One Fluke to rule it all (in the data center)

Every stage of the data center lifecycle suffers from the same problem: fragmentation. Too many tools, too many workflows, too many inconsistent reports. Here we look at why complexity is the real threat to uptime – and how a unified approach gives engineers the control they need.

Data centers don't usually fail at the core. They fail at the edges – where power, cooling, and cabling connect. Each system is critical on its own, but the real challenge comes when they have to work together under pressure. Too often, contractors, commissioning teams, and operators are left juggling multiple tools, different reporting systems, and inconsistent results.

The outcome is complexity, rework, and wasted time.

The problem isn't effort. It's fragmentation. Here at Fluke, we're pretty sure we have the answer.

Fragmentation across the lifecycle

So, let's take a look at the issues.

At commissioning, project leads are under pressure to validate thousands of fiber runs, copper links, and power connections. Problem is, the testing is often split across multiple vendors, each with its own tools, software and reporting formats. The result: certification data scattered in silos, slowing handover and complicating audits.

Fast forward to day-to-day operations and the same pattern repeats. Power quality checks on one platform, thermal scans on another, vibration diagnostics on a third. Reports sit in spreadsheets, PDFs, or proprietary tools that don't talk to each other. When something fails, tracing the issue back to the original commissioning test is harder than it should be, and everyone loses time chasing data instead of fixing the problem.

At the same time, engineers are looking for assurance that every system – electrical, mechanical, and network – is performing as specified. Without standardization, that assurance is difficult to prove.

The case for unification

The reality is data centers don't need more tools. They need more consistency. One workflow across the lifecycle. One standard for testing. One way of reporting. And because Fluke delivers it all through a common set of tools, platforms, and interfaces, teams benefit from a unified way of working across every site, team, and contractor.

This makes a real difference. Training is simpler. Reporting is streamlined. Results are consistent and audit-ready. And in a sector where there is never enough experienced hands-on site, ease of use matters. Subcontractors roll on and off, engineers move between sites, and teams are constantly rebalancing workloads. A common approach means work doesn't grind to a halt every time someone new picks up the kit.

> That's the principle behind One Fluke: a simpler, cleaner way of working that helps everyone pull in the same direction. **It reduces training time, improves accuracy, and embeds resilience** from build through to daily operations.
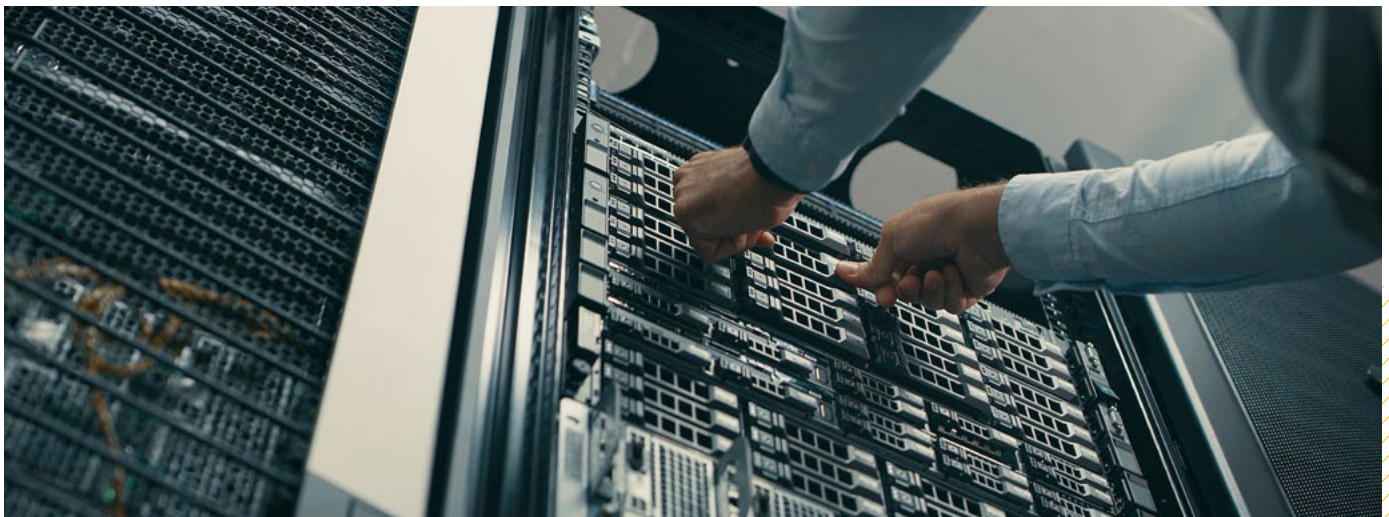
Why One Fluke

Fluke covers the full spectrum of data center testing.

The Versiv platform with OptiFiber Pro, CertiFiber® Pro, FI7300 FiberInspector®, OTDR modules, and LinkWare™ Live cloud service ensures every copper and fiber link is certified and documented.

The 1770 Series Power Quality Analyzers detect harmonics, sags, swells, and distortion before they damage switchgear or reduce UPS capacity.

TI 480 Pro and TiS75+ thermal cameras reveal hotspots at a glance, while the 810 Vibration Tester identifies bearing wear, imbalance, and misalignment in pumps and fans before they escalate.

And for compliance and safety, Fluke offers insulation resistance testers, clamp meters like the 376 FC, and battery analyzers such as the BT521 to keep backup systems reliable and audit-ready.

The workflows are familiar across tools, so engineers don't lose time relearning every time they switch tasks. Interfaces are intuitive, results are clear, and data can be shared seamlessly between contractors and operators.

> Crucially, with LinkWare Live, certification **records can be uploaded directly from the field and stored securely in the cloud,** giving operators confidence that results are complete and traceable.

And because Fluke is already embedded in most of the world's data centers, teams benefit from continuity. Contractors at build, commissioning engineers at handover, and operators in day-to-day maintenance are all working from the same foundation. That consistency makes it easier to manage change, meet deadlines, and prove compliance – no matter how complex the environment.

Simpler, faster, more reliable

AI loads are rising, cooling demands are spiking, and grids are under strain. The pressures aren't going away. Pick a stat: global data center electricity consumption could double by 2026, reaching more than 1,000 terawatt-hours – around the same annual power use of Japan.[1] Every extra tool, every inconsistent report, every duplicated workflow is another opportunity for delay, mistakes, or downtime.
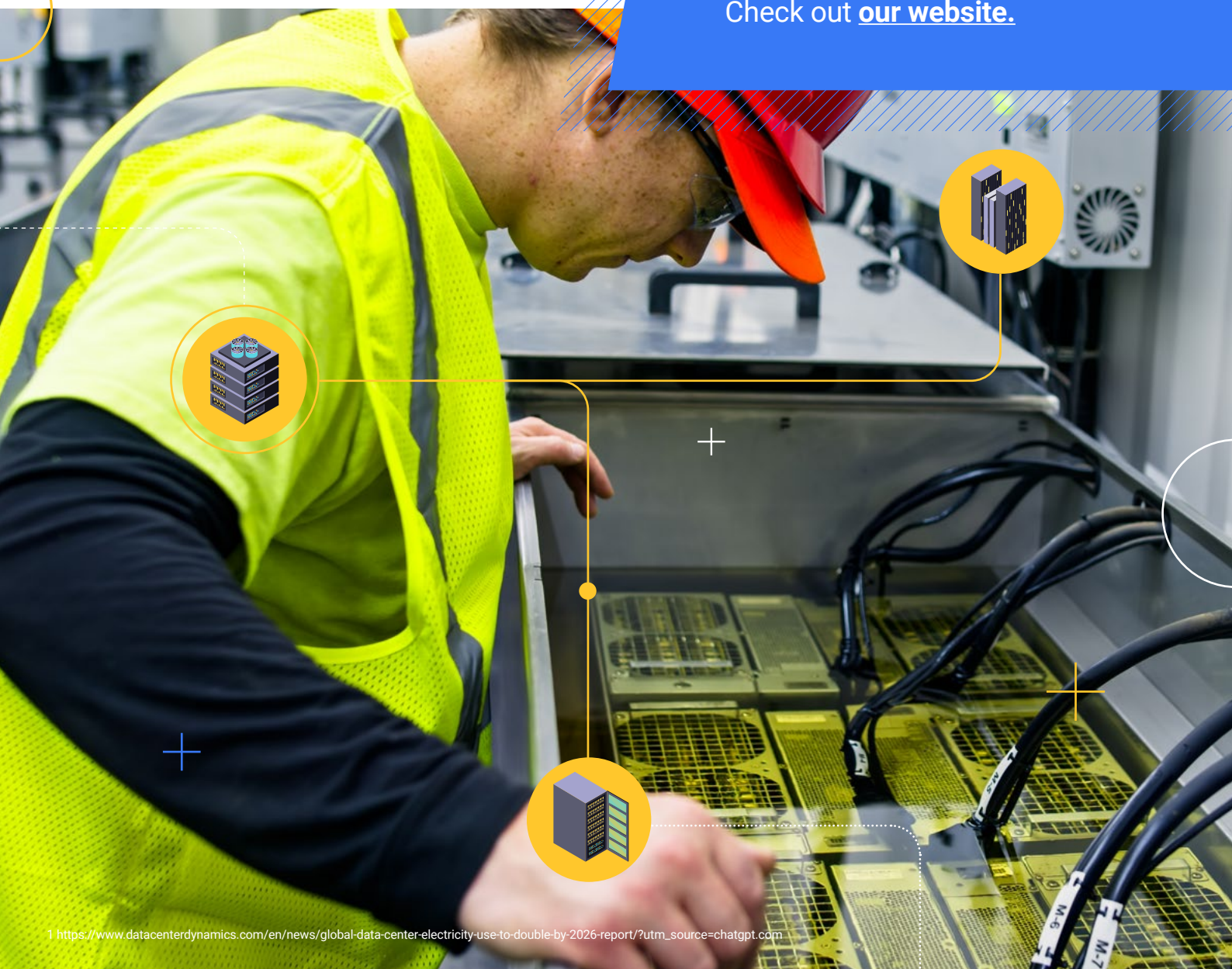
One Fluke takes the opposite approach: simplify, unify, standardize. One toolset, one workflow, one partner across the lifecycle. That means faster handovers with audit-ready documentation, less training overhead, clearer reporting across teams, and proven reliability from commissioning through to operations.

Consistency is control

Data centers don't just need more capacity. They need control. And control comes from consistency. With One Fluke, every team, at every stage, can work to the same standard using tools designed to perform under pressure.

The result is simpler processes, lower costs, and stronger confidence in every system — power, cooling, and cabling alike.

See how One Fluke simplifies your data center lifecycle. Check out **our website.**