Appendiks/Appendix 1.

```
SNMPv2-SMI DEFINITIONS ::= BEGIN

org             OBJECT IDENTIFIER ::= { iso 3 }  --  "iso" = 1
dod             OBJECT IDENTIFIER ::= { org 6 }
internet        OBJECT IDENTIFIER ::= { dod 1 }
directory       OBJECT IDENTIFIER ::= { internet 1 }
mgmt            OBJECT IDENTIFIER ::= { internet 2 }
mib-2           OBJECT IDENTIFIER ::= { mgmt 1 }
transmission    OBJECT IDENTIFIER ::= { mib-2 10 }
experimental    OBJECT IDENTIFIER ::= { internet 3 }
private         OBJECT IDENTIFIER ::= { internet 4 }
enterprises     OBJECT IDENTIFIER ::= { private 1 }
security        OBJECT IDENTIFIER ::= { internet 5 }
snmpV2          OBJECT IDENTIFIER ::= { internet 6 }


MODULE-IDENTITY MACRO ::=
BEGIN
    TYPE NOTATION ::=
                    "LAST-UPDATED" value(Update ExtUTCTime)
                    "ORGANIZATION" Text
                    "CONTACT-INFO" Text
                    "DESCRIPTION" Text
                    RevisionPart
    VALUE NOTATION ::=
                    value(VALUE OBJECT IDENTIFIER)
    RevisionPart ::=
                    Revisions
                | empty
    Revisions ::=
                    Revision
                | Revisions Revision
    Revision ::=
                    "REVISION" value(Update ExtUTCTime)
                    "DESCRIPTION" Text

    -- a character string as defined in section 3.1.1
    Text ::= value(IA5String)
END

OBJECT-IDENTITY MACRO ::=
BEGIN
    TYPE NOTATION ::=
                    "STATUS" Status
                    "DESCRIPTION" Text
                    ReferPart
    VALUE NOTATION ::=
                    value(VALUE OBJECT IDENTIFIER)
    Status ::=
                    "current"
                | "deprecated"
                | "obsolete"
    ReferPart ::=
                    "REFERENCE" Text
                | empty
    Text ::= value(IA5String)
END
```

```
ObjectName ::=
    OBJECT IDENTIFIER
NotificationName ::=
    OBJECT IDENTIFIER

ObjectSyntax ::=
    CHOICE {
        simple
            SimpleSyntax,
          -- note that SEQUENCEs for conceptual tables and
          -- rows are not mentioned here...

        application-wide
            ApplicationSyntax
    }

SimpleSyntax ::=
    CHOICE {
        -- INTEGERs with a more restrictive range
        -- may also be used
        integer-value              -- includes Integer32
            INTEGER (-2147483648..2147483647),

        -- OCTET STRINGs with a more restrictive size may also be used
        string-value
            OCTET STRING (SIZE (0..65535)),
        objectID-value
            OBJECT IDENTIFIER
    }

Integer32 ::=
        INTEGER (-2147483648..2147483647)

ApplicationSyntax ::=
    CHOICE {
        ipAddress-value        IpAddress,
        counter-value          Counter32,
        timeticks-value        TimeTicks,
        arbitrary-value        Opaque,
        big-counter-value      Counter64,
        unsigned-integer-value  -- includes Gauge32
                Unsigned32
        }
IpAddress ::=
    [APPLICATION 0]    IMPLICIT OCTET STRING (SIZE (4))
Counter32 ::=
    [APPLICATION 1]    IMPLICIT INTEGER (0..4294967295)
Gauge32 ::=
    [APPLICATION 2]    IMPLICIT INTEGER (0..4294967295)
TimeTicks ::=
    [APPLICATION 3]    IMPLICIT INTEGER (0..4294967295)
-- for backward-compatibility only
Opaque ::=
    [APPLICATION 4]    IMPLICIT OCTET STRING
-- for counters that wrap in less than one hour with only 32 bits
Counter64 ::=
    [APPLICATION 6     IMPLICIT INTEGER (0..18446744073709551615)
```

```
OBJECT-TYPE MACRO ::=
BEGIN
    TYPE NOTATION ::=
                    "SYNTAX" Syntax
                    "MAX-ACCESS" Access
                    "STATUS" Status
                    "DESCRIPTION" Text
                     ReferPart
    VALUE NOTATION ::=
                    value(VALUE ObjectName)
    Syntax ::=     type
    Access ::=
                    "not-accessible"
                  | "accessible-for-notify"
                  | "read-only"
                  | "read-write"
                  | "read-create"
    Status ::=
                    "current"
                  | "deprecated"
                  | "obsolete"
    ReferPart ::=
                    "REFERENCE" Text
                  | empty
    Text ::= value(IA5String)
END

NOTIFICATION-TYPE MACRO ::=
BEGIN
    TYPE NOTATION ::=
                    ObjectsPart
                    "STATUS" Status
                    "DESCRIPTION" Text
                    ReferPart

    VALUE NOTATION ::=
                    value(VALUE NotificationName)
    ObjectsPart ::=
                    "OBJECTS" "{" Objects "}"
                  | empty
    Objects ::=
                    Object
                  | Objects "," Object
    Object ::=
                    value(ObjectName)
    Status ::=
                    "current"
                  | "deprecated"
                  | "obsolete"

    ReferPart ::=
                    "REFERENCE" Text
                  | empty

    Text ::= value(IA5String)
END
END
```