

FUJITSU Managed Infrastructure Service

Data Center Management and Automation Solutions

Data Center Infrastructure Management (DCIM)



shaping tomorrow with you

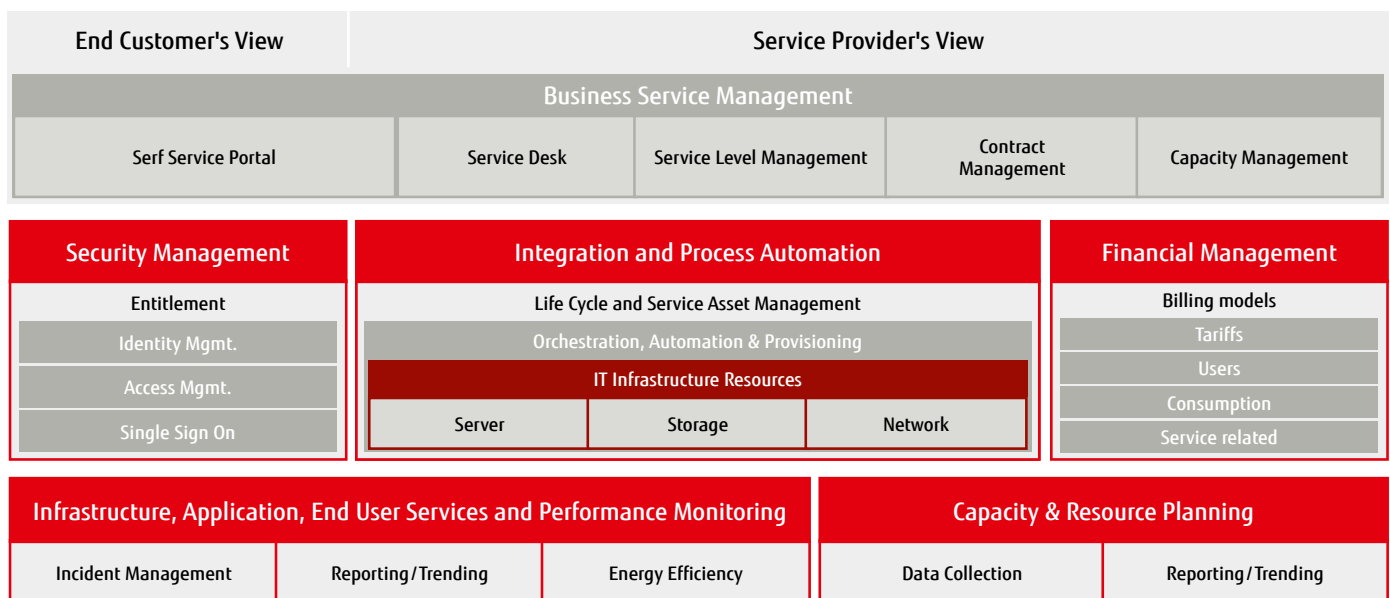
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In our always-on business world and society, IT is expected to deliver 24x7 availability, and work as cost-efficiently as possible. Yet the data centers themselves have to combine two different worlds: IT managers are in charge of front-line components 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.

The Fujitsu reference architecture for Data Center Management and Automation is aligned with the Information Technology Infrastructure Library (ITIL) to ensure efficient, best-practice integration of IT services with business needs, and provides for a common language and approach for all stakeholders.



Picture 1: The FUJITSU Data Center Management and Automation Architecture

FUJITSU Data Center Management and Automation helps enterprises to

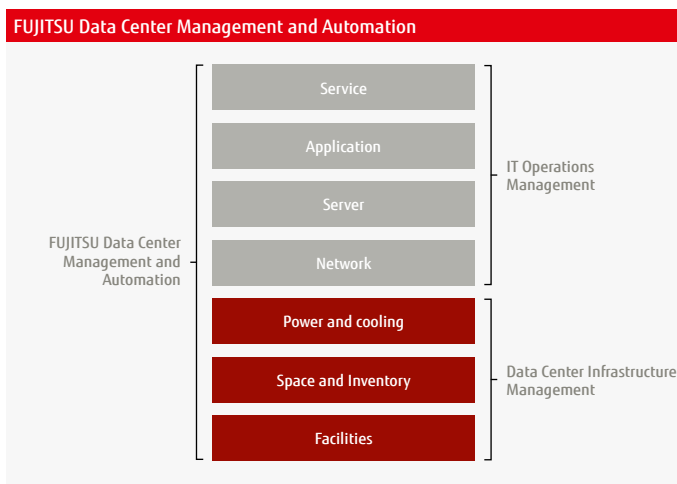
- Improve operational efficiency
- Improve service levels
- Drive down operational costs and
- Accelerate the introduction of new data center services



FUJITSU Data Center Management and Automation

FUJITSU Data Center Management and Automation is a portfolio of solutions that embraces IT Operations Management (ITOM) and Data Center Infrastructure Management (DCIM).

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.



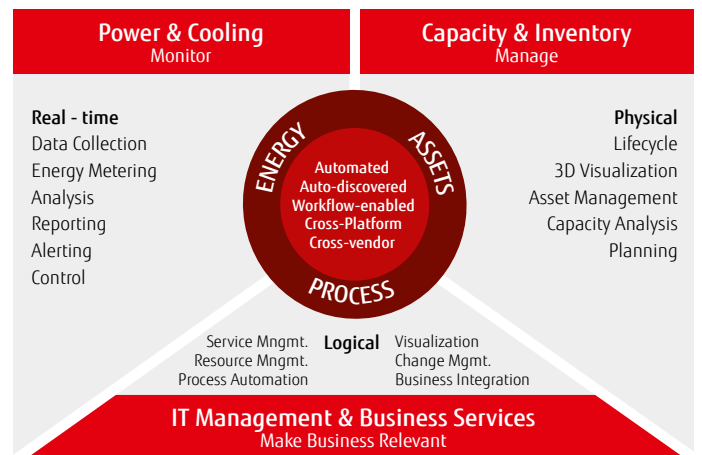
Picture 2: IT Operations Management and Data Center Infrastructure Management combined

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:

- **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 3D visualization.
- **Logical IT management and business services:** the solution provides automated service, change and resource management, virtualization, process automation and business integration.



Picture 3: 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



Process automation in action: The automated contingency manual

Required for compliance with ISO 27001, BSI Basic Protection, ITIL Availability and IT Service Continuity Management, contingency manuals describe the processes that are followed and executed in the event of an incident or crisis to ensure business continuity or to recover business as quickly as possible. Instead of paper-based manuals, enterprises using process automation technology can automate the production of contingency manuals and ensure their crisis teams have up-to-date information available when it matters. This helps organizations to avoid manual errors, increase process quality, and make certain that escalation procedures are invoked and followed correctly.



Fujitsu energy management in the data center

Rising energy costs are forcing data center operators to look for ways to monitor and improve energy efficiency. Fujitsu energy management measures the energy consumption of servers, storage, network components and cooling systems, using Standard Performance Evaluation Corporation (SPEC) metrics to benchmark results and highlight the points where action is needed. Our concept was implemented by our partner CA Technologies in CA DCIM software, and we leverage this implementation to adapt it to customer requirements. Solutions can be implemented on-premise or sourced out of the Fujitsu Cloud.



Fujitsu temperature management in the data center

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. Thanks to DCIM visualization capabilities, hotspots are identified at a glance, making it easier to optimize data center cooling, distribute systems effectively and increase energy efficiency. By integrating into existing DCIM solutions, the Fujitsu concept leverages synergies and reduces the learning curve. No additional monitoring tools are required, and there is no need for extra staff training. Our solution includes DCIM software from our partner CA Technologies.

Why Fujitsu?

- Fujitsu is the fourth largest IT service company in the world and the largest in Japan. We run more than 100 data centers worldwide, provide on-site service to 180 countries and have service desks in over 30 languages
- 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
- Winner of the German Data Center Award 2013 with the solution "Identify the energy guzzlers in the data center", finalist of the German Data Center Award 2014 with the solution "Automated contingency manual" and finalist of the German Data Center Award 2015 with the solution "Temperature sensor matrix for DCIM"
- Predefined management/automation policies for Fujitsu infrastructure products (PRIMERGY, ETERNUS) and other common products, and predefined blueprints and best practices
- Solutions can be integrated and adopted within heterogeneous data centers
- Fujitsu as a trusted partner – broad offer, independent consulting, best-of-breed portfolio

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