DELLTechnologies

Rack Integration Services

Custom racks built, validated, and delivered to your data center

- Reduce or eliminate data center implementation complexities
- Deploy scalable, secure infrastructure tailored to business outcomes
- Harness the full potential of AI and drive innovation

Elevate Your IT Infrastructure with Dell Technologies' Enterprise Rack Integration Services

In today's rapidly evolving digital landscape, deploying secure, scalable and efficient IT infrastructure is more critical than ever. Dell Technologies' Rack Integration Services addresses business challenges and offers solutions tailored for organizations aiming to enhance their IT capabilities without the complexities traditionally associated with engineering, integrating, configuring, deploying, and installing custom rack technology into any data center, edge, or AI infrastructure environment. Our proven integration methodology will take you step by step from a plan to a ready-to-use solution.

The Process: Dedicated Project Management

Upon placing your order, you will be assigned a Project Manager (PM) who will serve as your sole contact throughout the entire integration process. Your PM is responsible for:

- Overseeing the movement of ordered products from the factory to a Dell merge center.
- Keeping you informed and engaged throughout the assembly process.
- Arranging the logistics of delivery in collaboration with your receiving department or coordinating with our onsite field engineers for installation of your fully integrated rack system.
- Securing your approval and formally concluding the project upon completion.
- Ensuring your total satisfaction with the project outcome.

Key Benefits

- Proper power and cooling requirements met
- Precise cable layout and coding
- Detailed component stacking
- BIOS and firmware configuration
- Network configuration is to your spec on all of your racks with our ISO quality facilities and process

AI Infrastructure Deployments

We offer full-scale GenAI platform implementation services, including:

- Platform design and architecture
- Hardware and software deployment
- Platform testing and validation
- Knowledge transfer

Engineering for Rack Solutions and Layouts

Each rack equipped with enterprise system technology presents unique challenges, especially when deploying shared architecture computing platforms. A typical rack configuration might encompass 96 cores, 8 network connections, and generate temperatures exceeding 60°C continuously. Our Dell engineers are expertly trained to identify and address potential issues before they arise, ensuring a seamless integration process.

Physical Integration and Configuration

Crafting a sophisticated solution for your data center's computing products demands an integration process that matches the complexity and critical nature of your setup. Our comprehensive validation ensures:

- Precise chassis configuration according to build specifications down to the component level.

- Installation of rack components following the designated layout, including PDUs and cooling fans.

- Correct connection of power and network cables with neat routing practices (including color coding, labeling, maintaining uniformity, observing bend radius, and ensuring aesthetic neatness).

- BIOS versions standardized to your specified level with any custom configurations applied.

- Uniform firmware across components (such as HDDs, HBAs, etc.) with custom settings implemented.

- Configuration and testing of interconnects (such as setting IP addresses, flow control, etc.).

- Installation of the operating system image.

- Conducting physical component and rack stress tests, available upon request.

- Asset tagging for easy identification.

- Delivery of a detailed rack layout and asset report for your records.

Shipping and Setup Services

We ensure your fully assembled rack solution is securely packaged and transported to your data center by a Dell-certified shipping partner, guaranteeing its safe arrival and placement. You have the option to acquire final configuration and setup services directly from Dell, or you may choose to have your own team complete these steps.

For AI infrastructure and Dell Validated Designs for GenAI, our configuration teams complete end to end software configuration of the integrated components, and our field engineers are equipped to come to your location and ensure that your AI infrastructure is configured, validated, and fully optimized for performance from day one.

For more information, please contact your Dell representative