

Client:



Kategorie: Security center, Critical infrastructures.

## Control room secures the clinic operation behind the scenes



JST control room: Green AlarmLight at workstations and large screen wall - a signal for trouble-free system operation. If the PixelDetection® software detects deviations, the operators in the control room of Charité CFM Facility Management GmbH are alerted by flashing red light and acoustic signals.

“We make Charité possible” is CFM’s declared guiding principle. If you take a look at the fields of activity of the control room, it soon becomes clear how much truth there is in it: Heating, ventilation, drinking water, wastewater, electrical systems and elevators are just a small part of the huge range of tasks. They also include fire alarm systems and the coordination of disaster situations.

### 7.500 fault reports in a single day

Data from all the facilities of the three Berlin Charité campuses converge in the control room, where they add up to the incredible amount of 7.500 messages on average – per day! A number that no human eye can keep track of and classify in the time required to initiate suitable measures in the event of a malfunction.

## Software takes over the monitoring in the background

This is where the JST PixelDetection® monitoring software comes into play. Thanks to predefined reference values, the system detects deviations and actively reports them to the operator. Marvin Volbert, who implemented CFM's control room project as head of technical systems, comments: "PixelDetection® really makes sense with the large amount of fault messages we receive. There are applications that we don't look at permanently, but we need to know that if there are deviating set points, an audible or visual alarm will come immediately. The software has allowed us to significantly improve our response time."

## New ergonomic quality created

But there are other obvious optimizations: The conversion of the control room, which was realized in two construction stages without any restrictions on ongoing hospital operations, creates a new ergonomic quality as a contribution to "Hospital 4.0". It is worth taking a look at the former control center: An analog mosaic wall represented the medium-voltage network for the central campus. At the workstations, each system was given its own screen; with the result that up to eight displays were monitored per employee. Each operator used four mice and four keyboards for his tasks.

Charité CFM Facility – control center before and after renovation

## Consoles and screens significantly reduced

This work situation came to an end with MultiConsoling® technology from JST. As a real-time control center, the system enables the flexible display of all applications on the desired screens – independent of operating systems. After just the first few months with JST MultiConsoling® technology, Marvin Volbert can confirm: "We now flexibly switch on the systems that we want to see depending on the situation – with just one mouse and keyboard. Three screens at the workstation and the large-screen technology provide a perfect overview."

## Clinic operation benefits from technical options

The various options offered by the MultiConsoling® system in combination with the interactive myGUI® user interface are also appreciated by the hospital control room team. For example, selected applications can be switched on automatically at set intervals on a rotating basis. In the break room, there is also a screen including a so-called CommandPad®, which is used to access the applications of the control room via touch operation. "This means that our colleagues can keep an eye on all the important systems even during their break," says Marvin Volbert.

## Contemporary workplaces as an additional incentive

For the project manager, it is clear that the modernization has significantly improved the efficiency of the Charité control center and, looking to the future, has also prepared the way for upcoming expansions of the clinic's operations. In addition, the modern workplaces are "an additional motivation for potential applicants" in terms of attracting new specialists, says Volbert.

### Virtual 360° tour



**„PixelDetection® software has allowed us to significantly improve our response time.“**

**Marvin Volbert (left) // Ibrahim Celen**

Head of Technical Facilities CÜ Charité CFM Facility  
Management GmbH // Deputy

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The components used in this project:



**DisplayWall** with special S-PVA panels for reliable 24/7 operation - optional with proactive alarm function



**MultiConsoling® System** – complete control room system for workplace, monitor wall and other systems



**myGUI® user interface** - in the intuitive 3D design of your control room for maximum user comfort



**Stratos X11® control room desk** – optional with height adjustment and proactive AlarmLight system

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**PixelDetection®** – proactive alarm software to shorten response times





**JST CockpitView®** – dashboard function to compile the most important systems on one monitor

**Planning /3D planning** – architecture, ergonomics and technology from a single hand

**Surrounding furniture** – individually manufactured solutions “Made in Germany”

**ControlRoom-Automation** – secure and fast processing of alarms

**CommandPad®** – efficient system control at the touch of a finger

**Audio-System** – for acoustic signals and alarms

**GrabberIP** – dial in across locations

**PSM Proactive System Monitoring** – monitoring of all devices based on permanent status and diagnostic data

### **Other projects with a similar task**

A photograph of a modern control room. In the foreground, a desk is equipped with several computer monitors. One monitor displays a colorful map, while others show data and text. A person is seated at the desk, facing the monitors. The background features a large wall of multiple monitors displaying various video feeds and data. The room is dimly lit with blue ambient lighting.

**protec service GmbH, Hannover**

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