



IF IT MOVES, WE SEE IT: GO BEYOND STATIC DISCOVERY

How Continuous, Context-Rich Asset Discovery
Closes Gaps and Powers Confident Action

By: Jeff Collins

Ask any IT leader what's running in their environment right now and you'll probably get hesitation. Not because they don't care, but because their tools weren't built for what today's environments actually look like.

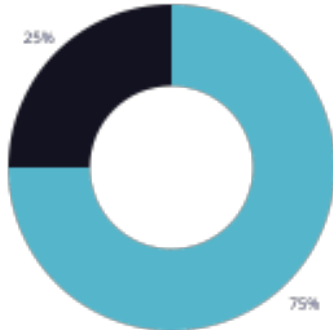
Modern infrastructure doesn't stand still. Cloud workloads spin up and down in minutes. Contractors, partners, and remote teams connect devices no one pre-approved. Shadow IT and SaaS sprawl blur the edges of your network until no single spreadsheet, CMDB, or periodic scan can keep up.

And yet when something goes wrong — when a breach hits, an audit fails, or an outage ripples — that's when teams find

out what they didn't see. Wanaware's 2025 Asset Inventory Management survey shows it clearly: 57.5% of infrastructure and security leaders discovered unknown assets only during an incident or audit. Only 15% say their ITAM platform covers more than 75% of what's out there.

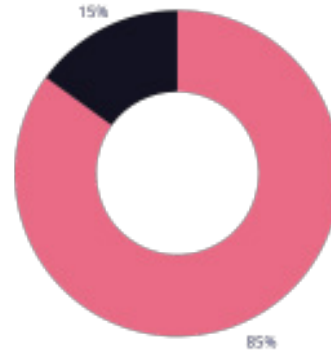
And the trust gap goes deeper. Most leaders still believe they have about 75% of their assets covered — but 85% know they're missing much more than their tools admit.

Perceived Coverage



Avg. % of assets teams believe they cover

Admit They Have Blind Spots



% who know they're missing significant assets



Most leaders believe they cover about 75% of assets — yet 85% know they're missing more than their tools reveal.

The real problem isn't just what you can't see. It's what your tools don't even look for. This paper breaks down where traditional discovery falls short and why going beyond static lists is a must if you want true confidence in what's moving, connected, and at risk.

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 — Source: WanAware 2025 Asset Inventory Management Survey

The Visibility Crisis: What Blind Spots Really Cost

Every unseen asset carries hidden costs and risks. A single unmanaged test server spun up for a few days can expose a public port that no one catches in time. A forgotten IoT device can carry valid credentials for months after it's supposed to be retired.

Why does this happen? Because most legacy discovery tools were built for static environments: fixed IP blocks, known ports, and predictable lifespans. They crumble when assets appear and vanish faster than your tools can check again.

When 80% of IT managers believe they have mature asset inventories but less than half their peers in security or finance agree, trust breaks down. Blind spots don't just inflate costs. They drain budgets, erode cross-team alignment, and bury everyone in extra work when it's time to respond.

Why Legacy Discovery Falls Short — and Keeps Falling Short

Legacy discovery tools were built for an era when environments were stable and assets rarely changed. But today's dynamic, hybrid infrastructure demands more — and old methods can't keep up.

Traditional scans routinely miss what matters most:

- **Ephemeral assets** — short-lived cloud workloads or containers that spin up and shut down before periodic scans can detect them.
- **Shadow IT** — devices and applications deployed outside official processes,

introducing security gaps and unexpected costs.

- **Non-standard ports** — hidden or unusual traffic that legacy tools overlook, leaving risky connections unchecked.
- **Relationships** — the dependencies between assets that reveal what breaks, what's at risk, and how an incident can spread.

It's not that teams don't try — it's that the tools they rely on were never designed for a constantly changing environment. The result? Incomplete inventories, hidden risks,

and wasted hours spent reconciling blind spots that should never exist in the first place.

Here's how legacy discovery stacks up against continuous, context-rich discovery from WanAware:

Legacy Discovery vs. WanAware: What's the Difference?

| LEGACY DISCOVERY TOOLS | VS | WanAware CONTINUOUS DISCOVERY |
|---|----|--|
| Periodic scans, often weekly or monthly | | Always-on, continuous discovery |
| Static asset lists, quickly out of date | | Live, real-time inventory that updates automatically |
| Rigid schemas that reject non-standard data | | Flexible, schemaless ingestion handles any asset type |
| Agent-based setups that add friction | | Agentless, credential-free deployment |
| Limited port scans (typically 80-100 ports) | | Broad port coverage — scans over 1,000 ports |
| Flat lists with no relationship context | | Full relationship graph shows dependencies and blast radius |
| Slow, manual cleanup after incidents | | Immediate visibility to reduce response time and manual effort |

What Modern Discovery Demands

Fixing blind spots for good means discovery can't stop at building a static list. It must deliver live context, adapt to real-world complexity, and keep pace as your environment changes.

That's why today's asset discovery must be:

- **Continuous** — always on, automatically updating as assets appear, move, or change, so inventories stay accurate and complete.
- **Context-rich** — mapping how devices, users, and applications connect, so

teams can trace dependencies and identify risks faster.

- **Flexible** — able to handle non-standard or incomplete data without forcing rigid schemas or expensive custom work.
- **Agentless** — deployed without complex installs or intrusive agents, so you can roll out coverage quickly, with minimal disruption.
- **Integrated** — connected across security, operations, and finance, giving every team the same live source of truth.
- **Usable** — simple enough for generalists to run with confidence, without adding headcount or requiring specialist training.

These aren't nice-to-haves — they're exactly what leaders in our 2025 survey say they need to close hidden gaps, reduce manual work, and make asset management a true strategic advantage.

Top Improvements IT Leaders Want: Real-Time Updates, Unified View, Risk Prioritization

Top Fix: One Clear, Live Asset View

| Desired Improvement | IT Manager (%) |
|---|----------------|
| Real-time updates when assets change or disappear | 22.04 |
| Knowing assets that matter most or highest risk | 19.85 |
| Single view of all assets across locations, devices and systems | 19.13 |

How WanAware Helps You Go Beyond

WanAware's discovery engine is purpose-built for real-world sprawl — hybrid, fast, and messy environments where assets appear and disappear in hours, not months.

It combines multiple techniques to ensure nothing slips through:

- **Passive wire monitoring** — If it sends a packet, we see it. Even assets that never announce themselves to a central system are visible as soon as they communicate, closing gaps that legacy scans miss.
- **Control-plane hooks** — If an asset spins up — a new VM, container, or cloud workload — it's logged instantly at the orchestration layer, not days later when someone remembers to add it to a spreadsheet.
- **Correlation** — IDs, hostnames, MACs, and other fingerprints are unified into a single, persistent record that's retired only when the asset truly disappears — preventing duplicates and stale entries.
- **Deep port coverage** — While most tools scan only 80–100 common ports, WanAware scans 1,000+ to reveal hidden services, unusual traffic, and risky exposures that simpler scans overlook.

But discovery doesn't stop at building a list. Each asset comes with rich context: flow data, ownership details, relationships to other assets, and a live risk profile.

This feeds directly into WanAware's **Knowledge Discovery Engine (KDE)** — a dynamic map of dependencies and downstream impacts. So instead of static spreadsheets, you get a living, actionable graph that shows what exists, how it connects, and what happens next if something fails — turning blind spots into confident action.

So What? Why It Matters in the Real World

One customer thought their inventory was airtight until a contractor spun up a temporary dev server with default credentials and a public IP. It ran for 36 hours. That was enough time to create an unmonitored backdoor.

Going beyond means that doesn't happen. If it moves, you see it. If it talks, you track it. And if it's risky, you know exactly what else is affected before you act.

Outcomes: From Blind Spots to Confident Action

When asset inventories are incomplete or outdated, they quietly drain budgets, delay fixes, and create audit headaches. Wanaware's continuous, context-rich discovery changes that by delivering a real-time, unified asset map that every team can trust — without the manual hunts or stale spreadsheets.

Here's what that means in practice:

- **No more ghost assets inflating costs.** By continuously scanning and verifying every device and license, Wanaware helps eliminate hidden assets that drive up taxes, renewals, or unnecessary support fees.
- **Faster root cause when incidents hit.** When something breaks, teams can instantly see what's connected, what's at risk, and where to focus first — shortening investigation time and avoiding guesswork.

- **Lower exposure by eliminating unknowns.** Unknown devices and software are common entry points for threats. By closing these blind spots, Wanaware reduces security gaps and compliance risks.
- **Easier audits and smoother compliance.** Automated, always-current records replace error-prone manual logs, making it simpler to prove compliance and pass audits without surprise gaps.
- **More time for higher-value work.** Teams spend less time chasing spreadsheets and reconciling static lists — and more time focusing on strategic projects that drive real business value.

Fast Time to Value

Unlike complex deployments that drag on for months, WanAware shows value in hours, not weeks. The platform deploys agentlessly and credential-free, so there's no need to rip and replace legacy tools or add extra hardware. And because it's designed for generalists — not only specialists — teams can get clear, actionable asset intelligence without deep training or dedicated admin overhead.

See What You're Missing — And What to Do Next

At WanAware, we believe discovery isn't just an inventory feature. It's the foundation for safe, confident operations. If you can't see what's moving, you can't secure what matters. And you can't act with confidence if you're guessing what's connected.

Ready to see what you're missing — and what to do next?



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