

Data Center Management and Automation

Data Center Infrastructure Management (DCIM) – Modeling of a digital twin

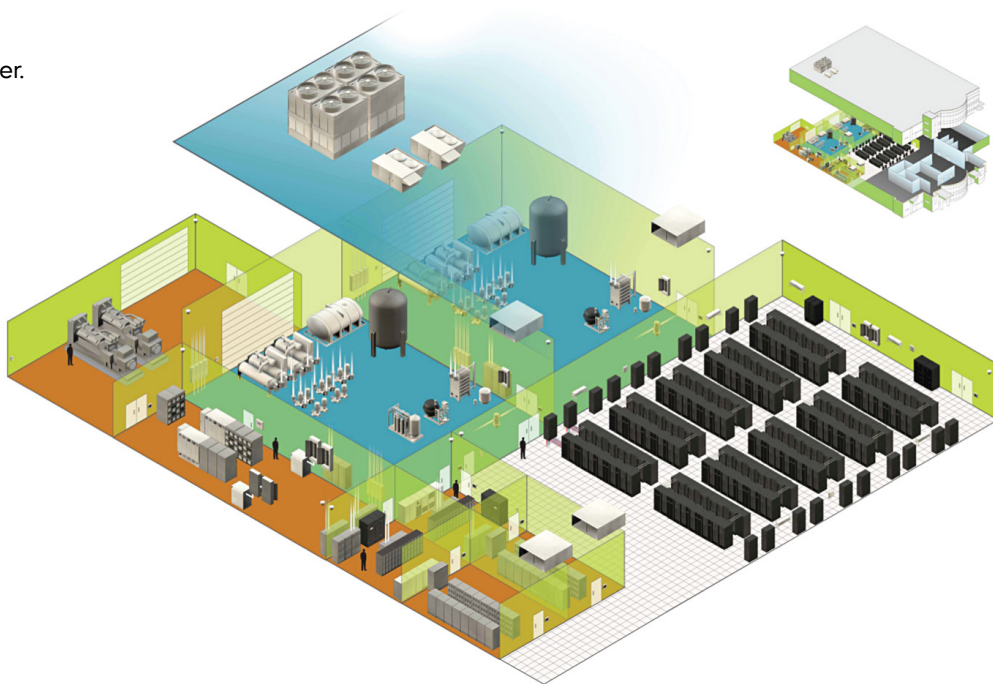


Fujitsu Data Center Management and Automation – Data Center Infrastructure Management (DCIM)

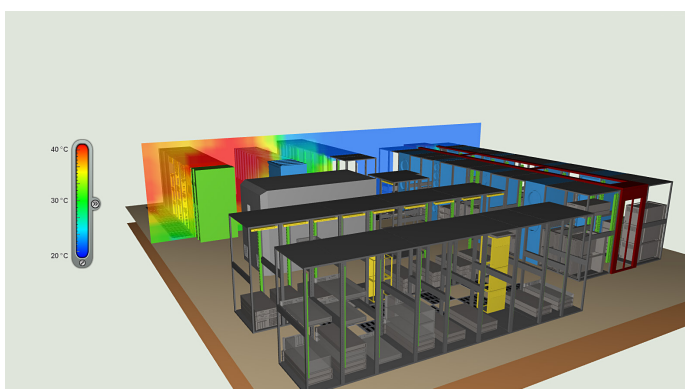
In our always-on business world and society, IT is expected to deliver 24x7 availability, and work as cost-efficiently as possible. Yet the data centers themselves have to combine two different worlds: IT managers are in charge of front-line components such as servers and storage, whereas facility managers oversee resources such as power, cooling and space allocation. What is often missing is a single, integrated view of the entire landscape. With Data Center Management and Automation from Fujitsu, enterprises can combine these often conflicting views into an integrated solution to manage infrastructure, keep IT running smoothly, automate processes and deliver value to the business.

Fujitsu Data Center Infrastructure Management – the digital twin of your data center – covers energy, assets and processes. It is the enabler of complex, automated work-flows and supports a wide range of data center equipment and platforms from all major vendors.

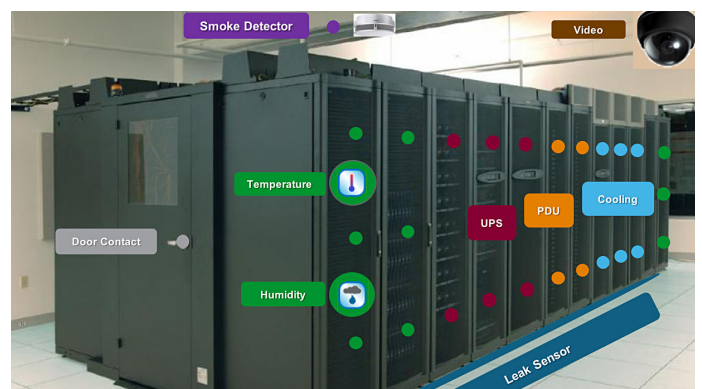
Digital twin of the Data Center.



Temperature and air flows.



Monitoring and management of Data Center sensors.



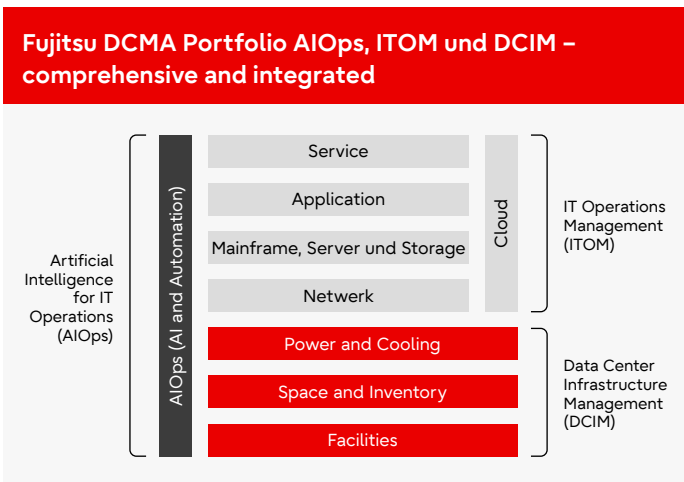


Fujitsu Data Center Management and Automation

Fujitsu Data Center Management and Automation is a portfolio of solutions that embraces Artificial Intelligence for Operations (AIOps), IT Operations Management (ITOM) and Data Center Infrastructure Management (DCIM).

The Fujitsu approach to Data Center Infrastructure Management

ITIL-based Fujitsu Data Center Infrastructure Management (DCIM) covers energy, assets and processes. It is the enabler of complex, automated workflows and supports a wide range of data center equipment and platforms from all major vendors. Fujitsu DCIM focuses on three main challenges to help enterprises leverage their data center resources:



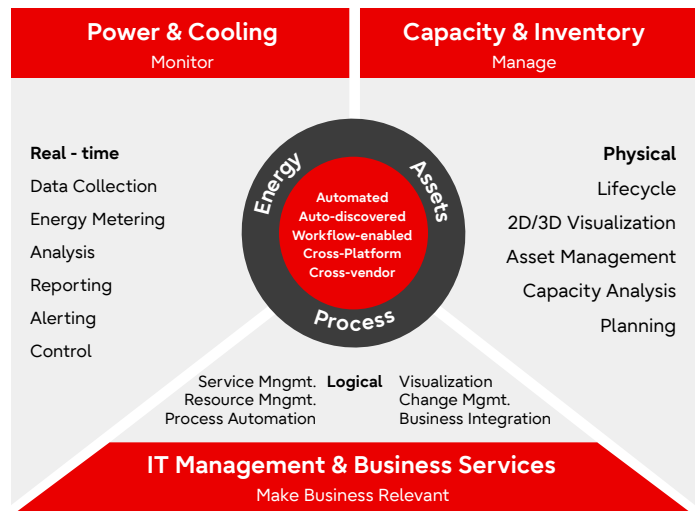
Picture 1: IT Operations Management and Data Center Infrastructure Management combined

AIOps (Artificial Intelligence for IT Operations) combines big data and machine learning to automate IT operations processes, including event correlation, anomaly detection and causality determination.

ITOM comprises tools to orchestrate, manage and monitor IT infrastructure. As such, it manages the availability of servers, applications, network components and configurations, and ensures performance is up to scratch. It also takes care of incident management and keeps the IT service & help desks running smoothly.

DCIM on the other hand, creates a bridge between the IT infrastructure (such as servers, racks and network components) and system parameters such as power, cooling, space allocation and inventory, providing up-to-date status reporting on each element. The role of DCIM is to integrate processes, IT and facility management to provide the people in charge of the data center with functions to manage and monitor data center events, and to automate many of the processes that are driven by IT.

- **Power and cooling:** an extensive range of data is captured for managing and monitoring power and cooling in real time, with automatic alerts and reporting to maximize efficiency.
- **Capacity and inventory:** data centers can manage their complete inventory and capacity along the entire asset lifecycle, with planning and capacity analysis and 2D/3D visualization.
- **Logical IT management and business services:** the solution provides automated service, change and resource management, virtualization, process automation and business integration.



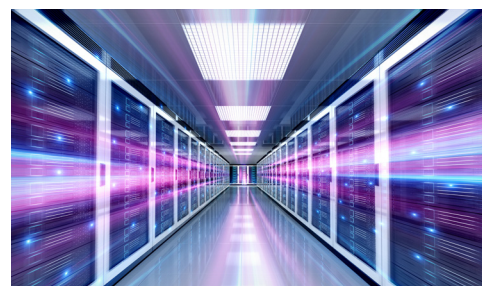
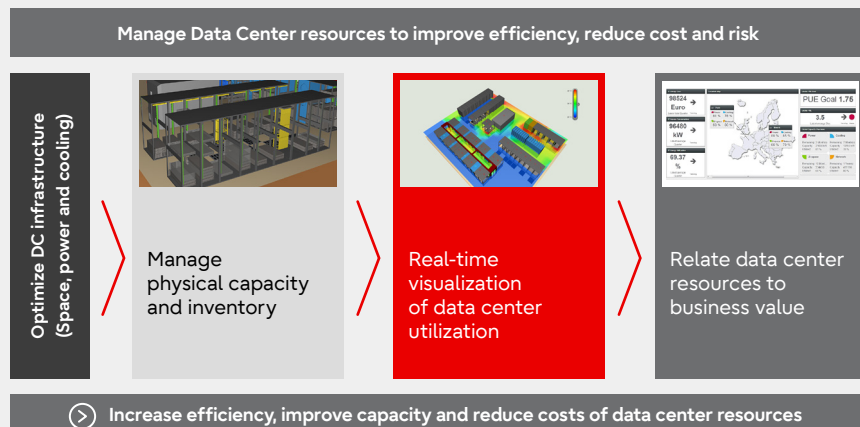
Picture 2: Data Center Infrastructure Management feature set

With Fujitsu Data Center Infrastructure Management, enterprises can:

- Reduce costs by optimizing power consumption.
- Increase ROI by making more efficient use of space in data centers.
- Improve availability and IT service continuity.
- Obtain support for professional risk and security management.
- Improve operational efficiency through automation.
- Obtain a clear overview of asset deployment trends.
- Benefit from clearly documented and visualized data center events, also of cabling, storage and power.

Fujitsu Data Center Infrastructure Management in Action – Practical examples of added value

Strategic business value of DCIM

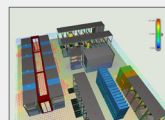


“Temperature Sensor Matrix” by Fujitsu for the management of the data center air conditioning

- The solution works with a dense network of measurement points that require minimal installation and wiring.
- The detailed temperature profiles captured by this flexible temperature sensor array are integrated into the DCIM.
- DCIM visualizes hotspots, making it easier to optimize data center cooling, distribute systems effectively and increase energy efficiency.
- By integrating into existing monitoring and management solutions, the Fujitsu concept leverages synergies and reduces the learning curve.
- Customers don't need additional monitoring tools and no extra staff training is required.

Typical DCIM Customer Use Cases

- Digital twin of the Data Center – create the buildings and rooms
- Definition and integration of IT assets
- Integration, measuring and simulation of energy, temperature and environmental values
- Operational and change processes
- Interaction of DCIM with other Management and Automation Solutions
- Central Data Center Control Center



Why Fujitsu?

- Fujitsu is the fourth largest IT service company in the world and the largest in Japan. We run more than 160 data centers worldwide, provide on-site service to 180 countries and have service desks in over 30 languages.
- Fujitsu offers a comprehensive and innovative solutions suite for DCIM, ITOM and AIOps which combines artificial intelligence and automation to realize the Self Driving Data Center. The offering includes consulting, products, solutions, services and maintenance, as well as standardized software and solution packages based on various delivery models.
- Fujitsu offers a complete portfolio of DCMA solutions: on-premise solutions, managed services or Software as a Service offerings out of the Fujitsu Cloud.
- Experienced team of DCMA consultants, engineers and developers for services along the complete value chain (consult, design, build, operate, maintain).
- With their experience integrating processes, Fujitsu teams ensure DCIM improves agility, flexibility and speed.
- Close alignment with ITIL best practices and IT service management solutions for multiple ITIL disciplines.
- Solutions can be integrated and adopted within heterogeneous data centers.
- Fujitsu as a trusted partner – broad offer, independent consulting, best-of-breed portfolio.
- Touch and feel the power of the Fujitsu DCMA solutions by visiting our DCMA demo center – remote or local.

Please send your email to:
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