

Data Sheet

Data Center OPTIMIZATION Services

PRIMERGY CX1000 Readiness Assessment

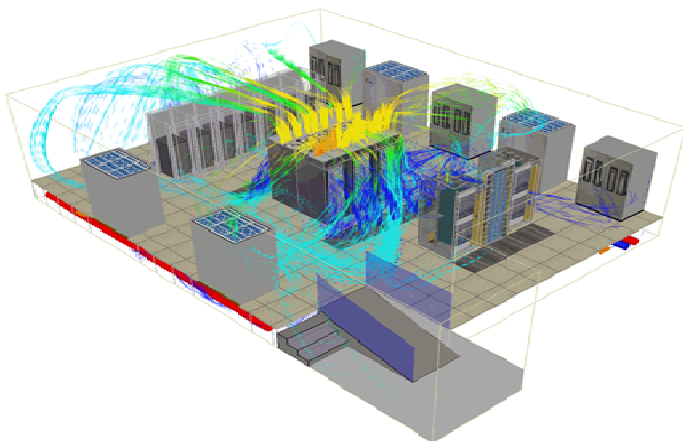
Valuable insight into optimal server power and cooling in the data center

Introduction

OPTIMIZATION Services from Fujitsu offer efficient consultation packages for existing infrastructure environments at a fixed price. This has been made possible by systematically analyzing a large number of successfully implemented consultation projects. The solution methods used have been standardized and combined with the experience of the comprehensive product and solution skills provided by the Fujitsu group. The resulting first-class consultation and analysis packages quickly provide customers with specific information and suggested improvements for the infrastructure involved

Customer's requirements

- Increase effectiveness of current data center planning and design in terms of space, power and cooling
- Assess the impact of factors which affect the efficiency of power and cooling
- Mitigate any potential risks and prove conformity to data center power/cooling capacities
- Identify quick win measures to increase the effectiveness of air flow and power



Fujitsu's solution

A data center has a complex array of factors, which in combination largely determine the operating climactic conditions. A high-quality analysis of the functional operation is a very complex and laborious task. Obtaining the right balance between Space, Power and Cooling in the data center is typically the biggest challenge. The introduction of new infrastructure brings with it risks in affecting this balance.

With a new paradigm in data center server power and cooling performance, PRIMERGY CX1000 servers address this challenge. Fujitsu's "PRIMERGY CX1000 Readiness Assessment" is specifically designed to deliver valuable qualitative information, by using advanced simulation software, to assist you in planning an optimized introduction of PRIMERGY CX1000 servers in your data center, accelerating and assuring your planning.

The assessment focuses on the following areas:

- Spatial architecture
- Cabling and ducting
- Cooling systems
- Rack descriptions

Customer's benefits

Customers gain information and recommendations:

- Insight into the optimal placement and positive impact of PRIMERGY CX1000 servers in the data center in advance of planned changes in your data center server infrastructure
- Enable what-if scenario analysis for future planning based on your individual situation, using advanced data center simulation software
- Plan improvements from feedback on optimization areas and weak points
- Understand climactic impact of planned changes to the data center before they happen and avoid costly mistakes
- Accelerate the timescale for taking decisions before they happen and avoid costly mistakes

Service Details

Service description

1. Current Situation Analysis

Fujitsu consultants analyze customer-supplied information (see Service Conditions).

The key prerequisite for a successful modeling are accurate inventory drawings (working drawings) of the rooms and the diagrams of the air ducting, and these are used to develop a basis for the simulation of the data center facility management.

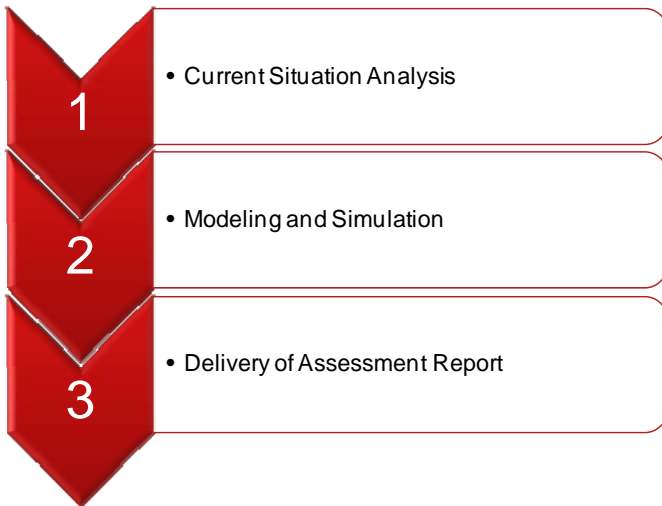
2. Modeling and Simulation

Data from the "Current Situation Analysis" are used by Fujitsu consultants to create simulation models in the simulation software, with the goal to create a baseline of the data center in terms of energy consumption and cooling.

Once this is achieved the model can be changed, by including possible/planned by including possible/planned server infrastructure changes with PRIMERGY CX1000 servers, to then analyze the impact on power and cooling systems, and ascertain if the data center is still within its operating tolerances.

3. Delivery of Assessment Report

The simulation results are delivered, in the form of a formal report, and a conference call arranged to discuss further requirements.



Service conditions

The Customer agrees to the following conditions as pursuant to the delivery of the service defined and agrees to make the following available to Fujitsu:

- Spatial architecture information - to accurately describe a room, Fujitsu requires a drawing or CAD diagram and a table listing details of the following: (1) room dimensions, flow blockages such as columns, beams, partitions, room lighting (position, dimensions, wattage), (2) window and door positions, height of raised floors and suspended ceilings. Fujitsu is also able to utilize existing .dxf or .dwg format modeling templates

- Cabling and ducting information – (1) deviation and position of cable channels and piping which are to be regarded as a flow obstacle, (2) cable openings in raised floors (description of the position, hole size and % of open space approximations).
- Cooling system descriptions - in addition to the Manufacturer of the air conditioner, the cooling capacity and the flow velocity, Fujitsu requires the following description of the cooling system: (1) history of the cooling pipes and their diameter, (2) air deflectors, (3) position and size of air inlets and outlets of the air cooling unit, (4) area plan of perforated floor and ceiling tiles.
- Rack descriptions – for the functional imaging and the effects of changes at the "rack-level" the following information is required: (1) measurements such as position, height, width, depth, (2) rack orientation, (3) power (KW) per rack, (4) slot assignment (which slots are blocked and which are closed only by slot covers) describes flow obstacles and is concerned with relative pressure drop, (5) air openings for inlets and outlets.
- Contact person(s) from the customer organization available to Fujitsu for the duration of the service, with the responsibility and expertise in providing information for the current situation and who has access to relevant areas under assessment

This is a fixed price service, excluding travel costs, and is provided under the conditions valid for Fujitsu Technology Solutions services. The "Fujitsu PRIMERGY CX1000 Readiness Assessment" service is designed for data centers with a maximum of 2,000 m² surface area. Fujitsu can provide individual quotations for requirements beyond this scope on request.

Fujitsu will not be held responsible for any data loss. The Customer is responsible for ensuring that all data on measured systems is backed-up prior to service commencement

Unless expressly agreed otherwise the Fujitsu IT Services as set out in this datasheet will be performed based on the Fujitsu **"General Terms on Consulting and Technical Assistance"** or alternatively - where the main emphasis of the services is on the performance of works - based on the Fujitsu **"General Terms for IT Integration Services, IMAC/D Services and other works and services subject to acceptance"**.

Ordering and delivery

This OPTIMIZATION Services is available from your local Fujitsu sales office. When ordering, please quote the information below:

Title	PRIMERGY CX1000 Readiness Assessment
Order code	CPS:IT-ICN-11029F

More information

Fujitsu OPTIMIZATION Services

In addition to the Fujitsu PRIMERGY CX1000 Readiness Assessment Service, Fujitsu provides a range of OPTIMIZATION services, first-class efficient consultation and analysis packages which quickly provide customers with specific information and suggested improvements for existing infrastructure environments at a fixed price.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as a Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

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- BS2000/OSD Mainframes
- PRIMEQUEST: Mission Critical IA Server
- ETERNUS: Storage Solutions
- ESPRIMO, LIFEBOOK: Workplaces

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- Partner Software

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- Managed Services
- Infrastructure as a Service
- Consulting & Integration Services
- Maintenance & Support Services

More information

To learn more about the Fujitsu PRIMERGY CX1000 Readiness Assessment Service and other related services please contact your Fujitsu sales representative, email us at expert@ts.fujitsu.com, or visit our website at www.fujitsu.com/de/consultingservices

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at: www.fujitsu.com/global/about/environment/



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