

DEPLOYING SOLUTIONS AT SPEED

Building Energy Management Systems
for Data Centres



TREND

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DELIVERING SPEED AND EFFICIENCY REVOLUTIONISING DATA CENTRE DEPLOYMENT

In the fast-paced world of data management, swift deployment of operational Data Centres is paramount for cost reduction and project success. Our approach focuses on accelerating this process through strategic measures.



Modular and Flexible Design:

Our open technologies embrace modularity, ensuring flexibility in Data Centre architecture. This design philosophy expedites deployment while accommodating future scalability.

By combining these elements, we revolutionize the Data Centre deployment landscape, ensuring not only speed but also reliability and future-proofing.



Standardized, Repeatable Solutions:

Utilizing standardized solutions such as DDC, PLC, and software modules streamlines the deployment process. This ensures consistency, reliability, and quick implementation of Data Centres.



Backwards Compatible Solution:

Our systems provide a clear upgrade and expansion path, offering backward compatibility. This means seamless integration with existing infrastructure and minimal disruptions during upgrades.



Minimal Retraining Required:

With our solutions, there is minimal need to retrain engineering resources in operation and configuration. This accelerates the adaptation of our technologies within existing teams.



Global Support from Design to Implementation:

Our network of Global Data Centre partners ensures comprehensive support, from the initial design phase to full-scale implementation. This collaborative approach enhances project efficiency and success.

PROCESS OF DEPLOYING A DIGITAL DATA CENTRE SOLUTION AT SPEED

OUR APPROACH

Our approach is built on speed and efficiency. By engaging with Trend early, you leverage a standardised and proven methodology that enhances deployment efficiency and minimizes project risks.



1



Early Engagement in design phase

Procurements routes can be a roadblock, but through early engagement

- Project specific architecture and specification can be produced
- Engineering efficiencies can be considered
- Standardised designs adopted
- Software tools can be considered
- Responsibility matrix defined
- Controls solutions can be closely integrated into overall design
- Overall project risk reduced



2



Standardised Designs

- Construction approved information provided early
- Offsite manufacturing can start
- Parallel workflows (efficient and faster deployment)
- Reduced risk (no reworks or bespoke engineering)
- FAT and SFAT completed using pre-written test routines
- Lessons learned adopted and fed back into the design cycle
- Engineering efficiency for future projects and simplified operation stage

3



Software Tools

- Automate the engineering process
- Create components templates
- Drive consistency and standardization
- Automatically bind graphics
- Simplify data exports
- Streamline third party integration



IMPROVING OPERATIONAL EFFICIENCY WITH N4 ANALYTIC SOFTWARE

In the ever-evolving landscape of data centres, the use of Building Management Systems (BMS) and advanced analytic software has become a game-changer, expediting the deployment process and enhancing operational efficiency.



N4 Analytics utilises available BEMS data to provide real-time insights on the performance of your facility, enabling you to make accurate decisions on:



Risk Mitigation and early fault detection to Identify problems that could impact the sites operation,



Targeted and **proactive maintenance**



Energy **optimisation** of individual components and complete systems to achieve best in class efficiency (PUE/WUE/CUE).

Analytical Software Tools provide



Fine-Tuning Identification:

Pinpoints areas that require fine-tuning for optimal performance.



Insight into Plant Performance:

Provides in-depth insights into the overall performance and optimization of the facility.



Alarm Indication:

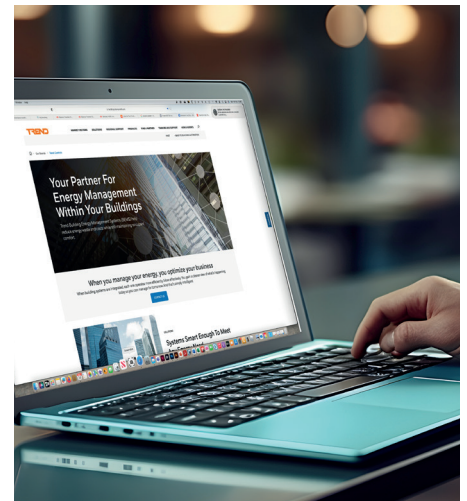
Flags nuisance or repeat alarms that might get overlooked during regular monitoring.



Confirmation of Operation:

Ensures the seamless operation of individual items or complete systems.

In conclusion, the integration of BMS and analytic software not only accelerates data centre deployment but also ensures a proactive and efficient operational approach, setting new standards in the industry.



Check our End to End BEMS solutions for Data Centre And Speed Up your Data Centre Deployment

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