

international airport review

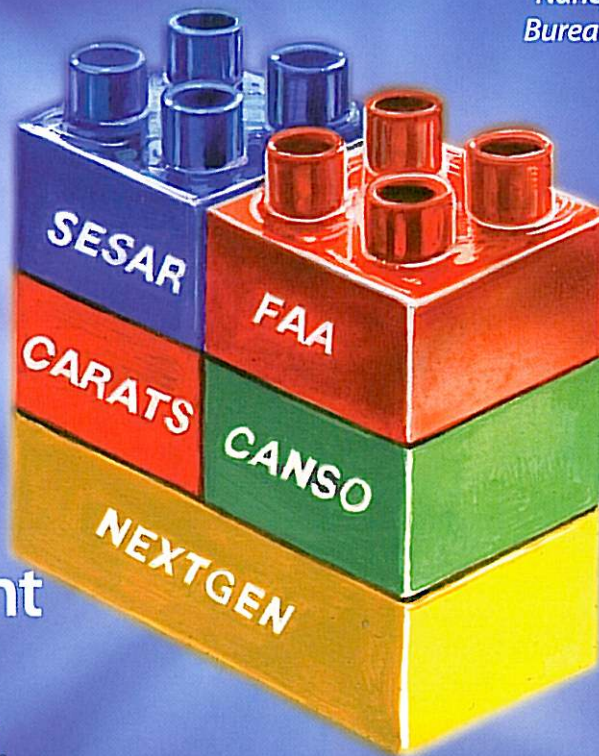
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Building global Air Traffic Management – ICAO's Aviation System Block Upgrades

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Airport IT Supplement

*Featuring articles from:
Christian Poulsen, CIO
and Technical Director of
Copenhagen Airports and
Wayne Smith, Head of
Information Services at
Birmingham Airport*

Extinguishing confusion – Worldwide fire and rescue harmonisation

*Jack Kreckie, Regulatory Affairs
Officer at the Aircraft Rescue and
Firefighting Working Group*

sell 1985

Guntermann & Drunck
GmbH

ATCO's hidden friend - KVM

ATC staff and IT play a crucial role for smoothly and safely running processes within air traffic management. Guntermann & Drunck, a leading manufacturer of KVM products, provide access tools for mission-critical applications within Air Traffic Control. KVM adapts to the needs of different ATC requirements and offers on top certain safety functions to ensure high availability for ATCO's IT tools.

- ◆ Screen-Freeze function (capturing video information in case of failure of video signal)

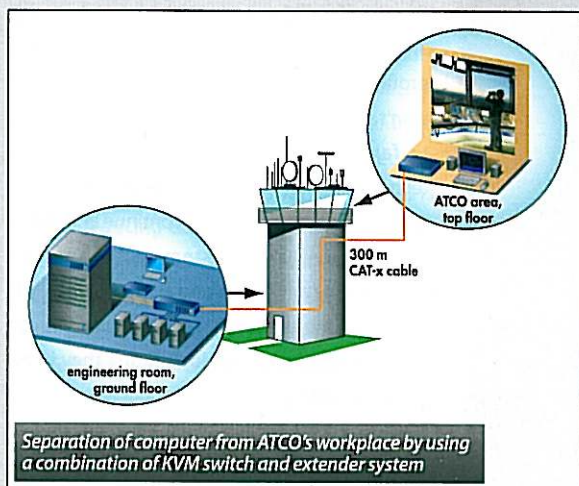
'Screen Freeze' function

This is a new and unique feature to the market in G&D KVM extenders. KVM extenders stretch the distance between computer and user by removal of the computer into server rooms. If video information is lost due to an interruption of the transmission line or a breakdown of the graphics adaptor in the computer, the 'Screen Freeze' function captures and 'freezes' the last available video information. The ATCO, however, is still able to view information about the last status of the sector until the system is up and running again or a fallback system is activated.

Bridging distances and switch over

There is a second product classification making the ATCO's life easier: KVM switches. It connects several computers at the same time and allows operation over one set of monitors, keyboards and mouse. With the KVM matrix switch multiple users, each equipped with

keyboard, mouse and display, are permitted to simultaneously access a series of computers, even using different platforms. In addition to keyboard, monitor and mouse, they can also switch audio. The devices are configured over web interface or on-screen display, which is operated using a menu or keyboard hotkeys.



preventive monitoring of the status of devices. Event messages are distributed via networks and are enabled to create multiple redundancies.

Since safety is paramount in the aviation industry G&D's safety features for the ATC industry include:

- ◆ Event reporting functions (interferences, temperature, operating condition)
- ◆ Permanent monitoring of the computer video signal with reporting function
- ◆ Simple network management protocol (SNMP) and Syslog messages
- ◆ Integrated self-monitoring power packs

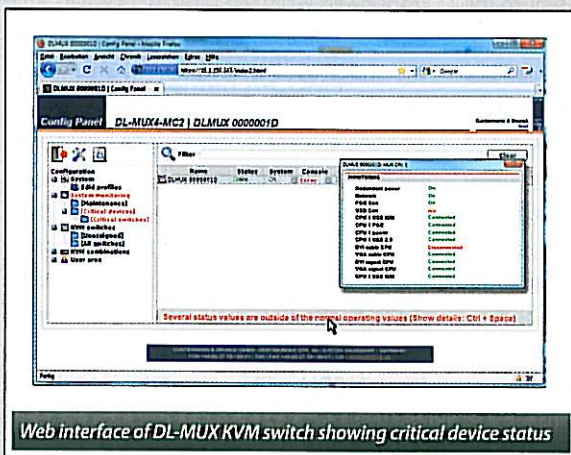
Solutions at work

G&D solutions extend and switch the standard computer interfaces in real time over existing cable infrastructure without any loss of quality. The transmission is not based on a network protocol but can be carried out over the existing structured cabling – either over CAT-cable or fibre optics. Depending on the cable medium in use, distances of up to 10,000m can be achieved.

Meeting the demands in air traffic control, G&D products support high resolutions for current display technologies from VGA up to DVI dual link – also as multi-video channel variants.

Safety within the operation

KVM products from Guntermann & Drunck support mission-critical applications by



<http://atc.gdsys.de>