

Facilities Infrastructure Assessment

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Condition, Capacity, and Capability (3Cs)

The **3Cs** was specifically developed to assess the strategic value of an existing data center. Most clients utilize the **3Cs** as a baseline to launch a major facilities project, such as capacity or functionality upgrade. Other clients use the **3Cs** to compare sites during a data center consolidation initiative. The **3Cs** provides all clients with an objective overview of the site's long-term viability, because Uptime Institute Professional Services is an independent, third-party consulting firm with no vendor affiliation.

The **3Cs** is an assessment of a data center infrastructure in terms of a) power, cooling, and computer room bottlenecks; b) the suitability of the equipment as evident in its condition and maintenance records; and c) Tier of the current infrastructure.

The report works to unify site staff and executive management in a common understanding of the principal systems and their reasonable performance potential. The report will identify downtime vulnerabilities and offer prudent opportunities for redress, including reasonable upgrades to the Tier level. Additionally, the report will contain recommendations for practices to manage the infrastructure for uninterrupted uptime.

ON-SITE INSPECTION

Uptime Institute Professional Services team of consultants gathers data over multiple days in order to assess the facility's characteristics:

- > Document the as-found Tier of the site topology, as-deployed capacity of the installed equipment relative to the owner's Tier objectives, and the state of repair of the systems
- > Principal subsystems reviewed are
 - Utility
 - Engine Generators
 - Power Backbone
 - UPS & Batteries
 - Critical Power Distribution
 - Cooling/Refrigeration Plant (DX or chilled water)
 - UPS Cooling
 - Computer-Room Cooling
- > Identify site infrastructure capacity and potential constraints affecting current capabilities, as well as growth in terms of power, cooling, and computer floor layout

- > Provide a 'snapshot' of computer room management issues, including a sample temperature profile
- > Investigate computer room and infrastructure support areas for incompatible and best uses
- > Identify industry best practices and generally accepted methodologies (e.g., Cold Aisle/Hot Aisle) either existing or opportunities for improvement

DATA ANALYSIS & FINAL REPORT

The final report is delivered three weeks following completion of the on-site visit. The report is provided in narrative form and includes the following:

- > Findings categorized as Condition, Capacity, or Capability
- > Recommendations for prudent, reasonable action
- > As appropriate and permitted, color photographs of Best Practices and Lurking Vulnerabilities are provided
- > As an option, Principal Consultant formally presents the report findings to Facilities and IT executives

WHY UPTIME INSTITUTE PROFESSIONAL SERVICES?

- > FIRST & ONLY to consult and Certify to the Tier Classification System and Operational Sustainability Standards
- > DATA CENTER SPECIALISTS serving those organizations with the highest uptime requirements
- > NON-BIASED, vendor-neutral, 100% customer-focused leading-edge support
- > REAL EXPERTISE from consultants with 30+ years of hands-on data center operations experience
- > SINGULAR ACCESS to world's largest database on why things go wrong

More about the Uptime Institute Professional Service on reverse.

Ensuring Uninterruptible Uptime: Power In, Heat Out, AlwaysSM

Uptime Institute
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ABOUT THE UPTIME INSTITUTE PROFESSIONAL SERVICES

Uptime Institute Professional Services is a consulting firm whose mission is to work with clients on both management and technical aspects of their Digital Infrastructure in order to provide uninterrupted uptime over the long term. Uptime Institute Professional Services consultants and licensed engineers have backgrounds in data center operations and function as an outsourced C-level infrastructure expert to clients, providing Principal-level consulting and education to clients during any stage of a project.

Uptime Institute Professional Services consultants comprehensively evaluate existing data center facilities by documenting risk factors for an outage

as well as recognizing best practices. The firm's consultants also collaborate on major data center construction projects and operations management.

Independent of any Engineer-of-Record or manufacturer affiliation, Uptime Institute Professional Services consulting teams help clients develop and execute solutions that are responsive to their unique business needs. Since 1985, Uptime Institute Professional Services has guided and justified data center investments around the world for organizations that require the continuous availability to conduct business. Uptime Institute Professional Services exclusively awards Tier and Operational Sustainability Certifications.

For further information, please contact Thomas H. Baehr, Director, Business Development at +1 505.946.3459 or tbaehr@uptimeinstitute.com or visit the Web site at <http://professionalservices.uptimeinstitute.com>.

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