

TN3270E Working Group

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Definitions of Managed Objects for
TN3270 Using SMIV2

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Abstract

The purpose of this memo is to define the Management Information Base (MIB) for configuring and monitoring TN3270 and TN3270E sessions. The monitoring portion of the MIB is limited to AUGMENTation of the TCP Connection Table ([RFC 2012](#)) with a set of objects collected from the TCP Layer. It is the intent of this MIB to fully adhere to all prerequisite MIBs unless explicitly stated. Deviations will be documented in corresponding conformance statements. The specification of this MIB will utilize the Structure of Management Information (SMI) for Version 2 of the Simple Network Management Protocol Version (refer to [RFC1902](#), reference [1]).

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[1.](#) Introduction

This document is a product of the TN3270E Working Group. Its purpose is to define a MIB module for extending the traditional MIBs supported by a TCP/IP implementation for configuring and monitoring of TN3270 and TN3270E sessions.

[2.](#) The SNMPv2 Network Management Framework

The SNMP Network Management Framework presently consists of three major components. They are:

- o the SMI, described in [RFC 1902](#) [[1](#)], - the mechanisms used for describing and naming objects for the purpose of management.
- o the MIB-II, STD 17, [RFC 1213](#) [[5](#)], - the core set of managed objects for the Internet suite of protocols.
- o the protocol, [RFC 1157](#) [[9](#)] and/or [RFC 1905](#) [[7](#)] - the protocol for accessing managed information.

Textual conventions are defined in [RFC 1903](#) [[6](#)], and conformance statements are defined in [RFC 1904](#) [[8](#)].

The Framework permits new objects to be defined for the purpose of experimentation and evaluation.

This memo specifies a MIB module that is compliant to the SNMPv2 SMI. A semantically identical MIB conforming to the SNMPv1 SMI can be produced through the appropriate translation.

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[2.1.](#) Object Definitions

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using the subset of Abstract Syntax Notation One (ASN.1) defined in the SMI. In particular, each object object type is named by an OBJECT IDENTIFIER, an administratively assigned name. The object type together with an object instance serves to uniquely identify a specific instantiation of the object. For human convenience, we often use a textual string, termed the descriptor, to refer to the object type.

[3.](#) Structure of the MIB

The TN3270-MIB is split into the following components:

- o Base TN3270 MIB Definitions
- o MIB Definitions for AUGMENTing the TCP Connection Table

[3.1.](#) Base TN3270 MIB Definitions

The collection of MIB Objects defined by the tn3270BasicGroup. This group of objects provides for TN3270 and TN3270E configuration.

[3.2.](#) MIB Definitions for AUGMENTing the TCP Connection Table

The TCP Connection Table is defined by [RFC 2012](#) (Refer to reference

10, TCP-MIB Definitions). Traditionally, the contents of the TCP Connection Table has been implementation dependent. Its formal definition consists of the following objects:

- o tcpConnState (INTEGER)
- o tcpConnLocalAddress (IpAddress)
- o tcpConnLocalPort (INTEGER)
- o tcpConnRemAddress (IpAddress)
- o tcpConnRemPort (INTEGER)

and is indexed by: tcpConnLocalAddress, tcpConnLocalPort, tcpConnRemAddress and tcpConnRemPort. The tn3270TcpConnTableGroup contains the objects defined by the tn3270TcpConnTable for AUGMENTing the tcpConnTable. The objects contained within the tn3270TcpConnTableGroup can be set by either a TN3270 or TN3270E Server or if TCP specific by the TCP Stack.

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4. Definitions

```
TN3270-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
    MODULE-IDENTITY, OBJECT-TYPE,  
    experimental, Integer32, IpAddress, TimeTicks  
        FROM SNMPv2-SMI  
    TEXTUAL-CONVENTION, RowStatus, TruthValue,  
    DisplayString  
        FROM SNMPv2-TC  
    MODULE-COMPLIANCE, OBJECT-GROUP  
        FROM SNMPv2-CONF  
    InterfaceIndex, InterfaceIndexOrZero  
        FROM IF-MIB  
    tcpConnEntry  
        FROM TCP-MIB  
    ;
```

```
tn3270MIB MODULE-IDENTITY
```

```
    LAST-UPDATED "9705300000Z" -- May 30, 1997  
    ORGANIZATION "TN3270E Working Group"  
    CONTACT-INFO
```

```

        "Kenneth White (kennethw@vnet.ibm.com)
        IBM Corp."
DESCRIPTION
    "This module defines a portion of the management
    information base (MIB) for configuring and monitoring
    TN3270 and TN3270E sessions."
-- Need an experimental OID from IANA
 ::= { experimental 2001 }

-- Textual Conventions

VariableName ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION
        "A up to 8 octet string name, were a percent sign, '%',
        can be used to represent one arbitrary character or an
        asterisk, '*', to represent an arbitrary string of
        characters. If an asterisk is specified it must appear
        as the last character in the octet string."
    SYNTAX      DisplayString (SIZE(1..8))

-- Top-level structure of the MIB

tn3270objects          OBJECT IDENTIFIER ::= { tn3270MIB 1 }

```

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```

tn3270Notifications  OBJECT IDENTIFIER ::= { tn3270MIB 2 }
tn3270Conformance    OBJECT IDENTIFIER ::= { tn3270MIB 3 }

```

-- MIB Objects

```

tn3270Control        OBJECT IDENTIFIER ::= { tn3270objects 1 }

```

```

tn3270Port          OBJECT-TYPE
    SYNTAX          Integer32 (1..65535)
    MAX-ACCESS      read-write
    STATUS          current
    DESCRIPTION
        "Indicates the port for use by the TN3270/TN3270E Server.
        Port 23 is the well known Telnet port and if the default."

```

```
DEFVAL { 23 }
 ::= { tn3270Control 1 }
```

tn3270InactivityTimer OBJECT-TYPE

```
SYNTAX      Integer32 (0..99999999)
```

```
MAX-ACCESS  read-write
```

```
STATUS      current
```

DESCRIPTION

"The inactivity time-out specified in seconds. When a connection has been inactive for the number of seconds specified by this object it is closed. The default of 0 means no inactivity time-out."

```
DEFVAL { 0 }
```

```
 ::= { tn3270Control 2 }
```

tn3270Timemark OBJECT-TYPE

```
SYNTAX      Integer32
```

```
MAX-ACCESS  read-write
```

```
STATUS      current
```

DESCRIPTION

"The TIMEMARK processing time-out specified in seconds. A value of 0 disables this function."

```
DEFVAL { 600 } -- 10 minutes
```

```
 ::= { tn3270Control 3 }
```

tn3270ScanInterval OBJECT-TYPE

```
SYNTAX      Integer32
```

```
MAX-ACCESS  read-write
```

```
STATUS      current
```

DESCRIPTION

"The scan interval to be used by the Telnet Server. TIMEMARK processing scans the Telnet sessions every tn3270ScanInterval period (specified in seconds) for sessions that have been idle for more than the value

if tn3270Timemark. Sessions that are idle more than the value of tn3270Timemark are checked by sending a Telnet IAC Timemark command.

A value of 0 implies that TIMEMARK processing is

```

        not in effect."
DEFVAL { 120 }    -- 2 minutes
::= { tn3270Control 4 }

tn3270BinaryLineMode OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "A value of true(1) for this object allows incoming
    Telnet line-mode sessions to operate in binary mode."
DEFVAL { false }
::= { tn3270Control 5 }

tn3270DisableSga OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "A value of true(1) for this object suppresses the
    transmission of GO AHEADs by Telnet. This must be
    negotiated by both client and server. Selection of this
    option reduces the overhead for a full duplex terminal
    and a full duplex connection."
DEFVAL { false }
::= { tn3270Control 6 }

tn3270AdminStatus OBJECT-TYPE
SYNTAX  INTEGER {
                up(1),
                down(2)
            }
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "The desired state of the Telnet Server."
::= { tn3270Control 7 }

tn3270OperStatus OBJECT-TYPE
SYNTAX  INTEGER {
                up(1),
                down(2)
            }

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current operational state of the Telnet Server."
 ::= { tn3270Control 8 }

tn3270DefaultApplName OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..8))
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The default Application to use. Typically this is an
initial application which is either a network solicitor or
front-end menu system.

A null length octet string implies no default is in effect."
DEFVAL { 'H' }
 ::= { tn3270Control 9 }

tn3270DefaultApplIpAddress OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The default Application's IP Address. A value of 0 implies
no IP Address has been set."
DEFVAL { 0 }
 ::= { tn3270Control 10 }

tn3270DefaultApplIpGroupName OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..8))
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The IP Group name to be used with the default Application.
A null octet string implies that IP Group name has not
been specified."
DEFVAL { 'H' }
 ::= { tn3270Control 11 }

tn3270DefaultApplIfIndex OBJECT-TYPE
SYNTAX InterfaceIndexOrZero
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The ifEntry to be used by the default Application.
A value of 0 implies that this object has not been set."

DEFVAL { 0 }

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::= { tn3270Control 12 }

tn3270TelnetAppl OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..8))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The application to which to connect when a Telnet Client establishes a 3270 connection."

DEFVAL { 'H' }

::= { tn3270Control 13 }

tn3270LmApplName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..8))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The Application to use when a Telnet Client establishes a line-mode connection.

A null length octet string implies not set."

DEFVAL { 'H' }

::= { tn3270Control 14 }

tn3270LmApplIpAddress OBJECT-TYPE

SYNTAX IPAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The line-mode Application's IP Address. A value of 0 implies no IP Address has been set."

DEFVAL { 0 }

::= { tn3270Control 15 }

tn3270LmApplIpGroupName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..8))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The IP Group name to be used with the line-mode Application.
A null octet string implies that IP Group name has not
been specified."

DEFVAL { ''H }

::= { tn3270Control 16 }

tn3270LmApplIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-write

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STATUS current

DESCRIPTION

"The ifEntry to be used by the line-mode Application.
A value of 0 implies that this object has not been set."

DEFVAL { 0 }

::= { tn3270Control 17 }

tn3270UsstcpTableName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..8))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The name of USS definition table for message 10. This
applies to 3270 devices only. It allows the mapping of
a customized USS message 1- screen to either a remote IP
address or a network interface using transparent-mode
operation to use as a Telnet logon screen.

A null length octet string implies not set."

DEFVAL { ''H }

::= { tn3270Control 18 }

tn3270UsstcpIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The USSTCP function's IP Address. A value of 0 implies
no IP Address has been set."


```
                termination of their Telnet connection.
queueSession(3) => "???"
DEFVAL { terminate }
::= { tn3270Control 22 }
```

tn3270Msg07Enabled OBJECT-TYPE

```
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "The value of this object determines what happens when a
    Telnet connection is trying to establish the connection
    but goes down due to an error. Setting this object to
    true(1) causes a USSMSG 7 (or other error type USSMSG) to
    be displayed. The default is, false(2), to break the connection
    without any indication of what the error was."
DEFVAL { false }
::= { tn3270Control 23 }
```

tn3270OldSolicitorEnabled OBJECT-TYPE

```
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "The value of this object determines where the cursor is placed
    on the Telnet solicitor screen. Setting this object to true(1)
    causes the cursor to be placed on the userid entry of the
    solicitor screen for the first display only. The default
```

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```
(false(2) is to put the cursor on the application entry of the
solicitor screen."
DEFVAL { false }
::= { tn3270Control 24 }
```

-- The ALLOWAPPL Table definitions

tn3270AllowApplTable OBJECT-TYPE

```
SYNTAX SEQUENCE OF Tn3270AllowApplEntry
MAX-ACCESS not-accessible
```

STATUS current
DESCRIPTION
"The Applications that the Telnet Server can access."
 ::= { tn3270Objects 2 }

tn3270AllowApplEntry OBJECT-TYPE
SYNTAX Tn3270AllowApplEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Information about a single Application that the Telnet
Server can access.

An Application can be qualified with a list of LUs by
adding entries to the tn3270AllowApplLuTable. The
tn3270AllowApplLuTable is indexed by tn3270AllowApplName
and tn3270AllowApplLuName."
INDEX { tn3270AllowApplName }
 ::= { tn3270AllowApplTable 1 }

Tn3270AllowApplEntry ::= SEQUENCE {
tn3270AllowApplName VariableName,
tn3270AllowApplDisconnect TruthValue,
tn3270AllowApplRowStatus RowStatus }

tn3270AllowApplName OBJECT-TYPE
SYNTAX VariableName
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The name of the application that can be accessed."
 ::= { tn3270AllowApplEntry 1 }

tn3270AllowApplDisconnect OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-create
STATUS current

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DESCRIPTION
"When set to true this allows the application to be

notified to disconnect rather than log off a user when the session is dropped."
DEFVAL { false }
::= { tn3270AllowApplEntry 2 }

tn3270AllowApplRowStatus OBJECT-TYPE

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"This object allows entries to be created and deleted in the tn3270AllowApplTable.

When an entry in the tn3270AllowApplTable is deleted (by setting this object to destroy(6)), this has the side-effect of removing all entries from the tn3270AllowApplLuTable that are associated with the entry being deleted."

REFERENCE

"[RFC 1903](#), 'Textual Conventions for version 2 of the Simple Network Management Protocol (SNMPv2).'"

::= { tn3270AllowApplEntry 3 }

tn3270AllowApplLuTable OBJECT-TYPE

SYNTAX SEQUENCE OF Tn3270AllowApplLuEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"The LUs associated with a tn3270AllowApplEntry. Use of this table is optional. The preferred method of associating LUs to Applications is via the tn3270LuMapTable."

::= { tn3270Objects 3 }

tn3270AllowApplLuEntry OBJECT-TYPE

SYNTAX Tn3270AllowApplLuEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"Definition of a single LU associated with a tn3270AllowApplEntry."

INDEX { tn3270AllowApplName, tn3270AllowApplLuName }

::= { tn3270AllowApplLuTable 1 }

Tn3270AllowApplLuEntry ::= SEQUENCE {
tn3270AllowApplLuName DisplayString,

tn3270AllowApplLuRowStatus RowStatus }

tn3270AllowApplLuName OBJECT-TYPE

SYNTAX DisplayString (SIZE(1..8))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The name of a LU associated with an Application."

::= { tn3270AllowApplLuEntry 1 }

tn3270AllowApplLuRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object allows entries to be created and deleted in the tn3270AllowApplLuTable.

When an entry in the tn3270AllowApplTable is deleted (by setting this object to destroy(6)) it has no effect on the associating tn3270AllowApplEntry."

REFERENCE

"[RFC 1903](#), 'Textual Conventions for version 2 of the Simple Network Management Protocol (SNMPv2).'"

::= { tn3270AllowApplLuEntry 2 }

-- The RESTRICTAPPL Table definitions

tn3270RestrictApplTable OBJECT-TYPE

SYNTAX SEQUENCE OF Tn3270RestrictApplEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Applications that the Telnet Server provides restricted access."

::= { tn3270Objects 4 }

tn3270RestrictApplEntry OBJECT-TYPE

SYNTAX Tn3270RestrictApplEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Definition of a single restricted Application that the Telnet Server can access."

An Application is qualified with a list of users that are allowed access to the application via the tn3270RestrictApplUserTable."

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```
INDEX      { tn3270RestrictApplName }
 ::= { tn3270RestrictApplTable 1 }
```

```
Tn3270RestrictApplEntry ::= SEQUENCE {
    tn3270RestrictApplName      VariableName,
    tn3270RestrictApplDisconnect TruthValue,
    tn3270RestrictApplRowStatus RowStatus }
```

```
tn3270RestrictApplName OBJECT-TYPE
    SYNTAX      VariableName
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The name of the application that can be accessed."
    ::= { tn3270RestrictApplEntry 1 }
```

```
tn3270RestrictApplDisconnect OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "When set to true this allows the application to be
        notified to disconnect rather than log off a user when
        the session is dropped."
    DEFVAL { false }
    ::= { tn3270RestrictApplEntry 2 }
```

```
tn3270RestrictApplRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object allows entries to be created and deleted in the
        tn3270RestrictApplTable.
```


When an entry in the tn3270RestrictApplTable is deleted deleted (by setting this object to destroy(6)), this has the side-effect of removing all entries from the tn3270RestrictApplUserTable that are associated with the entry being deleted."

REFERENCE

"[RFC 1903](#), 'Textual Conventions for version 2 of the Simple Network Management Protocol (SNMPv2).'

::= { tn3270RestrictApplEntry 3 }

tn3270RestrictApplUserTable OBJECT-TYPE

SYNTAX SEQUENCE OF Tn3270RestrictApplUserEntry

MAX-ACCESS not-accessible

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STATUS current

DESCRIPTION

"The Users associated with a tn3270RestrictApplEntry."

::= { tn3270Objects 5 }

tn3270RestrictApplUserEntry OBJECT-TYPE

SYNTAX Tn3270RestrictApplUserEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Definition of a single User associated with a tn3270RestrictApplEntry."

INDEX { tn3270RestrictApplName, tn3270RestrictApplUserName }

::= { tn3270RestrictApplUserTable 1 }

Tn3270RestrictApplUserEntry ::= SEQUENCE {

tn3270RestrictApplUserName DisplayString,

tn3270RestrictApplUserRowStatus RowStatus }

tn3270RestrictApplUserName OBJECT-TYPE

SYNTAX DisplayString (SIZE(1..8))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The name of a User allowed access with the corresponding Application."

```
::= { tn3270RestrictApplUserEntry 1 }
```

```
tn3270RestrictApplUserRowStatus OBJECT-TYPE
```

```
SYNTAX      RowStatus
```

```
MAX-ACCESS  read-create
```

```
STATUS      current
```

```
DESCRIPTION
```

```
"This object allows entries to be created and deleted in the  
tn3270RestrictApplUserTable.
```

```
When an entry in the tn3270RestrictApplTable is deleted  
deleted (by setting this object to destroy(6)) it has no  
effect on the associating tn3270RestrictApplEntry.  
However, corresponding tn3270RestrictApplULuTable entries  
are deleted."
```

```
REFERENCE
```

```
"RFC 1903, 'Textual Conventions for version 2 of the Simple  
Network Management Protocol (SNMPv2).'"
```

```
::= { tn3270RestrictApplUserEntry 2 }
```

```
tn3270RestrictApplULuTable OBJECT-TYPE
```

```
SYNTAX      SEQUENCE OF Tn3270RestrictApplULuEntry
```

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```
MAX-ACCESS  not-accessible
```

```
STATUS      current
```

```
DESCRIPTION
```

```
"The LUs associated with a Restricted Application User.  
Use of this table is optional. The preferred method of  
associating LUs with Applications is via the  
tn3270LuMapTable."
```

```
::= { tn3270objects 6 }
```

```
tn3270RestrictApplULuEntry OBJECT-TYPE
```

```
SYNTAX      Tn3270RestrictApplULuEntry
```

```
MAX-ACCESS  not-accessible
```

```
STATUS      current
```

```
DESCRIPTION
```

```
"Definition of a single LU associated with a  
tn3270RestrictApplLuEntry."
```

```
INDEX      { tn3270RestrictApplName, tn3270RestrictApplUserName,
```

```

        tn3270RestrictApplULuName }
 ::= { tn3270RestrictApplULuTable 1 }

Tn3270RestrictApplULuEntry ::= SEQUENCE {
    tn3270RestrictApplULuName          DisplayString,
    tn3270RestrictApplULuRowStatus    RowStatus }

tn3270RestrictApplULuName OBJECT-TYPE
    SYNTAX          DisplayString (SIZE(1..8))
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        "The name of an LU."
 ::= { tn3270RestrictApplULuEntry 1 }

tn3270RestrictApplULuRowStatus OBJECT-TYPE
    SYNTAX          RowStatus
    MAX-ACCESS      read-create
    STATUS          current
    DESCRIPTION
        "This object allows entries to be created and deleted in the
        tn3270RestrictApplULuTable.

        When an entry in the tn3270RestrictApplULuTable is deleted
        deleted (by setting this object to destroy(6)) it has no
        effect on the associating tn3270RestrictApplUserEntry."
    REFERENCE
        "RFC 1903, 'Textual Conventions for version 2 of the Simple
        Network Management Protocol (SNMPv2).'"
 ::= { tn3270RestrictApplULuEntry 2 }

```

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```

tn3270IpGroupTable OBJECT-TYPE
    SYNTAX          SEQUENCE OF Tn3270IpGroupEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION
        "This table defines IP Address grouping for use by the
        Telnet Server."
 ::= { tn3270Objects 7 }

```

```

tn3270IpGroupEntry OBJECT-TYPE
    SYNTAX      Tn3270IpGroupEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Definition of a single IP Address entry. All entries with
        the same 1st index, tn3270IpGroupName are considered to
        be in the same IP Group."
    INDEX       { tn3270IpGroupName, tn3270IpGroupIpAddress }
    ::= { tn3270IpGroupTable 1 }

```

```

Tn3270IpGroupEntry ::= SEQUENCE {
    tn3270IpGroupName      DisplayString,
    tn3270IpGroupIpAddress IpAddress,
    tn3270IpGroupSubnetMask IpAddress,
    tn3270IpGroupIpSubnet  IpAddress,
    tn3270IpGroupRowStatus RowStatus }

```

```

tn3270IpGroupName OBJECT-TYPE
    SYNTAX      DisplayString (SIZE(1..8))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The name of a IP Group."
    ::= { tn3270IpGroupEntry 1 }

```

```

tn3270IpGroupIpAddress OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The IP Address of a member of a IP Group."
    ::= { tn3270IpGroupEntry 2 }

```

```

tn3270IpGroupSubnetMask OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION

```

```
    "The corresponding subnet mask associated with
    tn3270IpGroupIpSubnet."
 ::= { tn3270IpGroupEntry 3 }
```

tn3270IpGroupIpSubnet OBJECT-TYPE

```
SYNTAX      IPAddress
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
    "The IP Subnet to be used with the objects
    tn3270IpGroupIpAddress and tn3270IpGroupSubnetMask."
 ::= { tn3270IpGroupEntry 4 }
```

tn3270IpGroupRowStatus OBJECT-TYPE

```
SYNTAX      RowStatus
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
    "This object allows entries to be created and deleted in the
    tn3270IpGroupTable.

    An entry in this table is deleted by setting this object
    to destroy(6)."
```

REFERENCE

```
    "RFC 1903, 'Textual Conventions for version 2 of the Simple
    Network Management Protocol (SNMPv2).'"
 ::= { tn3270IpGroupEntry 5 }
```

tn3270LuGroupTable OBJECT-TYPE

```
SYNTAX      SEQUENCE OF Tn3270LuGroupEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table defines LU groups for use by the
    Telnet Server."
 ::= { tn3270Objects 8 }
```

tn3270LuGroupEntry OBJECT-TYPE

```
SYNTAX      Tn3270LuGroupEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "Definition of a single LU Group member. All entries with
    the same 1st index, tn3270LuGroupName are considered to
    be in the same LU Group.

    The first entry in this table is used for defining the
    default LU Group. By convention tn3270LuGroupName should
```

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be set to 8 blanks to represent this entry."
 INDEX { tn3270LuGroupName, tn3270LuGroupLuName }
 ::= { tn3270LuGroupTable 1 }

Tn3270LuGroupEntry ::= SEQUENCE {
 tn3270LuGroupName DisplayString,
 tn3270LuGroupLuName DisplayString,
 tn3270LuGroupRowStatus RowStatus }

tn3270LuGroupName OBJECT-TYPE
 SYNTAX DisplayString (SIZE(1..8))
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The name of a LU Group."
 ::= { tn3270LuGroupEntry 1 }

tn3270LuGroupLuName OBJECT-TYPE
 SYNTAX DisplayString (SIZE(1..8))
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The LU Name of a member of a Lu Group."
 ::= { tn3270LuGroupEntry 2 }

tn3270LuGroupRowStatus OBJECT-TYPE
 SYNTAX RowStatus
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object allows entries to be created and deleted in the
 tn3270LuGroupTable.
 An entry in this table is deleted by setting this object
 to destroy(6)."
 REFERENCE
 "[RFC 1903](#), 'Textual Conventions for version 2 of the Simple
 Network Management Protocol (SNMPv2).'
 ::= { tn3270LuGroupEntry 3 }

tn3270PrtGroupTable OBJECT-TYPE

SYNTAX SEQUENCE OF Tn3270PrtGroupEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table defines Printer groups for use by the
Telnet Server."
 ::= { tn3270Objects 9 }

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tn3270PrtGroupEntry OBJECT-TYPE
SYNTAX Tn3270PrtGroupEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Definition of a single Printer Group member. All entries with
the same 1st index, tn3270PrtGroupName are considered to
be in the same Printer Group."
INDEX { tn3270PrtGroupName, tn3270PrtGroupPrtName }
 ::= { tn3270PrtGroupTable 1 }

Tn3270PrtGroupEntry ::= SEQUENCE {
tn3270PrtGroupName DisplayString,
tn3270PrtGroupPrtName DisplayString,
tn3270PrtGroupRowStatus RowStatus }

tn3270PrtGroupName OBJECT-TYPE
SYNTAX DisplayString (SIZE(1..8))
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The name of a Printer Group."
 ::= { tn3270PrtGroupEntry 1 }

tn3270PrtGroupPrtName OBJECT-TYPE
SYNTAX DisplayString (SIZE(1..8))
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The Printer Name of a member of a Printer Group."
 ::= { tn3270PrtGroupEntry 2 }

tn3270PrtGroupRowStatus OBJECT-TYPE

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"This object allows entries to be created and deleted in the tn3270PrtGroupTable.

An entry in this table is deleted by setting this object to destroy(6)."

REFERENCE

"[RFC 1903](#), 'Textual Conventions for version 2 of the Simple Network Management Protocol (SNMPv2).'"

::= { tn3270PrtGroupEntry 3 }

tn3270LuMapTable OBJECT-TYPE

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SYNTAX SEQUENCE OF Tn3270LuMapEntry
MAX-ACCESS not-accessible
STATUS current

DESCRIPTION

"This table defines LU to IP mappings. An IP Address or IP Address group can only be assigned to a LU or LU Group once."

::= { tn3270Objects 10 }

tn3270LuMapEntry OBJECT-TYPE

SYNTAX Tn3270LuMapEntry
MAX-ACCESS not-accessible
STATUS current

DESCRIPTION

"Definition of the mapping of a single IP Address or IP Address Group to either a LU or LU Group."

INDEX { tn3270LuMapLuName }

::= { tn3270LuMapTable 1 }

Tn3270LuMapEntry ::= SEQUENCE {
tn3270LuMapLuName DisplayString,
tn3270LuMapIpAddr IpAddress,
tn3270LuMapIpGroupName DisplayString,

tn3270LuMapRowStatus RowStatus }

tn3270LuMapLuName OBJECT-TYPE

SYNTAX DisplayString (SIZE(1..8))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The name of either a LU or LU Group Name."

::= { tn3270LuMapEntry 1 }

tn3270LuMapIpAddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The IP address to map to a LU. If this object is non-zero then tn3270LuMapLuName MUST be a single LU Name and tn3270LuMapIpGroupName MUST be a null octet string."

DEFVAL { 0 }

::= { tn3270LuMapEntry 2 }

tn3270LuMapIpGroupName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..8))

MAX-ACCESS read-create

STATUS current

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DESCRIPTION

"The IP addresses to map to a LU Group. If this object is not a null octet string then tn3270LuMapLuName MUST be a LU Group name and tn3270LuMapIpAddr MUST be zero."

DEFVAL { 'H' }

::= { tn3270LuMapEntry 3 }

tn3270LuMapRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object allows entries to be created and deleted in the tn3270LuMapTable."

An entry in this table is deleted by setting this object to destroy(6)."

REFERENCE

"[RFC 1903](#), 'Textual Conventions for version 2 of the Simple Network Management Protocol (SNMPv2).'"

::= { tn3270LuMapEntry 4 }

tn3270PrtMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF Tn3270PrtMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table defines Printer to IP mappings. An IP Address or IP Address group can only be assigned to a single Printer or Printer Group once."

::= { tn3270Objects 11 }

tn3270PrtMapEntry OBJECT-TYPE

SYNTAX Tn3270PrtMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Definition of the mapping of a single IP Address or IP Address Group to either a Printer or Printer Group."

INDEX { tn3270PrtMapPrtName }

::= { tn3270PrtMapTable 1 }

Tn3270PrtMapEntry ::= SEQUENCE {

tn3270PrtMapPrtName DisplayString,

tn3270PrtMapIpAddr IpAddress,

tn3270PrtMapIpGroupName DisplayString,

tn3270PrtMapRowStatus RowStatus }

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tn3270PrtMapPrtName OBJECT-TYPE

SYNTAX DisplayString (SIZE(1..8))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

```

    "The name of either a Printer or Printer Group Name."
 ::= { tn3270PrtMapEntry 1 }

tn3270PrtMapIpAddress OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The IP address to map to a Printer. If this object is non-
zero
        then tn3270PrtMapPrtName MUST be a single Printer and
        tn3270PrtMapIpAddressGroupName MUST be a null octet string."
    DEFVAL { 0 }
 ::= { tn3270PrtMapEntry 2 }

tn3270PrtMapIpAddressGroupName OBJECT-TYPE
    SYNTAX      DisplayString (SIZE(0..8))
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The IP addresses to map to a Printer Group. If this object is
not a null octet string then tn3270PrtMapPrtName MUST be a
Printer Group name and tn3270PrtMapIpAddress MUST be zero."
    DEFVAL { 'H' }
 ::= { tn3270PrtMapEntry 3 }

tn3270PrtMapRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object allows entries to be created and deleted in the
tn3270PrtMapTable.

        An entry in this table is deleted by setting this object
to destroy(6)."
```

REFERENCE

```

    "RFC 1903, 'Textual Conventions for version 2 of the Simple
Network Management Protocol (SNMPv2).'"
 ::= { tn3270PrtMapEntry 4 }

tn3270LogmodeTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF Tn3270LogmodeEntry
```

```
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table defines the logmode to be used for a particular
    interface entry."
 ::= { tn3270Objects 12 }
```

```
tn3270LogmodeEntry OBJECT-TYPE
SYNTAX Tn3270LogmodeEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Definition of the logmode setting for a single interface
    entry."
INDEX { tn3270LogmodeIfIndex }
 ::= { tn3270LogmodeTable 1 }
```

```
Tn3270LogmodeEntry ::= SEQUENCE {
    tn3270LogmodeIfIndex InterfaceIndex,
    tn3270LogmodeName DisplayString,
    tn3270LogmodeRowStatus RowStatus }
```

```
tn3270LogmodeIfIndex OBJECT-TYPE
SYNTAX InterfaceIndex
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The ifIndex of a interface entry to associate a logmode
    with."
 ::= { tn3270LogmodeEntry 1 }
```

```
tn3270LogmodeName OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..8))
MAX-ACCESS read-create
STATUS current
DESCRIPTION
    "The Logmode name to use for this particular interface. A
    value of a null octet string implies that the default
    logmode, which is dependent on the interface's type, should
    be used."
DEFVAL { 'H' }
 ::= { tn3270LogmodeEntry 2 }
```

```
tn3270LogmodeRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
```

DESCRIPTION

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"This object allows entries to be created and deleted in the tn3270LogmodeTable.

An entry in this table is deleted by setting this object to destroy(6)."

REFERENCE

"[RFC 1903](#), 'Textual Conventions for version 2 of the Simple Network Management Protocol (SNMPv2).'"

::= { tn3270LogmodeEntry 3 }

-- Define the set of objects to augment the Tcp Connection Table with.

tn3270TcpConnTable OBJECT-TYPE

SYNTAX SEQUENCE OF Tn3270TcpConnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Extends tcpConnTable to support TN3270 and TN3270E performance monitoring."

::= { tn3270Objects 13 }

tn3270TcpConnEntry OBJECT-TYPE

SYNTAX Tn3270TcpConnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes a particular tcp connection entry."

AUGMENTS { tcpConnEntry }

::= { tn3270TcpConnTable 1 }

Tn3270TcpConnEntry ::=

SEQUENCE

{

tn3270TcpConnLastActivity TimeTicks,

tn3270TcpConnBytesIn Integer32,

tn3270TcpConnBytesOut Integer32,

tn3270TcpConnReXmt Integer32,

tn3270TcpConnReXmtCount Integer32,

```

    tn3270TcpConnRoundTripTime      Integer32,
    tn3270TcpConnRoundTripVariance  Integer32,
    tn3270TcpConnTargetAppl         DisplayString,
    tn3270TcpConnLuName              DisplayString,
    tn3270TcpConnClientUserId        DisplayString,
    tn3270TcpConnLogMode             DisplayString,
    tn3270TcpConnProto              OCTET STRING
}

```

tn3270TcpConnLastActivity OBJECT-TYPE

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```

SYNTAX    TimeTicks
MAX-ACCESS    read-only
STATUS    current
DESCRIPTION
    "The number of 100ths of seconds since this entry
      was last used."
DEFVAL    { 0 }
 ::= { tn3270TcpConnEntry 1 }

```

tn3270TcpConnBytesIn OBJECT-TYPE

```

SYNTAX    Integer32
MAX-ACCESS    read-only
STATUS    current
DESCRIPTION
    "The number of bytes received from IP for this
      connection."
DEFVAL    { 0 }
 ::= { tn3270TcpConnEntry 2 }

```

tn3270TcpConnBytesOut OBJECT-TYPE

```

SYNTAX    Integer32
MAX-ACCESS    read-only
STATUS    current
DESCRIPTION
    "The number of bytes sent to IP for this connection."
DEFVAL    { 0 }
 ::= { tn3270TcpConnEntry 3 }

```

tn3270TcpConnReXmt OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "Number of retransmissions"
DEFVAL { 0 }
 ::= { tn3270TcpConnEntry 4 }

tn3270TcpConnReXmtCount OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "Current retransmission count"
DEFVAL { 0 }
 ::= { tn3270TcpConnEntry 5 }

tn3270TcpConnRoundTripTime OBJECT-TYPE
SYNTAX Integer32

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MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The amount of time that has elapsed, measured in
 milliseconds, from when the last TCP segment was
 transmitted by the TCP Stack until the ACK was
 received."
DEFVAL { 0 }
 ::= { tn3270TcpConnEntry 6 }

tn3270TcpConnRoundTripVariance OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "Round trip time variance."
DEFVAL { 0 }
 ::= { tn3270TcpConnEntry 7 }

tn3270TcpConnTargetAppl OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..8))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "When the corresponding TCP connection is for a
 3172 Telnet session then this object contains the
 Target VTAM Application name."
 ::= { tn3270TcpConnEntry 8 }

tn3270TcpConnLuName OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..8))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "When the corresponding TCP connection is for a
 3172 Telnet session then this object contains the
 VTAM LU name."
 ::= { tn3270TcpConnEntry 9 }

tn3270TcpConnClientUserId OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..8))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "When the corresponding TCP connection is for a
 3172 Telnet session then this object contains the
 Client's userid."
 ::= { tn3270TcpConnEntry 10 }

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tn3270TcpConnLogMode OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..8))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "When the corresponding TCP connection is for a
 3172 Telnet session then this object contains the
 LOG Mode."
 ::= { tn3270TcpConnEntry 11 }

tn3270TcpConnProto OBJECT-TYPE


```

SYNTAX   OCTET STRING (SIZE(4))
MAX-ACCESS   read-only
STATUS   current
DESCRIPTION
    "This flag will indicates the following Telnet modes:
    -bit(1 - 28) = <reserved>
    -bit(29)     = TN3270EE mode
    -bit(30)     = TN3270 mode
    -bit(31)     = TN3270E mode
    -bit(32)     = line mode"
 ::= { tn3270TcpConnEntry 12 }

```

-- Conformance Definitions

```

tn3270Groups      OBJECT IDENTIFIER ::= { tn3270Conformance 1 }
tn3270Compliances OBJECT IDENTIFIER ::= { tn3270Conformance 2 }

```

```

-- compliance statements tn3270Compliance MODULE-COMPLIANCE
STATUS   current
DESCRIPTION
    "The compliance statement for agents that support the TN3270
    MIB."
MODULE -- this module
    MANDATORY-GROUPS { tn3270BasicGroup,
                       tn3270TcpConnTableGroup
                     }
 ::= { tn3270Compliances 1 }

```

```

-- units of conformance tn3270BasicGroup OBJECT-GROUP
OBJECTS {
    tn3270Port,
    tn3270InactivityTimer,
    tn3270Timemark,
    tn3270ScanInterval,
    tn3270BinaryLineMode,
    tn3270DisableSga,

```

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```

tn3270AdminStatus,
tn3270OperStatus,

```

```

tn3270DefaultApplName,
tn3270DefaultApplIpAddress,
tn3270DefaultApplIpGroupName,
tn3270DefaultApplIfIndex,
tn3270TelnetAppl,
tn3270LmApplName,
tn3270LmApplIpAddress,
tn3270LmApplIpGroupName,
tn3270LmApplIfIndex,
tn3270UsstcpTableName,
tn3270UsstcpIpAddress,
tn3270UsstcpIpGroupName,
tn3270UsstcpIfIndex,
tn3270SessionTermState,
tn3270Msg07Enabled,
tn3270OldSolicitorEnabled,
tn3270AllowApplDisconnect,
tn3270AllowApplRowStatus,
tn3270AllowApplLuRowStatus,
tn3270RestrictApplDisconnect,
tn3270RestrictApplRowStatus,
tn3270RestrictApplUserRowStatus,
tn3270RestrictApplULuRowStatus,
tn3270IpGroupSubnetMask,
tn3270IpGroupIpSubnet,
tn3270IpGroupRowStatus,
tn3270LuGroupRowStatus,
tn3270PrtGroupRowStatus,
tn3270LuMapIpAddr,
tn3270LuMapIpGroupName,
tn3270LuMapRowStatus,
tn3270PrtMapIpAddr,
tn3270PrtMapIpGroupName,
tn3270PrtMapRowStatus,
tn3270LogmodeName,
tn3270LogmodeRowStatus
}
STATUS current
DESCRIPTION
    "This group is mandatory for all hosts supporting the
    TN3270 connections."
 ::= { tn3270Groups 1 }

```

```

tn3270TcpConnTableGroup OBJECT-GROUP
OBJECTS {
    tn3270TcpConnLastActivity,

```

```
tn3270TcpConnBytesIn,  
tn3270TcpConnBytesOut,  
tn3270TcpConnReXmt,  
tn3270TcpConnReXmtCount,  
tn3270TcpConnRoundTripTime,  
tn3270TcpConnRoundTripVariance,  
tn3270TcpConnTargetAppl,  
tn3270TcpConnLuName,  
tn3270TcpConnClientUserId,  
tn3270TcpConnLogMode,  
tn3270TcpConnProto  
}  
STATUS current  
DESCRIPTION  
    "This group is mandatory for all hosts supporting the  
    TN3270 connections."  
 ::= { tn3270Groups 2 }
```

END

5. Security Considerations

Certain management information defined in this MIB may be considered sensitive in some network environments. Therefore, authentication of received SNMP requests and controlled access to management information should be employed in such environments. The method for this authentication is a function of the SNMP Administrative Framework, and has not been expanded by this MIB.

Several objects in this MIB allow write access or provide for remote creation. Allowing this support in a non-secure environment can have a negative effect on network operations. It is recommended that implementers seriously consider whether set operations should be allowed without providing, at a minimum, authentication of request origin. It is recommended that without such support that the following objects be implemented as read-only:

- o tn3270Port
- o tn3270InactivityTimer
- o tn3270Timemark
- o tn3270ScanInterval
- o tn3270BinaryLineMode

- o tn3270DisableSga
- o tn3270AdminStatus
- o tn3270DefaultApplName
- o tn3270DefaultApplIpAddress

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- o tn3270DefaultApplIpGroupName
- o tn3270DefaultApplIfIndex
- o tn3270TelnetAppl
- o tn3270LmApplName
- o tn3270LmApplIpAddress
- o tn3270LmApplIpGroupName
- o tn3270LmApplIfIndex
- o tn3270UsstcpTableName
- o tn3270UsstcpIpAddress
- o tn3270UsstcpIpGroupName
- o tn3270UsstcpIfIndex
- o tn3270SessionTermState
- o tn3270Msg07Enabled
- o tn3270OldSolicitorEnabled
- o tn3270AllowApplDisconnect
- o tn3270AllowApplLuRowStatus
- o tn3270RestrictApplDisconnect
- o tn3270RestrictApplUserRowStatus
- o tn3270RestrictApplULuRowStatus
- o tn3270IpGroupSubnetMask
- o tn3270IpGroupIpSubnet
- o tn3270LuGroupRowStatus
- o tn3270PrtGroupRowStatus
- o tn3270LuMapIpAddr
- o tn3270LuMapIpGroupName
- o tn3270PrtMapIpAddr
- o tn3270PrtMapIpGroupName
- o tn3270LogmodeName

The following objects should either be implemented as read-only or not implemented when security is an issue as previously discussed:

- o tn3270AllowApplRowStatus
- o tn3270RestrictApplRowStatus
- o tn3270IpGroupRowStatus

- o tn3270LuMapRowStatus
- o tn3270PrtMapRowStatus
- o tn3270LogmodeRowStatus

6. Acknowledgments

This document is a product of the TN3270E Working Group.

7. References

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Network Management Protocol (SNMPv2)", [RFC 1903](#), January 1996.

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- [9] Case, J., M. Fedor, M. Schoffstall, J. Davin, "Simple Network Management Protocol", [RFC 1157](#), SNMP Research, Performance Systems International, MIT Laboratory for Computer Science, May 1990.

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