

```

    30    67    02    01    03
SEQUENCE len=103 INTEGER len=1 vers=3

    30    0D    02    01    2A
SEQUENCE len=13 INTEGER len=1 msgID=42

    02    02    08    00
INTEGER len=2 maxmsgsize=2048

    04    01    04
string len=1 msgFlags=0x04 (bits mean noAuth, noPriv, reportable)

    02    01    03
INTEGER len=1 used-based security

    04    25    30    23
string len=37 SEQUENCE len=35 UsmSecurityParameters

    04    0C    00    00    00    63    00    00    00
string len=12 msgAuthoritativeEngineID ...

    A1    C0    93    8E    23
engine is at IP address 192.147.142.35, port 161

    02    01    00
INTEGER len=1 msgAuthoritativeEngineBoots=0

    02    01    00
INTEGER len=1 msgAuthoritativeEngineTime=0

    04    09    43    6F    6D    65    72    42    6F
string len=9 -----msgUserName value is "ComerBook"-----
    6F    6B
-----

    04    00
string len=0 msgAuthenticationParameters (none)

    04    00
string len=0 msgPrivacyParameters (none)

    30    2C
SEQUENCE len=44 ScopedPDU

    04    0C    00    00    00    63    00    00
string len=12 -----contextEngineID-----
    00    A1    c0    93    8E    23
-----

    04    00
string len=0 contextName = "" (default)

```

```

CONTEXT [0] IMPLICIT SEQUENCE

  A0      1A
  getreq. len=26

      02      02      4D      C6
  INTEGER len=2  request-id = 19910

      02      01      00
  INTEGER len=1  error-status = noError(0)

      02      01      00
  INTEGER len=1  error-index=0

      30      0E
  SEQUENCE len=14 VarBindList

      30      0C
  SEQUENCE len=12 VarBind

      06      08
  OBJECT IDENTIFIER name len=8

      2B      06      01      02      01      01      01      00
  1.3 . 6 . 1 . 2 . 1 . 1 . 1 . 0 (sysDescr.0)

      05      00
  null len=0 (no value specified)

```

Figure 27.12 An example of an encoded SNMPv3 *get-request* for data item *sysDescr* with octets shown in hexadecimal and a comment explaining their meaning below. Related octets have been grouped onto lines; they are contiguous in the message.