APPENDIKS/APPENDIX 2

```
SNMPv2-PDU DEFINITIONS ::= BEGIN
   IMPORTS  ObjectName, ObjectSyntax, Integer32 FROM SNMPv2-SMI;
   -- protocol data units
   PDUs ::=
     CHOICE {
        get-request            GetRequest-PDU,
        get-next-request       GetNextRequest-PDU,
        get-bulk-request       GetBulkRequest-PDU,
        response                Response-PDU,
        set-request            SetRequest-PDU,
        inform-request         InformRequest-PDU,
        snmpV2-trap            SNMPv2-Trap-PDU,
        report                 Report-PDU,
     }

   -- PDUs
   GetRequest-PDU ::=       [0] IMPLICIT PDU
   GetNextRequest-PDU ::= [1] IMPLICIT PDU
   Response-PDU ::=         [2] IMPLICIT PDU
   SetRequest-PDU ::=       [3] IMPLICIT PDU
   GetBulkRequest-PDU ::= [5] IMPLICIT BulkPDU
   InformRequest-PDU ::=   [6] IMPLICIT PDU
   SNMPv2-Trap-PDU ::=     [7] IMPLICIT PDU
   Report-PDU ::           [8] IMPLICIT PDU

   max-bindings            INTEGER ::= 2147483647

   PDU ::=
     SEQUENCE {  request-id       Integer32,
                 error-status     INTEGER {
                 noError(0),
                 tooBig(1),
                 noSuchName(2), -- for proxy compatibility
                 badValue(3),     -- for proxy compatibility
                 readOnly(4),     -- for proxy compatibility
                  genErr(5),
                 noAccess(6),
                 wrongType(7),
                  wrongLength(8),
                 wrongEncoding(9),
                  wrongValue(10),
                 noCreation(11),
                  inconsistentValue(12),
                  resourceUnavailable(13),
                 commitFailed(14),
                 undoFailed(15),
                 authorizationError(16),
```

```
                    notWritable(17),
                    inconsistentName(18)            },

                    error-index              INTEGER (0..max-bindings),
                    variable-bindings   -- values are sometimes ignored
                                              VarBindList
                    }

    BulkPDU ::=                  -- MUST be identical in
       SEQUENCE {                -- structure to PDU
          request-id            Integer32,
          non-repeaters         INTEGER (0..max-bindings),
          max-repetitions       INTEGER (0..max-bindings),
          variable-bindings     -- values are ignored
                                VarBindList
       }

-- variable binding

VarBind ::=    SEQUENCE {name              ObjectName,
                                    CHOICE        {
                          value   ObjectSyntax,
                          unSpecified
                          -- in retrieval requests
                                              NULL,
                          -- exceptions in responses
                          noSuchObject[0]       IMPLICIT NULL,
                          noSuchInstance[1]     IMPLICIT NULL,
                          endOfMibView[2]       IMPLICIT NULL
                                              }
                          }

 -- variable-binding list

VarBindList ::= SEQUENCE (SIZE (0..max-bindings)) OF VarBind

END
```