists of five major components:

- An overall architecture, described in RFC 2571 [RFC2571].

- Mechanisms for describing and naming objects and events for the purpose of management. The first version of this Structure of Management Information (SMI) is called SMIv1 and described in STD 16, RFC 1155 [RFC1155], STD 16, RFC 1212 [RFC1212] and RFC 1215 [RFC1215]. The second version, called SMIv2, is described in STD 58, RFC 2578 [RFC2578], STD 58, RFC 2579 [RFC2579] and STD 58, RFC 2580 [RFC2580].

- Message protocols for transferring management information. The first version of the SNMP message protocol is called SNMPv1 and described in STD 15, RFC 1157 [RFC1157]. A second version of the SNMP message protocol, which is not an Internet standards track protocol, is called SNMPv2c and described in RFC 1901 [RFC1901] and RFC 1906 [RFC1906]. The third version of the message protocol is called SNMPv3 and described in RFC 1906 [RFC1906], RFC 2572 [RFC2572] and RFC 2574 [RFC2574].

- Protocol operations for accessing management information. The first set of protocol operations and associated PDU formats is described in STD 15, RFC 1157 [RFC1157]. A second set of protocol operations and associated PDU formats is described in RFC 1905 [RFC1905].

- A set of fundamental applications described in RFC 2573 [RFC2573] and the view-based access control mechanism described in RFC 2575 [RFC2575].

A more detailed introduction to the current SNMP Management Framework can be found in RFC 2570 [RFC2570].

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using the mechanisms defined in the SMI.

This memo specifies a MIB module that is compliant to the SMIv2. A MIB conforming to the SMIv1 can be produced through the appropriate translations. The resulting translated MIB must be semantically equivalent, except where objects or events are omitted because no translation is possible (use of Counter64). Some machine readable information in SMIv2 will be converted into textual descriptions in SMIv1 during the translation process. However, this loss of machine readable information is not considered to change the semantics of the MIB.

5. Discussion

This MIB structure is intended to satisfy fault, configuration, and performance management for an iSCSI implementation. It is structured around the well-known iSCSI objects, such as targets, initiators, sessions, connections, and the like.

It is worthwhile to note that this is an iSCSI MIB and and such reflects only iSCSI objects (real or virtual). This means that this MIB will not directly deal with real SCSI objects or the SCSI protocol in general. This should be dealt with in a SCSI MIB if such a beast exists. The iSCSI tables that would likely have parallel objects in a SCSI MIB contain a RowPointer, which can be used to point to the corresponding object in a standard or proprietary SCSI MIB, should one exist.

The iSCSI MIB consists of ten objects, each of which is represented by several different tables. This section contains a brief description of the "object" hierarchy and a description of each object, followed by a discussion of the actual SNMP table structure within the objects.

5.1. Overall MIB structure

The top-level object in this structure is the iSCSI instance, which contains all of the other objects.

```
iscsiInstance
   -- A distinct iSCSI entity within the managed system.
   -- Most implementations will have one of these.
   iscsiListenPort
      -- An IP Address and TCP Port pair on which this instance is
      -- listening for connections to its targets.
```

```
iscsiSession
   -- An active iSCSI session between an initiator and a target.
   -- A session may be Inbound (outside initiator to our target)
   -- or Outbound (our initiator to an outside target).
   iscsiConnection
      -- An active TCP connection within an iSCSI session
   iscsiLun
      -- A logical unit number mapping
      -- Usually, one for each LUN that the target has accessed
      -- on this section.
iscsiTarget
   -- An iSCSI target to which this iSCSI instance is providing
   -- access.
   iscsiLU
      -- A logical unit to which this iSCSI target provides access.
   iscsiAccessList
      -- A list of initiators that are allowed access to this
      -- target.
iscsiInitiator
   -- An iSCSI initiator, used by this iSCSI instance to access
   -- iSCSI targets.
```

An Instance can contain Initiators, Targets, or both. Multiple ListenPorts may be present; the MIB assumes that any Target may be accessed via any ListenPort, although other access controls not reflected in the MIB might limit this.

While Logical Units and LUNs are SCSI-level entities, they are known to the iSCSI-layer addressing. Appropriate information and statistics at the iSCSI level may be kept for each of these. They do provide the capability to be correlated to a SCSI MIB, should one be created; please see the detailed descriptions of these tables for more information. LUs and LUNs are not identical. An LU is a thing, like a disk or tape drive; a LUN is an address through which it is accessed. Therefore, LUs are "owned" by Targets, and LUNs are owned by Sessions.

5.2. MIB "object" structure

Each iSCSI "object" is comprised of several tables, which will make it easier to navigate the iSCSI MIB from a graphical browser, and to update the iSCSI MIB in the future.

Placing all of the indices, attributes, and statistics for each object in the same table would make the addition of new statistics and attributes appear messy. Since iSCSI is an evolving standard, it is worth having a few extra tables to make this easier. To this end, the attributes and statistics have been placed in separate tables,

which augment the main indexed table for each object. Since there are several categories of statistics that will likely grow, most of the objects contain several statistics tables.

The following structure is used for all objects. Just replace the "*" in the following names with the iSCSI object name in which you are interested. For instance, the Target object would be iscsiTargetInfo.

```
iscsi*Info
   -- The main structure holding objects of a given type
   iscsi*Objects
      -- sub-iscsi*Info structures go here
      -- Example:  iscsiTargetInfo belongs under iscsiInstanceObjects
      -- and iscsiConnnectionInfo belongs under iscsiSessionObjects
   iscsi*Scalars
      -- iscsi*Info scalars go here
   iscsi*Table
      iscsi*Entry
         -- iscsi*Table index attributes
   iscsi*AttributesTable
      iscsi*AttributesEntry
         -- Augments iscsi*Entry
         -- iscsi*Entry non-statistical attributes
   iscsi*StatsTable
      iscsi*StatsEntry
         -- Augments iscsi*Entry
         -- iscsi*Entry generic statistical attributes
         -- Examples: Total requests, responses, data bytes
   iscsi*CxnErrorStatsTable
      iscsi*CxnErrorStatsEntry
         -- Augments iscsi*Entry
         -- Connection error statistics
         -- Appropriate for Initiator, Target, Session, ListenPort
         -- Examples:  Digest, framing, and connection timeout errors
   iscsi*TxCmdStatsTable
      iscsi*TxCmdStatsEntry
         -- Augments iscsi*Entry
         -- Number of each type of iSCSI request PDU transmitted
         -- Appropriate for Initiator, Session
         -- Examples:  TxScsiCmdPDUs, TxLoginCmdPDUs
   iscsi*RxCmdStatsTable
      iscsi*RxCmdStatsEntry
         -- Augments iscsi*Entry
         -- Number of each type of iSCSI request PDU received
         -- Appropriate for Target, Session
         -- Examples:  RxScsiCmdPDUs, RxLoginCmdPDUs
   iscsi*TxRspStatsTable
```

```
         iscsi*TxRspStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI response PDU transmitted
            -- Appropriate for Target, Session
            -- Examples:  TxScsiRspPDUs, TxLoginRspPDUs
      iscsi*RxRspStatsTable
         iscsi*RxRspStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI response PDU received
            -- Appropriate for Initiator, Session
            -- Examples:  RxScsiRspPDUs, RxLoginRspPDUs
      iscsi*TxStatusStatsTable
         iscsi*TxStatusStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI login status code transmitted
            -- Appropriate for Target, Session, ListenPort
            -- Examples:  TxStsAccepts, TxStsForbiddens
      iscsi*RxStatusStatsTable
         iscsi*RxStatusStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI login status code received
            -- Appropriate for Initiator, Session, ListenPort
            -- Examples:  RxStsAccepts, RxStsForbiddens
      iscsi*TxRejectStatsTable
         iscsi*TxRejectStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI reject code transmitted
            -- Appropriate for Target, Session
            -- Examples:  TxRjtFormats, TxRjtDataSacks
      iscsi*RxRejectStatsTable
         iscsi*RxRejectStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI reject code received
            -- Appropriate for Initiator, Session
            -- Examples:  RxRjtFormats, RxRjtDataSacks
      iscsi*TxLogoutStatsTable
         iscsi*TxLogoutStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI logout reason transmitted
            -- Appropriate for Initiator, Session
            -- Examples:  TxLgtSessionCloses, TxLgtCxnRecoveries
      iscsi*RxLogoutStatsTable
         iscsi*RxLogoutStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI logout reason received
            -- Appropriate for Target, Session
            -- Examples:  RxLgtSessionCloses, RxLgtCxnRecoveries
      iscsi*TxAsyncStatsTable
```

```
         iscsi*TxAsyncStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI async message transmitted
            -- Appropriate for Target, Session
            -- Examples:  TxAsyTargetResets, TxAsyLogoutRequests
      iscsi*RxAsyncStatsTable
         iscsi*RxAsyncStatsEntry
            -- Augments iscsi*Entry
            -- Number of each type of iSCSI async message received
            -- Appropriate for Initiator, Session
            -- Examples:  RxAsyTargetResets, RxAsyLogoutRequests
```

Not all of the StatsTables appear in each of the objects. For example, TxCmdStats (commands transmitted) is not appropriate for a TargetTable. Other statistics tables may be added as needed.

5.3. iscsiInstance

iscsiInstanceInfo is the primary table of the iSCSI MIB from which all other tables are derived. It contains the iscsiInstanceTable which lists all the known iSCSI instances accessible by the agent.

One could envision that there might be just one instance (or row in this table); however, it exists as a table to allow for multiple virtual instances. For example, many IP routing products now allow multiple virtual routers. The iscsiTable has the same premise.

Also, it is possible that for rack mounted systems, a single SNMP agent may control and monitor multiple boards or "blades" each of which have one or even more instances.

A scalar predecessor of the table called the iscsiInstanceNumber denotes the number of instances or rows in the iscsiInstanceTable. Each row also contains similar "Number" or instance counts for the various rows of the sub-tables that are derived from this table. The term "endpoint" has been used to denote either a target or initiator instance.

Several tables augment the iscsiInstanceTable to provide attributes and statistics.

iscsiInstanceInfo also contains iscsiInstanceObjects, from which all of the other tables are derived.

5.4. iscsiListenPort

iscsiListenPortInfo is contained within iscsiInstanceObjects, and contains the iscsiListenPortTable.

The iscsiListenPortTable lists local sockets on which the iSCSI instance is listening for incoming connections.

The attributes table that augments the iscsiListenPortTable contains the local IP address, TCP (or other protocol) port, and IP protocol (for now, just TCP) on which the socket is listening.

Statistics tables augmenting the iscsiListenPortTable contain counts of each type of login status code sent, as well as connection and digest errors detected.

This table will usually be empty for iSCSI instances that contain only initiators (such as iSCSI host driver implementations).

5.5. iscsiSession

iscsiSessionInfo is contained within iscsiInstanceObjects, and contains the iscsiSessionTable.

The iscsiSessionTable contains a set of rows that list the sessions known to be existing locally for each iSCSI instance.

The session type for each session indicates whether it is an Inbound Session or an Outbound Session. Inbound sessions are from some other initiator to a target within this iSCSI instance; Outbound sessions are from our initiator to a target outside this iSCSI instance.

An inbound session may be correlated with its local target using the TargetWWUI attribute of the session; the InitiatorWWUI indicates the "other end", in some other entity.

Similarly, an outbound session may be associated with its local initiator using the InitiatorWWUI; in this case, the TargetWWUI indicates the other end.

Many attributes may be negotiated when starting an iSCSI session. These attributes are included in the session object.

Some attributes, such as the integrity and authentication schemes, have some standard values which can be extended by vendors to include their own schemes. Enumerated types have been provided for each of these; if a type is "Other", a corresponding UTF8String is used to indicate the name of the scheme in use.

The iscsiSession includes many statistics tables, due to the fact that a session can go either direction. Its statistics are basically a superset of those offered by the Target and Initiator objects.

iscsiSessionInfo also contains iscsiSessionObjects, from which the Connection and Lun tables are derived.

5.6. iscsiConnectionTable

iscsiConnectionInfo is contained within iscsiSessionObjects, and contains the iscsiConnectionTable.

The iscsiConnectionTable contains a list of active connections within each session. The augmenting attributes table contains the IP addresses and TCP (or other protocol) ports of both the local and remote side of the connection. These may be used to locate other connection-related information and statistics in the TCP MIB [RFC 2012].

No statistics are currently kept for each connection.

5.7. iscsiLun

iscsiLunInfo is contained within iscsiSessionObjects, and contains the iscsiLunTable.

The iscsiLunTable contains an entry for each known LUN that is being accessed using this session. Note that is may not contain all of the LUNs that could be accessed; the only ones available to iSCSI are the ones that have been addressed specifically by iSCSI commands. Therefore, LUNs that have been discovered via mechanisms such as the SCSI "report LUNs" will not appear in this table until they are specifically addressed by the initiator.

A RowPointer attribute, iscsiLunTarget, is provided to correlate this entry with the Target's LU entry. Sessions of type Inbound may give this RowPointer an non-NULL value, pointing to the associated iscsiLuEntry. Sessions of type Outbound must set this to NULL.

Statistics tables augmenting iscsiLunTable are provided.

5.8. iscsiTargetTable

iscsiTargetInfo is contained within iscsiInstanceObjects, and contains the iscsiTargetTable.

The iscsiTargetTable contains a list of iSCSI targets which may be accessed through the iSCSI instance.

iscsiTargetTable attributes include the target's World-Wide Unique Identifer (WWUI), alias string, and the number of LUs. Also included is a RowPointer which can be used to locate the associated SCSI target object, should a SCSI MIB be created.

Statistics tables augmenting iscsiTargetTable are provided.

iscsiTargetInfo also contains iscsiTargetObjects, from which the LU and AccessList tables are derived.

5.9. iscsiLUTable

iscsiLUInfo is contained within iscsiTargetObjects, and contains the iscsiLUTable.

The iscsiLUTable contains a list of iSCSI Logical Units that are accessible via the iSCSI target.

The attributes table contains information that really should be reflected in a SCSI MIB, include the Logical Unit's World-Wide Name (not to be confused with a WWUI), inquiry string, serial number, and device ID. These are included only because they are so necessary in identifying LUs from a management console.

Should a SCSI MIB be implemented, the RowPointer iscsiLuScsiAttributes is provided to index into the SCSI MIB's Logical Unit structure. If this pointer is NULL, the SCSI attributes previously mentioned may be used. If the pointer is non-NULL, the SCSI attributes should be left blank, and the management station should use the SCSI MIB to obtain this information instead.

Statistics identical to those found in the iscsiTarget are included at this level as well.

5.10. iscsiAccessList

iscsiAccessListInfo is contained within iscsiTargetObjects, and contains the iscsiAccessListTable.

The iscsiAccessListTable contains an entry for each initiator that is allowed to access the Target under which it appears. If a target allows access to any initiator, an AccessListEntry with the initiator WWUI "iscsi" should be used.

This table does not cover all possible access control schemes that a vendor could implement. If access to an initiator cannot be determined just by its WWUI, an implementation may use the WWUI "iscsi", or may choose to place no entries in this table.

No statistics are provided for access list entries.

5.11. iscsiInitiatorTable

iscsiInitiatorInfo is contained within iscsiInstanceObjects, and contains the iscsiInitiatorTable.

The iscsiInitiatorTable contains a list of iSCSI initiators which are used by this iSCSI instance to access targets. Most implementations will include a single entry in this table, regardless of the number of physical interfaces the initiator may use.

iscsiInitiatorTable attributes include the initiator's World-Wide Unique Identifer (WWUI) and alias string.

Statistics tables augmenting iscsiInitiatorTable are provided.

6. MIB Definitions

```
ISCSI-MIB DEFINITIONS  ::= BEGIN

    IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, Unsigned32,
    IpAddress, Counter32, Counter64, experimental
    FROM SNMPv2-SMI

    TEXTUAL-CONVENTION, TruthValue, RowPointer
--    TEXTUAL-CONVENTION, DisplayString, TruthValue, RowPointer
    FROM SNMPv2-TC

    MODULE-COMPLIANCE, OBJECT-GROUP
    -- MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
    FROM SNMPv2-CONF
    ;

iscsiModule MODULE-IDENTITY
    LAST-UPDATED                    "0102280000Z" -- February 28, 2001
    ORGANIZATION                    "Cisco Systems, Inc"
    CONTACT-INFO
    "
    Mark Bakke
    Postal: Cisco Systems, Inc
    6450 Wedgwood Road, Suite 130
    Maple Grove, MN
    USA 55311

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    Tel: +1 916-785-0391

    Email: marjorie_krueger@hp.com
```

```
    Jim Muchow
    Postal: Cisco Systems, Inc
    6450 Wedgwood Road, Suite 130
    Maple Grove, MN
    USA 55311

    Tel: +1 763-398-1000
    Fax: +1 763-398-1001

    E-mail: jmuchow@cisco.com"

    DESCRIPTION
     "."

    REVISION "0102280000Z" -- February 28, 2001
    DESCRIPTION
        "Complete re-write, with the assistance of various
        persons in the iSCSI MIB working group."

    REVISION "0007280000Z"   -- July 28, 2000
    DESCRIPTION "Update to re-arrange the tables so that
        the initiator table is now an expansion table
        for the base iSCSI table.
        Added a couple of additional variables, the
        targetLunNumber in the target table and the
        lunSerialNumber in the lun table.
        Also a better definition of the OBJECT-GROUPs. "

::= { experimental 1 }

--
-- We need to get an experimental number for this MIB.
--

iscsiObjects OBJECT IDENTIFIER ::= { iscsiModule 1 }
iscsiNotifications OBJECT IDENTIFIER ::= { iscsiModule 2 }
iscsiConformance OBJECT IDENTIFIER ::= { iscsiModule 3 }

-- Textual Conventions

UTF8String ::= TEXTUAL-CONVENTION
    DISPLAY-HINT                  "255t"
    STATUS                        current
    DESCRIPTION
        "Represents textual information taken from the UTF-8
        character set.
        Any object defined using this syntax may not exceed 255
        characters in length."
```

```
    SYNTAX                          OCTET STRING (SIZE (0..255))

-- OK, the various preliminaries are out of the way...

-- There is a single object from which all others are based
iscsiInstanceInfo OBJECT IDENTIFIER ::= { iscsiObjects 1 }

iscsiInstanceObjects OBJECT IDENTIFIER ::= { iscsiInstanceInfo 1 }
iscsiInstanceScalars OBJECT IDENTIFIER ::= { iscsiInstanceInfo 2 }

iscsiInstanceNumber OBJECT-TYPE
    SYNTAX                          Unsigned32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
        "The number of iSCSI instances monitored and/or managed
     by a single agent."
::= { iscsiInstanceScalars 1 }

iscsiInstanceTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiInstanceEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of iSCSI instances present on the system."
::= { iscsiInstanceInfo 3 }

iscsiInstanceEntry OBJECT-TYPE
    SYNTAX                          IscsiInstanceEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular iSCSI instance."
    INDEX { iscsiInstIndex }
::= { iscsiInstanceTable 1 }

IscsiInstanceEntry ::= SEQUENCE {
    iscsiInstIndex                  Unsigned32 (1..4294967295)
}

iscsiInstIndex OBJECT-TYPE
    SYNTAX                        Unsigned32 (1..4294967295)
    MAX-ACCESS                      read-only -- not-accessible
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInstanceEntry 1 }
```

```
iscsiInstanceAttributesTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiInstanceAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of those attributes of each iSCSI instance present
        on the system."
::= { iscsiInstanceInfo 4 }

iscsiInstanceAttributesEntry OBJECT-TYPE
    SYNTAX                        IscsiInstanceAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular iSCSI instance."
    AUGMENTS { iscsiInstanceEntry }
::= { iscsiInstanceAttributesTable 1 }

IscsiInstanceAttributesEntry ::= SEQUENCE {
    iscsiInstName                 UTF8String,
    iscsiInstVersionMin           INTEGER,
    iscsiInstVersionMax           INTEGER,
    iscsiInstVendorID             UTF8String,
    iscsiInstVendorVersion        UTF8String,
    iscsiInstListenPortNumber     Unsigned32,
    iscsiInstSessionNumber        Unsigned32,
    iscsiInstTargetNumber         Unsigned32,
    iscsiInstInitiatorNumber      Unsigned32
}

iscsiInstName OBJECT-TYPE
    SYNTAX                       UTF8String
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceAttributesEntry 1 }

iscsiInstVersionMin OBJECT-TYPE
    SYNTAX                       INTEGER (0..255)
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceAttributesEntry 2 }

iscsiInstVersionMax OBJECT-TYPE
```

```
    SYNTAX                      INTEGER (0..255)
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceAttributesEntry 3 }

iscsiInstVendorID OBJECT-TYPE
    SYNTAX                  UTF8String
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceAttributesEntry 4 }

iscsiInstVendorVersion OBJECT-TYPE
    SYNTAX                  UTF8String
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceAttributesEntry 5 }

iscsiInstListenPortNumber OBJECT-TYPE
    SYNTAX                  Unsigned32 (1..4294967295)
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceAttributesEntry 6 }

iscsiInstSessionNumber OBJECT-TYPE
    SYNTAX                  Unsigned32 (1..4294967295)
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceAttributesEntry 7 }

iscsiInstTargetNumber OBJECT-TYPE
    SYNTAX                      Unsigned32 (1..4294967295)
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceAttributesEntry 8 }

iscsiInstInitiatorNumber OBJECT-TYPE
```

```
    SYNTAX                  Unsigned32 (1..4294967295)
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInstanceAttributesEntry 9 }

iscsiInstanceStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiInstanceStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of those attributes of each iSCSI instance present
        on the system."
::= { iscsiInstanceInfo 5 }

iscsiInstanceStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiInstanceStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular iSCSI instance."
    AUGMENTS { iscsiInstanceEntry }
::= { iscsiInstanceStatsTable 1 }


IscsiInstanceStatsEntry ::= SEQUENCE {
    iscsiInstTxCmdPDUs              Counter32,
    iscsiInstTxRspPDUs              Counter32,
    iscsiInstRxRspPDUs              Counter32,
    iscsiInstRxCmdPDUs              Counter32,
    iscsiInstTxDataOctets           Counter64,
    iscsiInstRxDataOctets           Counter64
}

iscsiInstTxCmdPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInstanceStatsEntry 1 }

iscsiInstTxRspPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
```

```
    DESCRIPTION
    "."
::= { iscsiInstanceStatsEntry 2 }

iscsiInstRxRspPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceStatsEntry 3 }

iscsiInstRxCmdPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceStatsEntry 4 }

iscsiInstTxDataOctets OBJECT-TYPE
    SYNTAX                      Counter64
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceStatsEntry 5 }

iscsiInstRxDataOctets OBJECT-TYPE
    SYNTAX                      Counter64
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInstanceStatsEntry 6 }

iscsiInstanceCxnErrorStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiInstanceCxnErrorStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of those attributes of each iSCSI instance present
        on the system."
::= { iscsiInstanceInfo 6 }

iscsiInstanceCxnErrorStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiInstanceCxnErrorStatsEntry
    MAX-ACCESS                    not-accessible
```

```
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular iSCSI instance."
    AUGMENTS { iscsiInstanceEntry }
::= { iscsiInstanceCxnErrorStatsTable 1 }


IscsiInstanceCxnErrorStatsEntry ::= SEQUENCE {
    iscsiInstHdrDigestErrors       Counter32,
    iscsiInstDataDigestErrors      Counter32,
    iscsiInstCxnTimeoutErrors      Counter32,
    iscsiInstFramingErrors         Counter32
}

iscsiInstHdrDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInstanceCxnErrorStatsEntry 1 }

iscsiInstDataDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInstanceCxnErrorStatsEntry 2 }

iscsiInstCxnTimeoutErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInstanceCxnErrorStatsEntry 3 }

iscsiInstFramingErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInstanceCxnErrorStatsEntry 4 }

--------------------------------------------------------------------------
```

```
iscsiListenPortInfo OBJECT IDENTIFIER ::= { iscsiInstanceObjects 1 }

iscsiListenPortObjects OBJECT IDENTIFIER ::= { iscsiListenPortInfo 1 }
iscsiListenPortScalars OBJECT IDENTIFIER ::= { iscsiListenPortInfo 2 }

iscsiListenPortTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiListenPortEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of sockets (in the TCP RFC sense) belonging to each
        iSCSI instance present on the system."
::= { iscsiListenPortInfo 3 }

iscsiListenPortEntry OBJECT-TYPE
    SYNTAX                        IscsiListenPortEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular socket instance."
    INDEX { iscsiInstIndex, iscsiLPIndex  }
::= { iscsiListenPortTable 1 }

IscsiListenPortEntry ::= SEQUENCE {
    iscsiLPIndex                  Unsigned32 (1..4294967295)
}

iscsiLPIndex OBJECT-TYPE
    SYNTAX                      Unsigned32 (1..4294967295)
    MAX-ACCESS                    read-only -- not-accessible
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortEntry 1 }

iscsiListenPortAttributesTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiListenPortAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of sockets (in the TCP RFC sense) belonging to each
        iSCSI instance present on the system."
::= { iscsiListenPortInfo 4 }

iscsiListenPortAttributesEntry OBJECT-TYPE
    SYNTAX                        IscsiListenPortAttributesEntry
    MAX-ACCESS                    not-accessible
```

```
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular socket instance."
    AUGMENTS { iscsiListenPortEntry }
::= { iscsiListenPortAttributesTable 1 }

IscsiListenPortAttributesEntry ::= SEQUENCE {
    iscsiLPIpAddress              IpAddress,
    iscsiLPTcpPort                Unsigned32 (1..65535)
}

iscsiLPIpAddress OBJECT-TYPE
    SYNTAX                      IpAddress
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortAttributesEntry 1 }

iscsiLPTcpPort OBJECT-TYPE
    SYNTAX                      Unsigned32 (1..65535)
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortAttributesEntry 2 }

iscsiListenPortStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiListenPortStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of sockets (in the TCP RFC sense) belonging to each
        iSCSI instance present on the system."
::= { iscsiListenPortInfo 5 }

iscsiListenPortStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiListenPortStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular socket instance."
    AUGMENTS { iscsiListenPortEntry }
::= { iscsiListenPortStatsTable 1 }

IscsiListenPortStatsEntry ::= SEQUENCE {
```

```
    iscsiLPCxnCreations            Counter32,
    iscsiLPCxnRefusals             Counter32,
    iscsiLPCxnTerminations         Counter32,
    iscsiLPCxnShutdowns            Counter32
}

iscsiLPCxnCreations OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiListenPortStatsEntry 1 }

iscsiLPCxnRefusals OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiListenPortStatsEntry 2 }

iscsiLPCxnTerminations OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiListenPortStatsEntry 3 }

iscsiLPCxnShutdowns OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiListenPortStatsEntry 4 }

iscsiListenPortCxnErrorStatsTable OBJECT-TYPE
    SYNTAX                         SEQUENCE OF
IscsiListenPortCxnErrorStatsEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "A list of sockets (in the TCP RFC sense) belonging to each
        iSCSI instance present on the system."
::= { iscsiListenPortInfo 6 }
```

```
iscsiListenPortCxnErrorStatsEntry OBJECT-TYPE
```

```
    SYNTAX                          IscsiListenPortCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular socket instance."
    AUGMENTS { iscsiListenPortEntry }
::= { iscsiListenPortCxnErrorStatsTable 1 }

IscsiListenPortCxnErrorStatsEntry ::= SEQUENCE {
    iscsiLPHdrDigestErrors          Counter32,
    iscsiLPDataDigestErrors         Counter32,
    iscsiLPCxnTimeoutErrors         Counter32,
    iscsiLPFramingErrors            Counter32
}

iscsiLPHdrDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortCxnErrorStatsEntry 1 }

iscsiLPDataDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortCxnErrorStatsEntry 2 }

iscsiLPCxnTimeoutErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortCxnErrorStatsEntry 3 }

iscsiLPFramingErrors OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortCxnErrorStatsEntry 4 }
```

```
iscsiListenPortTxStatusStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF
IscsiListenPortTxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of sockets (in the TCP RFC sense) belonging to each
        iSCSI instance present on the system."
::= { iscsiListenPortInfo 7 }

iscsiListenPortTxStatusStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiListenPortTxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular socket instance."
    AUGMENTS { iscsiListenPortEntry }
::= { iscsiListenPortTxStatusStatsTable 1 }

IscsiListenPortTxStatusStatsEntry ::= SEQUENCE {
    iscsiLPTxStsAccepts             Counter32,
    iscsiLPTxStsAutheticates        Counter32,
    iscsiLPTxStsMoveTemps           Counter32,
    iscsiLPTxStsMovePerms           Counter32,
    iscsiLPTxStsProxies             Counter32,
    iscsiLPTxStsAuthFails           Counter32,
    iscsiLPTxStsForbiddens          Counter32,
    iscsiLPTxStsNotFounds           Counter32,
    iscsiLPTxStsRemoveds            Counter32,
    iscsiLPTxStsConflicts           Counter32,
    iscsiLPTxStsTargetErrors        Counter32,
    iscsiLPTxStsUnavailables        Counter32,
    iscsiLPTxStsBadVersions         Counter32
}

iscsiLPTxStsAccepts OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 1 }

iscsiLPTxStsAutheticates OBJECT-TYPE
    SYNTAX                    Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
```

DESCRIPTION

```
    "."
::= { iscsiListenPortTxStatusStatsEntry 2 }

iscsiLPTxStsMoveTemps OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 3 }

iscsiLPTxStsMovePerms OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 4 }

iscsiLPTxStsProxies OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 5 }

iscsiLPTxStsAuthFails OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 6 }

iscsiLPTxStsForbiddens OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 7 }

iscsiLPTxStsNotFounds OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
```

```
    "."
::= { iscsiListenPortTxStatusStatsEntry 8 }

iscsiLPTxStsRemoveds OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 9 }

iscsiLPTxStsConflicts OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 10 }

iscsiLPTxStsTargetErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 11 }

iscsiLPTxStsUnavailables OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 12 }

iscsiLPTxStsBadVersions OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortTxStatusStatsEntry 13 }

iscsiListenPortRxStatusStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF
IscsiListenPortRxStatusStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
```

DESCRIPTION

```
        "A list of sockets (in the TCP RFC sense) belonging to each
        iSCSI instance present on the system."
::= { iscsiListenPortInfo 8 }

iscsiListenPortRxStatusStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiListenPortRxStatusStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular socket instance."
    AUGMENTS { iscsiListenPortEntry }
::= { iscsiListenPortRxStatusStatsTable 1 }

IscsiListenPortRxStatusStatsEntry ::= SEQUENCE {
    iscsiLPRxStsAccepts            Counter32,
    iscsiLPRxStsAutheticates       Counter32,
    iscsiLPRxStsMoveTemps          Counter32,
    iscsiLPRxStsMovePerms          Counter32,
    iscsiLPRxStsProxies            Counter32,
    iscsiLPRxStsAuthFails          Counter32,
    iscsiLPRxStsForbiddens         Counter32,
    iscsiLPRxStsNotFounds          Counter32,
    iscsiLPRxStsRemoveds           Counter32,
    iscsiLPRxStsConflicts          Counter32,
    iscsiLPRxStsTargetErrors       Counter32,
    iscsiLPRxStsUnavailables       Counter32,
    iscsiLPRxStsBadVersions        Counter32
}

iscsiLPRxStsAccepts OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 1 }

iscsiLPRxStsAutheticates OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 2 }

iscsiLPRxStsMoveTemps OBJECT-TYPE
    SYNTAX                       Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 3 }

iscsiLPRxStsMovePerms OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 4 }

iscsiLPRxStsProxies OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 5 }

iscsiLPRxStsAuthFails OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 6 }

iscsiLPRxStsForbiddens OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 7 }

iscsiLPRxStsNotFounds OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 8 }

iscsiLPRxStsRemoveds OBJECT-TYPE
    SYNTAX                        Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 9 }

iscsiLPRxStsConflicts OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 10 }

iscsiLPRxStsTargetErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 11 }

iscsiLPRxStsUnavailables OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 12 }

iscsiLPRxStsBadVersions OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiListenPortRxStatusStatsEntry 13 }

-----------------------------------------------------------------------

iscsiSessionInfo OBJECT IDENTIFIER ::= { iscsiInstanceObjects 2 }

iscsiSessionObjects OBJECT IDENTIFIER ::= { iscsiSessionInfo 1 }
iscsiSessionScalars OBJECT IDENTIFIER ::= { iscsiSessionInfo 2 }

iscsiSessionTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiSessionEntry
    MAX-ACCESS                      not-accessible
```

```
    STATUS                        current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 3 }

iscsiSessionEntry OBJECT-TYPE
    SYNTAX                        IscsiSessionEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    INDEX { iscsiInstIndex, iscsiSsnIndex }
::= { iscsiSessionTable 1 }

IscsiSessionEntry ::= SEQUENCE {
    iscsiSsnIndex                 Unsigned32 (1..4294967295)
}

iscsiSsnIndex OBJECT-TYPE
    SYNTAX                       Unsigned32 (1..4294967295)
    MAX-ACCESS                    read-only -- not-accessible
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionEntry 1 }

iscsiSessionAttributesTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiSessionAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 4 }

iscsiSessionAttributesEntry OBJECT-TYPE
    SYNTAX                        IscsiSessionAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionAttributesTable 1 }

IscsiSessionAttributesEntry ::= SEQUENCE {
```

```
    iscsiSsnType                    INTEGER,
    iscsiSsnTargetWWUI              UTF8String,
    iscsiSsnInitiatorWWUI           UTF8String,
    iscsiSsnUseR2t                  TruthValue,
    iscsiSsnBidirectionalUseR2t     TruthValue,
    iscsiSsnImmediateData           TruthValue,
    iscsiSsnEnableCmdRn             TruthValue,
    iscsiSsnInDataOrder             TruthValue,
    iscsiSsnBootSession             TruthValue,
    iscsiSsnMaxOutstandingR2t       INTEGER,
    iscsiSsnMaxDataPDULength        INTEGER,
    iscsiSsnFirstBurstSize          INTEGER,
    iscsiSsnInitiatorTagLength      INTEGER,
    iscsiSsnPingMaxReplyLength      INTEGER,
    iscsiSsnMaxTotalText            INTEGER,
    iscsiSsnKeyValueText            INTEGER,
    iscsiSsnConnectionNumber        Unsigned32,
    iscsiSsnMaxConnections          Unsigned32,
    iscsiSsnHeaderIntegrity         INTEGER,
    iscsiSsnOtherHdrIntegrity       UTF8String,
    iscsiSsnDataIntegrity           INTEGER,
    iscsiSsnOtherDataIntegrity      UTF8String,
    iscsiSsnInitiatorAuth           INTEGER,
    iscsiSsnOtherInitiatorAuth      UTF8String,
    iscsiSsnTargetAuth              INTEGER,
    iscsiSsnOtherTargetAuth         UTF8String,
    iscsiSsnInitiatorUserName       UTF8String,
    iscsiSsnTargetUserName          UTF8String,
    iscsiSsnFramingScheme           INTEGER,
    iscsiSsnOtherFramingScheme      UTF8String
}

iscsiSsnType OBJECT-TYPE
    SYNTAX                       INTEGER { oneKind(0), anotherKind(2) }
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 1 }

iscsiSsnTargetWWUI OBJECT-TYPE
    SYNTAX                       UTF8String
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 2 }
```

```
iscsiSsnInitiatorWWUI OBJECT-TYPE
    SYNTAX                       UTF8String
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 3 }

iscsiSsnUseR2t OBJECT-TYPE
    SYNTAX                       TruthValue
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 4 }

iscsiSsnBidirectionalUseR2t OBJECT-TYPE
    SYNTAX                  TruthValue
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 5 }

iscsiSsnImmediateData OBJECT-TYPE
    SYNTAX                       TruthValue
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 6 }

iscsiSsnEnableCmdRn OBJECT-TYPE
    SYNTAX                       TruthValue
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 7 }

iscsiSsnInDataOrder OBJECT-TYPE
    SYNTAX                       TruthValue
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 8 }
```

```
iscsiSsnBootSession OBJECT-TYPE
    SYNTAX                       TruthValue
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 9 }

iscsiSsnMaxOutstandingR2t OBJECT-TYPE
    SYNTAX                  INTEGER (1..65535)
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 10 }

iscsiSsnMaxDataPDULength OBJECT-TYPE
    SYNTAX                  INTEGER (1..65535)
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 11 }

iscsiSsnFirstBurstSize OBJECT-TYPE
    SYNTAX                  INTEGER (1..65535)
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 12 }

iscsiSsnInitiatorTagLength OBJECT-TYPE
    SYNTAX                       INTEGER (16..32)
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 13 }

iscsiSsnPingMaxReplyLength OBJECT-TYPE
    SYNTAX                       INTEGER (1..8091)
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 14 }
```

```
iscsiSsnMaxTotalText OBJECT-TYPE
    SYNTAX                      INTEGER (1..65535)
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 15 }

iscsiSsnKeyValueText OBJECT-TYPE
    SYNTAX                      INTEGER (1..65535)
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 16 }

iscsiSsnConnectionNumber OBJECT-TYPE
    SYNTAX                 Unsigned32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 17 }

iscsiSsnMaxConnections OBJECT-TYPE
    SYNTAX                 Unsigned32 (1..65535)
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 18 }

iscsiSsnHeaderIntegrity OBJECT-TYPE
    SYNTAX                 INTEGER {
                                              none(1),
                           other(2),
                           crc_32q(3),
                           crc_64(4),
                           krb5_md5(5),
                           krb5_des_md5(6),
                           krb5_des_mac(7)
                                              }
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 19 }
```

```
iscsiSsnOtherHdrIntegrity OBJECT-TYPE
    SYNTAX                  UTF8String
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 20 }

iscsiSsnDataIntegrity OBJECT-TYPE
    SYNTAX                  INTEGER {
                                               none(1),
                            other(2),
                            crc_32q(3),
                            crc_64(4)
                            }
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 21 }

iscsiSsnOtherDataIntegrity OBJECT-TYPE
    SYNTAX                       UTF8String
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 22 }

iscsiSsnInitiatorAuth OBJECT-TYPE
    SYNTAX                  INTEGER {
                                               none(1),
                            other(2),
                            srp(3),
                            kerb5(4)
                            }
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 23 }

iscsiSsnOtherInitiatorAuth OBJECT-TYPE
    SYNTAX                       UTF8String
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
```

```
::= { iscsiSessionAttributesEntry 24 }

iscsiSsnTargetAuth OBJECT-TYPE
    SYNTAX                  INTEGER {
                                            none(1),
                            other(2),
                            srp(3),
                            kerb5(4)
                            }
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 25 }

iscsiSsnOtherTargetAuth OBJECT-TYPE
    SYNTAX                  UTF8String
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 26 }

iscsiSsnInitiatorUserName OBJECT-TYPE
    SYNTAX                  UTF8String
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 27 }

iscsiSsnTargetUserName OBJECT-TYPE
    SYNTAX                  UTF8String
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 28 }

iscsiSsnFramingScheme OBJECT-TYPE
    SYNTAX                  INTEGER {
                                            none(1),
                            other(2)
                            }
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
```

```
::= { iscsiSessionAttributesEntry 29 }

iscsiSsnOtherFramingScheme OBJECT-TYPE
    SYNTAX                      UTF8String
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionAttributesEntry 30 }

iscsiSessionStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiSessionStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 5 }

iscsiSessionStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiSessionStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionStatsTable 1 }

IscsiSessionStatsEntry ::= SEQUENCE {
    iscsiSsnTxCmdPDUs             Counter32,
    iscsiSsnTxRspPDUs             Counter32,
    iscsiSsnRxRspPDUs             Counter32,
    iscsiSsnRxCmdPDUs             Counter32,
    iscsiSsnTxDataOctets          Counter64,
    iscsiSsnRxDataOctets          Counter64
}

iscsiSsnTxCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionStatsEntry 1 }

iscsiSsnTxRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionStatsEntry 2 }

iscsiSsnRxRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionStatsEntry 3 }

iscsiSsnRxCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionStatsEntry 4 }

iscsiSsnTxDataOctets OBJECT-TYPE
    SYNTAX                        Counter64
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionStatsEntry 5 }

iscsiSsnRxDataOctets OBJECT-TYPE
    SYNTAX                        Counter64
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionStatsEntry 6 }


iscsiSessionCxnErrorStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiSessionCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 6 }
```

```
iscsiSessionCxnErrorStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiSessionCxnErrorStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionCxnErrorStatsTable 1 }

IscsiSessionCxnErrorStatsEntry ::= SEQUENCE {
    iscsiSsnHdrDigestErrors        Counter32,
    iscsiSsnDataDigestErrors       Counter32,
    iscsiSsnCxnTimeoutErrors       Counter32,
    iscsiSsnFramingErrors          Counter32
}

iscsiSsnHdrDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionCxnErrorStatsEntry 1 }

iscsiSsnDataDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionCxnErrorStatsEntry 2 }

iscsiSsnCxnTimeoutErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionCxnErrorStatsEntry 3 }

iscsiSsnFramingErrors OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionCxnErrorStatsEntry 4 }
```

```
iscsiSessionTxCmdStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiSessionTxCmdStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 7 }

iscsiSessionTxCmdStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiSessionTxCmdStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionTxCmdStatsTable 1 }

IscsiSessionTxCmdStatsEntry ::= SEQUENCE {
    iscsiSsnTxNopOutPDUs            Counter32,
    iscsiSsnTxScsiCmdPDUs           Counter32,
    iscsiSsnTxScsiTaskMgmtCmdPDUs   Counter32,
    iscsiSsnTxLoginCmdPDUs          Counter32,
    iscsiSsnTxTextCmdPDUs           Counter32,
    iscsiSsnTxScsiDataWritePDUs     Counter32,
    iscsiSsnTxLogoutCmdPDUs         Counter32,
    iscsiSsnTxSackReqPDUs           Counter32
}

iscsiSsnTxNopOutPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxCmdStatsEntry 1 }

iscsiSsnTxScsiCmdPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxCmdStatsEntry 2 }

iscsiSsnTxScsiTaskMgmtCmdPDUs OBJECT-TYPE
    SYNTAX                    Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxCmdStatsEntry 3 }

iscsiSsnTxLoginCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxCmdStatsEntry 4 }

iscsiSsnTxTextCmdPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxCmdStatsEntry 5 }

iscsiSsnTxScsiDataWritePDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxCmdStatsEntry 6 }

iscsiSsnTxLogoutCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxCmdStatsEntry 7 }

iscsiSsnTxSackReqPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxCmdStatsEntry 8 }

iscsiSessionRxCmdStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiSessionRxCmdStatsEntry
```

```
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 8 }

iscsiSessionRxCmdStatsEntry OBJECT-TYPE
    SYNTAX                           IscsiSessionRxCmdStatsEntry
    MAX-ACCESS                       not-accessible
    STATUS                           current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionRxCmdStatsTable 1 }

IscsiSessionRxCmdStatsEntry ::= SEQUENCE {
    iscsiSsnRxNopInPDUs            Counter32,
    iscsiSsnRxScsiRspPDUs          Counter32,
    iscsiSsnRxScsiTaskMgmtRspPDUs  Counter32,
    iscsiSsnRxLoginRspPDUs         Counter32,
    iscsiSsnRxTextRspPDUs          Counter32,
    iscsiSsnRxScsiDataReadPDUs     Counter32,
    iscsiSsnRxLogoutRspPDUs        Counter32,
    iscsiSsnRxR2TPDUs              Counter32,
    iscsiSsnRxAsyncPDUs            Counter32,
    iscsiSsnRxRejectPDUs           Counter32
}

iscsiSsnRxNopInPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 1 }

iscsiSsnRxScsiRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 2 }

iscsiSsnRxScsiTaskMgmtRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 3 }

iscsiSsnRxLoginRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 4 }

iscsiSsnRxTextRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 5 }

iscsiSsnRxScsiDataReadPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 6 }

iscsiSsnRxLogoutRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 7 }

iscsiSsnRxR2TPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 8 }

iscsiSsnRxAsyncPDUs OBJECT-TYPE
    SYNTAX                       Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 9 }

iscsiSsnRxRejectPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxCmdStatsEntry 10 }

iscsiSessionTxRspStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiSessionTxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 9 }

iscsiSessionTxRspStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiSessionTxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionTxRspStatsTable 1 }

IscsiSessionTxRspStatsEntry ::= SEQUENCE {
    iscsiSsnTxNopInPDUs             Counter32,
    iscsiSsnTxScsiRspPDUs           Counter32,
    iscsiSsnTxScsiTaskMgmtRspPDUs   Counter32,
    iscsiSsnTxLoginRspPDUs          Counter32,
    iscsiSsnTxTextRspPDUs           Counter32,
    iscsiSsnTxScsiDataReadPDUs      Counter32,
    iscsiSsnTxLogoutRspPDUs         Counter32,
    iscsiSsnTxR2TPDUs               Counter32,
    iscsiSsnTxAsyncPDUs             Counter32,
    iscsiSsnTxRejectPDUs            Counter32
}

iscsiSsnTxNopInPDUs OBJECT-TYPE
    SYNTAX                        Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 1 }

iscsiSsnTxScsiRspPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 2 }

iscsiSsnTxScsiTaskMgmtRspPDUs OBJECT-TYPE
    SYNTAX                   Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 3 }

iscsiSsnTxLoginRspPDUs OBJECT-TYPE
    SYNTAX                   Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 4 }

iscsiSsnTxTextRspPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 5 }

iscsiSsnTxScsiDataReadPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 6 }

iscsiSsnTxLogoutRspPDUs OBJECT-TYPE
    SYNTAX                   Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 7 }

iscsiSsnTxR2TPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 8 }

iscsiSsnTxAsyncPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 9 }

iscsiSsnTxRejectPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxRspStatsEntry 10 }

iscsiSessionRxRspStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiSessionRxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 10 }

iscsiSessionRxRspStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiSessionRxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionRxRspStatsTable 1 }
```

```
IscsiSessionRxRspStatsEntry ::= SEQUENCE {
    iscsiSsnRxNopOutPDUs           Counter32,
    iscsiSsnRxScsiCmdPDUs          Counter32,
    iscsiSsnRxScsiTaskMgmtCmdPDUs  Counter32,
    iscsiSsnRxLoginCmdPDUs         Counter32,
    iscsiSsnRxTextCmdPDUs          Counter32,
    iscsiSsnRxScsiDataWritePDUs    Counter32,
    iscsiSsnRxLogoutCmdPDUs        Counter32,
    iscsiSsnRxSackReqPDUs          Counter32
}

iscsiSsnRxNopOutPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxRspStatsEntry 1 }

iscsiSsnRxScsiCmdPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxRspStatsEntry 2 }

iscsiSsnRxScsiTaskMgmtCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxRspStatsEntry 3 }

iscsiSsnRxLoginCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxRspStatsEntry 4 }

iscsiSsnRxTextCmdPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
```

```
    "."
::= { iscsiSessionRxRspStatsEntry 5 }

iscsiSsnRxScsiDataWritePDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxRspStatsEntry 6 }

iscsiSsnRxLogoutCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxRspStatsEntry 7 }

iscsiSsnRxSackReqPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxRspStatsEntry 8 }

iscsiSessionTxStatusStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiSessionTxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 11 }

iscsiSessionTxStatusStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiSessionTxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionTxStatusStatsTable 1 }

IscsiSessionTxStatusStatsEntry ::= SEQUENCE {
    iscsiSsnTxStsAccepts            Counter32,
```

```
    iscsiSsnTxStsAutheticates      Counter32,
    iscsiSsnTxStsMoveTemps         Counter32,
    iscsiSsnTxStsMovePerms         Counter32,
    iscsiSsnTxStsProxies           Counter32,
    iscsiSsnTxStsAuthFails         Counter32,
    iscsiSsnTxStsForbiddens        Counter32,
    iscsiSsnTxStsNotFounds         Counter32,
    iscsiSsnTxStsRemoveds          Counter32,
    iscsiSsnTxStsConflicts         Counter32,
    iscsiSsnTxStsTargetErrors      Counter32,
    iscsiSsnTxStsUnavailables      Counter32,
    iscsiSsnTxStsBadVersions       Counter32
}

iscsiSsnTxStsAccepts OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 1 }

iscsiSsnTxStsAutheticates OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 2 }

iscsiSsnTxStsMoveTemps OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 3 }

iscsiSsnTxStsMovePerms OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 4 }

iscsiSsnTxStsProxies OBJECT-TYPE
    SYNTAX                       Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 5 }

iscsiSsnTxStsAuthFails OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 6 }

iscsiSsnTxStsForbiddens OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 7 }

iscsiSsnTxStsNotFounds OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 8 }

iscsiSsnTxStsRemoveds OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 9 }

iscsiSsnTxStsConflicts OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 10 }

iscsiSsnTxStsTargetErrors OBJECT-TYPE
    SYNTAX                  Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 11 }

iscsiSsnTxStsUnavailables OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 12 }

iscsiSsnTxStsBadVersions OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionTxStatusStatsEntry 13 }

iscsiSessionTxRejectStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiSessionTxRejectStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 12 }

iscsiSessionTxRejectStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiSessionTxRejectStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionTxRejectStatsTable 1 }

IscsiSessionTxRejectStatsEntry ::= SEQUENCE {
    iscsiSsnTxRjtFormats            Counter32,
    iscsiSsnTxRjtHdrDigests         Counter32,
    iscsiSsnTxRjtDataDigests        Counter32,
    iscsiSsnTxRjtDataSacks          Counter32,
    iscsiSsnTxRjtRestarts           Counter32,
    iscsiSsnTxRjtFullFeatures       Counter32
```

```
}

iscsiSsnTxRjtFormats OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionTxRejectStatsEntry 1 }

iscsiSsnTxRjtHdrDigests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionTxRejectStatsEntry 2 }

iscsiSsnTxRjtDataDigests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionTxRejectStatsEntry 3 }

iscsiSsnTxRjtDataSacks OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionTxRejectStatsEntry 4 }

iscsiSsnTxRjtRestarts OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionTxRejectStatsEntry 5 }

iscsiSsnTxRjtFullFeatures OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
```

```
::= { iscsiSessionTxRejectStatsEntry 6 }

iscsiSessionTxLogoutStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiSessionTxLogoutStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 13 }

iscsiSessionTxLogoutStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiSessionTxLogoutStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionTxLogoutStatsTable 1 }

IscsiSessionTxLogoutStatsEntry ::= SEQUENCE {
    iscsiSsnTxLgtSessionCloses     Counter32,
    iscsiSsnTxLgtCxnRecoveries     Counter32,
    iscsiSsnTxLgtTargetRequests    Counter32
}

iscsiSsnTxLgtSessionCloses OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionTxLogoutStatsEntry 1 }

iscsiSsnTxLgtCxnRecoveries OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionTxLogoutStatsEntry 2 }

iscsiSsnTxLgtTargetRequests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
```

```
    "."
::= { iscsiSessionTxLogoutStatsEntry 3 }

iscsiSessionTxAsyncStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiSessionTxAsyncStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 14 }

iscsiSessionTxAsyncStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiSessionTxAsyncStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionTxAsyncStatsTable 1 }

IscsiSessionTxAsyncStatsEntry ::= SEQUENCE {
    iscsiSsnTxAsyTargetResets      Counter32,
    iscsiSsnTxAsyLogoutRequests    Counter32,
    iscsiSsnTxAsyCxnDrops          Counter32
}

iscsiSsnTxAsyTargetResets OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionTxAsyncStatsEntry 1 }

iscsiSsnTxAsyLogoutRequests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionTxAsyncStatsEntry 2 }

iscsiSsnTxAsyCxnDrops OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
```

```
    DESCRIPTION
    "."
::= { iscsiSessionTxAsyncStatsEntry 3 }

iscsiSessionRxStatusStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiSessionRxStatusStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 15 }

iscsiSessionRxStatusStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiSessionRxStatusStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionRxStatusStatsTable 1 }

IscsiSessionRxStatusStatsEntry ::= SEQUENCE {
    iscsiSsnRxStsAccepts          Counter32,
    iscsiSsnRxStsAutheticates     Counter32,
    iscsiSsnRxStsMoveTemps        Counter32,
    iscsiSsnRxStsMovePerms        Counter32,
    iscsiSsnRxStsProxies          Counter32,
    iscsiSsnRxStsAuthFails        Counter32,
    iscsiSsnRxStsForbiddens       Counter32,
    iscsiSsnRxStsNotFounds        Counter32,
    iscsiSsnRxStsRemoveds         Counter32,
    iscsiSsnRxStsConflicts        Counter32,
    iscsiSsnRxStsTargetErrors     Counter32,
    iscsiSsnRxStsUnavailables     Counter32,
    iscsiSsnRxStsBadVersions      Counter32
}

iscsiSsnRxStsAccepts OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 1 }

iscsiSsnRxStsAutheticates OBJECT-TYPE
```

```
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 2 }

iscsiSsnRxStsMoveTemps OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 3 }

iscsiSsnRxStsMovePerms OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 4 }

iscsiSsnRxStsProxies OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 5 }

iscsiSsnRxStsAuthFails OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 6 }

iscsiSsnRxStsForbiddens OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 7 }

iscsiSsnRxStsNotFounds OBJECT-TYPE
```

```
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 8 }

iscsiSsnRxStsRemoveds OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 9 }

iscsiSsnRxStsConflicts OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 10 }

iscsiSsnRxStsTargetErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 11 }

iscsiSsnRxStsUnavailables OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 12 }

iscsiSsnRxStsBadVersions OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxStatusStatsEntry 13 }

iscsiSessionRxRejectStatsTable OBJECT-TYPE
```

```
    SYNTAX                          SEQUENCE OF IscsiSessionRxRejectStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 16 }

iscsiSessionRxRejectStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiSessionRxRejectStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionRxRejectStatsTable 1 }

IscsiSessionRxRejectStatsEntry ::= SEQUENCE {
    iscsiSsnRxRjtFormats           Counter32,
    iscsiSsnRxRjtHdrDigests        Counter32,
    iscsiSsnRxRjtDataDigests       Counter32,
    iscsiSsnRxRjtDataSacks         Counter32,
    iscsiSsnRxRjtRestarts          Counter32,
    iscsiSsnRxRjtFullFeatures      Counter32
}

iscsiSsnRxRjtFormats OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxRejectStatsEntry 1 }

iscsiSsnRxRjtHdrDigests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxRejectStatsEntry 2 }

iscsiSsnRxRjtDataDigests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
```

```
    "."
::= { iscsiSessionRxRejectStatsEntry 3 }

iscsiSsnRxRjtDataSacks OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxRejectStatsEntry 4 }

iscsiSsnRxRjtRestarts OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxRejectStatsEntry 5 }

iscsiSsnRxRjtFullFeatures OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiSessionRxRejectStatsEntry 6 }

iscsiSessionRxLogoutStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiSessionRxLogoutStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 17 }

iscsiSessionRxLogoutStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiSessionRxLogoutStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionRxLogoutStatsTable 1 }

IscsiSessionRxLogoutStatsEntry ::= SEQUENCE {
    iscsiSsnRxLgtSessionCloses     Counter32,
```

```
    iscsiSsnRxLgtCxnRecoveries     Counter32,
    iscsiSsnRxLgtTargetRequests    Counter32
}

iscsiSsnRxLgtSessionCloses OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxLogoutStatsEntry 1 }

iscsiSsnRxLgtCxnRecoveries OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxLogoutStatsEntry 2 }

iscsiSsnRxLgtTargetRequests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxLogoutStatsEntry 3 }

iscsiSessionRxAsyncStatsTable OBJECT-TYPE
    SYNTAX                         SEQUENCE OF IscsiSessionRxAsyncStatsEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiSessionInfo 18 }

iscsiSessionRxAsyncStatsEntry OBJECT-TYPE
    SYNTAX                         IscsiSessionRxAsyncStatsEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiSessionEntry }
::= { iscsiSessionRxAsyncStatsTable 1 }

IscsiSessionRxAsyncStatsEntry ::= SEQUENCE {
```

```
    iscsiSsnRxAsyTargetResets      Counter32,
    iscsiSsnRxAsyLogoutRequests    Counter32,
    iscsiSsnRxAsyCxnDrops          Counter32
}

iscsiSsnRxAsyTargetResets OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxAsyncStatsEntry 1 }

iscsiSsnRxAsyLogoutRequests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxAsyncStatsEntry 2 }

iscsiSsnRxAsyCxnDrops OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiSessionRxAsyncStatsEntry 3 }

-----------------------------------------------------------------------

iscsiConnectionInfo OBJECT IDENTIFIER ::= { iscsiSessionObjects 1 }

iscsiConnectionObjects OBJECT IDENTIFIER ::= { iscsiConnectionInfo 1 }
iscsiConnectionScalars OBJECT IDENTIFIER ::= { iscsiConnectionInfo 2 }

iscsiConnectionTable OBJECT-TYPE
    SYNTAX                         SEQUENCE OF IscsiConnectionEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "A list of Connections belonging to each iSCSI instance
        present on the system."
::= { iscsiConnectionInfo 3 }

iscsiConnectionEntry OBJECT-TYPE
    SYNTAX                         IscsiConnectionEntry
    MAX-ACCESS                     not-accessible
```

```
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Connection instance."
    INDEX { iscsiInstIndex, iscsiSsnIndex, iscsiCxnIndex }
::= { iscsiConnectionTable 1 }

IscsiConnectionEntry ::= SEQUENCE {
    iscsiCxnIndex                 Unsigned32 (1..4294967295)
}

iscsiCxnIndex OBJECT-TYPE
    SYNTAX                       Unsigned32 (1..4294967295)
    MAX-ACCESS                    read-only -- not-accessible
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiConnectionEntry 1 }

iscsiConnectionAttributesTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiConnectionAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Connections belonging to each iSCSI instance
        present on the system."
::= { iscsiConnectionInfo 4 }

iscsiConnectionAttributesEntry OBJECT-TYPE
    SYNTAX                        IscsiConnectionAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Connection instance."
    AUGMENTS { iscsiConnectionEntry }
::= { iscsiConnectionAttributesTable 1 }

IscsiConnectionAttributesEntry ::= SEQUENCE {
    iscsiCxnState                 INTEGER,
    iscsiCxnLocalIpAddress        IpAddress,
    iscsiCxnLocalTcpPort          Unsigned32,
    iscsiCxnRemoteIpAddress       IpAddress,
    iscsiCxnRemoteTcpPort         Unsigned32
}

iscsiCxnState OBJECT-TYPE
    SYNTAX                       INTEGER { oneKind(0), anotherKind(2) }
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiConnectionAttributesEntry 1 }

iscsiCxnLocalIpAddress OBJECT-TYPE
    SYNTAX                  IpAddress
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiConnectionAttributesEntry 2 }

iscsiCxnLocalTcpPort OBJECT-TYPE
    SYNTAX                       Unsigned32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiConnectionAttributesEntry 3 }

iscsiCxnRemoteIpAddress OBJECT-TYPE
    SYNTAX                  IpAddress
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiConnectionAttributesEntry 4 }

iscsiCxnRemoteTcpPort OBJECT-TYPE
    SYNTAX                       Unsigned32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiConnectionAttributesEntry 5 }

-----------------------------------------------------------------------

iscsiLunInfo OBJECT IDENTIFIER ::= { iscsiSessionObjects 2 }

iscsiLunObjects OBJECT IDENTIFIER ::= { iscsiLunInfo 1 }
iscsiLunScalars OBJECT IDENTIFIER ::= { iscsiLunInfo 2 }

iscsiLunTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLunEntry
    MAX-ACCESS                      not-accessible
```

```
    STATUS                          current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 3 }

iscsiLunEntry OBJECT-TYPE
    SYNTAX                          IscsiLunEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    INDEX { iscsiInstIndex, iscsiSsnIndex, iscsiLunIndex }
::= { iscsiLunTable 1 }

IscsiLunEntry ::= SEQUENCE {
    iscsiLunIndex                   Unsigned32 (1..4294967295)
}

iscsiLunIndex OBJECT-TYPE
    SYNTAX                        Unsigned32 (1..4294967295)
    MAX-ACCESS                      read-only -- not-accessible
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunEntry 1 }

iscsiLunAttributesTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLunAttributesEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 4 }

iscsiLunAttributesEntry OBJECT-TYPE
    SYNTAX                          IscsiLunAttributesEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    AUGMENTS { iscsiLunEntry }
::= { iscsiLunAttributesTable 1 }

IscsiLunAttributesEntry ::= SEQUENCE {
```

```
    iscsiLunTarget                 RowPointer
}

iscsiLunTarget OBJECT-TYPE
    SYNTAX                       RowPointer
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunAttributesEntry 1 }

iscsiLunStatsTable OBJECT-TYPE
    SYNTAX                         SEQUENCE OF IscsiLunStatsEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 5 }

iscsiLunStatsEntry OBJECT-TYPE
    SYNTAX                         IscsiLunStatsEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    AUGMENTS { iscsiLunEntry }
::= { iscsiLunStatsTable 1 }

IscsiLunStatsEntry ::= SEQUENCE {
    iscsiLunTxCmdPDUs              Counter32,
    iscsiLunTxRspPDUs              Counter32,
    iscsiLunRxRspPDUs              Counter32,
    iscsiLunRxCmdPDUs              Counter32,
    iscsiLunTxDataOctets           Counter64,
    iscsiLunRxDataOctets           Counter64
}

iscsiLunTxCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunStatsEntry 1 }

iscsiLunTxRspPDUs OBJECT-TYPE
```

```
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunStatsEntry 2 }

iscsiLunRxRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunStatsEntry 3 }

iscsiLunRxCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunStatsEntry 4 }

iscsiLunTxDataOctets OBJECT-TYPE
    SYNTAX                        Counter64
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunStatsEntry 5 }

iscsiLunRxDataOctets OBJECT-TYPE
    SYNTAX                        Counter64
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunStatsEntry 6 }

iscsiLunCxnErrorStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLunCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 6 }
```

```
iscsiLunCxnErrorStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLunCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    AUGMENTS { iscsiLunEntry }
::= { iscsiLunCxnErrorStatsTable 1 }

IscsiLunCxnErrorStatsEntry ::= SEQUENCE {
    iscsiLunHdrDigestErrors        Counter32,
    iscsiLunDataDigestErrors       Counter32,
    iscsiLunCxnTimeoutErrors       Counter32,
    iscsiLunFramingErrors          Counter32
}

iscsiLunHdrDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunCxnErrorStatsEntry 1 }

iscsiLunDataDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunCxnErrorStatsEntry 2 }

iscsiLunCxnTimeoutErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunCxnErrorStatsEntry 3 }

iscsiLunFramingErrors OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunCxnErrorStatsEntry 4 }
```

```
iscsiLunTxCmdStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiLunTxCmdStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 7 }

iscsiLunTxCmdStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiLunTxCmdStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    AUGMENTS { iscsiLunEntry }
::= { iscsiLunTxCmdStatsTable 1 }

IscsiLunTxCmdStatsEntry ::= SEQUENCE {
    iscsiLunTxNopOutPDUs           Counter32,
    iscsiLunTxScsiCmdPDUs          Counter32,
    iscsiLunTxScsiTaskMgmtCmdPDUs  Counter32,
    iscsiLunTxLoginCmdPDUs         Counter32,
    iscsiLunTxTextCmdPDUs          Counter32,
    iscsiLunTxScsiDataWritePDUs    Counter32,
    iscsiLunTxLogoutCmdPDUs        Counter32,
    iscsiLunTxSackReqPDUs          Counter32
}

iscsiLunTxNopOutPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLunTxCmdStatsEntry 1 }

iscsiLunTxScsiCmdPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLunTxCmdStatsEntry 2 }

iscsiLunTxScsiTaskMgmtCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxCmdStatsEntry 3 }

iscsiLunTxLoginCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxCmdStatsEntry 4 }

iscsiLunTxTextCmdPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxCmdStatsEntry 5 }

iscsiLunTxScsiDataWritePDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxCmdStatsEntry 6 }

iscsiLunTxLogoutCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxCmdStatsEntry 7 }

iscsiLunTxSackReqPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxCmdStatsEntry 8 }

iscsiLunRxCmdStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLunRxCmdStatsEntry
```

```
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 8 }

iscsiLunRxCmdStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLunRxCmdStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    AUGMENTS { iscsiLunEntry }
::= { iscsiLunRxCmdStatsTable 1 }

IscsiLunRxCmdStatsEntry ::= SEQUENCE {
    iscsiLunRxNopInPDUs             Counter32,
    iscsiLunRxScsiRspPDUs           Counter32,
    iscsiLunRxScsiTaskMgmtRspPDUs   Counter32,
    iscsiLunRxLoginRspPDUs          Counter32,
    iscsiLunRxTextRspPDUs           Counter32,
    iscsiLunRxScsiDataReadPDUs      Counter32,
    iscsiLunRxLogoutRspPDUs         Counter32,
    iscsiLunRxR2TPDUs               Counter32,
    iscsiLunRxAsyncPDUs             Counter32,
    iscsiLunRxRejectPDUs            Counter32
}

iscsiLunRxNopInPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 1 }

iscsiLunRxScsiRspPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 2 }

iscsiLunRxScsiTaskMgmtRspPDUs OBJECT-TYPE
    SYNTAX                    Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 3 }

iscsiLunRxLoginRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 4 }

iscsiLunRxTextRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 5 }

iscsiLunRxScsiDataReadPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 6 }

iscsiLunRxLogoutRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 7 }

iscsiLunRxR2TPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 8 }

iscsiLunRxAsyncPDUs OBJECT-TYPE
    SYNTAX                       Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 9 }

iscsiLunRxRejectPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxCmdStatsEntry 10 }

iscsiLunTxRspStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLunTxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 9 }

iscsiLunTxRspStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLunTxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    AUGMENTS { iscsiLunEntry }
::= { iscsiLunTxRspStatsTable 1 }

IscsiLunTxRspStatsEntry ::= SEQUENCE {
    iscsiLunTxNopInPDUs             Counter32,
    iscsiLunTxScsiRspPDUs           Counter32,
    iscsiLunTxScsiTaskMgmtRspPDUs   Counter32,
    iscsiLunTxLoginRspPDUs          Counter32,
    iscsiLunTxTextRspPDUs           Counter32,
    iscsiLunTxScsiDataReadPDUs      Counter32,
    iscsiLunTxLogoutRspPDUs         Counter32,
    iscsiLunTxR2TPDUs               Counter32,
    iscsiLunTxAsyncPDUs             Counter32,
    iscsiLunTxRejectPDUs            Counter32
}

iscsiLunTxNopInPDUs OBJECT-TYPE
    SYNTAX                        Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 1 }

iscsiLunTxScsiRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 2 }

iscsiLunTxScsiTaskMgmtRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 3 }

iscsiLunTxLoginRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 4 }

iscsiLunTxTextRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 5 }

iscsiLunTxScsiDataReadPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 6 }

iscsiLunTxLogoutRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 7 }

iscsiLunTxR2TPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 8 }

iscsiLunTxAsyncPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 9 }

iscsiLunTxRejectPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxRspStatsEntry 10 }

iscsiLunRxRspStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLunRxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 10 }

iscsiLunRxRspStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLunRxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    AUGMENTS { iscsiLunEntry }
::= { iscsiLunRxRspStatsTable 1 }
```

```
IscsiLunRxRspStatsEntry ::= SEQUENCE {
    iscsiLunRxNopOutPDUs           Counter32,
    iscsiLunRxScsiCmdPDUs          Counter32,
    iscsiLunRxScsiTaskMgmtCmdPDUs  Counter32,
    iscsiLunRxLoginCmdPDUs         Counter32,
    iscsiLunRxTextCmdPDUs          Counter32,
    iscsiLunRxScsiDataWritePDUs    Counter32,
    iscsiLunRxLogoutCmdPDUs        Counter32,
    iscsiLunRxSackReqPDUs          Counter32
}

iscsiLunRxNopOutPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunRxRspStatsEntry 1 }

iscsiLunRxScsiCmdPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunRxRspStatsEntry 2 }

iscsiLunRxScsiTaskMgmtCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunRxRspStatsEntry 3 }

iscsiLunRxLoginCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunRxRspStatsEntry 4 }

iscsiLunRxTextCmdPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
```

```
    "."
::= { iscsiLunRxRspStatsEntry 5 }

iscsiLunRxScsiDataWritePDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxRspStatsEntry 6 }

iscsiLunRxLogoutCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxRspStatsEntry 7 }

iscsiLunRxSackReqPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxRspStatsEntry 8 }

iscsiLunTxStatusStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLunTxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 11 }

iscsiLunTxStatusStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLunTxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    AUGMENTS { iscsiLunEntry }
::= { iscsiLunTxStatusStatsTable 1 }

IscsiLunTxStatusStatsEntry ::= SEQUENCE {
    iscsiLunTxStsAccepts            Counter32,
```

```
    iscsiLunTxStsAutheticates      Counter32,
    iscsiLunTxStsMoveTemps         Counter32,
    iscsiLunTxStsMovePerms         Counter32,
    iscsiLunTxStsProxies           Counter32,
    iscsiLunTxStsAuthFails         Counter32,
    iscsiLunTxStsForbiddens        Counter32,
    iscsiLunTxStsNotFounds         Counter32,
    iscsiLunTxStsRemoveds          Counter32,
    iscsiLunTxStsConflicts         Counter32,
    iscsiLunTxStsTargetErrors      Counter32,
    iscsiLunTxStsUnavailables      Counter32,
    iscsiLunTxStsBadVersions       Counter32
}

iscsiLunTxStsAccepts OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 1 }

iscsiLunTxStsAutheticates OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 2 }

iscsiLunTxStsMoveTemps OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 3 }

iscsiLunTxStsMovePerms OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 4 }

iscsiLunTxStsProxies OBJECT-TYPE
    SYNTAX                       Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 5 }

iscsiLunTxStsAuthFails OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 6 }

iscsiLunTxStsForbiddens OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 7 }

iscsiLunTxStsNotFounds OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 8 }

iscsiLunTxStsRemoveds OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 9 }

iscsiLunTxStsConflicts OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 10 }

iscsiLunTxStsTargetErrors OBJECT-TYPE
    SYNTAX                  Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 11 }

iscsiLunTxStsUnavailables OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 12 }

iscsiLunTxStsBadVersions OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunTxStatusStatsEntry 13 }

iscsiLunRxStatusStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLunRxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Luns belonging to each iSCSI instance
        present on the system."
::= { iscsiLunInfo 12 }

iscsiLunRxStatusStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLunRxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lun instance."
    AUGMENTS { iscsiLunEntry }
::= { iscsiLunRxStatusStatsTable 1 }

IscsiLunRxStatusStatsEntry ::= SEQUENCE {
    iscsiLunRxStsAccepts            Counter32,
    iscsiLunRxStsAutheticates       Counter32,
    iscsiLunRxStsMoveTemps          Counter32,
    iscsiLunRxStsMovePerms          Counter32,
    iscsiLunRxStsProxies            Counter32,
    iscsiLunRxStsAuthFails          Counter32,
```

```
    iscsiLunRxStsForbiddens        Counter32,
    iscsiLunRxStsNotFounds         Counter32,
    iscsiLunRxStsRemoveds          Counter32,
    iscsiLunRxStsConflicts         Counter32,
    iscsiLunRxStsTargetErrors      Counter32,
    iscsiLunRxStsUnavailables      Counter32,
    iscsiLunRxStsBadVersions       Counter32
}

iscsiLunRxStsAccepts OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 1 }

iscsiLunRxStsAutheticates OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 2 }

iscsiLunRxStsMoveTemps OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 3 }

iscsiLunRxStsMovePerms OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 4 }

iscsiLunRxStsProxies OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 5 }
```

```
iscsiLunRxStsAuthFails OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 6 }

iscsiLunRxStsForbiddens OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 7 }

iscsiLunRxStsNotFounds OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 8 }

iscsiLunRxStsRemoveds OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 9 }

iscsiLunRxStsConflicts OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 10 }

iscsiLunRxStsTargetErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 11 }
```

```
iscsiLunRxStsUnavailables OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 12 }

iscsiLunRxStsBadVersions OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLunRxStatusStatsEntry 13 }

-----------------------------------------------------------------------

iscsiTargetInfo OBJECT IDENTIFIER ::= { iscsiInstanceObjects 3 }

iscsiTargetObjects OBJECT IDENTIFIER ::= { iscsiTargetInfo 1 }
iscsiTargetScalars OBJECT IDENTIFIER ::= { iscsiTargetInfo 2 }

iscsiTargetTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiTargetEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 3 }

iscsiTargetEntry OBJECT-TYPE
    SYNTAX                          IscsiTargetEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    INDEX { iscsiInstIndex, iscsiTgtIndex }
::= { iscsiTargetTable 1 }

IscsiTargetEntry ::= SEQUENCE {
    iscsiTgtIndex                   Unsigned32 (1..4294967295)
}

iscsiTgtIndex OBJECT-TYPE
    SYNTAX                        Unsigned32 (1..4294967295)
```

```
    MAX-ACCESS                      read-only -- not-accessible
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetEntry 1 }

iscsiTargetAttributesTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiTargetAttributesEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 4 }

iscsiTargetAttributesEntry OBJECT-TYPE
    SYNTAX                          IscsiTargetAttributesEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    AUGMENTS { iscsiTargetEntry }
::= { iscsiTargetAttributesTable 1 }

IscsiTargetAttributesEntry ::= SEQUENCE {
    iscsiTgtWWUI                    UTF8String,
    iscsiTgtAlias                   UTF8String,
    iscsiTgtLuNumber                Unsigned32,
    iscsiTgtScsiAttributes          RowPointer
}

iscsiTgtWWUI OBJECT-TYPE
    SYNTAX                        UTF8String
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetAttributesEntry 1 }

iscsiTgtAlias OBJECT-TYPE
    SYNTAX                        UTF8String
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetAttributesEntry 2 }
```

```
iscsiTgtLuNumber OBJECT-TYPE
    SYNTAX                       Unsigned32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetAttributesEntry 3 }

iscsiTgtScsiAttributes OBJECT-TYPE
    SYNTAX                  RowPointer
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetAttributesEntry 4 }

iscsiTargetStatsTable OBJECT-TYPE
    SYNTAX                         SEQUENCE OF IscsiTargetStatsEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 5 }

iscsiTargetStatsEntry OBJECT-TYPE
    SYNTAX                         IscsiTargetStatsEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    AUGMENTS { iscsiTargetEntry }
::= { iscsiTargetStatsTable 1 }

IscsiTargetStatsEntry ::= SEQUENCE {
    iscsiTgtTxRspPDUs              Counter32,
    iscsiTgtRxCmdPDUs              Counter32,
    iscsiTgtTxDataOctets           Counter64,
    iscsiTgtRxDataOctets           Counter64
}

iscsiTgtTxRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
```

```
::= { iscsiTargetStatsEntry 1 }

iscsiTgtRxCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetStatsEntry 2 }

iscsiTgtTxDataOctets OBJECT-TYPE
    SYNTAX                        Counter64
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetStatsEntry 3 }

iscsiTgtRxDataOctets OBJECT-TYPE
    SYNTAX                        Counter64
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetStatsEntry 4 }

iscsiTargetCxnErrorStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiTargetCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 6 }

iscsiTargetCxnErrorStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiTargetCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    AUGMENTS { iscsiTargetEntry }
::= { iscsiTargetCxnErrorStatsTable 1 }

IscsiTargetCxnErrorStatsEntry ::= SEQUENCE {
    iscsiTgtHdrDigestErrors         Counter32,
    iscsiTgtDataDigestErrors        Counter32,
```

```
    iscsiTgtCxnTimeoutErrors       Counter32,
    iscsiTgtFramingErrors          Counter32
}

iscsiTgtHdrDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetCxnErrorStatsEntry 1 }

iscsiTgtDataDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetCxnErrorStatsEntry 2 }

iscsiTgtCxnTimeoutErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetCxnErrorStatsEntry 3 }

iscsiTgtFramingErrors OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetCxnErrorStatsEntry 4 }

iscsiTargetTxRspStatsTable OBJECT-TYPE
    SYNTAX                         SEQUENCE OF IscsiTargetTxRspStatsEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 7 }

iscsiTargetTxRspStatsEntry OBJECT-TYPE
    SYNTAX                         IscsiTargetTxRspStatsEntry
    MAX-ACCESS                     not-accessible
```

```
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    AUGMENTS { iscsiTargetEntry }
::= { iscsiTargetTxRspStatsTable 1 }

IscsiTargetTxRspStatsEntry ::= SEQUENCE {
    iscsiTgtTxNopInPDUs            Counter32,
    iscsiTgtTxScsiRspPDUs          Counter32,
    iscsiTgtTxScsiTaskMgmtRspPDUs  Counter32,
    iscsiTgtTxLoginRspPDUs         Counter32,
    iscsiTgtTxTextRspPDUs          Counter32,
    iscsiTgtTxScsiDataReadPDUs     Counter32,
    iscsiTgtTxLogoutRspPDUs        Counter32,
    iscsiTgtTxR2TPDUs              Counter32,
    iscsiTgtTxAsyncPDUs            Counter32,
    iscsiTgtTxRejectPDUs           Counter32
}

iscsiTgtTxNopInPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 1 }

iscsiTgtTxScsiRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 2 }

iscsiTgtTxScsiTaskMgmtRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 3 }

iscsiTgtTxLoginRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
```

```
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 4 }

iscsiTgtTxTextRspPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 5 }

iscsiTgtTxScsiDataReadPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 6 }

iscsiTgtTxLogoutRspPDUs OBJECT-TYPE
    SYNTAX                 Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 7 }

iscsiTgtTxR2TPDUs OBJECT-TYPE
    SYNTAX                 Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 8 }

iscsiTgtTxAsyncPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 9 }

iscsiTgtTxRejectPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
```

```
    DESCRIPTION
    "."
::= { iscsiTargetTxRspStatsEntry 10 }

iscsiTargetRxCmdStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiTargetRxCmdStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 8 }

iscsiTargetRxCmdStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiTargetRxCmdStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    AUGMENTS { iscsiTargetEntry }
::= { iscsiTargetRxCmdStatsTable 1 }

IscsiTargetRxCmdStatsEntry ::= SEQUENCE {
    iscsiTgtRxNopInPDUs           Counter32,
    iscsiTgtRxScsiRspPDUs         Counter32,
    iscsiTgtRxScsiTaskMgmtRspPDUs  Counter32,
    iscsiTgtRxLoginRspPDUs        Counter32,
    iscsiTgtRxTextRspPDUs         Counter32,
    iscsiTgtRxScsiDataReadPDUs    Counter32,
    iscsiTgtRxLogoutRspPDUs       Counter32,
    iscsiTgtRxR2TPDUs             Counter32,
    iscsiTgtRxAsyncPDUs           Counter32,
    iscsiTgtRxRejectPDUs          Counter32
}

iscsiTgtRxNopInPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 1 }

iscsiTgtRxScsiRspPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
```

```
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 2 }

iscsiTgtRxScsiTaskMgmtRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 3 }

iscsiTgtRxLoginRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 4 }

iscsiTgtRxTextRspPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 5 }

iscsiTgtRxScsiDataReadPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 6 }

iscsiTgtRxLogoutRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 7 }

iscsiTgtRxR2TPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
```

```
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 8 }

iscsiTgtRxAsyncPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 9 }

iscsiTgtRxRejectPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetRxCmdStatsEntry 10 }

iscsiTargetTxStatusStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiTargetTxStatusStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 9 }

iscsiTargetTxStatusStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiTargetTxStatusStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    AUGMENTS { iscsiTargetEntry }
::= { iscsiTargetTxStatusStatsTable 1 }

IscsiTargetTxStatusStatsEntry ::= SEQUENCE {
    iscsiTgtTxStsAccepts          Counter32,
    iscsiTgtTxStsAutheticates     Counter32,
    iscsiTgtTxStsMoveTemps        Counter32,
    iscsiTgtTxStsMovePerms        Counter32,
    iscsiTgtTxStsProxies          Counter32,
    iscsiTgtTxStsAuthFails        Counter32,
    iscsiTgtTxStsForbiddens       Counter32,
    iscsiTgtTxStsNotFounds        Counter32,
```

```
    iscsiTgtTxStsRemoveds          Counter32,
    iscsiTgtTxStsConflicts         Counter32,
    iscsiTgtTxStsTargetErrors      Counter32,
    iscsiTgtTxStsUnavailables      Counter32,
    iscsiTgtTxStsBadVersions       Counter32
}

iscsiTgtTxStsAccepts OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 1 }

iscsiTgtTxStsAutheticates OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 2 }

iscsiTgtTxStsMoveTemps OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 3 }

iscsiTgtTxStsMovePerms OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 4 }

iscsiTgtTxStsProxies OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 5 }

iscsiTgtTxStsAuthFails OBJECT-TYPE
```

```
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 6 }

iscsiTgtTxStsForbiddens OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 7 }

iscsiTgtTxStsNotFounds OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 8 }

iscsiTgtTxStsRemoveds OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 9 }

iscsiTgtTxStsConflicts OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 10 }

iscsiTgtTxStsTargetErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 11 }

iscsiTgtTxStsUnavailables OBJECT-TYPE
```

```
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 12 }

iscsiTgtTxStsBadVersions OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxStatusStatsEntry 13 }

iscsiTargetTxRejectStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiTargetTxRejectStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 10 }

iscsiTargetTxRejectStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiTargetTxRejectStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    AUGMENTS { iscsiTargetEntry }
::= { iscsiTargetTxRejectStatsTable 1 }

IscsiTargetTxRejectStatsEntry ::= SEQUENCE {
    iscsiTgtTxRjtFormats            Counter32,
    iscsiTgtTxRjtHdrDigests         Counter32,
    iscsiTgtTxRjtDataDigests        Counter32,
    iscsiTgtTxRjtDataSacks          Counter32,
    iscsiTgtTxRjtRestarts           Counter32,
    iscsiTgtTxRjtFullFeatures       Counter32
}

iscsiTgtTxRjtFormats OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
```

```
    "."
::= { iscsiTargetTxRejectStatsEntry 1 }

iscsiTgtTxRjtHdrDigests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxRejectStatsEntry 2 }

iscsiTgtTxRjtDataDigests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxRejectStatsEntry 3 }

iscsiTgtTxRjtDataSacks OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxRejectStatsEntry 4 }

iscsiTgtTxRjtRestarts OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxRejectStatsEntry 5 }

iscsiTgtTxRjtFullFeatures OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiTargetTxRejectStatsEntry 6 }

iscsiTargetTxLogoutStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiTargetTxLogoutStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
```

```
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 11 }

iscsiTargetTxLogoutStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiTargetTxLogoutStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    AUGMENTS { iscsiTargetEntry }
::= { iscsiTargetTxLogoutStatsTable 1 }

IscsiTargetTxLogoutStatsEntry ::= SEQUENCE {
    iscsiTgtTxLgtSessionCloses     Counter32,
    iscsiTgtTxLgtCxnRecoveries     Counter32,
    iscsiTgtTxLgtTargetRequests    Counter32
}

iscsiTgtTxLgtSessionCloses OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxLogoutStatsEntry 1 }

iscsiTgtTxLgtCxnRecoveries OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxLogoutStatsEntry 2 }

iscsiTgtTxLgtTargetRequests OBJECT-TYPE
    SYNTAX                 Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxLogoutStatsEntry 3 }

iscsiTargetTxAsyncStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiTargetTxAsyncStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
```

```
    DESCRIPTION
        "A list of Targets belonging to each iSCSI instance
        present on the system."
::= { iscsiTargetInfo 12 }

iscsiTargetTxAsyncStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiTargetTxAsyncStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Target instance."
    AUGMENTS { iscsiTargetEntry }
::= { iscsiTargetTxAsyncStatsTable 1 }

IscsiTargetTxAsyncStatsEntry ::= SEQUENCE {
    iscsiTgtTxAsyTargetResets      Counter32,
    iscsiTgtTxAsyLogoutRequests    Counter32,
    iscsiTgtTxAsyCxnDrops       Counter32
}

iscsiTgtTxAsyTargetResets OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxAsyncStatsEntry 1 }

iscsiTgtTxAsyLogoutRequests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxAsyncStatsEntry 2 }

iscsiTgtTxAsyCxnDrops OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiTargetTxAsyncStatsEntry 3 }

--------------------------------------------------------------------------

iscsiLuInfo OBJECT IDENTIFIER ::= { iscsiTargetObjects 1 }
```

```
iscsiLuObjects OBJECT IDENTIFIER ::= { iscsiLuInfo 1 }
iscsiLuScalars OBJECT IDENTIFIER ::= { iscsiLuInfo 2 }

iscsiLuTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiLuEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Logical Units belonging to each target of each iSCSI
        instance present on the system."
::= { iscsiLuInfo 3 }

iscsiLuEntry OBJECT-TYPE
    SYNTAX                        IscsiLuEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular LUN instance."
    INDEX { iscsiInstIndex, iscsiTgtIndex, iscsiLuIndex }
::= { iscsiLuTable 1 }

IscsiLuEntry ::= SEQUENCE {
    iscsiLuIndex                  Unsigned32 (1..4294967295)
}

iscsiLuIndex OBJECT-TYPE
    SYNTAX                      Unsigned32 (1..4294967295)
    MAX-ACCESS                    read-only -- not-accessible
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuEntry 1 }

iscsiLuAttributesTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiLuAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Logical Units belonging to each target of each iSCSI
        instance present on the system."
::= { iscsiLuInfo 4 }

iscsiLuAttributesEntry OBJECT-TYPE
    SYNTAX                        IscsiLuAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
```

```
        "An entry (row) containing managment information applicable
        to a particular LUN instance."
    AUGMENTS { iscsiLuEntry }
::= { iscsiLuAttributesTable 1 }

IscsiLuAttributesEntry ::= SEQUENCE {
    iscsiLuScsiAttributes          RowPointer,
    iscsiLuWWN                     UTF8String,
    iscsiLuInquiryString           UTF8String,
    iscsiLuSerialNumber            UTF8String,
    iscsiLuDeviceId                OCTET STRING
}

iscsiLuScsiAttributes OBJECT-TYPE
    SYNTAX                       RowPointer
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuAttributesEntry 1 }

iscsiLuWWN OBJECT-TYPE
    SYNTAX                           UTF8String
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuAttributesEntry 2 }

iscsiLuInquiryString OBJECT-TYPE
    SYNTAX                       UTF8String
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuAttributesEntry 3 }

iscsiLuSerialNumber OBJECT-TYPE
    SYNTAX                       UTF8String
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuAttributesEntry 4 }

iscsiLuDeviceId OBJECT-TYPE
    SYNTAX                       OCTET STRING
    MAX-ACCESS                     read-only
```

```
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuAttributesEntry 5 }

iscsiLuStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiLuStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Logical Units belonging to each target of each iSCSI
        instance present on the system."
::= { iscsiLuInfo 5 }

iscsiLuStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiLuStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular LUN instance."
    AUGMENTS { iscsiLuEntry }
::= { iscsiLuStatsTable 1 }

IscsiLuStatsEntry ::= SEQUENCE {
    iscsiLuTxRspPDUs              Counter32,
    iscsiLuRxCmdPDUs              Counter32,
    iscsiLuTxDataOctets           Counter64,
    iscsiLuRxDataOctets           Counter64
}

iscsiLuTxRspPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuStatsEntry 1 }

iscsiLuRxCmdPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuStatsEntry 2 }

iscsiLuTxDataOctets OBJECT-TYPE
```

```
    SYNTAX                        Counter64
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuStatsEntry 3 }

iscsiLuRxDataOctets OBJECT-TYPE
    SYNTAX                        Counter64
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuStatsEntry 4 }

iscsiLuCxnErrorStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLuCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Lus belonging to each iSCSI instance
        present on the system."
::= { iscsiLuInfo 6 }

iscsiLuCxnErrorStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLuCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lu instance."
    AUGMENTS { iscsiLuEntry }
::= { iscsiLuCxnErrorStatsTable 1 }

IscsiLuCxnErrorStatsEntry ::= SEQUENCE {
    iscsiLuHdrDigestErrors          Counter32,
    iscsiLuDataDigestErrors         Counter32,
    iscsiLuCxnTimeoutErrors         Counter32,
    iscsiLuFramingErrors            Counter32
}

iscsiLuHdrDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuCxnErrorStatsEntry 1 }
```

```
iscsiLuDataDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuCxnErrorStatsEntry 2 }

iscsiLuCxnTimeoutErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuCxnErrorStatsEntry 3 }

iscsiLuFramingErrors OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuCxnErrorStatsEntry 4 }

iscsiLuTxRspStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLuTxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Lus belonging to each iSCSI instance
        present on the system."
::= { iscsiLuInfo 7 }

iscsiLuTxRspStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLuTxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lu instance."
    AUGMENTS { iscsiLuEntry }
::= { iscsiLuTxRspStatsTable 1 }

IscsiLuTxRspStatsEntry ::= SEQUENCE {
    iscsiLuTxNopInPDUs              Counter32,
    iscsiLuTxScsiRspPDUs            Counter32,
    iscsiLuTxScsiTaskMgmtRspPDUs    Counter32,
    iscsiLuTxLoginRspPDUs           Counter32,
```

```
    iscsiLuTxTextRspPDUs           Counter32,
    iscsiLuTxScsiDataReadPDUs      Counter32,
    iscsiLuTxLogoutRspPDUs         Counter32,
    iscsiLuTxR2TPDUs               Counter32,
    iscsiLuTxAsyncPDUs             Counter32,
    iscsiLuTxRejectPDUs            Counter32
}

iscsiLuTxNopInPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 1 }

iscsiLuTxScsiRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 2 }

iscsiLuTxScsiTaskMgmtRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 3 }

iscsiLuTxLoginRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 4 }

iscsiLuTxTextRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 5 }
```

```
iscsiLuTxScsiDataReadPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 6 }

iscsiLuTxLogoutRspPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 7 }

iscsiLuTxR2TPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 8 }

iscsiLuTxAsyncPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 9 }

iscsiLuTxRejectPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxRspStatsEntry 10 }

iscsiLuRxCmdStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLuRxCmdStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Lus belonging to each iSCSI instance
        present on the system."
::= { iscsiLuInfo 8 }
```

```
iscsiLuRxCmdStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiLuRxCmdStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lu instance."
    AUGMENTS { iscsiLuEntry }
::= { iscsiLuRxCmdStatsTable 1 }

IscsiLuRxCmdStatsEntry ::= SEQUENCE {
    iscsiLuRxNopInPDUs            Counter32,
    iscsiLuRxScsiRspPDUs          Counter32,
    iscsiLuRxScsiTaskMgmtRspPDUs  Counter32,
    iscsiLuRxLoginRspPDUs         Counter32,
    iscsiLuRxTextRspPDUs          Counter32,
    iscsiLuRxScsiDataReadPDUs     Counter32,
    iscsiLuRxLogoutRspPDUs        Counter32,
    iscsiLuRxR2TPDUs              Counter32,
    iscsiLuRxAsyncPDUs            Counter32,
    iscsiLuRxRejectPDUs           Counter32
}

iscsiLuRxNopInPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 1 }

iscsiLuRxScsiRspPDUs OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 2 }

iscsiLuRxScsiTaskMgmtRspPDUs OBJECT-TYPE
    SYNTAX                 Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 3 }

iscsiLuRxLoginRspPDUs OBJECT-TYPE
```

```
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 4 }

iscsiLuRxTextRspPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 5 }

iscsiLuRxScsiDataReadPDUs OBJECT-TYPE
    SYNTAX                   Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 6 }

iscsiLuRxLogoutRspPDUs OBJECT-TYPE
    SYNTAX                   Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 7 }

iscsiLuRxR2TPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 8 }

iscsiLuRxAsyncPDUs OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 9 }

iscsiLuRxRejectPDUs OBJECT-TYPE
```

```
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuRxCmdStatsEntry 10 }

iscsiLuTxStatusStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLuTxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Lus belonging to each iSCSI instance
        present on the system."
::= { iscsiLuInfo 9 }

iscsiLuTxStatusStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLuTxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lu instance."
    AUGMENTS { iscsiLuEntry }
::= { iscsiLuTxStatusStatsTable 1 }

IscsiLuTxStatusStatsEntry ::= SEQUENCE {
    iscsiLuTxStsAccepts             Counter32,
    iscsiLuTxStsAutheticates        Counter32,
    iscsiLuTxStsMoveTemps           Counter32,
    iscsiLuTxStsMovePerms           Counter32,
    iscsiLuTxStsProxies             Counter32,
    iscsiLuTxStsAuthFails           Counter32,
    iscsiLuTxStsForbiddens          Counter32,
    iscsiLuTxStsNotFounds           Counter32,
    iscsiLuTxStsRemoveds            Counter32,
    iscsiLuTxStsConflicts           Counter32,
    iscsiLuTxStsLuErrors            Counter32,
    iscsiLuTxStsUnavailables        Counter32,
    iscsiLuTxStsBadVersions         Counter32
}

iscsiLuTxStsAccepts OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
```

```
::= { iscsiLuTxStatusStatsEntry 1 }

iscsiLuTxStsAutheticates OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 2 }

iscsiLuTxStsMoveTemps OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 3 }

iscsiLuTxStsMovePerms OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 4 }

iscsiLuTxStsProxies OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 5 }

iscsiLuTxStsAuthFails OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 6 }

iscsiLuTxStsForbiddens OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
```

```
::= { iscsiLuTxStatusStatsEntry 7 }

iscsiLuTxStsNotFounds OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 8 }

iscsiLuTxStsRemoveds OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 9 }

iscsiLuTxStsConflicts OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 10 }

iscsiLuTxStsLuErrors OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 11 }

iscsiLuTxStsUnavailables OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuTxStatusStatsEntry 12 }

iscsiLuTxStsBadVersions OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
```

```
::= { iscsiLuTxStatusStatsEntry 13 }

iscsiLuTxRejectStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiLuTxRejectStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Lus belonging to each iSCSI instance
        present on the system."
::= { iscsiLuInfo 10 }

iscsiLuTxRejectStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiLuTxRejectStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lu instance."
    AUGMENTS { iscsiLuEntry }
::= { iscsiLuTxRejectStatsTable 1 }

IscsiLuTxRejectStatsEntry ::= SEQUENCE {
    iscsiLuTxRjtFormats           Counter32,
    iscsiLuTxRjtHdrDigests        Counter32,
    iscsiLuTxRjtDataDigests       Counter32,
    iscsiLuTxRjtDataSacks         Counter32,
    iscsiLuTxRjtRestarts          Counter32,
    iscsiLuTxRjtFullFeatures      Counter32
}

iscsiLuTxRjtFormats OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuTxRejectStatsEntry 1 }

iscsiLuTxRjtHdrDigests OBJECT-TYPE
    SYNTAX                 Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiLuTxRejectStatsEntry 2 }

iscsiLuTxRjtDataDigests OBJECT-TYPE
    SYNTAX                 Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxRejectStatsEntry 3 }

iscsiLuTxRjtDataSacks OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxRejectStatsEntry 4 }

iscsiLuTxRjtRestarts OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxRejectStatsEntry 5 }

iscsiLuTxRjtFullFeatures OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxRejectStatsEntry 6 }

iscsiLuTxLogoutStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLuTxLogoutStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Lus belonging to each iSCSI instance
        present on the system."
::= { iscsiLuInfo 11 }

iscsiLuTxLogoutStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLuTxLogoutStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lu instance."
    AUGMENTS { iscsiLuEntry }
::= { iscsiLuTxLogoutStatsTable 1 }
```

```
IscsiLuTxLogoutStatsEntry ::= SEQUENCE {
    iscsiLuTxLgtSessionCloses      Counter32,
    iscsiLuTxLgtCxnRecoveries      Counter32,
    iscsiLuTxLgtTargetRequests     Counter32
}

iscsiLuTxLgtSessionCloses OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxLogoutStatsEntry 1 }

iscsiLuTxLgtCxnRecoveries OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxLogoutStatsEntry 2 }

iscsiLuTxLgtTargetRequests OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiLuTxLogoutStatsEntry 3 }

iscsiLuTxAsyncStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiLuTxAsyncStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Lus belonging to each iSCSI instance
        present on the system."
::= { iscsiLuInfo 12 }

iscsiLuTxAsyncStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiLuTxAsyncStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Lu instance."
    AUGMENTS { iscsiLuEntry }
::= { iscsiLuTxAsyncStatsTable 1 }
```

```
IscsiLuTxAsyncStatsEntry ::= SEQUENCE {
    iscsiLuTxAsyTargetResets       Counter32,
    iscsiLuTxAsyLogoutRequests     Counter32,
    iscsiLuTxAsyCxnDrops        Counter32
}

iscsiLuTxAsyTargetResets OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuTxAsyncStatsEntry 1 }

iscsiLuTxAsyLogoutRequests OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuTxAsyncStatsEntry 2 }

iscsiLuTxAsyCxnDrops OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiLuTxAsyncStatsEntry 3 }

-----------------------------------------------------------------------

iscsiAccessListInfo OBJECT IDENTIFIER ::= { iscsiTargetObjects 2 }

iscsiAccessListObjects OBJECT IDENTIFIER ::= { iscsiAccessListInfo 1 }
iscsiAccessListScalars OBJECT IDENTIFIER ::= { iscsiAccessListInfo 2 }

iscsiAccessListTable OBJECT-TYPE
    SYNTAX                         SEQUENCE OF IscsiAccessListEntry
    MAX-ACCESS                     not-accessible
    STATUS                         current
    DESCRIPTION
        "."
::= { iscsiAccessListInfo 3 }

iscsiAccessListEntry OBJECT-TYPE
    SYNTAX                         IscsiAccessListEntry
    MAX-ACCESS                     not-accessible
```

```
    STATUS                        current
    DESCRIPTION
        "."
    INDEX { iscsiInstIndex, iscsiTgtIndex, iscsiALIndex }
::= { iscsiAccessListTable  1 }

IscsiAccessListEntry ::= SEQUENCE {
    iscsiALIndex                  Unsigned32 (1..4294967295)
}

iscsiALIndex OBJECT-TYPE
    SYNTAX                      Unsigned32 (1..4294967295)
    MAX-ACCESS                    read-only -- not-accessible
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiAccessListEntry 1 }

iscsiAccessListAttributesTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiAccessListAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "."
::= { iscsiAccessListInfo 4 }

iscsiAccessListAttributesEntry OBJECT-TYPE
    SYNTAX                        IscsiAccessListAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "."
    AUGMENTS { iscsiAccessListEntry }
::= { iscsiAccessListAttributesTable  1 }

IscsiAccessListAttributesEntry ::= SEQUENCE {
    iscsiALInitiatorWWUI          UTF8String
}

iscsiALInitiatorWWUI OBJECT-TYPE
    SYNTAX                      UTF8String
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiAccessListAttributesEntry 1 }

-----------------------------------------------------------------------
```

```
iscsiInitiatorInfo OBJECT IDENTIFIER ::= { iscsiInstanceObjects 4 }

iscsiInitiatorObjects OBJECT IDENTIFIER ::= { iscsiInitiatorInfo 1 }
iscsiInitiatorScalars OBJECT IDENTIFIER ::= { iscsiInitiatorInfo 2 }

iscsiInitiatorTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiInitiatorEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Initiators belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 3 }

iscsiInitiatorEntry OBJECT-TYPE
    SYNTAX                        IscsiInitiatorEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Initiator instance."
    INDEX  { iscsiInstIndex, iscsiIntrIndex }
::= { iscsiInitiatorTable 1 }

IscsiInitiatorEntry ::= SEQUENCE {
    iscsiIntrIndex                Unsigned32 (1..4294967295)
}

iscsiIntrIndex OBJECT-TYPE
    SYNTAX                      Unsigned32 (1..4294967295)
    MAX-ACCESS                    read-only -- not-accessible
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorEntry 1 }

iscsiInitiatorAttributesTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiInitiatorAttributesEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Initiators belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 4 }

iscsiInitiatorAttributesEntry OBJECT-TYPE
    SYNTAX                        IscsiInitiatorAttributesEntry
    MAX-ACCESS                    not-accessible
```

```
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Initiator instance."
    AUGMENTS { iscsiInitiatorEntry }
::= { iscsiInitiatorAttributesTable 1 }

IscsiInitiatorAttributesEntry ::= SEQUENCE {
    iscsiIntrWWUI                 UTF8String,
    iscsiIntrAlias                UTF8String
}

iscsiIntrWWUI OBJECT-TYPE
    SYNTAX                      UTF8String
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorAttributesEntry 1 }

iscsiIntrAlias OBJECT-TYPE
    SYNTAX                      UTF8String
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorAttributesEntry 2 }

iscsiInitiatorStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiInitiatorStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Initiators belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 5 }

iscsiInitiatorStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiInitiatorStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Initiator instance."
    AUGMENTS { iscsiInitiatorEntry }
::= { iscsiInitiatorStatsTable 1 }

IscsiInitiatorStatsEntry ::= SEQUENCE {
```

```
    iscsiIntrTxCmdPDUs             Counter32,
    iscsiIntrTxRspPDUs             Counter32,
    iscsiIntrRxRspPDUs             Counter32,
    iscsiIntrRxCmdPDUs             Counter32,
    iscsiIntrTxDataOctets          Counter64,
    iscsiIntrRxDataOctets          Counter64
}

iscsiIntrTxCmdPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorStatsEntry 1 }

iscsiIntrTxRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorStatsEntry 2 }

iscsiIntrRxRspPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorStatsEntry 3 }

iscsiIntrRxCmdPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorStatsEntry 4 }

iscsiIntrTxDataOctets OBJECT-TYPE
    SYNTAX                       Counter64
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorStatsEntry 5 }
```

```
iscsiIntrRxDataOctets OBJECT-TYPE
    SYNTAX                        Counter64
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorStatsEntry 6 }

iscsiInitiatorCxnErrorStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiInitiatorCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 6 }

iscsiInitiatorCxnErrorStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiInitiatorCxnErrorStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiInitiatorEntry }
::= { iscsiInitiatorCxnErrorStatsTable 1 }

IscsiInitiatorCxnErrorStatsEntry ::= SEQUENCE {
    iscsiIntrHdrDigestErrors       Counter32,
    iscsiIntrDataDigestErrors      Counter32,
    iscsiIntrCxnTimeoutErrors      Counter32,
    iscsiIntrFramingErrors         Counter32
}

iscsiIntrHdrDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorCxnErrorStatsEntry 1 }

iscsiIntrDataDigestErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
```

```
::= { iscsiInitiatorCxnErrorStatsEntry 2 }

iscsiIntrCxnTimeoutErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorCxnErrorStatsEntry 3 }

iscsiIntrFramingErrors OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorCxnErrorStatsEntry 4 }

iscsiInitiatorTxCmdStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiInitiatorTxCmdStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 7 }

iscsiInitiatorTxCmdStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiInitiatorTxCmdStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiInitiatorEntry }
::= { iscsiInitiatorTxCmdStatsTable 1 }

IscsiInitiatorTxCmdStatsEntry ::= SEQUENCE {
    iscsiIntrTxNopOutPDUs          Counter32,
    iscsiIntrTxScsiCmdPDUs         Counter32,
    iscsiIntrTxScsiTaskMgmtCmdPDUs Counter32,
    iscsiIntrTxLoginCmdPDUs        Counter32,
    iscsiIntrTxTextCmdPDUs         Counter32,
    iscsiIntrTxScsiDataWritePDUs   Counter32,
    iscsiIntrTxLogoutCmdPDUs       Counter32,
    iscsiIntrTxSackReqPDUs         Counter32
}
```

```
iscsiIntrTxNopOutPDUs OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorTxCmdStatsEntry 1 }

iscsiIntrTxScsiCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorTxCmdStatsEntry 2 }

iscsiIntrTxScsiTaskMgmtCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorTxCmdStatsEntry 3 }

iscsiIntrTxLoginCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorTxCmdStatsEntry 4 }

iscsiIntrTxTextCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorTxCmdStatsEntry 5 }

iscsiIntrTxScsiDataWritePDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                     read-only
    STATUS                         current
    DESCRIPTION
    "."
::= { iscsiInitiatorTxCmdStatsEntry 6 }
```

```
iscsiIntrTxLogoutCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorTxCmdStatsEntry 7 }

iscsiIntrTxSackReqPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorTxCmdStatsEntry 8 }

iscsiInitiatorRxRspStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiInitiatorRxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 8 }

iscsiInitiatorRxRspStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiInitiatorRxRspStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiInitiatorEntry }
::= { iscsiInitiatorRxRspStatsTable 1 }

IscsiInitiatorRxRspStatsEntry ::= SEQUENCE {
    iscsiIntrRxNopOutPDUs          Counter32,
    iscsiIntrRxScsiCmdPDUs         Counter32,
    iscsiIntrRxScsiTaskMgmtCmdPDUs Counter32,
    iscsiIntrRxLoginCmdPDUs        Counter32,
    iscsiIntrRxTextCmdPDUs         Counter32,
    iscsiIntrRxScsiDataWritePDUs   Counter32,
    iscsiIntrRxLogoutCmdPDUs       Counter32,
    iscsiIntrRxSackReqPDUs         Counter32
}

iscsiIntrRxNopOutPDUs OBJECT-TYPE
    SYNTAX                       Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRspStatsEntry 1 }

iscsiIntrRxScsiCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRspStatsEntry 2 }

iscsiIntrRxScsiTaskMgmtCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRspStatsEntry 3 }

iscsiIntrRxLoginCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRspStatsEntry 4 }

iscsiIntrRxTextCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRspStatsEntry 5 }

iscsiIntrRxScsiDataWritePDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRspStatsEntry 6 }

iscsiIntrRxLogoutCmdPDUs OBJECT-TYPE
    SYNTAX                  Counter32
```

```
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRspStatsEntry 7 }

iscsiIntrRxSackReqPDUs OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRspStatsEntry 8 }

iscsiInitiatorRxStatusStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiInitiatorRxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 9 }

iscsiInitiatorRxStatusStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiInitiatorRxStatusStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiInitiatorEntry }
::= { iscsiInitiatorRxStatusStatsTable 1 }

IscsiInitiatorRxStatusStatsEntry ::= SEQUENCE {
    iscsiIntrRxStsAccepts           Counter32,
    iscsiIntrRxStsAutheticates      Counter32,
    iscsiIntrRxStsMoveTemps         Counter32,
    iscsiIntrRxStsMovePerms         Counter32,
    iscsiIntrRxStsProxies           Counter32,
    iscsiIntrRxStsAuthFails         Counter32,
    iscsiIntrRxStsForbiddens        Counter32,
    iscsiIntrRxStsNotFounds         Counter32,
    iscsiIntrRxStsRemoveds          Counter32,
    iscsiIntrRxStsConflicts         Counter32,
    iscsiIntrRxStsTargetErrors      Counter32,
    iscsiIntrRxStsUnavailables      Counter32,
    iscsiIntrRxStsBadVersions       Counter32
}
```

```
iscsiIntrRxStsAccepts OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 1 }

iscsiIntrRxStsAutheticates OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 2 }

iscsiIntrRxStsMoveTemps OBJECT-TYPE
    SYNTAX                 Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 3 }

iscsiIntrRxStsMovePerms OBJECT-TYPE
    SYNTAX                 Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 4 }

iscsiIntrRxStsProxies OBJECT-TYPE
    SYNTAX                      Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 5 }

iscsiIntrRxStsAuthFails OBJECT-TYPE
    SYNTAX                 Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 6 }
```

```
iscsiIntrRxStsForbiddens OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 7 }

iscsiIntrRxStsNotFounds OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 8 }

iscsiIntrRxStsRemoveds OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 9 }

iscsiIntrRxStsConflicts OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 10 }

iscsiIntrRxStsTargetErrors OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 11 }

iscsiIntrRxStsUnavailables OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 12 }
```

```
iscsiIntrRxStsBadVersions OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxStatusStatsEntry 13 }

iscsiInitiatorRxRejectStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiInitiatorRxRejectStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 10 }

iscsiInitiatorRxRejectStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiInitiatorRxRejectStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiInitiatorEntry }
::= { iscsiInitiatorRxRejectStatsTable 1 }

IscsiInitiatorRxRejectStatsEntry ::= SEQUENCE {
    iscsiIntrRxRjtFormats           Counter32,
    iscsiIntrRxRjtHdrDigests        Counter32,
    iscsiIntrRxRjtDataDigests       Counter32,
    iscsiIntrRxRjtDataSacks         Counter32,
    iscsiIntrRxRjtRestarts          Counter32,
    iscsiIntrRxRjtFullFeatures      Counter32
}

iscsiIntrRxRjtFormats OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRejectStatsEntry 1 }

iscsiIntrRxRjtHdrDigests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
```

```
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRejectStatsEntry 2 }

iscsiIntrRxRjtDataDigests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRejectStatsEntry 3 }

iscsiIntrRxRjtDataSacks OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRejectStatsEntry 4 }

iscsiIntrRxRjtRestarts OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRejectStatsEntry 5 }

iscsiIntrRxRjtFullFeatures OBJECT-TYPE
    SYNTAX                        Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxRejectStatsEntry 6 }

iscsiInitiatorRxLogoutStatsTable OBJECT-TYPE
    SYNTAX                          SEQUENCE OF IscsiInitiatorRxLogoutStatsEntry
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 11 }

iscsiInitiatorRxLogoutStatsEntry OBJECT-TYPE
    SYNTAX                          IscsiInitiatorRxLogoutStatsEntry
    MAX-ACCESS                      not-accessible
```

```
    STATUS                        current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiInitiatorEntry }
::= { iscsiInitiatorRxLogoutStatsTable 1 }

IscsiInitiatorRxLogoutStatsEntry ::= SEQUENCE {
    iscsiIntrRxLgtSessionCloses    Counter32,
    iscsiIntrRxLgtCxnRecoveries    Counter32,
    iscsiIntrRxLgtTargetRequests   Counter32
}

iscsiIntrRxLgtSessionCloses OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxLogoutStatsEntry 1 }

iscsiIntrRxLgtCxnRecoveries OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxLogoutStatsEntry 2 }

iscsiIntrRxLgtTargetRequests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                    read-only
    STATUS                        current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxLogoutStatsEntry 3 }

iscsiInitiatorRxAsyncStatsTable OBJECT-TYPE
    SYNTAX                        SEQUENCE OF IscsiInitiatorRxAsyncStatsEntry
    MAX-ACCESS                    not-accessible
    STATUS                        current
    DESCRIPTION
        "A list of Sessions belonging to each iSCSI instance
        present on the system."
::= { iscsiInitiatorInfo 12 }

iscsiInitiatorRxAsyncStatsEntry OBJECT-TYPE
    SYNTAX                        IscsiInitiatorRxAsyncStatsEntry
```

```
    MAX-ACCESS                      not-accessible
    STATUS                          current
    DESCRIPTION
        "An entry (row) containing managment information applicable
        to a particular Session instance."
    AUGMENTS { iscsiInitiatorEntry }
::= { iscsiInitiatorRxAsyncStatsTable 1 }

IscsiInitiatorRxAsyncStatsEntry ::= SEQUENCE {
    iscsiIntrRxAsyTargetResets     Counter32,
    iscsiIntrRxAsyLogoutRequests   Counter32,
    iscsiIntrRxAsyCxnDrops         Counter32
}

iscsiIntrRxAsyTargetResets OBJECT-TYPE
    SYNTAX                       Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxAsyncStatsEntry 1 }

iscsiIntrRxAsyLogoutRequests OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxAsyncStatsEntry 2 }

iscsiIntrRxAsyCxnDrops OBJECT-TYPE
    SYNTAX                  Counter32
    MAX-ACCESS                      read-only
    STATUS                          current
    DESCRIPTION
    "."
::= { iscsiInitiatorRxAsyncStatsEntry 3 }

--------------------------------------------------------------------------------
iscsiGroups OBJECT IDENTIFIER ::= { iscsiConformance 1 }

iscsiGeneralInfoGroup OBJECT-GROUP
    OBJECTS {
        iscsiInstanceNumber,
        iscsiInstIndex,
        iscsiInstName,
        iscsiInstVersionMin,
        iscsiInstVersionMax,
```

```
        iscsiInstVendorID,
        iscsiInstVendorVersion,
        iscsiInstListenPortNumber,
        iscsiInstSessionNumber,
        iscsiInstTargetNumber,
        iscsiInstInitiatorNumber,
        iscsiInstTxCmdPDUs,
        iscsiInstTxRspPDUs,
        iscsiInstRxRspPDUs,
        iscsiInstRxCmdPDUs,
        iscsiInstTxDataOctets,
        iscsiInstRxDataOctets,
        iscsiInstHdrDigestErrors,
        iscsiInstDataDigestErrors,
        iscsiInstCxnTimeoutErrors,
        iscsiInstFramingErrors,
        iscsiLPIndex,
        iscsiLPIpAddress,
        iscsiLPTcpPort,
        iscsiLPCxnCreations,
        iscsiLPCxnRefusals,
        iscsiLPCxnTerminations,
        iscsiLPCxnShutdowns,
        iscsiLPHdrDigestErrors,
        iscsiLPDataDigestErrors,
        iscsiLPCxnTimeoutErrors,
        iscsiLPFramingErrors,
        iscsiLPTxStsAccepts,
        iscsiLPTxStsAutheticates,
        iscsiLPTxStsMoveTemps,
        iscsiLPTxStsMovePerms,
        iscsiLPTxStsProxies,
        iscsiLPTxStsAuthFails,
        iscsiLPTxStsForbiddens,
        iscsiLPTxStsNotFounds,
        iscsiLPTxStsRemoveds,
        iscsiLPTxStsConflicts,
        iscsiLPTxStsTargetErrors,
        iscsiLPTxStsUnavailables,
        iscsiLPTxStsBadVersions,
        iscsiLPRxStsAccepts,
        iscsiLPRxStsAutheticates,
        iscsiLPRxStsMoveTemps,
        iscsiLPRxStsMovePerms,
        iscsiLPRxStsProxies,
        iscsiLPRxStsAuthFails,
        iscsiLPRxStsForbiddens,
        iscsiLPRxStsNotFounds,
```

```
        iscsiLPRxStsRemoveds,
        iscsiLPRxStsConflicts,
        iscsiLPRxStsTargetErrors,
        iscsiLPRxStsUnavailables,
        iscsiLPRxStsBadVersions,
        iscsiSsnIndex,
        iscsiSsnType,
        iscsiSsnTargetWWUI,
        iscsiSsnInitiatorWWUI,
        iscsiSsnUseR2t,
        iscsiSsnBidirectionalUseR2t,
        iscsiSsnImmediateData,
        iscsiSsnEnableCmdRn,
        iscsiSsnInDataOrder,
        iscsiSsnBootSession,
        iscsiSsnMaxOutstandingR2t,
        iscsiSsnMaxDataPDULength,
        iscsiSsnFirstBurstSize,
        iscsiSsnInitiatorTagLength,
        iscsiSsnPingMaxReplyLength,
        iscsiSsnMaxTotalText,
        iscsiSsnKeyValueText,
        iscsiSsnConnectionNumber,
        iscsiSsnMaxConnections,
        iscsiSsnHeaderIntegrity,
        iscsiSsnOtherHdrIntegrity,
        iscsiSsnDataIntegrity,
        iscsiSsnOtherDataIntegrity,
        iscsiSsnInitiatorAuth,
        iscsiSsnOtherInitiatorAuth,
        iscsiSsnTargetAuth,
        iscsiSsnOtherTargetAuth,
        iscsiSsnInitiatorUserName,
        iscsiSsnTargetUserName,
        iscsiSsnFramingScheme,
        iscsiSsnOtherFramingScheme,
        iscsiSsnTxCmdPDUs,
        iscsiSsnTxRspPDUs,
        iscsiSsnRxRspPDUs,
        iscsiSsnRxCmdPDUs,
        iscsiSsnTxDataOctets,
        iscsiSsnRxDataOctets,
        iscsiSsnHdrDigestErrors,
        iscsiSsnDataDigestErrors,
        iscsiSsnCxnTimeoutErrors,
        iscsiSsnFramingErrors,
        iscsiSsnTxNopOutPDUs,
        iscsiSsnTxScsiCmdPDUs,
```

```
        iscsiSsnTxScsiTaskMgmtCmdPDUs,
        iscsiSsnTxLoginCmdPDUs,
        iscsiSsnTxTextCmdPDUs,
        iscsiSsnTxScsiDataWritePDUs,
        iscsiSsnTxLogoutCmdPDUs,
        iscsiSsnTxSackReqPDUs,
        iscsiSsnRxNopInPDUs,
        iscsiSsnRxScsiRspPDUs,
        iscsiSsnRxScsiTaskMgmtRspPDUs,
        iscsiSsnRxLoginRspPDUs,
        iscsiSsnRxTextRspPDUs,
        iscsiSsnRxScsiDataReadPDUs,
        iscsiSsnRxLogoutRspPDUs,
        iscsiSsnRxR2TPDUs,
        iscsiSsnRxAsyncPDUs,
        iscsiSsnRxRejectPDUs,
        iscsiSsnTxNopInPDUs,
        iscsiSsnTxScsiRspPDUs,
        iscsiSsnTxScsiTaskMgmtRspPDUs,
        iscsiSsnTxLoginRspPDUs,
        iscsiSsnTxTextRspPDUs,
        iscsiSsnTxScsiDataReadPDUs,
        iscsiSsnTxLogoutRspPDUs,
        iscsiSsnTxR2TPDUs,
        iscsiSsnTxAsyncPDUs,
        iscsiSsnTxRejectPDUs,
        iscsiSsnRxNopOutPDUs,
        iscsiSsnRxScsiCmdPDUs,
        iscsiSsnRxScsiTaskMgmtCmdPDUs,
        iscsiSsnRxLoginCmdPDUs,
        iscsiSsnRxTextCmdPDUs,
        iscsiSsnRxScsiDataWritePDUs,
        iscsiSsnRxLogoutCmdPDUs,
        iscsiSsnRxSackReqPDUs,
        iscsiSsnTxStsAccepts,
        iscsiSsnTxStsAutheticates,
        iscsiSsnTxStsMoveTemps,
        iscsiSsnTxStsMovePerms,
        iscsiSsnTxStsProxies,
        iscsiSsnTxStsAuthFails,
        iscsiSsnTxStsForbiddens,
        iscsiSsnTxStsNotFounds,
        iscsiSsnTxStsRemoveds,
        iscsiSsnTxStsConflicts,
        iscsiSsnTxStsTargetErrors,
        iscsiSsnTxStsUnavailables,
        iscsiSsnTxStsBadVersions,
        iscsiSsnTxRjtFormats,
```

```
        iscsiSsnTxRjtHdrDigests,
        iscsiSsnTxRjtDataDigests,
        iscsiSsnTxRjtDataSacks,
        iscsiSsnTxRjtRestarts,
        iscsiSsnTxRjtFullFeatures,
        iscsiSsnTxLgtSessionCloses,
        iscsiSsnTxLgtCxnRecoveries,
        iscsiSsnTxLgtTargetRequests,
        iscsiSsnTxAsyTargetResets,
        iscsiSsnTxAsyLogoutRequests,
        iscsiSsnTxAsyCxnDrops,
        iscsiSsnRxStsAccepts,
        iscsiSsnRxStsAutheticates,
        iscsiSsnRxStsMoveTemps,
        iscsiSsnRxStsMovePerms,
        iscsiSsnRxStsProxies,
        iscsiSsnRxStsAuthFails,
        iscsiSsnRxStsForbiddens,
        iscsiSsnRxStsNotFounds,
        iscsiSsnRxStsRemoveds,
        iscsiSsnRxStsConflicts,
        iscsiSsnRxStsTargetErrors,
        iscsiSsnRxStsUnavailables,
        iscsiSsnRxStsBadVersions,
        iscsiSsnRxRjtFormats,
        iscsiSsnRxRjtHdrDigests,
        iscsiSsnRxRjtDataDigests,
        iscsiSsnRxRjtDataSacks,
        iscsiSsnRxRjtRestarts,
        iscsiSsnRxRjtFullFeatures,
        iscsiSsnRxLgtSessionCloses,
        iscsiSsnRxLgtCxnRecoveries,
        iscsiSsnRxLgtTargetRequests,
        iscsiSsnRxAsyTargetResets,
        iscsiSsnRxAsyLogoutRequests,
        iscsiSsnRxAsyCxnDrops,
        iscsiCxnIndex,
        iscsiCxnState,
        iscsiCxnLocalIpAddress,
        iscsiCxnLocalTcpPort,
        iscsiCxnRemoteIpAddress,
        iscsiCxnRemoteTcpPort,
        iscsiLunIndex,
        iscsiLunTarget,
        iscsiLunTxCmdPDUs,
        iscsiLunTxRspPDUs,
        iscsiLunRxRspPDUs,
        iscsiLunRxCmdPDUs,
```

```
        iscsiLunTxDataOctets,
        iscsiLunRxDataOctets,
        iscsiLunHdrDigestErrors,
        iscsiLunDataDigestErrors,
        iscsiLunCxnTimeoutErrors,
        iscsiLunFramingErrors,
        iscsiLunTxNopOutPDUs,
        iscsiLunTxScsiCmdPDUs,
        iscsiLunTxScsiTaskMgmtCmdPDUs,
        iscsiLunTxLoginCmdPDUs,
        iscsiLunTxTextCmdPDUs,
        iscsiLunTxScsiDataWritePDUs,
        iscsiLunTxLogoutCmdPDUs,
        iscsiLunTxSackReqPDUs,
        iscsiLunRxNopInPDUs,
        iscsiLunRxScsiRspPDUs,
        iscsiLunRxScsiTaskMgmtRspPDUs,
        iscsiLunRxLoginRspPDUs,
        iscsiLunRxTextRspPDUs,
        iscsiLunRxScsiDataReadPDUs,
        iscsiLunRxLogoutRspPDUs,
        iscsiLunRxR2TPDUs,
        iscsiLunRxAsyncPDUs,
        iscsiLunRxRejectPDUs,
        iscsiLunTxNopInPDUs,
        iscsiLunTxScsiRspPDUs,
        iscsiLunTxScsiTaskMgmtRspPDUs,
        iscsiLunTxLoginRspPDUs,
        iscsiLunTxTextRspPDUs,
        iscsiLunTxScsiDataReadPDUs,
        iscsiLunTxLogoutRspPDUs,
        iscsiLunTxR2TPDUs,
        iscsiLunTxAsyncPDUs,
        iscsiLunTxRejectPDUs,
        iscsiLunRxNopOutPDUs,
        iscsiLunRxScsiCmdPDUs,
        iscsiLunRxScsiTaskMgmtCmdPDUs,
        iscsiLunRxLoginCmdPDUs,
        iscsiLunRxTextCmdPDUs,
        iscsiLunRxScsiDataWritePDUs,
        iscsiLunRxLogoutCmdPDUs,
        iscsiLunRxSackReqPDUs,
        iscsiLunTxStsAccepts,
        iscsiLunTxStsAutheticates,
        iscsiLunTxStsMoveTemps,
        iscsiLunTxStsMovePerms,
        iscsiLunTxStsProxies,
        iscsiLunTxStsAuthFails,
```

```
        iscsiLunTxStsForbiddens,
        iscsiLunTxStsNotFounds,
        iscsiLunTxStsRemoveds,
        iscsiLunTxStsConflicts,
        iscsiLunTxStsTargetErrors,
        iscsiLunTxStsUnavailables,
        iscsiLunTxStsBadVersions,
        iscsiLunRxStsAccepts,
        iscsiLunRxStsAutheticates,
        iscsiLunRxStsMoveTemps,
        iscsiLunRxStsMovePerms,
        iscsiLunRxStsProxies,
        iscsiLunRxStsAuthFails,
        iscsiLunRxStsForbiddens,
        iscsiLunRxStsNotFounds,
        iscsiLunRxStsRemoveds,
        iscsiLunRxStsConflicts,
        iscsiLunRxStsTargetErrors,
        iscsiLunRxStsUnavailables,
        iscsiLunRxStsBadVersions,
     iscsiTgtIndex,
        iscsiTgtWWUI,
        iscsiTgtAlias,
        iscsiTgtLuNumber,
        iscsiTgtScsiAttributes,
        iscsiTgtTxRspPDUs,
        iscsiTgtRxCmdPDUs,
        iscsiTgtTxDataOctets,
        iscsiTgtRxDataOctets,
        iscsiTgtHdrDigestErrors,
        iscsiTgtDataDigestErrors,
        iscsiTgtCxnTimeoutErrors,
        iscsiTgtFramingErrors,
        iscsiTgtTxNopInPDUs,
        iscsiTgtTxScsiRspPDUs,
        iscsiTgtTxScsiTaskMgmtRspPDUs,
        iscsiTgtTxLoginRspPDUs,
        iscsiTgtTxTextRspPDUs,
        iscsiTgtTxScsiDataReadPDUs,
        iscsiTgtTxLogoutRspPDUs,
        iscsiTgtTxR2TPDUs,
        iscsiTgtTxAsyncPDUs,
        iscsiTgtTxRejectPDUs,
        iscsiTgtRxNopInPDUs,
        iscsiTgtRxScsiRspPDUs,
        iscsiTgtRxScsiTaskMgmtRspPDUs,
        iscsiTgtRxLoginRspPDUs,
        iscsiTgtRxTextRspPDUs,
```

```
        iscsiTgtRxScsiDataReadPDUs,
        iscsiTgtRxLogoutRspPDUs,
        iscsiTgtRxR2TPDUs,
        iscsiTgtRxAsyncPDUs,
        iscsiTgtRxRejectPDUs,
        iscsiTgtTxStsAccepts,
        iscsiTgtTxStsAutheticates,
        iscsiTgtTxStsMoveTemps,
        iscsiTgtTxStsMovePerms,
        iscsiTgtTxStsProxies,
        iscsiTgtTxStsAuthFails,
        iscsiTgtTxStsForbiddens,
        iscsiTgtTxStsNotFounds,
        iscsiTgtTxStsRemoveds,
        iscsiTgtTxStsConflicts,
        iscsiTgtTxStsTargetErrors,
        iscsiTgtTxStsUnavailables,
        iscsiTgtTxStsBadVersions,
        iscsiTgtTxRjtFormats,
        iscsiTgtTxRjtHdrDigests,
        iscsiTgtTxRjtDataDigests,
        iscsiTgtTxRjtDataSacks,
        iscsiTgtTxRjtRestarts,
        iscsiTgtTxRjtFullFeatures,
        iscsiTgtTxLgtSessionCloses,
        iscsiTgtTxLgtCxnRecoveries,
        iscsiTgtTxLgtTargetRequests,
        iscsiTgtTxAsyTargetResets,
        iscsiTgtTxAsyLogoutRequests,
        iscsiTgtTxAsyCxnDrops,
        iscsiLuIndex,
        iscsiLuScsiAttributes,
        iscsiLuWWN,
        iscsiLuInquiryString,
        iscsiLuSerialNumber,
        iscsiLuDeviceId,
        iscsiLuTxRspPDUs,
        iscsiLuRxCmdPDUs,
        iscsiLuTxDataOctets,
        iscsiLuRxDataOctets,
        iscsiLuHdrDigestErrors,
        iscsiLuDataDigestErrors,
        iscsiLuCxnTimeoutErrors,
        iscsiLuFramingErrors,
        iscsiLuTxNopInPDUs,
        iscsiLuTxScsiRspPDUs,
        iscsiLuTxScsiTaskMgmtRspPDUs,
        iscsiLuTxLoginRspPDUs,
```

```
        iscsiLuTxTextRspPDUs,
        iscsiLuTxScsiDataReadPDUs,
        iscsiLuTxLogoutRspPDUs,
        iscsiLuTxR2TPDUs,
        iscsiLuTxAsyncPDUs,
        iscsiLuTxRejectPDUs,
        iscsiLuRxNopInPDUs,
        iscsiLuRxScsiRspPDUs,
        iscsiLuRxScsiTaskMgmtRspPDUs,
        iscsiLuRxLoginRspPDUs,
        iscsiLuRxTextRspPDUs,
        iscsiLuRxScsiDataReadPDUs,
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        iscsiLuRxR2TPDUs,
        iscsiLuRxAsyncPDUs,
        iscsiLuRxRejectPDUs,
        iscsiLuTxStsAccepts,
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        iscsiLuTxStsMoveTemps,
        iscsiLuTxStsMovePerms,
        iscsiLuTxStsProxies,
        iscsiLuTxStsAuthFails,
        iscsiLuTxStsForbiddens,
        iscsiLuTxStsNotFounds,
        iscsiLuTxStsRemoveds,
        iscsiLuTxStsConflicts,
        iscsiLuTxStsLuErrors,
        iscsiLuTxStsUnavailables,
        iscsiLuTxStsBadVersions,
        iscsiLuTxRjtFormats,
        iscsiLuTxRjtHdrDigests,
        iscsiLuTxRjtDataDigests,
        iscsiLuTxRjtDataSacks,
        iscsiLuTxRjtRestarts,
        iscsiLuTxRjtFullFeatures,
        iscsiLuTxLgtSessionCloses,
        iscsiLuTxLgtCxnRecoveries,
        iscsiLuTxLgtTargetRequests,
        iscsiLuTxAsyTargetResets,
        iscsiLuTxAsyLogoutRequests,
        iscsiLuTxAsyCxnDrops,
        iscsiALIndex,
        iscsiALInitiatorWWUI,
        iscsiIntrIndex,
        iscsiIntrWWUI,
        iscsiIntrAlias,
        iscsiIntrTxCmdPDUs,
        iscsiIntrTxRspPDUs,
```

```
        iscsiIntrRxRspPDUs,
        iscsiIntrRxCmdPDUs,
        iscsiIntrTxDataOctets,
        iscsiIntrRxDataOctets,
        iscsiIntrHdrDigestErrors,
        iscsiIntrDataDigestErrors,
        iscsiIntrCxnTimeoutErrors,
        iscsiIntrFramingErrors,
        iscsiIntrTxNopOutPDUs,
        iscsiIntrTxScsiCmdPDUs,
        iscsiIntrTxScsiTaskMgmtCmdPDUs,
        iscsiIntrTxLoginCmdPDUs,
        iscsiIntrTxTextCmdPDUs,
        iscsiIntrTxScsiDataWritePDUs,
        iscsiIntrTxLogoutCmdPDUs,
        iscsiIntrTxSackReqPDUs,
        iscsiIntrRxNopOutPDUs,
        iscsiIntrRxScsiCmdPDUs,
        iscsiIntrRxScsiTaskMgmtCmdPDUs,
        iscsiIntrRxLoginCmdPDUs,
        iscsiIntrRxTextCmdPDUs,
        iscsiIntrRxScsiDataWritePDUs,
        iscsiIntrRxLogoutCmdPDUs,
        iscsiIntrRxSackReqPDUs,
        iscsiIntrRxStsAccepts,
        iscsiIntrRxStsAutheticates,
        iscsiIntrRxStsMoveTemps,
        iscsiIntrRxStsMovePerms,
        iscsiIntrRxStsProxies,
        iscsiIntrRxStsAuthFails,
        iscsiIntrRxStsForbiddens,
        iscsiIntrRxStsNotFounds,
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        iscsiIntrRxStsConflicts,
        iscsiIntrRxStsTargetErrors,
        iscsiIntrRxStsUnavailables,
        iscsiIntrRxStsBadVersions,
        iscsiIntrRxRjtFormats,
        iscsiIntrRxRjtHdrDigests,
        iscsiIntrRxRjtDataDigests,
        iscsiIntrRxRjtDataSacks,
        iscsiIntrRxRjtRestarts,
        iscsiIntrRxRjtFullFeatures,
        iscsiIntrRxLgtSessionCloses,
        iscsiIntrRxLgtCxnRecoveries,
        iscsiIntrRxLgtTargetRequests,
        iscsiIntrRxAsyTargetResets,
        iscsiIntrRxAsyLogoutRequests,
```

```
        iscsiIntrRxAsyCxnDrops
    }
    STATUS current
    DESCRIPTION
        "."
::= { iscsiGroups 1 }

iscsiCompliances OBJECT IDENTIFIER ::= { iscsiConformance 2 }

iscsiCompliance MODULE-COMPLIANCE
STATUS                current
DESCRIPTION
    "."
MODULE                -- this module
MANDATORY-GROUPS      { iscsiGeneralInfoGroup }
::= { iscsiCompliances 1 }

END
```

7. Security Considerations

This MIB currently contains no read-write, read-create, or RowStatus variables, and cannot be directly used to affect the configuration or operation of an iSCSI entity.

Information gleaned from this MIB could be used to make connections to the iSCSI targets it represents. However, it is the responsbility of the initiators and targets involved to authenticate each other to ensure that an inappropriately advertised or discovered initiator or target does not compromise their security. These issues are discussed in [ISCSI].

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