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SNMP-COMMUNITY-MIB DEFINITIONS ::= BEGIN

**IMPORTS**

IpAddress,  
MODULE-IDENTITY,  
OBJECT-TYPE,  
Integer32,  
snmpModules  
    **FROM** SNMPv2-SMI  
RowStatus,  
StorageType  
    **FROM** SNMPv2-TC  
SnmpAdminString,  
SnmpEngineID  
    **FROM** SNMP-FRAMEWORK-MIB  
SnmpTagValue,  
snmpTargetAddrEntry  
    **FROM** SNMP-TARGET-MIB  
MODULE-COMPLIANCE,  
OBJECT-GROUP  
    **FROM** SNMPv2-CONF;

**snmpCommunityMIB MODULE-IDENTITY**

**LAST-UPDATED** "200003060000Z"           -- Mar 6, 2000 12:00:00 AM  
**ORGANIZATION** "SNMPv3 Working Group"  
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```

"
DESCRIPTION
    "This MIB module defines objects to help support coexistence
    between SNMPv1, SNMPv2c, and SNMPv3."

REVISION "200003060000Z"          -- Mar 6, 2000 12:00:00 AM
DESCRIPTION
    "This version published as RFC 2576."

REVISION "199905130000Z"          -- May 13, 1999 12:00:00 AM
DESCRIPTION
    "The Initial Revision"
-- 1.3.6.1.6.3.18 -- ::= { snmpModules 18 }
-- Administrative assignments *****

snmpCommunityMIBObjects OBJECT IDENTIFIER
-- 1.3.6.1.6.3.18.1 -- ::= { snmpCommunityMIB 1 }

snmpCommunityMIBConformance OBJECT IDENTIFIER
-- 1.3.6.1.6.3.18.2 -- ::= { snmpCommunityMIB 2 }
--
-- The snmpCommunityTable contains a database of community strings.
-- This table provides mappings between community strings, and the
-- parameters required for View-based Access Control.
--

snmpCommunityTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SnmpCommunityEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The table of community strings configured in the SNMP
        engine's Local Configuration Datastore (LCD)."
-- 1.3.6.1.6.3.18.1.1 -- ::= { snmpCommunityMIBObjects 1 }

snmpCommunityEntry OBJECT-TYPE
    SYNTAX      SnmpCommunityEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Information about a particular community string."
    INDEX {
        IMPLIED snmpCommunityIndex
    }
-- 1.3.6.1.6.3.18.1.1.1 -- ::= { snmpCommunityTable 1 }

SnmpCommunityEntry ::= SEQUENCE {
    snmpCommunityIndex      SnmpAdminString,
    snmpCommunityName       OCTET STRING,
    snmpCommunitySecurityName SnmpAdminString,
    snmpCommunityContextEngineID SnmpEngineID,
    snmpCommunityContextName SnmpAdminString,
    snmpCommunityTransportTag SnmpTagValue,
    snmpCommunityStorageType StorageType,
    snmpCommunityStatus     RowStatus
}

snmpCommunityIndex OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE (1..32))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The unique index value of a row in this table."
-- 1.3.6.1.6.3.18.1.1.1.1 -- ::= { snmpCommunityEntry 1 }

snmpCommunityName OBJECT-TYPE
    SYNTAX      OCTET STRING

```

**MAX-ACCESS** read-create  
**STATUS** current  
**DESCRIPTION**  
*"The community string for which a row in this table represents a configuration."*  
-- 1.3.6.1.6.3.18.1.1.1.2 -- ::= { snmpCommunityEntry 2 }

**snmpCommunitySecurityName OBJECT-TYPE**  
**SYNTAX** SnmpAdminString (SIZE (1..32))  
**MAX-ACCESS** read-create  
**STATUS** current  
**DESCRIPTION**  
*"A human readable string representing the corresponding value of snmpCommunityName in a Security Model independent format."*  
-- 1.3.6.1.6.3.18.1.1.1.3 -- ::= { snmpCommunityEntry 3 }

**snmpCommunityContextEngineID OBJECT-TYPE**  
**SYNTAX** SnmpEngineID  
**MAX-ACCESS** read-create  
**STATUS** current  
**DESCRIPTION**  
*"The contextEngineID indicating the location of the context in which management information is accessed when using the community string specified by the corresponding instance of snmpCommunityName."*  
  
*The default value is the snmpEngineID of the entity in which this object is instantiated."*  
-- 1.3.6.1.6.3.18.1.1.1.4 -- ::= { snmpCommunityEntry 4 }

**snmpCommunityContextName OBJECT-TYPE**  
**SYNTAX** SnmpAdminString (SIZE (0..32))  
**MAX-ACCESS** read-create  
**STATUS** current  
**DESCRIPTION**  
*"The context in which management information is accessed when using the community string specified by the corresponding instance of snmpCommunityName."*  
**DEFVAL** { 'H' }  
-- 1.3.6.1.6.3.18.1.1.1.5 -- ::= { snmpCommunityEntry 5 }

**snmpCommunityTransportTag OBJECT-TYPE**  
**SYNTAX** SnmpTagValue  
**MAX-ACCESS** read-create  
**STATUS** current  
**DESCRIPTION**  
*"This object specifies a set of transport endpoints from which a command responder application will accept management requests. If a management request containing this community is received on a transport endpoint other than the transport endpoints identified by this object, the request is deemed unauthentic."*  
  
*The transports identified by this object are specified in the snmpTargetAddrTable. Entries in that table whose snmpTargetAddrTagList contains this tag value are identified."*  
  
*If the value of this object has zero-length, transport endpoints are not checked when authenticating messages containing this community string."*  
**DEFVAL** { 'H' }  
-- 1.3.6.1.6.3.18.1.1.1.6 -- ::= { snmpCommunityEntry 6 }

**snmpCommunityStorageType OBJECT-TYPE**  
**SYNTAX** StorageType  
**MAX-ACCESS** read-create  
**STATUS** current

**DESCRIPTION**

*"The storage type for this conceptual row in the snmpCommunityTable. Conceptual rows having the value 'permanent' need not allow write-access to any columnar object in the row."*

-- 1.3.6.1.6.3.18.1.1.1.7 -- ::= { snmpCommunityEntry 7 }

**snmpCommunityStatus OBJECT-TYPE**

**SYNTAX** RowStatus  
**MAX-ACCESS** read-create  
**STATUS** current

**DESCRIPTION**

*"The status of this conceptual row in the snmpCommunityTable.*

*An entry in this table is not qualified for activation until instances of all corresponding columns have been initialized, either through default values, or through Set operations. The snmpCommunityName and snmpCommunitySecurityName objects must be explicitly set.*

*There is no restriction on setting columns in this table when the value of snmpCommunityStatus is active(1)."*

-- 1.3.6.1.6.3.18.1.1.1.8 -- ::= { snmpCommunityEntry 8 }

-- The snmpTargetAddrExtTable

**snmpTargetAddrExtTable OBJECT-TYPE**

**SYNTAX** SEQUENCE OF SnmpTargetAddrExtEntry  
**MAX-ACCESS** not-accessible  
**STATUS** current

**DESCRIPTION**

*"The table of mask and mms values associated with the snmpTargetAddrTable.*

*The snmpTargetAddrExtTable augments the snmpTargetAddrTable with a transport address mask value and a maximum message size value. The transport address mask allows entries in the snmpTargetAddrTable to define a set of addresses instead of just a single address. The maximum message size value allows the maximum message size of another SNMP entity to be configured for use in SNMPv1 (and SNMPv2c) transactions, where the message format does not specify a maximum message size."*

-- 1.3.6.1.6.3.18.1.2 -- ::= { snmpCommunityMIBObjects 2 }

**snmpTargetAddrExtEntry OBJECT-TYPE**

**SYNTAX** SnmpTargetAddrExtEntry  
**MAX-ACCESS** not-accessible  
**STATUS** current

**DESCRIPTION**

*"Information about a particular mask and mms value."*

**AUGMENTS** {  
    snmpTargetAddrEntry  
}

-- 1.3.6.1.6.3.18.1.2.1 -- ::= { snmpTargetAddrExtTable 1 }

SnmpTargetAddrExtEntry ::= SEQUENCE {  
    snmpTargetAddrTMask OCTET STRING,  
    snmpTargetAddrMMS Integer32  
}

**snmpTargetAddrTMask OBJECT-TYPE**

**SYNTAX** OCTET STRING (SIZE (0..255))  
**MAX-ACCESS** read-create  
**STATUS** current

**DESCRIPTION**

*"The mask value associated with an entry in the*

*snmpTargetAddrTable*. The value of this object must have the same length as the corresponding instance of *snmpTargetAddrTAddress*, or must have length 0. An attempt to set it to any other value will result in an *inconsistentValue* error.

The value of this object allows an entry in the *snmpTargetAddrTable* to specify multiple addresses. The mask value is used to select which bits of a transport address must match bits of the corresponding instance of *snmpTargetAddrTAddress*, in order for the transport address to match a particular entry in the *snmpTargetAddrTable*. Bits which are 1 in the mask value indicate bits in the transport address which must match bits in the *snmpTargetAddrTAddress* value. Bits which are 0 in the mask indicate bits in the transport address which need not match. If the length of the mask is 0, the mask should be treated as if all its bits were 1 and its length were equal to the length of the corresponding value of *snmpTargetAddrTable*.

This object may not be modified while the value of the corresponding instance of *snmpTargetAddrRowStatus* is *active(1)*. An attempt to set this object in this case will result in an *inconsistentValue* error."

DEFVAL { 'H' }

-- 1.3.6.1.6.3.18.1.2.1.1 -- ::= { snmpTargetAddrExtEntry 1 }

#### **snmpTargetAddrMMS OBJECT-TYPE**

SYNTAX Integer32 (0 | 484..2147483647)

MAX-ACCESS read-create

STATUS current

#### **DESCRIPTION**

"The maximum message size value associated with an entry in the *snmpTargetAddrTable*."

DEFVAL { 484 }

-- 1.3.6.1.6.3.18.1.2.1.2 -- ::= { snmpTargetAddrExtEntry 2 }

--  
-- The *snmpTrapAddress* and *snmpTrapCommunity* objects are included  
-- in notifications that are forwarded by a proxy, which were  
-- originally received as SNMPv1 Trap messages.  
--

#### **snmpTrapAddress OBJECT-TYPE**

SYNTAX IpAddress

MAX-ACCESS accessible-for-notify

STATUS current

#### **DESCRIPTION**

"The value of the *agent-addr* field of a Trap PDU which is forwarded by a proxy forwarder application using an SNMP version other than SNMPv1. The value of this object SHOULD contain the value of the *agent-addr* field from the original Trap PDU as generated by an SNMPv1 agent."

-- 1.3.6.1.6.3.18.1.3 -- ::= { snmpCommunityMIBObjects 3 }

#### **snmpTrapCommunity OBJECT-TYPE**

SYNTAX OCTET STRING

MAX-ACCESS accessible-for-notify

STATUS current

#### **DESCRIPTION**

"The value of the *community string* field of an SNMPv1 message containing a Trap PDU which is forwarded by a proxy forwarder application using an SNMP version other than SNMPv1. The value of this object SHOULD contain the value of the *community string* field from the original SNMPv1 message containing a Trap PDU as generated by an SNMPv1 agent."

```
-- 1.3.6.1.6.3.18.1.4 -- ::= { snmpCommunityMIBObjects 4 }
-- Conformance Information *****
```

**snmpCommunityMIBCompliances OBJECT IDENTIFIER**

```
-- 1.3.6.1.6.3.18.2.1 -- ::= { snmpCommunityMIBConformance 1 }
```

**snmpCommunityMIBGroups OBJECT IDENTIFIER**

```
-- 1.3.6.1.6.3.18.2.2 -- ::= { snmpCommunityMIBConformance 2 }
-- Compliance statements
```

**snmpCommunityMIBCompliance MODULE-COMPLIANCE**

STATUS current

**DESCRIPTION**

*"The compliance statement for SNMP engines which implement the SNMP-COMMUNITY-MIB."*

**MODULE**

**MANDATORY-GROUPS {**

snmpCommunityGroup

**}**

**OBJECT** snmpCommunityName

**MIN-ACCESS** read-only

**DESCRIPTION**

*"Write access is not required."*

**OBJECT** snmpCommunitySecurityName

**MIN-ACCESS** read-only

**DESCRIPTION**

*"Write access is not required."*

**OBJECT** snmpCommunityContextEngineID

**MIN-ACCESS** read-only

**DESCRIPTION**

*"Write access is not required."*

**OBJECT** snmpCommunityContextName

**MIN-ACCESS** read-only

**DESCRIPTION**

*"Write access is not required."*

**OBJECT** snmpCommunityTransportTag

**MIN-ACCESS** read-only

**DESCRIPTION**

*"Write access is not required."*

**OBJECT** snmpCommunityStorageType

**MIN-ACCESS** read-only

**DESCRIPTION**

*"Write access is not required."*

**OBJECT** snmpCommunityStatus

**MIN-ACCESS** read-only

**DESCRIPTION**

*"Write access is not required."*

```
-- 1.3.6.1.6.3.18.2.1.1 -- ::= { snmpCommunityMIBCompliances 1 }
```

**snmpProxyTrapForwardCompliance MODULE-COMPLIANCE**

STATUS current

**DESCRIPTION**

*"The compliance statement for SNMP engines which contain a proxy forwarding application which is capable of forwarding SNMPv1 traps using SNMPv2c or SNMPv3."*

**MODULE**

**MANDATORY-GROUPS {**

snmpProxyTrapForwardGroup

**}**

```
-- 1.3.6.1.6.3.18.2.1.2 -- ::= { snmpCommunityMIBCompliances 2 }
```

**snmpCommunityGroup OBJECT-GROUP**

**OBJECTS {**

snmpCommunityName,  
snmpCommunitySecurityName,  
snmpCommunityContextEngineID,  
snmpCommunityContextName,  
snmpCommunityTransportTag,

```

        snmpCommunityStorageType,
        snmpCommunityStatus,
        snmpTargetAddrTMask,
        snmpTargetAddrMMS
    }
    STATUS          current
    DESCRIPTION
        "A collection of objects providing for configuration
        of community strings for SNMPv1 (and SNMPv2c) usage."
-- 1.3.6.1.6.3.18.2.2.1 -- ::= { snmpCommunityMIBGroups 1 }

snmpProxyTrapForwardGroup OBJECT-GROUP
    OBJECTS {
        snmpTrapAddress,
        snmpTrapCommunity
    }
    STATUS          current
    DESCRIPTION
        "Objects which are used by proxy forwarding applications
        when translating traps between SNMP versions.  These are
        used to preserve SNMPv1-specific information when
        translating to SNMPv2c or SNMPv3."
-- 1.3.6.1.6.3.18.2.2.3 -- ::= { snmpCommunityMIBGroups 3 }

```

END

```

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