

## Nominee: Emerson Network Power

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### Nomination title: Rapid Deployment of T-Systems' Strategic Modular Data Center

The construction of the Cerdanyola del Vallès data center in Barcelona is the cornerstone of T-Systems' consolidation and transformation program and allows the provision of cloud services across Europe. To fulfil T-Systems' expectations and meet their clients' business cases, a combination of requirements needed to be achieved for availability, reliability, security, scalability, transparency, efficiency and sustainability - plus a rapid deployment.

Emerson Network Power's technical expertise, including our deep domain knowledge in power, thermal management, modular construction and our service capabilities enabled us to complete a state-of-the-art, Tier III, twincore data center within nine months, versus the traditional 24-36 months generally estimated for a stick-build construction.

Specially designed and built in Emerson Network Power's dedicated Integrated Modular Solutions facility in Croatia, and later transferred to its location in Barcelona, Spain, the T-Systems data center consists of 38 integrated modules hosting nearly 300 Knürr® racks, more than 60 Liebert® thermal management units and a number of Chloride® AC power systems. The Cerdanyola data center is currently one of the largest modular data centers for T-Systems in Spain, with a modular IT load capacity of 1.1 MW, scalable up to 5 MW in future phases. As a result, T-Systems benefits from minimized operating costs. The facility also has been recognized by the Uptime Institute for providing 99.98 percent availability. The high efficiency design of the new facility delivers a Power Usage Effectiveness (PUE) of 1.3 and enables T-Systems to reduce its overall electrical consumption by 30 percent.

"The modular design gives us increased flexibility and scalability for future investment, while immediately offering an array of benefits for our customers," said Núria Berché, Program Manager at T-Systems Iberia. "Emerson Network Power worked with us to deliver true expertise and industry knowledge, positioning us to provide a strong cloud platform that serves both domestic and regional customers in Europe."

"Emerson did a really good job, not only in providing and delivering the data center modules but also in the integration and on site assembly," explained Raúl Saura. "It is not just putting the modules one next to the other. You have to build the cooling infrastructure, you have to set up the power network, you have to do a lot of things. It is not just a LEGO game where you put the bricks in place and that's it. That complexity was performed by Emerson and they did very well. Also, we are very pleased about the excellent teamwork throughout the assembly, installation, and final commissioning of the data center, which has been a great success."

“Throughout the tender, Emerson proved the most efficient and reliable supplier,” added Sven Meyer. “The greatest advantage was the complete portfolio and unique point of reference: the high vertical integration turned to be decisive in delivering a fit-for-purpose solution in optimal lead times.”

### **Why nominee should win**

1. Technical expertise and industry knowledge, including deep domain knowledge in power, thermal management, modular construction and service capabilities
2. Complete portfolio and unique point of reference: the high vertical integration turned to be decisive in delivering a fit-for-purpose solution in optimal lead times
3. Increased flexibility and high scalability allowing future phases of expansion as well as a staged investment.
4. Rapid deployment: 9 months versus the traditional 24-36 months generally estimated for a stick-build construction
5. Excellent teamwork throughout the assembly, installation, and final commissioning of the data center.