

INTELLIGENT BUILDINGS & SMART SPACES

Customer Success Story

Schwabenhof Commercial/Office Complex Heilbronn, Germany

Intelligent HVAC Management

The *Schwabenhof* commercial/office complex in Heilbronn, Germany, referred to as the TRIPLE, consists of three four-story buildings. These modern buildings offer tenants exceptional location, sleek modern architectural design, and advanced efficient functionality. The high-quality, durable materials used in the building facade reflect the superior property standards. In addition, the buildings boast advanced technical capabilities such as radiant heated/cooled ceilings, sunscreens, and solar systems which meet sustainability and functionality requirements. With a convenient, bright, and spacious underground car park including electric car charging stations, the TRIPLE is as efficient as it is visually stunning and appealing.



Key Points

- **Web-based accessibility empowers facility managers to visualize, monitor, and control HVAC systems remotely via laptop, tablet, or smartphone using GENESIS64 and WebHMI.**
- **Intuitive, real-time visualization through a flexible GUI enhances situational awareness, allowing operators to identify, diagnose, and resolve issues quickly.**
- **Energy optimization and regulatory compliance are achieved through advanced data analysis and control, improving system efficiency and reducing environmental impact.**

Project Summary

The organization responsible for managing the Schwabenhof complex sought a partner to design and implement a technologically advanced automation system to monitor and control the buildings' HVAC systems. Moreover, the building management team requested a special network design, so their operators and management team could easily understand the building statuses in real time to allow them to quickly respond to and address issues.

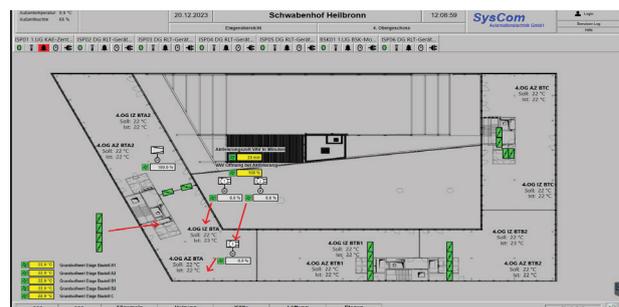
After winning the contract, system integrator [SysCom Automationstechnik GmbH](#) began work on the project, bringing decades of experience in intelligent automation systems for buildings and plant technology. SysCom specializes in integrating diverse systems and interfaces into unified control platforms that optimize energy use and support environmentally responsible operations. Also, as a longtime certified system integrator with Mitsubishi Electric Iconics Digital Solutions, SysCom deployed GENESIS64 software to serve as the foundation of the building automation system.

Mitsubishi Electric Products Deployed

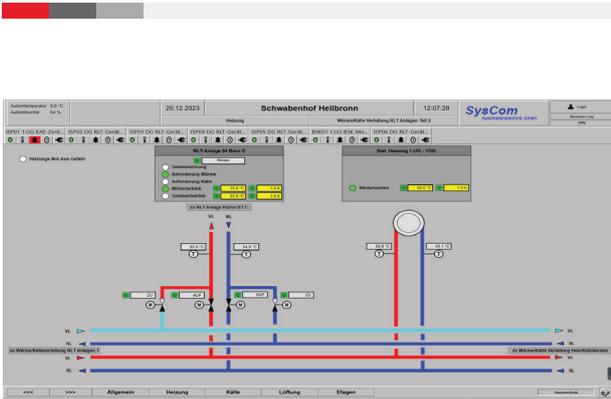
- **GENESIS64™**
- **WebHMI™**
- **BACnet Connector**

Realized Benefits

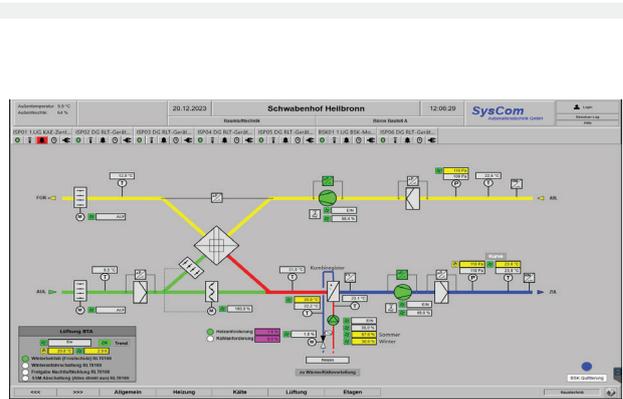
The TRIPLE's state-of-the-art heating, ventilation, and air conditioning (HVAC) systems are visualized, monitored, and operated using Mitsubishi Electric Iconics Digital Solutions software. In fact, SysCom used GENESIS64 to create a graphical user interface (GUI) for the HVAC system that is accessible from a central control station or remotely via a web browser. Using WebHMI, the building operators and facility management can access the HVAC system from any location with their devices such as laptops, tablets, or smartphones. Additionally, the BACnet Connector enabled SysCom to connect the BACnet controllers of the HVAC system to the GENESIS64 application and use the data for visualization and control.



Floor Details



Hot and Cold Water Distribution System Overview



Ventilation System Dashboard

Furthermore, switching between configuration and runtime is simple and sensibly implemented. GENESIS64 is an extremely stable system that is easy to configure and quick to use. The platform offers a wide range of possibilities (e.g., simple color changes) and is extremely flexible and powerful. New employees quickly find their way around the application to respond to customer requirements and requests efficiently and successfully.

In particular, using GENESIS64 to manage the Schwabenhof office complex's HVAC system has delivered the following key benefits:

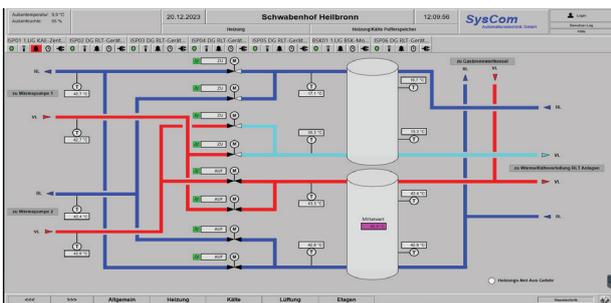
- **Improved visualization and control:** GENESIS64 provides a comprehensive and intuitive GUI for the HVAC system, allowing users to see the status and performance of the system, adjust settings and parameters, and troubleshoot any issues. The GUI also displays graphical elements such as floor plans, diagrams, meters, and alarms, which enhance the user experience and situational awareness.
- **Increased flexibility and accessibility:** The web-based WebHMI solution allows users to access the HVAC system from any device and location. This capability increases flexibility and convenience for users, who can monitor and control the system from anywhere without compromising safety or reliability.
- **Improved efficiency and sustainability:** GENESIS64 helps users optimize the operation and maintenance of the HVAC system, resulting in improved efficiency and sustainability. The software enables users to analyze the facility's data and trends, identify and resolve anomalies or faults, and implement energy-saving measures and strategies. The software also supports compliance with environmental and safety standards and regulations.

Conclusion

The building operator and facility management of the Schwabenhof office complex are extremely satisfied with GENESIS64 and SysCom's services and work. They appreciate the high-quality and user-friendly visualization and control of the HVAC system, which increases the comfort and productivity of users and staff. They also appreciate the flexibility and accessibility of the web-based solution, which allows them to access the system from any device and location. The operations and management team is impressed by the efficiency and sustainability of the system, which reduces the building's energy consumption and environmental impact. Lastly, they would recommend Mitsubishi Electric Iconics Digital Solutions software and SysCom Automationstechnik GmbH to anyone looking for a reliable and innovative solution for their HVAC system.

“The visualization capabilities provided by the GENESIS64 software allow us as the operator/ landlord of the property to access all relevant building parameters at any time and thus improve the satisfaction of our tenants and users.”

Moritz Weeber
Managing Director
Geschwister Langer GmbH & Co KG
Immobilienbestandshalter



Hot and Cold Water Storage System

MITSUBISHI ELECTRIC ICONICS DIGITAL SOLUTIONS

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