

Data Center Detailed Design

F-DC-DD

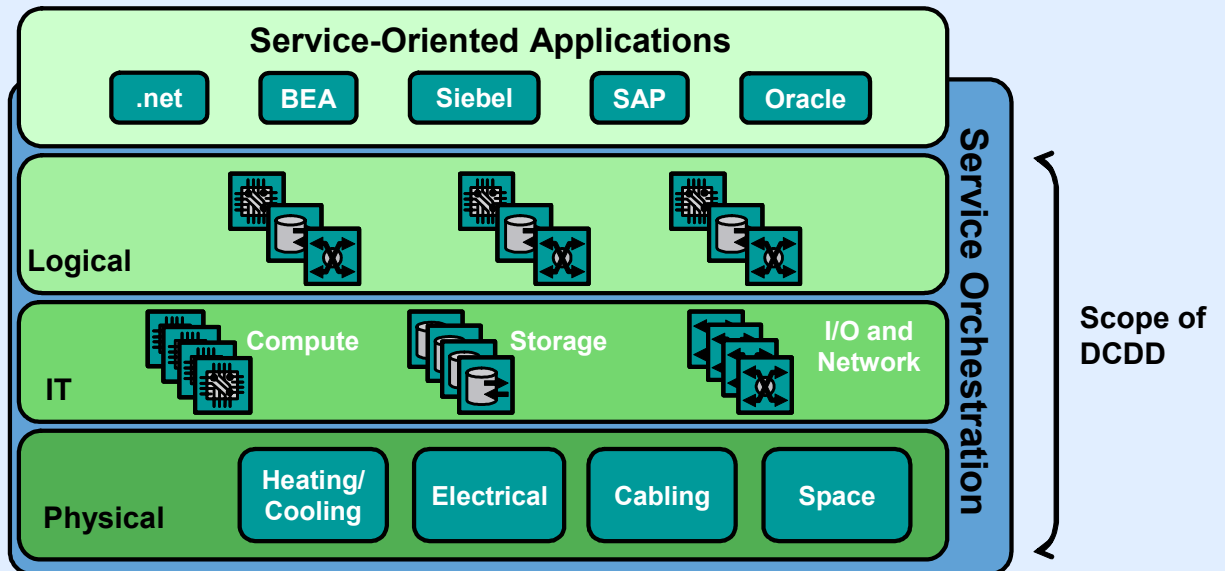
The Firefly Data Center Detailed Design (DCDD) builds on the high-level architectural blueprint that is developed during the Firefly Data Center Architecture Workshop (DCAW). The DCDD is the design stage in which we will perform a detailed analysis of the existing DC network, conduct detailed on-site requirements gathering, and develop a detailed functional design that includes the physical layer, IT infrastructure layer, logical layer, and service orchestration layer. The DCDD program is designed for customers to architect a next-generation Data Center from the ground up.

The Data Center Detailed Design will be facilitated by a senior multi-disciplinary Firefly engineer who is intimately familiar with both business requirements and advanced Data Center technologies and solutions.

What's Included

During the DCDD engagement process, Firefly focuses on the four key elements shown here to build a detailed design for the Data Center:

- Physical Infrastructure
- IT Infrastructure
- Logical Infrastructure
- Service Orchestration



Customers are able to choose from two options to complete the DCDD, resulting in either a detailed BOM, or documented RFP requirements.



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Services

Design Service Deliverables

Analysis and Requirements Gathering

- Perform a detailed analysis of the existing Data Center:
 - Review network documentation
 - Review application architecture
 - Analyze existing performance data (if available)
- Conduct an onsite requirements gathering session with the key IT operational teams to initiate the detailed requirements gathering:
 - Applications
 - Security
 - Servers
 - Network
 - Storage
- Perform a detailed analysis of data center requirements

Design and Migration Plan

- Prepare a detailed design to fulfill requirements based on a previously vetted architecture (result of Firefly Data Center Architecture Workshop or other architecture effort), including:
 - Performance Requirements
 - Scalability Requirements
 - Business Continuity and Disaster Recovery
 - Network Services
 - Physical Layer Connectivity
 - Environmental Capacity (Heat, Energy, Cabling, and Space)
- Document the detailed design for the Physical, IT infrastructure, Logical, and Service Orchestration layers:
- Prepare a functional migration plan that documents the steps to implement the new Data Center architecture

Option A: RFP Requirements Preparation

The DCDD-RFP option is designed for customers who have not yet selected key vendors, Firefly will assist in an RFP preparation process in which we will provide the technical criteria to allow you to effectively generate and evaluate an RFP:

- Write RFP-ready functional requirements for all layers of the data center design
- Document and provide suggestions on RFP analysis/evaluation criteria.
- Present the resulting design in an onsite session. Finalize the design with any changes from the onsite review.

Option B: BOM Preparation

The DCDD-BOM option is designed for customers who have already selected preferred vendors. Based on the detailed functional specifications that we develop during the DCDD process, we will develop a detailed Bill of Materials to help you to jumpstart the implementation process.

