

Dallmeier Recorders & SNMP

Monitoring of Dallmeier recorders via the SNMP network protocol

English

CCTV/IP
Products for Solutions

1 Abstract

Dallmeier stand-alone **recorders** can communicate via the **SNMP** network protocol (Simple Network Management Protocol) in an Ethernet. This allows the integration of the recorders in a central device management system.

*Note that the **SNMP** is included in the standard scope of delivery.*

This document contains a general description of the SNMP network protocol and gives a view on the special implementation and the available messages.

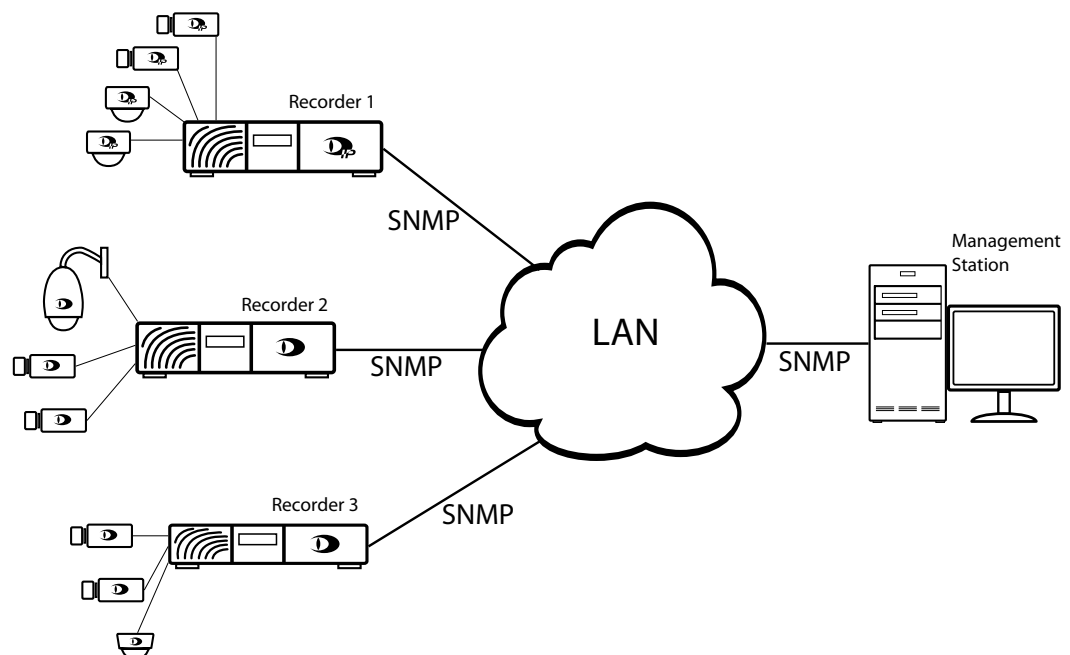
2 Validity

This document applies to the following recorders. It has been created on basis of the recorders software version 7.1.1 SP B.

- DMS 80
- DMS 160
- DMS 240
- DMS 240 HSR
- DMS 240 IPS
- DLS 4 Bank
- DMS 80 Bank
- DMS 160 Bank
- DMS 240 Bank
- DMS 240 HSR Bank
- DLS 4
- DLS 8
- DLS 8 Plus
- DLS 16
- DLS 16 Plus
- VNS 16
- VNB
- DMX 1600
- DVS 1600

3 Description

SNMP is a network protocol that can be used for monitoring and controlling of network elements (e.g. recorders, routers, switches, printers, etc.) with a central device management station. The protocol handles the communication (design of the data packets and communication flow) between the monitored devices and the device management station.



The device management station sends a status request (GET) to the network device. The SNMP agent of the network device determines the corresponding status and sends a response (RESPONSE).

Besides that, the device management station can send commands (SET) to modify the settings of the device. The network device itself can send event messages (TRAP) to the device management station without previous request.

The device management station generally can assume the following tasks:

- Monitoring
- Remote control
- Remote configuration
- Failure detection
- Failure notification

4 Implementation

The relevant Dallmeier recorders generally support the network protocols SNMPv1 and SNMPv2. But due to security considerations only a part of the theoretical functional range is implemented.

The SNMP agent integrated in Dallmeier recorders sends only answers (RESPONSE) to received requests (GET). It does not accept commands (SET) and does not send event messages (TRAP).

Regarding Dallmeier recorders the device management station can assume the following tasks:

- Monitoring
- Failure detection

5 Messages

The following information can be requested by a device management station from a Dallmeier recorder:

Cameras

- Maximum number of connectable cameras
- Number of currently connected cameras
- Number of currently faulty cameras
- Table containing camera index, camera name and status

Hard disk drives

- Status of the connected HDDs (internal or external HDD, error status)
- Total number of HDD errors
- Status of the internal RAID (OK, synchronisation, rebuild)
- Status of the external RAID (OK, synchronisation, rebuild)
- Last message of the external RAID (describes the status more detailed)

Alarms

- Number of alarms since the start of the recorder
- Number of current alarms
- Current alarm status
- Number of alarms triggered by the contact of the housing cover
- Number of alarms triggered by the contact of the housing screw
- Number of alarms triggered by manipulation or removal of the terminal board

Fan

- Status of the internal fans
- Number of messages triggered by fans

Temperature

- Internal temperature
- Number of messages triggered by temperature changes

Components

- Status of the LCD display
- Number of messages triggered by changes of the LCD display status
- Status of the internal IO board
- Number of messages triggered by changes of the IO board status

UPS

- Status of UPS
- Last message of the UPS (describes the status more detailed)

Note the separate documentation on the structure of requests (GET) and messages (RESPONSE) that can be provided on request.



Dallmeier electronic GmbH & Co.KG
Cranachweg 1
93051 Regensburg
Germany

Tel.: +49 (0) 941 87 00-0
Fax: +49 (0) 941 87 00-180
www.dallmeier.com