

DATA STORAGE DEVICE

5 A data storage device includes a CMIP application
component 42 which receives data on network objects using the
CMIP protocol from the network manager of a main network.
For each attribute of each object, a CMIP/SNMP mapper
component 44 converts the CMIP object class name, attribute
10 name and distinguished name of the object into the
corresponding SNMP object identifier and the CMIP attribute
value into the corresponding SNMP attribute value and this
data is stored in MIB 46. An SNMP application component 48
receives requests for information from a network manager of
15 a local network. In order to service a valid request, the
SNMP application component 48 retrieves the required data
from MIB 46 and supplies this data to the network manager for
the local network using the SNMP protocol. For changes in
the values of certain attributes of certain objects, the SNMP
20 application component issues traps to the manager of the
local network.

See Figure 3