

Monitoring & SNMP

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Constant monitoring of system status





Leading the Way in digital KVM

Guntermann & Drunck GmbH has been established in 1985 and is named after its founders. Over 25 years have since past, and we are now a leading manufacturer of digital and analog KVM switching systems.

As an owner-managed company we work with a broad range in both digital and analog KVM closely with the marketplace and make our decisions with and in the interests of our customers. It is our philosophy to meet our customers while making decisions, to accompany them in the process and ensure that they achieve their goals.

We can do this because as a medium sized company we have short communication paths and all core competencies are in house – from development through to production. This way we can even make the impossible possible at times. If it is thanks to the modularity of the products or by implementing a customised solution. We orient ourselves towards the needs of the customer – and not the other way round.

Organisations, service providers and companies of all sizes managing numerous computers, servers and other network devices trust the comprehensive advice and service provided by Guntermann & Drunck GmbH.

Thanks to these different fields of specialisation, the demands placed on the products are many and are manifold. Our products have to provide a long-life service, be secure, uncomplicated, user-friendly, understandable and adaptable.

Monitoring and SNMP functions are part of many G&D products and help monitoring:

- system states of G&D products
- system states of connected peripherals

Thanks to the system's **permanent monitoring**, the administrator can react to **critical conditions** (e.g. exceeding temperatures, miscommunications with the keyboard interface, or problems with the redundant system) **before they lead to failures**.

The monitoring and SNMP function avoids system failures, increases availability and allows both users and system administrator to work more efficiently. Best suited for mission-critical applications such as live events or monitoring tasks.

Monitoring

G&D products with monitoring functions provide at least **one connection to the network as well as an integrated web interface** to configure and monitor the device.

The administrator can use the network to **access the web interface** of any device thus maintaining an overview of the device status.

Any values of **G&D devices are monitored internally**. The connection to the devices (e.g. monitor or keyboard ports) provides information about the connected peripherals.

Changing defined conditions (ON/OFF) or exceeding defined thresholds (temperature) are stored in the web interface and thus can be viewed by the administrator.

The end of this document provides an overview of all available products and their monitoring values.

SNMP-Trap

SNMP traps help administrators monitoring the devices.

Instead of querying monitoring values, **the administrator automatically receives SNMP traps sent by G&D devices** and therefore no longer misses any events and can react accordingly.

Just like monitoring information, **syslog messages can be sent as SNMP trap** as well.

SNMP-Set + Get

Preventive device monitoring can be carried out using SNMP GET. Querying the device temperature regularly provides statistics on daily top values. Even though these values are still under the warning limit, this information enables a preventive reaction.

SNMP SET requests have active impact on a G&D product (e.g. when changing channels at a KVM Switch).

To use SNMP SET + GET, **the devices must be directly connected to the network**.

Monitoring & SNMP - centralised with DevCon-Center

When applying **multiple devices providing the monitoring function**, the DevCon-Center is an interesting expansion to your installation.

The Dev(ice)Con(dition)-Center provides two network ports. One lets you connect the device to the productive network, the other helps you create a KVM monitoring network.

Now, the DevCon-Center's web interface lets you **monitor any connected devices over one IP address** in your productive network while SNMP traps send automatic messages.

In addition, the DevCon-Center also informs you about total failures of any monitored device. In case of a direct connection, such failures would remain unnoticed.

The DevCon-Center also enables you to **configure all important device features centrally as well as to update all connected devices**.

To use all features of the DevCon-Center, the devices to be connected need to provide the **DevCon support feature**.

Available Products

KVM Extender

Following extenders provide the monitoring function as default:

- DL-Vision(S) all variants
- DL-Vision(M) all variants
- DL-Vision(S)-MC2 all variants
- DL-Vision(M)-MC2 all variants

The devices also support the DevCon function.

The monitoring function provides the following information about extenders:

Availability

- operation status of user and computer modules
- status of main power supply of user and computer modules
- status of redundant power supply of user and computer modules
- status of network connection 1 + 2 status of main power supply at user and computer modules

Performance data

- temperature of user and computer module in °C
- speed of fans 1 + 2 at user and computer module in RPM
- current consumption of user and computer module
- internal voltage of user and computer module

Transmission range

- status of „Transmission“ distance(s) between modules
- status of fibre transmission module of user and computer module
- status of „USB 2.0 Trans“ modules of user and computer module

Computer information

- Power status of connected computer
- connection status of „USB CPU“ port at computer module (K/M-USB)
- status of „USB CPU“ port at computer module (transparent USB)
- number of video connections to computer
- video signal coming from computer
- video format coming from computer

Console information

- What PS/2 ports of the computer module are connected to the computer?
- What module (computer or user module) accesses the computer in what mode?
- peripherals connected at PS/2 ports of user and computer module
- peripherals connected at USB K/M port of user and computer module
- number of displays connected to user and computer module
- EDID information of displays connected to user and computer module
- status of Freeze function

KVM Switches

Following switches provide the monitoring function as default:

- DL-MUX4 all variants
- DL-MUX4-MC all variants

The devices also support the **DevCon function**.

The monitoring function provides the following information about the connected switches:

Availability

- switch's operation status
- status of main power supply
- status of redundant power supply
- status of network connections 1 + 2

Performance data

- temperature in °C
- current device load

Computer information

- device type at switch port (e.g. G&D extender or computer)
- power status of connected computers
- connection status of „USB-B K/M“ ports for computer connection
- ports that are connected to the computer using „PS/2-K/M“ interfaces
- ports that are connected to the computer using „USB-2.0“ interfaces
- number of DVI video connections to computer
- DVI video signal on said video connections
- number of VGA video connections to computer
- VGA video signal on said video connections

Console information

- peripherals at the switch's PS/2 interfaces
- peripherals at the switch's USB-A K/M interface
- number of displays connected to the switch
- video signal at display
- video format at display
- EDID information of connected displays
- accessing computer

KVM Matrixswitches

Following matrix switches provide the monitoring function as default:

- DVICenter DP32
- CATCenter NEO all variants
- CompactCenter X2

The devices also support the **DevCon function**.

The monitoring function provides the following information about the connected matrix switches:

Availability

- matrix switch's operation status
- status of main power supply
- status of redundant power supply
- status of network connections 1 + 2

Performance data

- matrix switch temperature in °C
- fan speed in RPM

KVM Add-On

Following KVM Add-On products provide the monitoring function as default:

- DevCon-Center

In complex installations, the DevCon-Center is the perfect fit to **administrate the monitoring function** of all connected G&D devices. **The device itself provides the following monitoring values:**

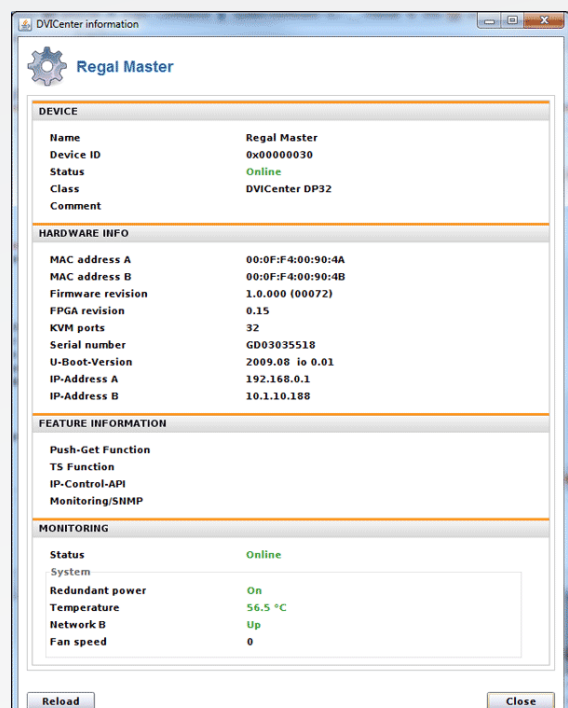
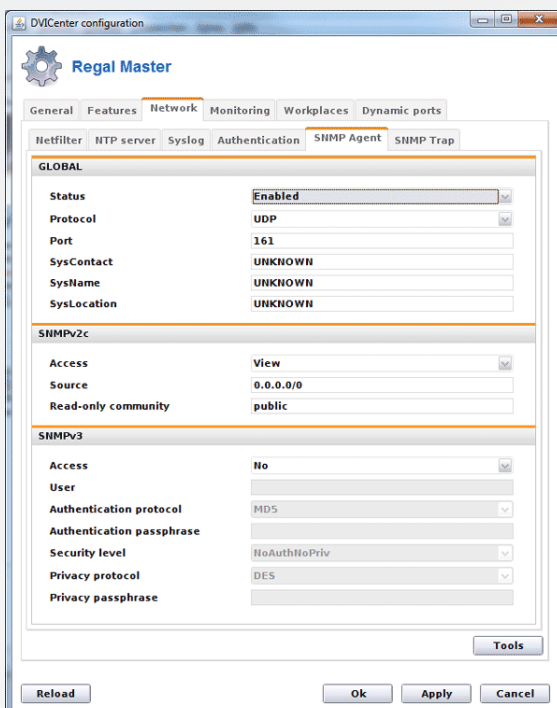
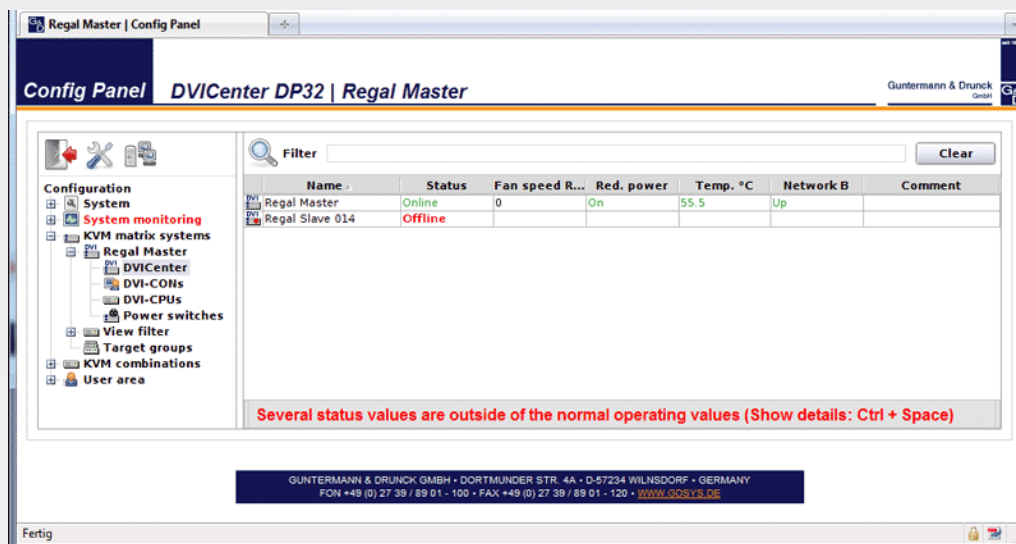
Availability

- operation status of DevCon-Center
- status of DevCon-Center main power supply
- status of DevCon-Center redundant power supply
- status of network connections 1 + 2

Performance data

- DevCon-Center temperature in °C

Screenshots



























Legend

ABBREVIATIONS

CPU	=	Computer module	M	=	Multimode
PC	=	Computer module	S	=	Singlemode
CON	=	User module	RM	=	For assembly in a 19" rack
REM	=	User module	A	=	Audio
MC2	=	Multichannel 2	AR	=	Audio + RS232
MC3	=	Multichannel 3	R	=	RS232
MC4	=	Multichannel 4	U	=	transparent USB 1.1
			U2	=	transparent USB 2.0
			D	=	Delay

EQUIPMENT FEATURES

	=	keyboard/mouse		=	VT100
	=	dual-link DVI video		=	KVM IP access
	=	single-link DVI video		=	Network connection
	=	single-link DVI + VGA		=	Web interface
	=	VGA video		=	DevCon support
	=	Audio		=	Monitoring
	=	RS232		=	CAT cable
	=	USB 1.1		=	Fiber optics
	=	USB 2.0		=	Single user
	=	Delay		=	Multi user
	=	Screen Freeze		=	Separat local/remote user
	=	Power Switching			
	=	Fire Wire			