

IAITAM ACE 2025

ITAM - Another Brick In The Wall

Making SAM Tools Work: Insights from IT Support




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Agenda


- About Me
- Our Views of IT are Vastly Different
- How SAM Tools Work
- Skills and Tools for Effective Support
- Maintenance Cycle & Best Practices
- Why Maintenance Isn't Enough
- Optimization & Collaboration
- Key Takeaways




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About Mark



- Senior ITAM Specialist @ SIE Consulting Group
- Over 15 years experience with ITAM tools & technologies
- Focus on installation, configuration, administration, monitoring & programming
- Volleyball, bicycling, trains & pinball
- 1980s R&B is top billing!




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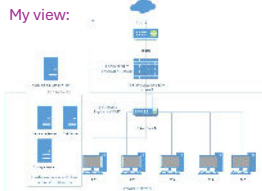
Our Views of IT are Vastly Different


Different perspectives, same goal—making IT work.

Your view:




My view:






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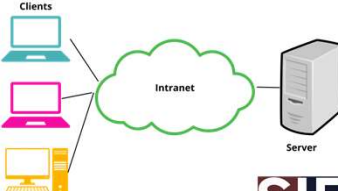
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Back to the Future

Your view of the IT World in the '80s:




My view of Lotus Notes 1.0 in 1989:






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IT Was Easier in the '80s

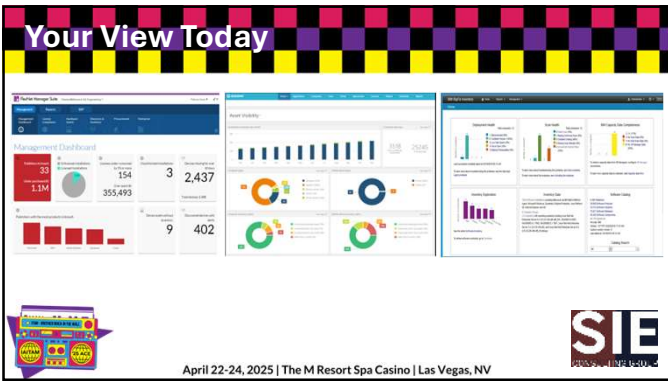
<p>One Server, One Job</p> <ul style="list-style-type: none"> A single server handled everything, including client connections. 	<p>Simple Maintenance</p> <ul style="list-style-type: none"> Less infrastructure to manage = lower costs. 	<p>Fewer Skills Needed</p> <ul style="list-style-type: none"> IT teams required a smaller skillset to provide support. 	<p>Licensing Was Simpler</p> <ul style="list-style-type: none"> No complex agreements or multi-layered compliance rules. 	<p>Scalability Was a Challenge</p> <ul style="list-style-type: none"> Expanding systems was difficult compared to today.
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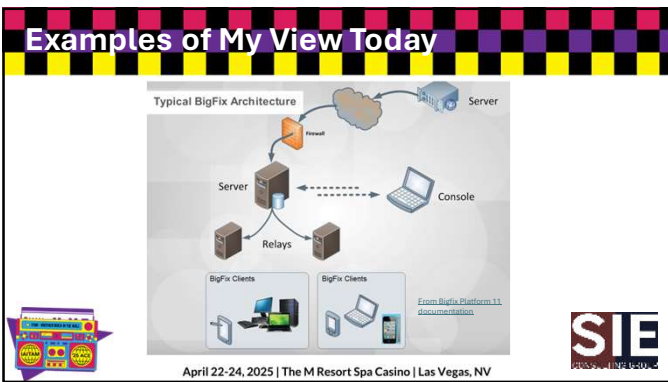
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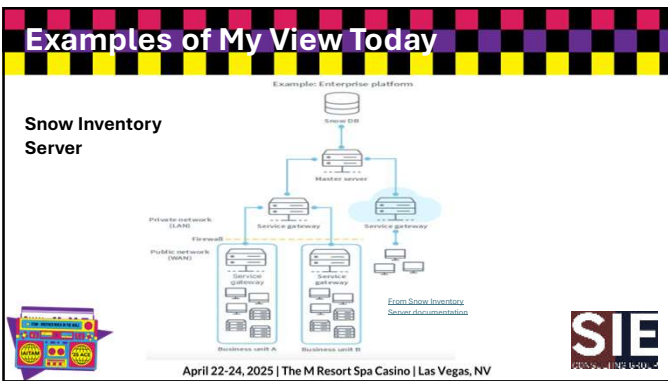
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How SAM Tools Work - The Breakdown

Software Inventory Collection

- Devices (clients) gather software inventory at scheduled times.

Data Transmission

- Collected inventory is sent to designated collection servers.

Centralized Data Processing

- Collection servers pass inventory data to a central server.

Compliance Evaluation

- Automated process compares data with entitlements to assess compliance.


Results Access

- Licensing data is available through a web-based dashboard.

Final Review & Adjustments

- License analysts refine compliance data for accuracy.

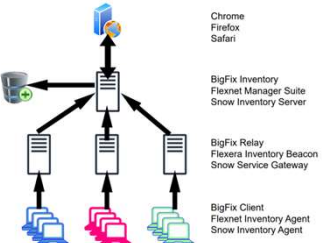
SAM tools are powerful, but they don't work without trained professionals ensuring accuracy.



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Specific Tool Nomenclature




Chrome
Firefox
Safari

BigFix Inventory
Flexera Inventory Suite
Snow Inventory Server

BigFix Relay
Flexera Inventory Beacon
Snow Service Gateway

BigFix Client
Flexera Inventory Agent
Snow Inventory Agent



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Let's Talk About Skills, Baby



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Skills in the '80s

Troubleshooting & Diagnostics

- Testing, network troubleshooting
- Ethernet (1983), Token Ring (1985), SNA (Mainframe)

Operating Systems

- **PC OS:** MS-DOS (1981), Windows (1985), OS/2 (1987), AIX (1986)
- **Mainframe OS:** MVS (1974), VM/370 (1972), AS/400 (1988)

Programming & Scripting


- **Mainframe languages:** REXX, CLISTS, COBOL, Fortran
- **Command-line environments:** Early scripting for automation

Limited PC-Based Software

- Fewer PC products before the late 1980s
- Mainframe access was primary

In the '80s, IT was hardware-focused—troubleshooting networks, managing mainframes, and writing scripts were essential skills.

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Skills in 2025

Operating Systems & IT Basics

- Windows, Linux, Command Line, OS of scanned devices

Technical Troubleshooting & Maintenance

- Network troubleshooting (TCP/IP), database administration, query writing (SQL)

Integration & Customization


- APIs, scripting (Python, PowerShell, Bash), automation

Soft Skills & Business Understanding

- Customer service, documentation, reporting, compliance

Now, SAM is not just a technical job—it requires IT, troubleshooting, automation, and business skills

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Essential IT Tools for Troubleshooting & Management

Network & Connection Checks

- Ping, Netstat, Tracert, Telnet / Test-NetConnection

Service & System Commands

- /etc/init.d / <service> restart, Net start / stop

Network Configuration

- Ipconfig / Ifconfig

Database & Scripting


- SQL Queries, Bash / PowerShell / Python / Batch

Log Analysis & Monitoring

- More, Less, Cat, Type, Tail
- Splunk – Centralized log management

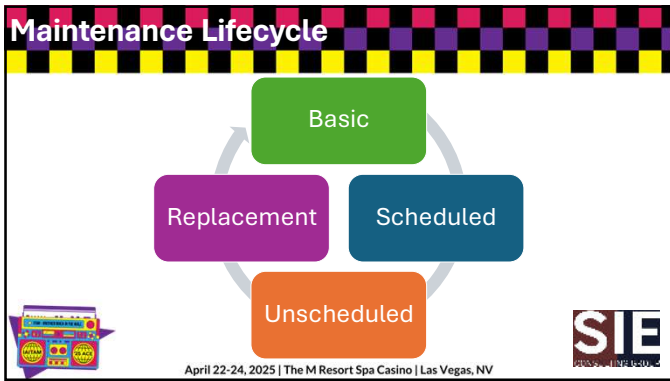
And More... (This is not an exhaustive list!)

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Why Basic Maintenance?

Keeps the car running!

- ☐ Oil Changes
- ☐ Tire Rotation
- ☐ Fluid Checks
- ☐ Hose Checks
- ☐ Brake Checks

Keeps the tool running!

- ☐ Check CPU
- ☐ Check Disk Space
- ☐ Check Memory
- ☐ Incremental Database Backup
- ☐ Apply Patches

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Why Scheduled Maintenance?

Replace parts before expected failure

- ☐ Transmission Services
- ☐ Brake Pads & Rotors
- ☐ Spark Plugs
- ☐ Anti-freeze Flush
- ☐ Battery

Prevent & Resolve Defects


- ☐ Application Patches
- ☐ Database Maintenance
- ☐ Full Server Backup
- ☐ Tool Version Upgrades
- ☐ OS Upgrades

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Why Unscheduled Maintenance?




Fix Issues as they occur

- ☐ Car Stalled/Won't Start
- ☐ Leak (Oil, Anti-Freeze, etc.)
- ☐ Overheating
- ☐ A/C Broken
- ☐ Intermittent Issues



Fix Issues as they occur


- ☐ No Agent-Server Connection
- ☐ Agent Stopped Running
- ☐ Memory Leak
- ☐ Application Crash
- ☐ Hotfixes



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Replacement




When?

- ☐ Transmission Failure
- ☐ Engine Failure
- ☐ Repair Cost Exceeds Car Value
- ☐ New Functionality Wanted
- ☐ Outgrew Current Model



When?

- ☐ Hardware Failure
- ☐ Severe Performance Issues
- ☐ No More Vendor Support
- ☐ New Functionality Wanted
- ☐ Requirements Not Met



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Maintenance Best Practices

Stay on Schedule

- Don't defer maintenance—small issues become big problems! (NYCTA learned this the hard way!)

Document Everything (Think of it like an oil change log!)


- Helps diagnose issues & roll back changes.
- Keeps track of what's been done.

Standard Procedures Matter

- Create SOPs for infrequent tasks.
- Essential when job roles change.

Train Your Team

- A well-trained staff prevents costly mistakes. (Remember the CrowdStrike "Oopsie!")



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Why Maintenance Isn't Enough

- Check CPU
- Apply Patches
- Monitor Logs


Standard Maintenance Tasks

- Custom Reporting Needs
- Automation Gaps
- Security Requirements

Real Business Challenges

The Problem:

- SAM tools work **out of the box** for basic tasks (inventory tracking, licensing).
- But they **don't always meet unique business needs** (custom user tracking, automation, integrations).
- IT teams need to **go beyond maintenance** to optimize and customize their SAM tools.




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Custom Solutions: Making SAM Tools Work for You

Challenge	Solution	How it Works
Disabling inactive users	Automate user status updates	Use a scheduled SQL procedure to check last login & disable users
Tracking last logged-in user for Macs	Create a user-defined field	Pull hidden Mac login data and display it in the SAM tool UI
Mapping computers to company divisions	Assign assets dynamically	Use ActionScript to match devices to business units automatically

SAM tools are powerful, but they don't solve every business challenge out of the box. Custom automation, integrations, and reporting enhancements take your ITAM program to the next level!




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Case Study: Disabling Inactive Users

SAM Tool	Requirement	Analysis	Solution	Note
Flexnet Manager Suite On-Prem	Disable users who haven't logged in for 30 or more days	<ul style="list-style-type: none">• FNMS tracks last login date though the user interface may not expose it• Access to backend databases and a published schema available• Compare last login date with today's date• If difference met threshold, change user state to Disabled	<ul style="list-style-type: none">• Stored Procedure scheduled to run weekly	<ul style="list-style-type: none">• Solution would not be possible with Flexera One.• No access to backend databases• Would need to rely on Flexera Support for a remedy





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Case Study: Last Logged In User for Macs

SAM Tool	Requirement	Analysis	Solution
<ul style="list-style-type: none">Flexnet Manager Suite On-Prem	<ul style="list-style-type: none">Last logged in user displays for Windows devices; it should display for Mac devices, too.	<ul style="list-style-type: none">Field populated in databaseNot shown in UI because field value was used to perform a lookup to Active Directory, and the lookup was not foundUser formats on Mac and in Windows were differentFNMS supports user-defined fields	<ul style="list-style-type: none">User-defined field for Mac last logged in userStored procedure to reformat "hidden" last logged-in user value and place it in the user-defined field





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Case Study: Device Division Lookup

SAM Tool	Requirement	Analysis	Solution
<ul style="list-style-type: none">IBM License Metric Tool	<ul style="list-style-type: none">Given a device, identify the company division it belongs to.	<ul style="list-style-type: none">BigFix platform allows for creation of computer propertiesSource data available that lists all known devices and their division, obtained externally from ILMTPresence in a file represents the division	<ul style="list-style-type: none">Create ActionScript toDownload source data to deviceCreate a Windows script file or a Linux bash file on the device, on the flyLaunch script to determine divisionCreate property for deviceClean up after itselfCreate task to launch ActionScript on all Windows and Linux devices



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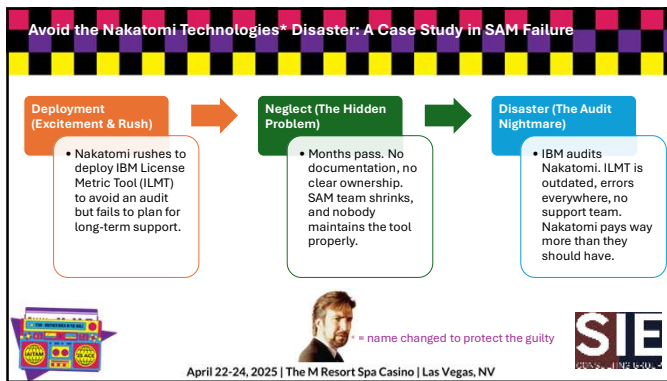
Improve Collaboration for Better SAM Outcomes

Make Data Accessible	Leverage SAM for Security & Cost Savings	Document & Share Knowledge	Build a Strong SAM Team	Secure Executive Buy-In
<ul style="list-style-type: none">Use Splunk or similar tools to share insights without granting full tool access.	<ul style="list-style-type: none">Help Security teams identify outdated or prohibited software.Reduce unnecessary software → Save money & improve cybersecurity.	<ul style="list-style-type: none">Create a Wiki for:<ul style="list-style-type: none">Deployment & Asset Management How-To'sTranslating SAM metrics into business value (PVUs → Dollars)	<ul style="list-style-type: none">Invest in training & develop a Center of Competency.Combine technical, analytical & business skills for maximum impact.	<ul style="list-style-type: none">Not just at the start! Maintain leadership support as your SAM tool evolves.

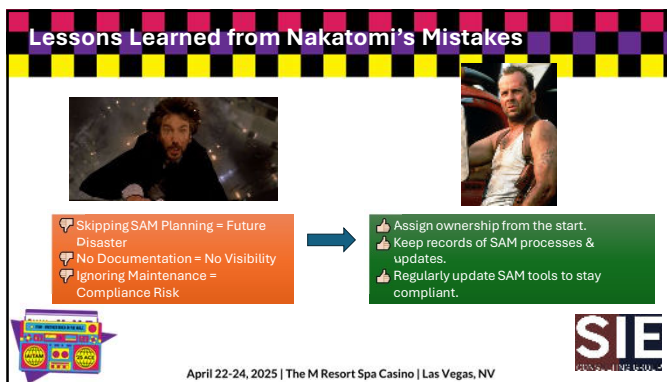


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Level Up Your SAM System: Performance Boost Strategies

	OPTIMIZATION FOCUS	EXAMPLE FIX
LEVEL 1: REDUCE TECHNICAL DEBT	Clean up outdated configurations & remove legacy scripts	Identify redundant processes & retire unused agents
LEVEL 2: IMPROVE DATABASE PERFORMANCE	Optimize queries & reduce system load	Schedule reconciliations wisely to avoid slowdowns
LEVEL 3: ENHANCE REPORTING & ANALYTICS	Tune dashboards for better insights	Pre-filter data before running large queries
LEVEL 4: AUTOMATE & SCALE	Use scripts & integrations for efficiency	Implement API connections & scheduled maintenance

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Final Boss Battle – Defeat SAM Chaos & Optimize Your Processes!

Your mission:
Defeat SAM Chaos and transform SAM from a slow, inefficient system into a strategic powerhouse!

PROCESS FOCUS	ATTACK MOVE!
LEVEL 1: IDENTIFY GAPS IN FUNCTIONALITY	ASSESS YOUR SAM TOOL'S CAPABILITIES & MISSING FEATURES
LEVEL 2: GET TO KNOW ANALYTICS & REPORTING	UNLOCK HIDDEN INSIGHTS BY OPTIMIZING DASHBOARDS
LEVEL 3: CHANGE ATTITUDES ABOUT SAM	COMMUNICATE THAT SAM IS ABOUT MORE THAN COUNTING LICENSES
LEVEL 4: MAKE SAM A STRATEGIC ENABLER	USE SAM TO IMPROVE DATA QUALITY, COLLABORATION & DECISION-MAKING

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Key Takeaways

1. SAM Tools Are Only as Good as Your Strategy

- Regular maintenance, proper optimization, and executive buy-in are critical for success.

2. Collaboration is Key

- IT, Security, and Leadership must work together to maximize SAM's value.

3. Turn SAM into a Business Enabler

- It's not just about compliance—use data for cost savings & better decision-making.

4. Invest in People & Processes

- Training, documentation, and clear workflows keep SAM effective over time.

5. Optimization is an Ongoing Process

- Keep refining your system, updating best practices, and leveraging automation.

What's one change you'll take back to your organization today? Let's turn insights into action!

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Let's Do The Time Warp Again!





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Questions?

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Connect with Me!



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