



IDCS – Rack builds and custom configuration services

Optimize your infrastructure assembly and deployment, with custom builds that are built right the first time.

Building and wiring racks can get messy fast

Rack assembly and wiring can quickly become a slow, error-prone, and resource-intensive process. And when key team members leave, they often take critical setup knowledge with them — leaving your organization scrambling to fill gaps and maintain consistency.

By partnering with SHI's rack build and custom configuration services as a part of our integrated data center solutions (IDCS), organizations can:

- unburden in-house teams from complex and time-consuming rack assembly.
- save on costs related to maintaining in-house technician certifications.
- reduce the risk of post-installation issues from building your own rack.

Ensuring your build meets your specifications and quality standards

SHI handles every phase of rack building from design and procurement to build, validation, and testing. When your system arrives, all you need to do is connect power and networking, and you're ready to deploy. Our certified build technicians, system engineers, and quality control experts utilize agile methodologies that allow our team to quickly adapt to evolving requirements, whether it's a change in rack design, hardware specs, or deployment timelines.

Clean, organized, and deployment-ready racks



Expert assembly and wiring:

Each build is expertly installed into the server cabinet, including structured cabling and power distribution units (PDUs).



Clear and custom labeling:

Our technicians apply asset tags and labels to all devices and cables for accurate identification and tracking.



Comprehensive quality control (QC) checks:

Your build undergoes two QC rounds, ensuring each server meets our benchmarks and specifications.

IDCS – Rack builds and customer configuration services

Simplify your rack production, reduce deployment risks, and free up internal resources

Skip the setup — just connect and go live.

Our IDCS specialists work to ensure your rack is deployment-ready through a proven build methodology.

1

Initial build

We install and integrate all hardware into your server cabinet, which is optimized for layout, airflow, and accessibility, and ensure every device and cable is tagged and labeled with precision.

2

First quality check

After the initial build, our team conducts a comprehensive review to ensure the rack aligns precisely to your physical specifications, adheres to the approved solution design, and meets all quality and performance standards.

3

Build configuration

After passing the first quality test, our engineers load the system-level components (operating system, software, and firmware), conduct burn-in and component-level diagnostics, and perform stress tests based on your specifications to validate performance.

4

Final quality check

To ensure the build meets your standards, we provide secure remote access so you can inspect your build in real time, validate every configuration detail, and confirm that the system performance aligns with your operational requirements.

5

Documentation and crating

Before shipment, we capture high-res photos and generate a manifest of asset tags and serial numbers for full traceability. Each crate is then serialized and fingerprinted for tracking and equipped with tamper-evident seals, moisture sensors, and g-force protection to safeguard your equipment in transit.

We maintain active systems engineering certifications, including:



COHESITY



Commvault®



FORTINET

HPE

NUTANIX

NVIDIA



PURESTORAGE®

vmware®
by Broadcom

Want to learn how SHI can accelerate your next build?
Reach out to your sales rep or contact us at IDCS_Presales@shi.com.

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