



CUSTOMER CASE STUDY

City of Bremen Cuts Energy Consumption and Consolidates Building Management with AVEVA Solution

City of Bremen, Germany
Industry - Infrastructure

Goals

- Unify more than 1,200 municipal properties under a single, open building management system (BMS)
- Optimize the efficiency of heating systems in the buildings to cut energy consumption

Challenges

- The buildings were running a proprietary BMS from several different vendors
- The properties were managed at six control facilities located around the city under the direction of five geographical districts and regional supervisors

AVEVA Solution

- InTouch® HMI for Terminal Services
- ActiveFactory™
- Historian
- Customer FIRST Support

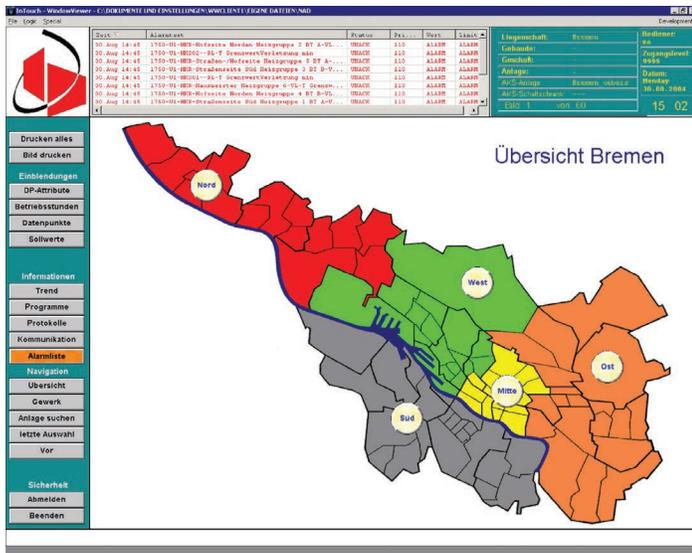
Results

- An open BMS based on the AVEVA solution is in place, centralizing the management of the extensive property list (160 facilities in all)
- Regional supervisors all now have access to the BMS
- Energy consumption is down by 15% to 18%
- Assumed cost saving of more than €30,000 (US\$ 43,000) per year
- Adding buildings to the system is simple and more efficient due to the extensibility of the AVEVA software

BREMEN, Germany – When the City of Bremen needed to modernize the heating systems in several of its buildings, it analyzed the project and realized an opportunity to do more. Besides improving energy efficiency, there was the potential to implement a new building management system (BMS) that would bring greater control and provide far-reaching positive effects across the city’s extensive portfolio of properties.

“As our regional supervisors can now access all heating systems from a central location, they will be able to successively optimize the systems one by one.”

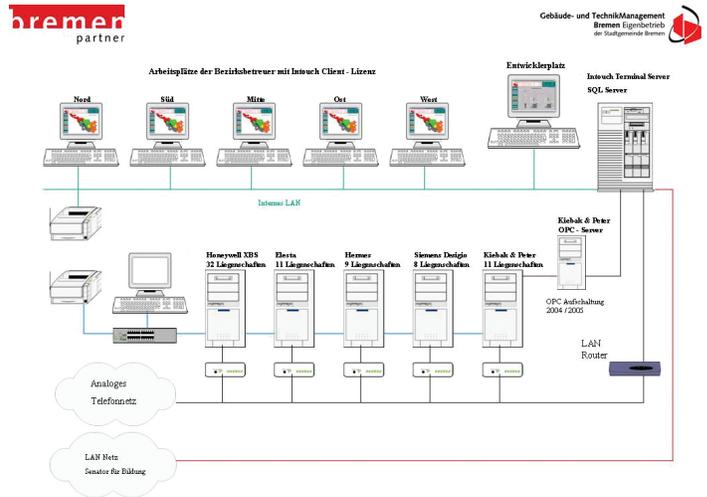
Rüdiger Heinenbruch,
 Technical Operations Manager, Immobilien Bremen



Developing a Centralized Concept

With more than 1,200 municipal facilities covering over 1.8 million square meters (nearly 20 million square feet) of floor space, the undertaking was not a small one. At the time, six control stations across the city were running a variety of proprietary building control systems. Reporting and sharing information in a consistent format was a challenge for the five regional supervisors, and employees had to learn to operate each of the different systems. Plus, adding new buildings was complicated and costly.

“Immobilien Bremen, Anstalt des öffentlichen Rechts,” the city’s property service company, evaluated a number of software possibilities as well as a formal engineering study that analyzed the City of Bremen’s current technologies and its roadmap for the future. Immobilien Bremen determined that the AVEVA solution would meet the city’s requirements for an open, vendor-agnostic BMS that would consolidate the various existing systems under a single operator interface.



Building the Open BMS

With the decision made, Immobilien Bremen set to work to develop an open BMS that would meet all of the city’s needs.

The cornerstone of the new solution is the InTouch® Human Machine Interface (HMI) for Terminal Services which provides a common user interface across the entire City of Bremen BMS. This HMI provides an intuitive overall view of the building control system that can be seen by all operators and supervisors.

Regional supervisors working from any location can log onto the HMI and troubleshoot problems in real time at any of the City of Bremen’s buildings. InTouch HMI also sends alerts and alarms to individual workstations, so operators can take swift corrective measures, and supervisors have visibility to their actions.

