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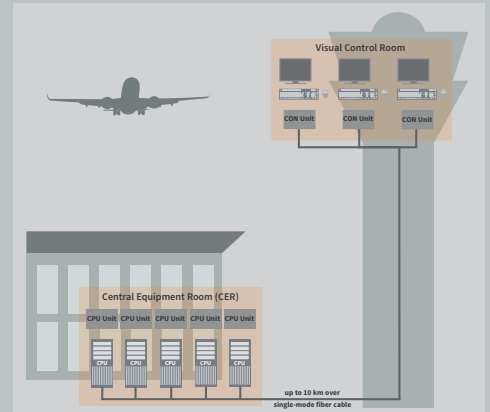
KVM IN  
AIR TRAFFIC MANAGEMENT  
AND AIRPORT OPERATIONS

## Access any device, instantly

Information is crucial to safe and efficient air operations. IHSE KVM technology transports real-time data throughout the entire air traffic control and management process, enhancing safety and operational efficiency from take off to landing, and beyond.

IHSE systems deliver critical data to control towers, aid ground and air personnel training, assist with baggage handling and inform passengers through terminal information and signage.

All with multiple-levels of system redundancy, back-up and failsafe operation to ensure continuous, mission-critical operation.

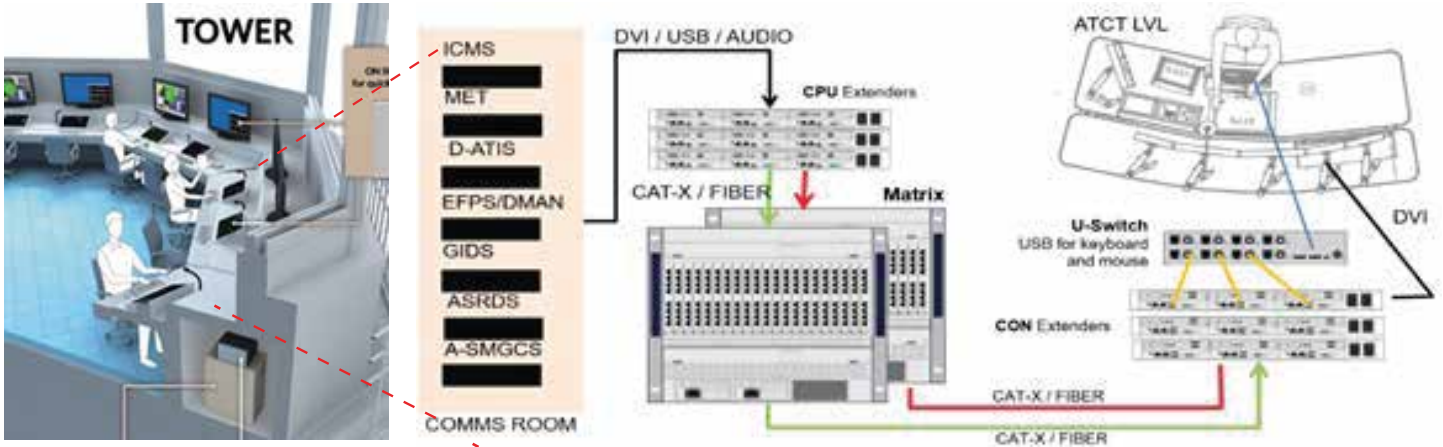


## Key Features and Benefits of KVM Extenders & Switches

- ✓ **Reliable extension**  
IHSE KVM extenders connect computers to user workstations over distances of 140 m with copper cables and up to 10 km using fiber connections.
- ✓ **Instant switching**  
Switching between sources occurs with no latency, ensuring that operators are not faced with blank or frozen screens and do not miss vital information.
- ✓ **Redundancy and backup**  
The Draco tera's fully-redundant KVM system architecture provides fail-safe, auto-switching, back-up connections to ensure continued operation in the event of system failure of any component.
- ✓ **Administrator control and management**  
Extensive set-up, control and system monitoring meets all operational requirements.
- ✓ **Continuous operation**  
Designed for 24/7 continuous operation with hot-swap capability enabling component replacement without system shut-down.
- ✓ **Visually lossless image distribution**  
With no image degradation or loss, operators see the whole picture, all the time.
- ✓ **All video formats**  
Support for all current video formats and resolutions, including 4K/60Hz and above. IHSE maintains a future-proof product portfolio strategy.
- ✓ **Matrix grid expansion**  
Switches can be interconnected under a single management system to extend the scope of the system.
- ✓ **Multi-screen control**  
Operators can control several independent CPUs and monitors with a single mouse and keyboard; reducing confusion and desk clutter.

# KVM FOR AIR TRAFFIC CONTROL SYSTEMS

## Air Traffic Control Tower Setup



## KVM in Control Centres, Training and Simulation

### KVM EXTENDERS

Extender units connect keyboard, mouse & display.

Video and data signals are connected via Cat5e/6 or fiber optic cables to the CPU or servers direct or through a KVM switch.

### MULTI - SCREEN DISPLAYS

Up to 8 windows can be displayed on a single LCD

### VIDEO FOLLOWS USER

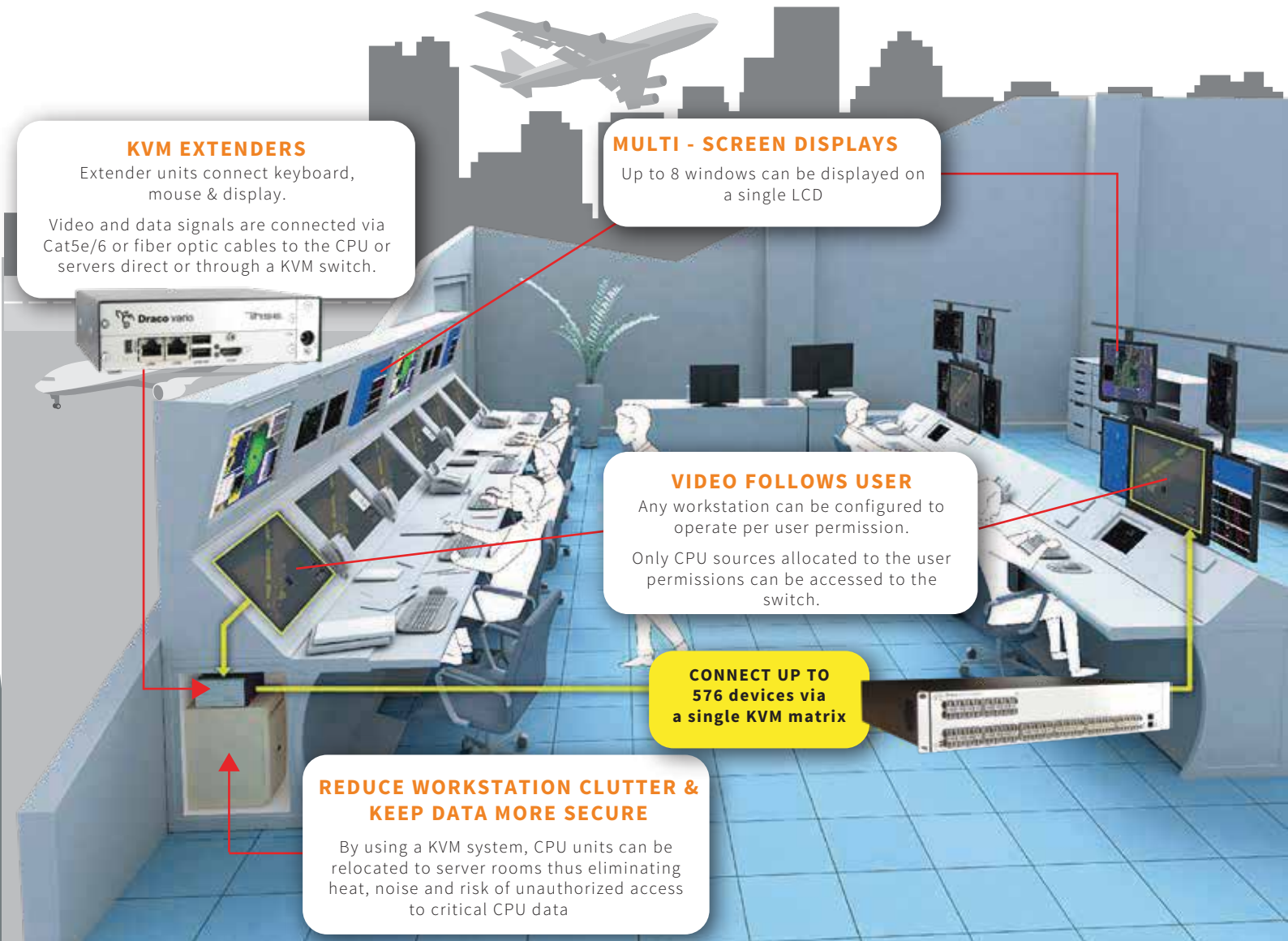
Any workstation can be configured to operate per user permission.

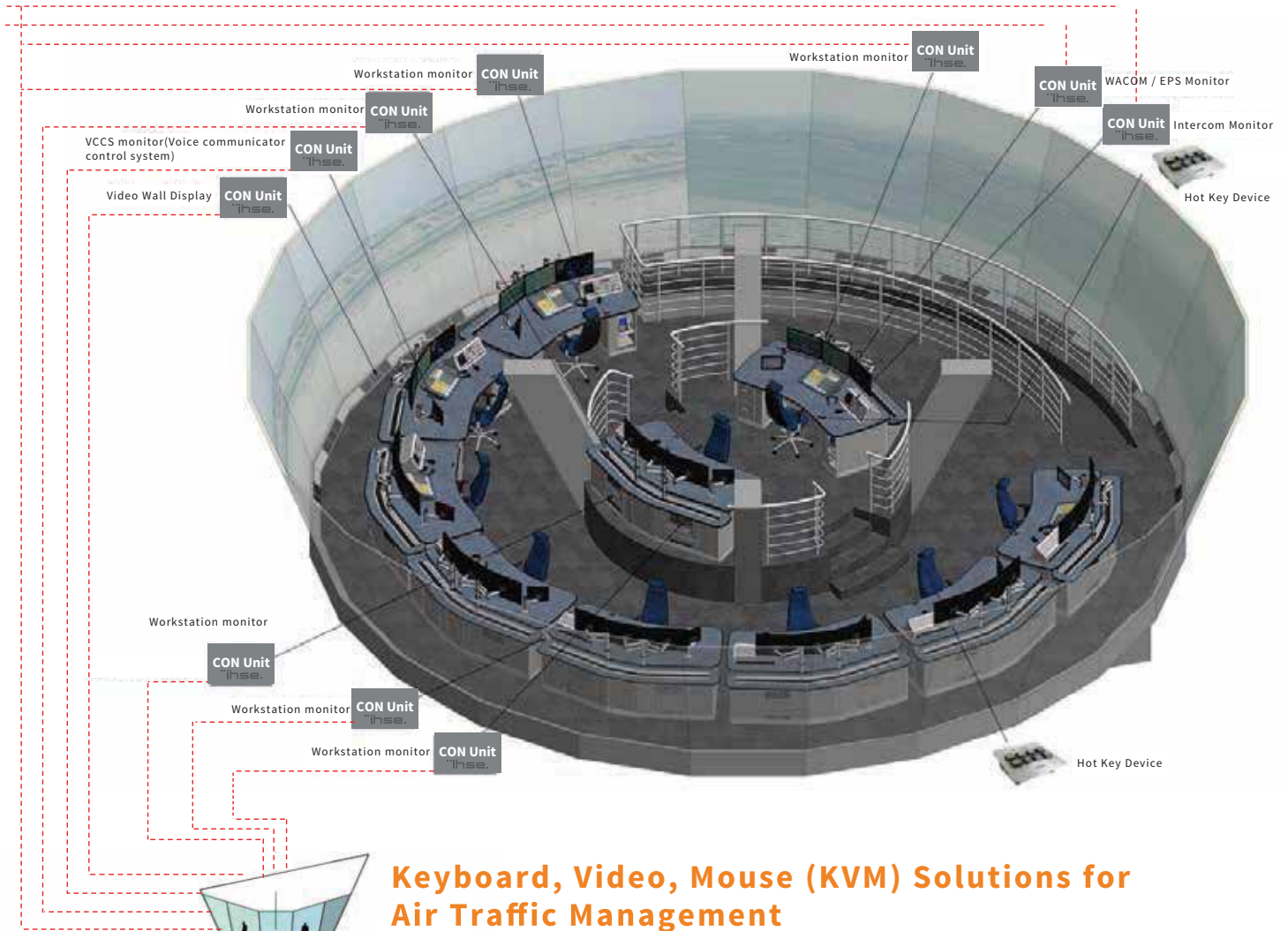
Only CPU sources allocated to the user permissions can be accessed to the switch.

CONNECT UP TO 576 devices via a single KVM matrix

### REDUCE WORKSTATION CLUTTER & KEEP DATA MORE SECURE

By using a KVM system, CPU units can be relocated to server rooms thus eliminating heat, noise and risk of unauthorized access to critical CPU data





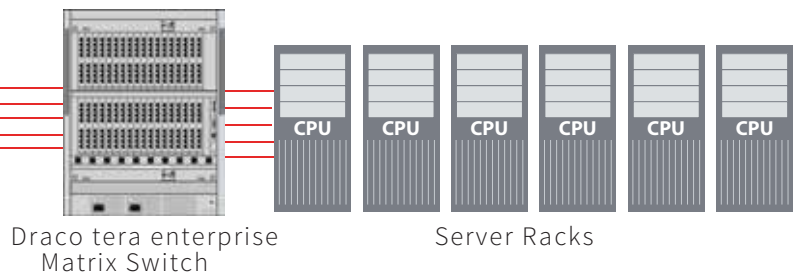
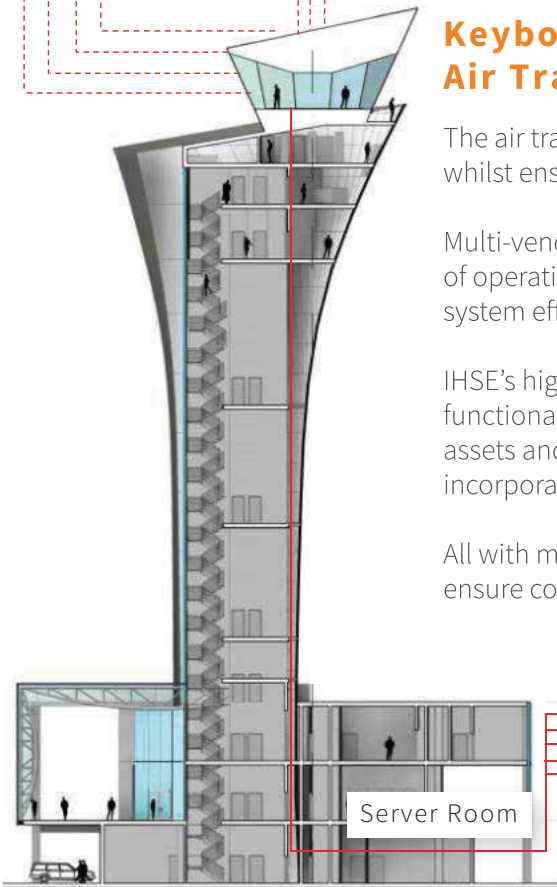
## Keyboard, Video, Mouse (KVM) Solutions for Air Traffic Management

The air traffic industry is constantly seeking ways to improve operational efficiency whilst ensuring total operational safety, all within budgetary constraints.

Multi-vendor solutions with mixed display resolutions and video formats, a variety of operating systems and multiple applications can adversely affect operator and system efficiency.

IHSE's high performance KVM extenders and matrix switches bring new levels of functionality and capability to ATM operations; maximising the return of existing assets and enabling new ones to be seamlessly incorporated into the infrastructure.

All with multiple-levels of system redundancy, back-up and failsafe operation to ensure continuous, mission-critical operation.





## KVM around the Airport

### Concourse passenger information

Transmission of audio and video signals around the concourse for passenger flight information and emergency messaging.



### ATC operations

Separate user workstations from noisy, heavy equipment for an enhanced environment and increased efficiency.



### Ground operations

Vehicle movement control, training and airport administration.



### Security

Connection of remote video cameras and surveillance devices for visual observation of airport facilities and perimeter.



### Digital signage

Passenger entertainment, advertising and general information.

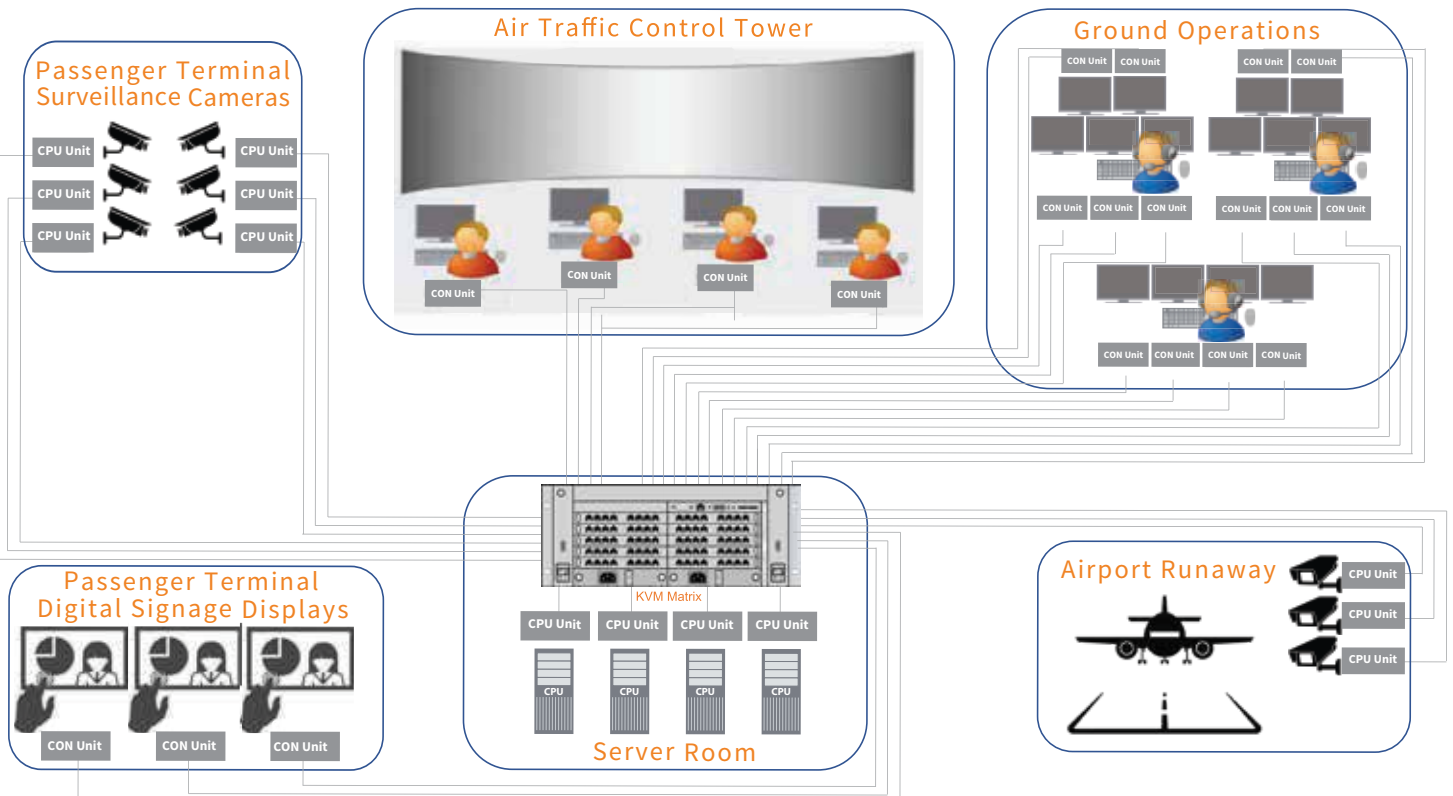


### Data centre

Secure, reliable and instantaneous access and switching of computers.



## Airport KVM Application



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