Press Release

ΞR&M
Convincing cabling solutions

Corporate communications

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Joint White Paper by Reichle & De-Massari and Rittal

Ten Steps towards an Optimal IT Infrastructure

What makes up the physical infrastructure of a data center? How do you go about selecting the optimal system components? And what service aspects and services are available? The answers to these fundamental questions can be found in the new White Paper by Rittal, solution provider for IT infrastructures, and Reichle & De-Massari AG (R&M), manufacturer and provider of cabling solutions for high-performance data center networks.

Herborn, Wetzikon July 28, 2015 – The White Paper "Ten Steps towards an Optimal IT Infrastructure" by Rittal and R&M is available now. For the first time, the two providers are presenting their expertise in a joint White Paper. It guides data center planners and operators, as well as administrators, through the complete physical infrastructure of a data center and provides information on how to select the optimal system components. Rittal covers the IT infrastructure from the rack through power distribution to monitoring, while R&M deals with structured cabling, polarity management, and network monitoring.

The first step in the White Paper describes an IT rack, which is the basis of every data center: a standardized 19" cabinet that can act as a server or network cabinet, depending on whether it is used to store servers or switches. The power supply components are described in Step 2. A low-voltage main distribution board (LVMD) distributes power to each area and a generator ensures a power supply in case of emergency. The uninterruptible power supply (UPS) converts the current

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from the LVMD and filters out any interruptions. The power is then distributed to the server in the rack via Power Distribution Units (PDU). A climate control system ensures that the warm air extracted from the server is removed from the data center, cooled, and fed in again.

Measuring data relating to temperatures and humidity is recorded by a monitoring system, as described in Step 4. This system transmits the data to the data center Infrastructure Management Software (DCIM), which triggers an alarm if necessary.

In steps 5 to 10, the White Paper compares the logical network architectures and topology concepts for the standards. Both Rittal and R&M expect this to help improve communication between manufacturers, planners, and practitioners. The key task is the translation of the logical topologies into a structured cabling infrastructure in accordance with TIA-942-A or EN 50600-2-4.

The trends towards virtualization and cloud computing show that not only are numerous new systems being built, but existing systems are being retrofitted quickly too. Rittal and R&M are both concerned about the operative success of the data centers in this current dynamic period of upheaval.

Download:
http://www.rdm.com/en/co/service/downloads/white-paper.aspx

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Images

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About Rittal

Rittal, headquartered in Herborn, Hessen, Germany, is a leading global provider of solutions for industrial enclosures, power distribution, climate control and IT infrastructure, as well as software and services. Systems made by Rittal are deployed across a variety of industrial and IT applications, including vertical sectors such as the transport industry, power generation, mechanical and plant engineering, IT and telecommunications. Rittal is active worldwide with 10,000 employees and 58 subsidiaries.

Its broad product range includes infrastructure solutions for modular and energy-efficient data centres with innovative concepts for the security of physical data and systems. Leading software providers Eplan and Cideon complement the value chain, providing interdisciplinary engineering solutions, while Kiesling Maschinentechnik offers automation systems for switchgear construction.

Founded in Herborn in 1961 and still run by its owner, Rittal is the largest company in the Friedhelm Loh Group. The Friedhelm Loh Group operates worldwide with 18 production sites and 78 international subsidiaries. The entire group employs more than 11,500 people and generated revenues of around €2.2 billion in 2014. For the seventh time in succession, the family business has won the accolade "Top German Employer" in 2015.

Further information can be found at www.rittal.com and www.friedhelm-loh-group.com .

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About R&M

Reichle & De-Massari AG (R&M) develops and produces passive cabling solutions for communication networks. R&M has gained a reputation as a market leader in the production of high-quality copper and optical waveguides. The company has its own sales organizations in more than 30 countries.

Approximately 70% of R&M's turnover is generated overseas. In 2014, turnover amounted to CHF 211.7 million. Over 5% of turnover generated is invested in research and development each year. R&M is ranked among the 500 leading companies in Switzerland and currently employs over 800 people across the globe. The company is wholly owned by Martin and Peter Reichle and is managed as an independent family business. Further information can be found at www.rdm.com .

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