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Capgemini uniquely combined strategic vision and technological knowledge to be the ideal partner in this lighthouse project for connected buildings.”

Eike-Oliver Steffen,

Head Solution & Service Portfolio,
Siemens Building Technologies

Siemens Building Technologies leverages the Internet of Things to provide innovative analytics-based services for predictive maintenance, sustainability and energy management

Capgemini Consulting supported Siemens designing and implementing analytics-based services for connected buildings

The “Way of Siemens” is more than pure energy management. The use of Big Data and Analytics is exactly what today’s market expects.

Headquartered in Zug, Switzerland, the Building Technologies Division of Siemens is a leading provider of automation technologies and services for commercial, industrial and public buildings and infrastructures across their entire lifecycle. Essential applications include energy efficiency, automation, comfort, fire safety and security. The division offers products, solutions and services that optimize the energy costs, reliability, comfort and performance of buildings while meeting ecological and sustainability requirements. The Division has a broad customer base that includes owners, operators and tenants of public and commercial buildings as well as general contractors, system houses and original equipment manufacturers (OEM).

For the last decade, the market for commercial building automation has been changing significantly. The consolidation of suppliers and service providers drives commoditization, and innovations in the area of connectivity and applications enable new players to enter the market. To reaffirm its position as one of the world’s market leaders in building

Overview

Customer Name:

Siemens Building Technologies

Industry: Manufacturing

Location: Zug, Switzerland

Client Challenge/Business Need:

Provide world-class, innovative solutions for building technologies

Solution-at-a-glance:

Implementation of a comprehensive service platform for the IoT

Results (Benefits):

Strengthen Siemens’s leading market position; Up- and cross-selling opportunities; Improvement of Customer Systems availability; Decrease of maintenance costs

Capgemini Consulting Contacts

Dr. Leonardo Weiss Ferreira Chaves

Managing Consultant

+49 151 4025 1135

leonardo.weiss@capgemini.com

Frank Tennstedt

Vice President

+49 151 4025 2769

frank.tennstedt@capgemini.com

The Collaborative Approach:

The Collaborative Business Experience™ is central to the Capgemini philosophy and a pillar of our service delivery.

- A consequent, joint team-set up and a tailored, workshop-based working mode enabled everyone involved to work together in a time-efficient and solution-oriented manner.
- Knowledge holders, Business and IT, from ten locations globally including headquarters and subsidiaries, worked as one team.
- Together, we involved the right people at the right time and right location to develop one common, harmonized, standardized yet flexible approach to conceive and develop the new service platform.
- We used the latest digital tools to connect the global Siemens network with the international Capgemini Consulting network.

About Capgemini Consulting

Capgemini Consulting is the global strategy and transformation consulting organization of the Capgemini Group, specializing in advising and supporting enterprises in significant transformation, from innovative strategy to execution and with an unstinting focus on results. With the new digital economy creating significant disruptions and opportunities, our global team of over 3,600 talented individuals work with leading companies and governments to master Digital Transformation, drawing on our understanding of the digital economy and our leadership in business transformation and organizational change.

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About Capgemini

With 180,000 people in over 40 countries, Capgemini is one of the world's foremost providers of consulting, technology and outsourcing services. The Group reported 2014 global revenues of EUR 10.573 billion. Together with its clients, Capgemini creates and delivers business, technology and digital solutions that fit their needs, enabling them to achieve innovation and competitiveness. A deeply multicultural organization, Capgemini has developed its own way of working, the Collaborative Business Experience™, and draws on Rightshore®, its worldwide delivery model.

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technologies, Siemens decided to differentiate from competitors by providing innovative analytics-based services for connected buildings. The aim is to successfully respond to future global market trends that influence society's behavior as well as their demands regarding sustainability, comfort and efficiency.

Connecting buildings to provide analytics-based services requires thorough research, expert knowledge and detailed planning

Together, Siemens and Capgemini went through all steps from strategy and design to implementation of a comprehensive service platform for the Internet of Things.

Based on an initial analysis of market trends and requirements, we created and prioritized use cases as well as new innovative analytics-driven services around predictive maintenance, sustainability and energy management.

Siemens and Capgemini translated these services into individual building blocks – described as the business functions and specifications of the new platform. Furthermore, we defined the IT requirements and designed different IT architecture scenarios. Since a transparent customer installed base is essential for many services, we created a concept to harmonize it across different countries and products.

Based on these results we set up and managed the vendor selection process for the chosen architecture scenario. As part of the vendor selection process, we designed and managed a comprehensive proof of concept to validate key technical assumptions.

Finally, we supported the calculation of the business benefits and return on investment for selected offerings to identify “low hanging fruits”. After creating the target scenario, we developed a wave-based roadmap to implement this complex business and IT transformation project.

Results count – Siemens Building Technologies will strengthen its leading position, creating added value for building operators and investors

After the rollout Siemens Building Technologies will be able to differentiate from commodity providers through new services that optimize energy consumption, energy costs and sustainability, thus helping companies to achieve their sustainability goals against the backdrop of increasing energy costs and stringent government regulations. Furthermore, Siemens will be able to harvest insights from the harmonized global installed base for up- and cross-selling purposes and use analytics to optimize service performance.

The Siemens customer's system availability can be improved through remote fault detection and diagnosis, system availability increases through remote fixes as well as predictive maintenance. Besides these customer benefits the new service platform also decreases maintenance costs for Siemens by avoiding truck rolls through remote fixes and more efficient maintenance.

About Siemens Building Technologies:

The Siemens Building Technologies Division (Zug, Switzerland) is the world leader in the market for safe and secure, energy-efficient and environment-friendly buildings and infrastructures. As technology partner, service provider, system integrator and product vendor, Building Technologies has offerings for safety and security as well as building automation, heating, ventilation and air conditioning (HVAC) and energy management. With around 27,000 employees worldwide, Building Technologies generated revenue of approx. 6.0 billion Euro.

For more information on this project, please contact:

referenzen.ce@capgemini.com

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