



IDCS – Quality control services

Verify and validate every build with precision to catch issues before they escalate.



The hidden costs of build variability

Misconfigured systems or unstable connections can leave IT teams troubleshooting under pressure, delaying go-live schedules, and increasing the risk of extended downtime.

By partnering with SHI's quality control (QC) services as a part of our integrated data center solutions (IDCS), organizations can:

- reduce the variability in server and network builds.
- avoid deployment delays from misconfigured systems or missing components.
- evade costly rework from faulty connections.

Uncover problems before they derail progress

At SHI, ensuring quality starts with confirming each build undergoes multi-stage testing, including physical checks, logical configuration reviews, and electrical assessments. Our team performs detailed inspections and testing to identify potential interoperability and compatibility issues, match and validate system requirements, and verify performance certifications such as latency, power usage effectiveness (PUE), and cooling efficiency.

Precise builds, confident deployments



Meticulous quality assurance:

Each build is reviewed at multiple stages to ensure every server, router, and networking component is built and validated with unmatched precision.



Remote-ready verification:

Get remote access visibility of your build with high-definition images for greater transparency, including remote approval.



Zero downtime promise:

Receive deployment-ready builds that meet your performance requirements and custom specifications, without surprises and rework.



Consistency and reliability:

Scale globally with SHI's network of integration centers, with predictable, repeatable, and high-quality operations.

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Validating every layer of your infrastructure

Whether you're deploying a single rack or scaling across multiple sites, we meticulously validate every cable, connection, and configuration to ensure seamless integration into your environment. Our certified engineers, architects, and technicians provide unparalleled support in the QC process so you can confidently run a wide range of workloads.

1

Physical

Our team checks that your rack setup is safe and functional by verifying component fit (ensuring the rack can support all required hardware) and cable layout (confirming cable lengths are suitable for proper routing and airflow).

2

Logical

We review your configuration to ensure accuracy and efficiency. This includes verifying port mapping and network logic and confirming hardware and software compatibility to ensure each system behaves exactly as expected.

3

Electrical

As part of evaluating your power requirements — including deployment location and data center specifications — we conduct power distribution unit (PDU) load balancing checks, cooling and airflow evaluations, and heat displacement analysis.

4

Solution blueprint

Working side-by-side with you, we provide a final design package including a comprehensive map detailing your infrastructure (physical layout, logical architecture, and electrical components) and validation of key performance metrics (latency, power usage effectiveness, and system interoperability).

Don't let misconfigured systems or unstable connections delay your deployment. Reach out to your sales rep or contact us at IDCS_Presales@shi.com.

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