



CASE STUDY

— ARMY NETWORK MODERNIZATION

# Army NETMOD ran on ITPIE.

How the Army modernized **85,000+ switches** across **115+ installations** with **zero mission disruptions**, using ITPIE: network intelligence and automation software that VAE engineers built for DoD.

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# Rebuild the Army's network. Keep it running.

Army NETMOD, the Army's network modernization program, set out to replace the network infrastructure at Army installations across the U.S., Southwest Asia and Europe. Every base had been built differently, with its own configurations, naming and design. Every cutover would happen on a live network that units were running missions on. Before VAE took on NETMOD-C, one of the program's contracts, the average site took two years.

**115+**

installations, no two alike

**Live**

networks under every cutover

**Zero**

downtime allowed

To move fast without breaking anything, the team first had to know every base completely: what was on it, how it connected and what it needed to become.

# No tool could answer the questions.

## So they built one.

VAE engineers running NETMOD were asked questions no existing tool could answer. What's on this base? How does it connect? What should it look like after cutover? What they built to answer them became ITPIE OPS, now ITPIE Atlas: the foundation of VAE's ITPIE software.



### Know the base, before anyone travels

Software mapped every device and link at each site remotely, reducing or eliminating manual surveys.



ITPIE  
**ATLAS**

CARRIED NETMOD: MAPS +  
INVENTORIES YOUR NETWORK



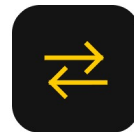
### Build it right, the first time

Standard designs and templated configs, with 99% accuracy across configs, materials and assets.



ITPIE  
**AXIOM**

BUILT SINCE: KEEPS CONFIGS  
TO STANDARD



### Cut over, without ever going dark

The new network ran alongside the old one until traffic moved over, so units kept working throughout.



**Products +  
People**

TURNKEY SOLUTION  
ITPIE SOFTWARE +  
VAE ENGINEERS

Built since on the same foundation: **ITPIE Axiom** (golden configs), **ITPIE Fulcrum** (AI over your own data) and **ITPIE Polaris**, every deployable product pre-integrated on one hardened appliance.

# One base, **start to finish.**



## Discover

ITPIE inventories every device and connection remotely and accurately.



## Design

Engineers standardize the architecture and naming from what ITPIE found.



## Prove

Configurations run in VAE labs first. NETMOD-C ran 42 tests before deployment.



## Rehearse

Full dress rehearsals test the whole deployment with the base's own network team.



## Cut over

Old and new networks run side by side until traffic moves over. Users keep working.



## Stay current

ITPIE keeps re-checking the network, so the picture stays accurate as schedules stretch.



Discover, design, prove, rehearse, cut over. The same sequence used at every installation.

THE RECORD ON NETMOD-C

47

NETMOD-C SITES

0

ROLLBACKS IN 5 YEARS

266,000+

USERS MIGRATED ON THE FOLLOW-ON CONTRACT, MID-COVID

## Army NETMOD, by the numbers.

# 85,000+

NETWORK SWITCHES MODERNIZED

## 115+

Installations across the U.S., Southwest Asia + Europe

## Zero

Mission disruptions across NETMOD

## 99%

Configuration accuracy

## 16+

Installations per year, vs. 6–8 typical

## \$12M+

Saved vs. traditional approaches

## On time

On budget, every phase

### A CLOSER LOOK

## NETMOD-C

One of VAE's Army NETMOD contracts, start to finish.

## 47

sites modernized

## 26,719

switches deployed

## 530K+

users on the networks VAE modernized

## 0

rollbacks in 5 years

## 9 mo.

average per site, down from 2 years

### THE OUTCOME

## Made “impossible” routine.

# // NETMOD engineers will not migrate a base without ITPIE.

/ / ARMY ENGINEERING LEADERSHIP

## WEEKS → 3 HOURS

"Complex network implementations that took experienced engineers weeks are now completed by new personnel in 3 hours, with zero errors."

## HOURS → MINUTES

"When cyber threats emerge, we have answers in minutes instead of hours. That response time can mean the difference between contained incidents and compromised operations."

## HOPE → CERTAINTY

"Instead of hoping configurations would survive deployment, we know they will."

FROM THE NETMOD ENGINEERING TEAM

# What NETMOD proved **now ships as ITPIE products.**

Atlas carried NETMOD. Axiom and Fulcrum were built since on the same foundation, all delivered on Polaris. Use them for your next modernization, or for the networks you run every day.

ITPIE  
**ATLAS**

KNOW YOUR IT

IN NETMOD

Surveyed every base remotely before cutover.

FOR CUSTOMERS

Survey a site before cutover and hand your migration team an inventory they can trust.

CAPABILITIES

DiscoveryDashboard

ITPIE  
**AXIOM**

TRUST YOUR IT

BUILT SINCE

Golden configs and compliance on the same foundation.

FOR CUSTOMERS

Hold golden configs, find non-compliant devices and fix common issues in one push.

CAPABILITIES

Source of truthSecurityLifecycle

ITPIE  
**FULCRUM**

ASK IT ANYTHING

BUILT SINCE

Closed-environment AI on the same foundation.

FOR CUSTOMERS

Bundled with Polaris products: ask your network questions in plain English, answered from your own data.

CAPABILITIES

Intelligence (AI)

ITPIE  
**POLARIS**

RUN IT AS ONE

One sign-inOne hardened applianceOn-prem or air-gapped

WHAT THE SUITE COVERS

DashboardDiscoverySource of truthLifecycleEventsTicketing integrationSecurityIntelligence (AI)

**Also in the suite:** Foresight (modeling and failure simulation) · Cascade (events) · Mural (common operating picture) · Hydrator (onboarding and offboarding)

|                                                   |                                                                                                   |                                                                                         |                                                                                       |                                                                                            |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| START WITH ONE PRODUCT, OR RUN THE WHOLE PLATFORM | <b>Network modernization</b><br>NETMOD, COMPMOD: rebuild a base's network without taking it down. | <b>Base cutovers</b><br>Move a site onto a new network with an inventory you can trust. | <b>Tech refresh</b><br>Find gear that's past end of support and plan its replacement. | <b>Daily network operations</b><br>Give NOC, help desk and field teams answers in minutes. |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|

— YOUR NEXT STEP

# Planning a modernization? Start where NETMOD did.

Bring us one installation. We'll show you what's on it, how it connects and what it would take to modernize it without an outage.

## Live demonstration

See the tools work through real network scenarios, start to finish.

## Contract vehicles

Buy through NASA SEWP V, ITES-4H, GSA MAS and more.

## Technical discussion

60 minutes with the VAE engineers who built it.

## Peer references

Talk to network managers who have run ITPIE for years.

**Book a demo →** [sales@itpie.com](mailto:sales@itpie.com)



SCAN FOR BRIEFS,  
DEMOS + MORE



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