

# Nuremberg Exhibition Center

Seamless integration optimizes automation at Germany's premiere venue



The state-of-the-art Nuremberg Exhibition Center

The Nuremberg Exhibition Center (NürnbergMesse) is one of the largest and fastest-growing exhibition centers in Germany. The primary goal of the Nuremberg Exhibition Center is to provide a premiere exhibition venue for its clients and guests.

Various trade fairs, congresses and special events attracting attendees from around the world take place each year in Nuremberg. The center has grown continuously since its opening in 1974 and today has all the features of a world class exhibition and congress venue.

## The Challenge

The Nuremberg Exhibition Center was seeking a building management system that could accommodate their multiple needs. These included integrated climate and energy systems from numerous vendors across multiple buildings, standardized operational functionality, as well as flexibility for future expansion, all without being locked into a single vendor or hardware platform.

## The Solution

The Nuremberg Exhibition Center chose CitectFacilities to meet their building automation requirements. A local valued integration partner designed and installed CitectFacilities to centrally monitor and control climate and energy metering for the center's multi-site venues.

CitectFacilities' high connectivity, particularly the use of open protocol BACnet, promotes the seamless integration of facility systems and equipment from a diverse range of vendors: Siemens, Sauter, Honeywell, Saier, Kieback & Peter and Johnson Controls. Drastically simplifying the building automation, CitectFacilities is now the sole visual, control and alarm interface for all on-site systems supplied by these multiple vendors.

CitectFacilities ensured that the Nuremberg Exhibition Center received an independent, open architecture building management system, providing maximum flexibility for the future.



## The Challenge

To install a centralized facilities management system that would:

- Accommodate site and system expansion
- Integrate multi-vendor systems
- Allow the freedom to choose future hardware/system vendors
- Standardize integration costs and operational practices

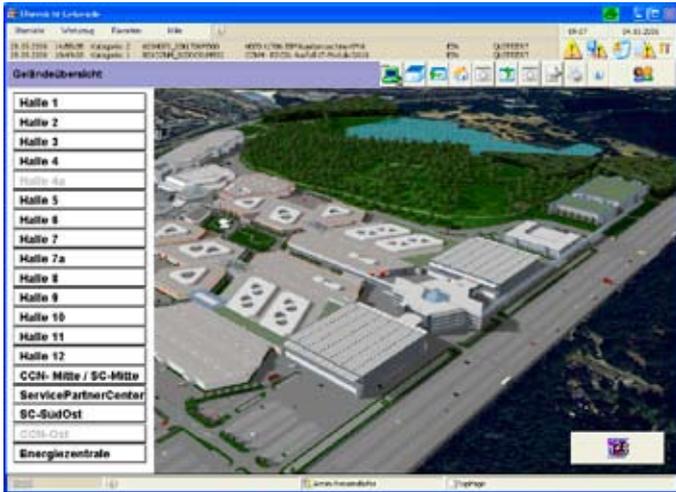
## The Solution

A single integrated building management solution that fulfills all of the Nuremberg center's demands. CitectFacilities' connectivity and open protocols provide seamless integration of facility systems and equipment from a diverse range of vendors.

## The Benefits

The Nuremberg Exhibition Center now has integrated and optimized systems from multiple vendors across the entire site. The open and flexible CitectFacilities solution has reduced building automation costs. Furthermore, its high scalability easily accommodates any future expansion plans without limiting the vendor options.

# The largest multi-application building automation site in Germany



Visualization of the entire site



CitectFacilities ensures optimum conditions for exhibitors and visitors

The CitectFacilities solution at the Nuremberg Exhibition Center is the largest multi-application building automation system in Germany. Started in 1999, today the site has 43,000 tags communicating on the BACnet protocol. The installation uses nine CitectFacilities I/O servers and three display clients, with a response time of less than five seconds.

## The Benefits

With CitectFacilities, the Nuremberg Exhibition Center has been able to integrate and optimize systems, such as climate, energy and alarm management, from multiple vendors into a single control and monitoring solution across the entire site.

The standardization of operational functionality for systems and equipment from multiple vendors has resulted in higher staff productivity, more efficient operational performance, as well as lower system maintenance and operating costs.

The open and flexible solution ensures the Nuremberg Exhibition Center can integrate additional systems with lower installation costs.

The central, consistent, monitoring and control solution provided by CitectFacilities has also reduced current system maintenance and building automation costs.

## Statistics

Operating system	Windows XP
Real-time variables	43,000
I/O Servers	800
Data Servers	1
Display Clients	3
I/O devices	44
Advanced Alarms	8,700
Historical Trends	7,500
Graphics Pages	2,095
PLC & DC Vendors	Sauter Micos Sauter Ey2xxx series Sauter EY3xxx series SAIA PCD series Johnson Controls Metasys Siemens PX



“Combining the different systems into an integrated concept is smooth and easy with CitectFacilities. This ensures the long-term protection of our investments as we are free to implement additional multi-user applications as needed, with seamless interoperability.”

Stefan Winkelmann,  
Technical Coordinator,  
Nuremberg  
Exhibition Center

For more on automation solutions visit [www.citect.com](http://www.citect.com)