

KVM Add-On

DevCon-Center 6.5

KVM Add-On

Value adding solutions for your KVM an IT applications



Intelligent solutions

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.

The KVM add-on product DevCon-Center provides centralized, proactive monitoring and centralized configuration of network-capable G&D devices that have DevCon support.

Two interfaces connect the DevCon-Center to the network. Configuration, information and communication are carried out via integrated web interface.

A working system includes a DevCon-Center and the devices to be monitored.

Highlights

- **dual network connection**
- **configuration via web interface**
- **monitoring via SNMP and web interface**
- **reports device statuses**
- **logbook to capture, copy, export or print any information**
- **Ident LED helps identify devices in complex installations**
- **redundant power supply**

If several network-capable products are deployed, the use of the **DevCon-Center** is recommended. The DevCon-Center appliance is in permanent contact with all devices over network. Using the DevCon-Center appliance, all connected **G&D devices with the required support** can be centrally configured, updated and monitored within one user interface provided so far they have DevCon Support.

Monitoring, configuration and updates can be carried out via one IP address. Any critical operational status can be recognised in advance and the system administrator can act accordingly. System availability and safety are increased for mission-critical applications such as live broadcast, Air or Ground Traffic Control etc.

Supported products

This function is currently supported by the following product families:

- DL-Vision DVI KVM Extender
- DL-MUX4 DVI KVM Switch
- DVICenter DP32 DVI KVM Matrixswitch

Further networkable products are projected.



Front view



Rear view

DevCon-Center

Item no.
A320 0008



System diagram:

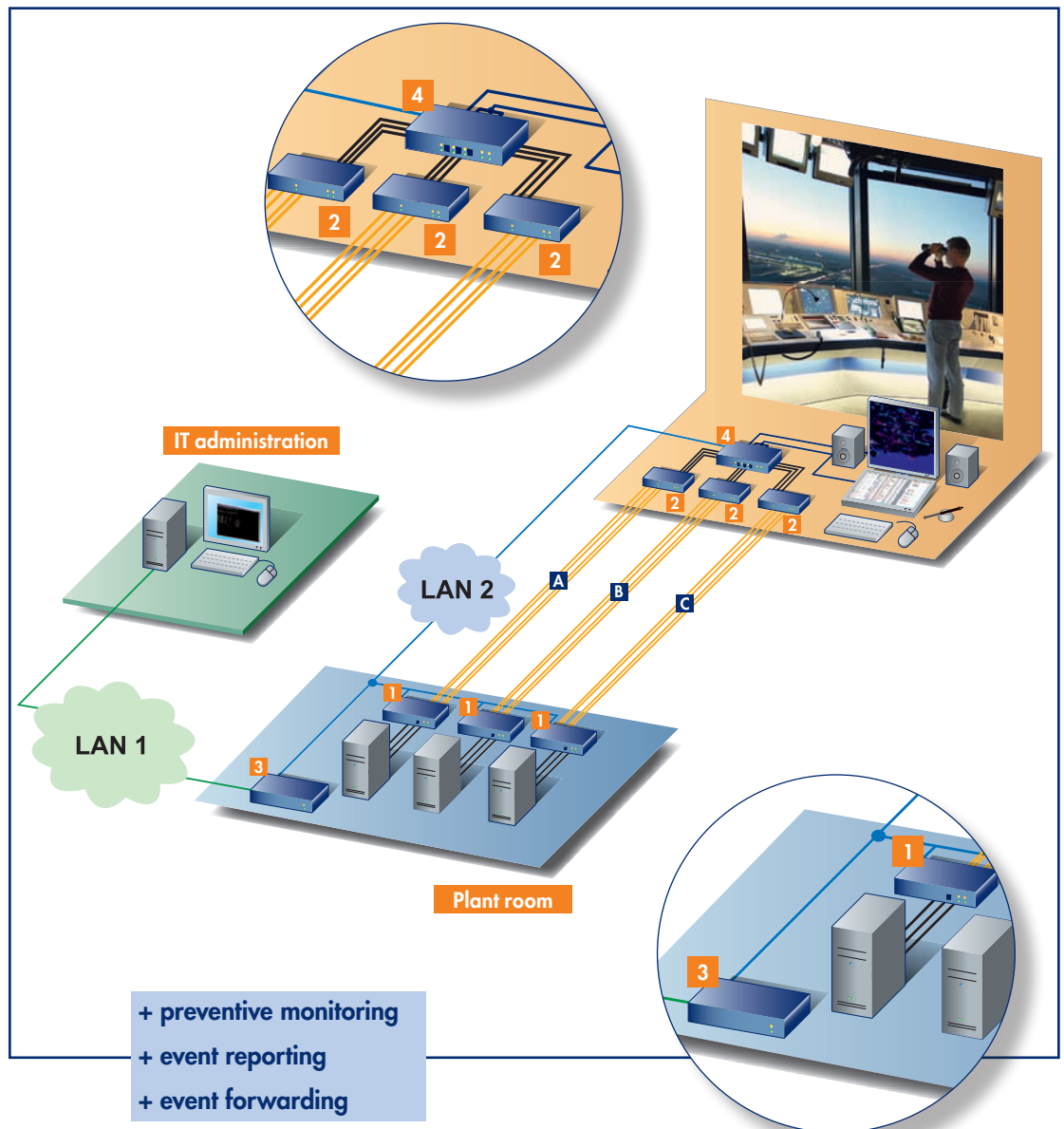
1 Computer module
DL-Vision-
MC2-AR-CPU

2 User module
DL-Vision-
MC2-AR-CON

3 Device monitoring
DevCon-Center

4 Switch
DL-MUX4-MC2

A Primary system
B Redundant system
C Fallback system



Example

In air traffic control the removal of highly available computers is done by KVM Extenders [3 lines (1 x operative, 1 x redundant, 1 x fall-back) with switchover] and supervised via a DevCon-Center.

Besides improving the working environment for both controller and computer, a preventive monitoring- and event-reporting system is installed. Consequently, the responsible IT department is enabled either to gather information about all connected networkable KVM devices at any time or to receive critical status messages automatically and upfront.

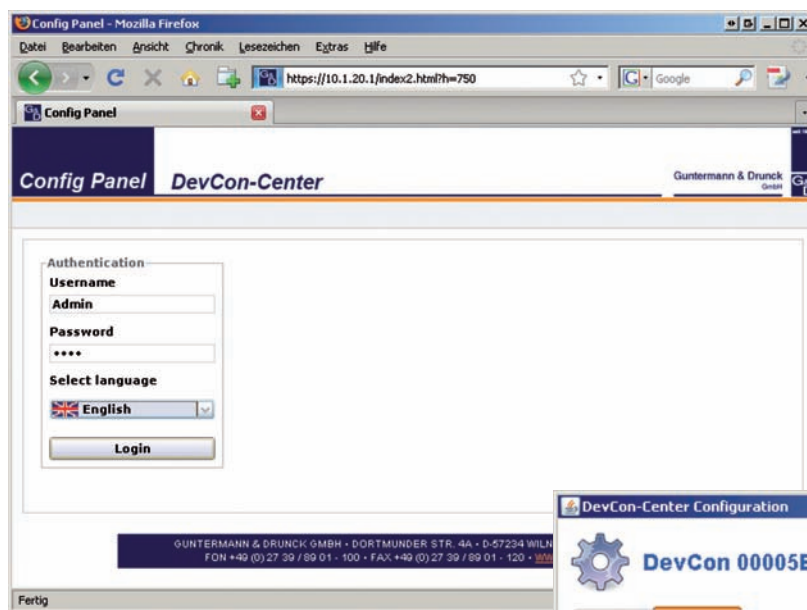
Depending on the event or any pre-defined threshold the DevCon dispatches a message to the IT administrator via network. Thus, active monitoring puts the administrator in a position to react even before an error arises.

Configuration via web interface

The DevCon-Center and the devices connected to it are configured in the „Config-Panel“ web interface. Here you can adjust any settings regarding the device or the connection to the network. The access is password-protected. The web interface is available in German and English.

The following sections can be configured:

- authentication against directory services (LDAP, Active Directory, RADIUS, TACACS+)
- time synchronisation via NTP server
- log messages can be sent to syslog server
- SNMP monitoring of computers and network devices
- netfilter rules



The DevCon-Center stays in direct contact with the connected devices and queries their status or receives messages and transmits them accordingly. Thus active monitoring becomes possible.

Logbook

The web interface provides an intelligent electronic logbook. This logbook can be used, e.g. to note future tasks and assign them with a status or to store comments regarding the device. Any logbook entries can be exported as .csv file.

◀ Figure:
Login mask of DevCon-Center web interface

Within the configuration menu all connected networkable KVM devices can be given unique names for easy identification.

Configuring the network settings the user can define netfilter rules, activate the support of a central NTP server and adjust the authentication type.

Furthermore storage locations as well as log levels for syslog messages can be pre-defined within this menu.

SNMP functionality facilitates external querying of the SNMP agent by using an appropriate MIB file. The version SNMPv2c and v3 are supported. Additionally the forwarding of SNMP traps is integrated in the DevCon-Center.

▶ Figure:
Network configuration of DevCon-Center



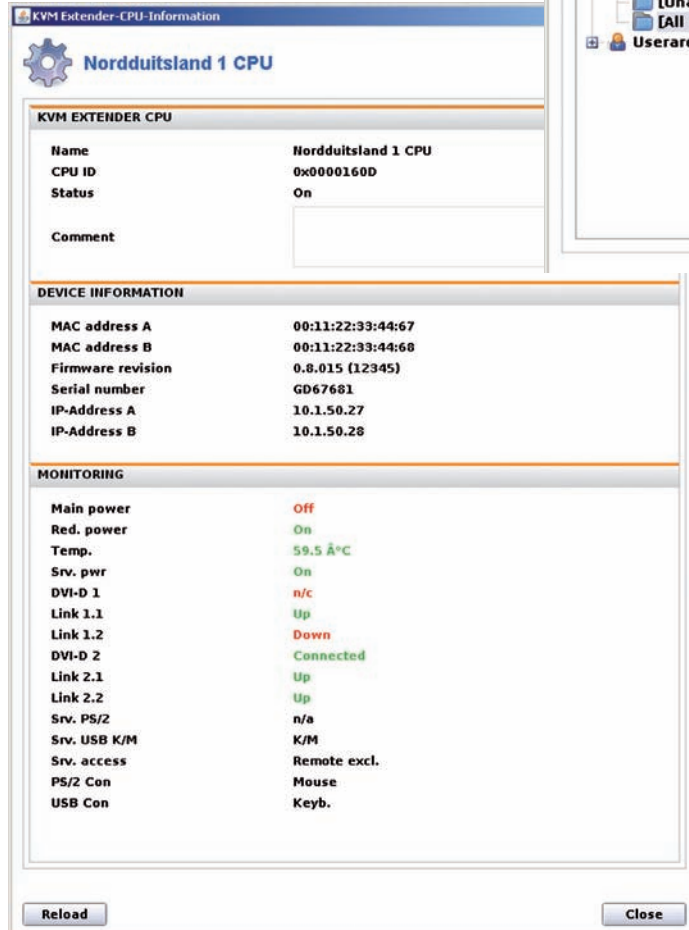
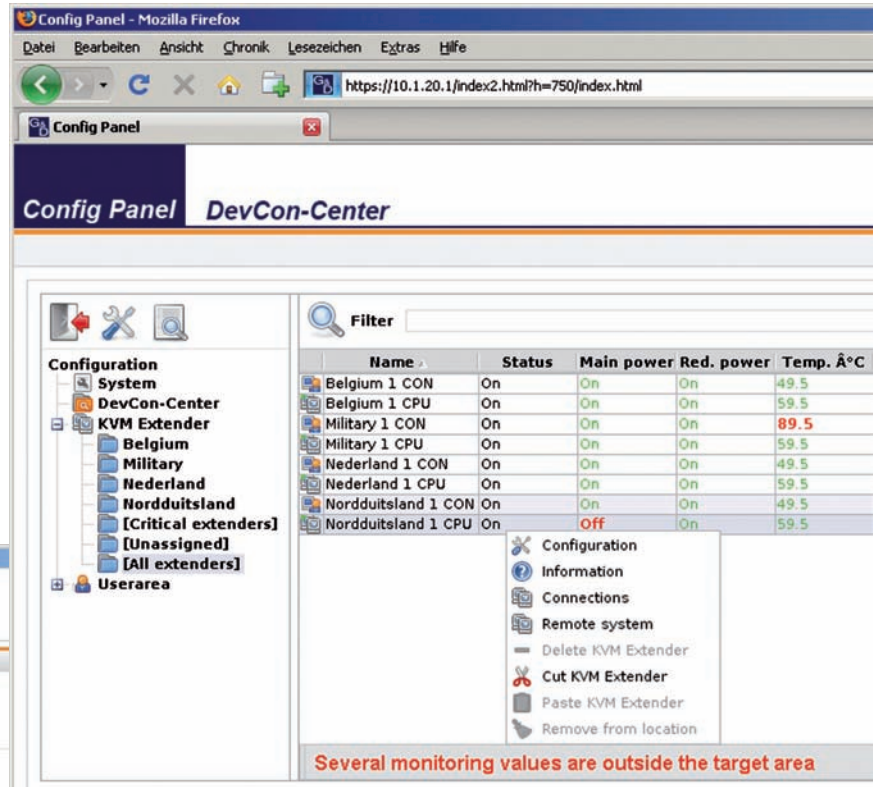
Monitoring the device status via web interface

The „Monitoring“ feature enables the detection of device status information. The information is displayed in the web interface of the devices.

All devices connected to the DevCon-Center are visualised in this tree structure.

New sectors can be created and devices can be grouped into these sectors. The default folder [Critical extenders] automatically extracts a copy of all devices with critical values allowing a fast and targeted access.

All values that differ from the target value are highlighted in red. Furthermore, the lower status bar of the web interface gives out a warning for each window as soon as a defined critical value is reached.



In addition to the overview (figure above), the values of all devices are also displayed in their device info card.

Among other things, the following status values are provided:

- main power supply – device
- redundant power supply – device
- power supply – computer
- DVI video input connection 1
- DVI video input connection 2
- uninterrupted transmission on all transmission cables
- access preemption for CPU or CON side

Figure left:
Device info card of a DL-Vision-MC2-CPU KVM extender monitored by a DevCon-Center

		DevCon-Center
Technical data		
Interfaces for local workplaces		0
Workplace connection		via network
Network		
	Speed	10/100/1000 Mbit/s
	Ports	2
Update procedure		via web interface
Power supply		internal power pack
Main + Redundant	Type	
	Connection	Connector for non-heating devices (IEC-320 C14)
	Voltage	AC100-240V/60-50Hz 220-110mA
	Power consumption (operation)	14.2-14.8W
Casing		
Material		anodised aluminium
Dimension	W x H x D	
	Desktop	435 x 44 x 210 mm
	Rackmount	19" x 1HE x 210 mm
Weight		approx. 2.7 kg
Operation environment		
Temperature		+5 to +40 °C
Air humidity		< 80%, non-condensing
Interfaces		
	Network A	RJ45 socket
	Network B	RJ45 socket
	USB 2.0	2 x USB-A socket
	Communication RS485	RJ45 socket
	Communication RS232	RJ11 socket
	Service	Mini-USB type B
Conformity		CE, RoHS

Minimum system

The DevCon-Center is a stand-alone device. Its deployment makes sense if it is used with other networkable G&D KVM devices equipped with the DevCon support.

Components

DevCon-Center

Item no.	Description	
A320 0008	DevCon-Center	Central monitoring and reporting appliance for networkable G&D devices; desktop, incl. 19" rackmount kit, 435 mm/1U

Connectivity

Two-metres-long power supply cables are generally included.

When ordering, please quote the article number and product description.

ABBREVIATIONS

CPU = Computer module
PC = Computer module

CON = User module
REM = User module

MC2 = Multichannel 2
MC3 = Multichannel 3
MC4 = Multichannel 4

M = Multimode
S = Singlemode
RM = For assembly in a 19" rack

A = Audio
AR = Audio + RS232
R = RS232
U = transparent USB 1.1
U2 = transparent USB 2.0
D = Delay

EQUIPMENT FEATURES



= keyboard/mouse



= dual-link DVI video



= single-link DVI video



= single-link DVI + VGA



= VGA video



= Audio



= RS232



= USB 1.1



= USB 2.0



= Delay



= Screen Freeze



= Power Switching



= Fire Wire



= VT100



= KVM IP access



= Network connection



= Web interface



= DevCon support



= Monitoring



= CAT cable



= Fiber optics



= Single user



= Multi user



= Separat local/remote user