

Gluware Network RPA

Build, Test and Deploy Intelligent, Event-Driven End-to-End Process Automation

Problem

Traditional network automation approaches often involve long and expensive cycles to train network engineers on coding and scripting, then develop, test, and maintain homegrown solutions. Infrastructure automation also requires domain expertise and integration work for multi-domain networks and the various tools and systems in the management plane. Organizations often build up a large amount of technical debt in the form of scripts and integrations that few know how they are built or how they run. This creates limitations on who can build, test, and operate automation within large IT organizations. "Tribal knowledge" has become a severe limitation to who knows how complicated IT Infrastructure is being operated and managed. Automation solutions need to evolve to be no-code/low-code and enable end-to-end process automation that is available to all engineering and operational staff.

Solution

Gluware Network RPA provides the ability to create, manage, and monitor no-code process automation (a.k.a. workflows). It runs inside the Gluware Control web-based UI and is tightly integrated with the suite of automation applications. The purpose of Gluware Network RPA is to provide users, including network engineers and operators, with the ability to create, manage, and run end-to-end process automation for workflows such as moves/adds/changes/deletes (MACD), assessments, troubleshooting, operating system change processes, configuration management, and other end-to-end processes. Network RPA provides users with access to pre-built task-level operations from each Gluware application, along with external tasks for integrations with systems such as ITSMs, IPAMs, monitoring and Syslog. The library of tasks available for inclusion in the workflows will continue to expand, providing additional Gluware functionality along with functionality through 3rd-party systems, including the open-source StackStorm with 150+ integration packs, and the ability to implement custom API integrations using low code Gluware Lab.

Why leading enterprises choose Gluware

What I found was a pre-packaged automation solution that allows our engineers to employ the same CLI to which they are used. Gluware allows them to use the same syntax, the same commands, and it will abstract that and build the automation that they need.



James Radford
VP of Operations,
Mastercard



Outage Reduction



Eliminate manual
config errors

Automate



Operating system
upgrades of multi-
vendor devices

Predictability



Automating
configurations
keeping the
network consistent
and predictable

Efficiency

50:1 reduction
in time
needed per change
compared to manual

Benefits

Network RPA builds on the app suite already used by customers offering the ability to “stitch together” tasks like Drift + Config Modeling for remediation use cases and insert external interaction for ITSM, monitoring, messaging, and more increasing the use cases of the Gluware Intelligent networking platform can address - this accelerates ROI and increases consolidation of automation solutions.

Enhance Security

Network RPA enables IT organizations to build and operate automated security responses which can include event-driven config drift and audit activities, automated network state assessments, and network configuration changes to secure and segment the network as part of a security response.

Minimize Downtime and Outages

Due to manual interaction and mistakes, network issues including degraded conditions and outages are often extended. Using Network RPA frequent operational activities like moves, adds, changes and troubleshooting can all be automated end-to-end.

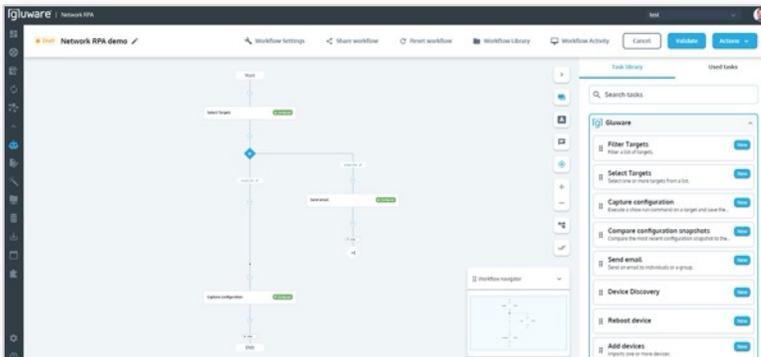
Maintain Compliance

Periodic mostly manual audits are not enough for most organizations and being out of compliance can cause expenses and liabilities. Network RPA enables wrapping audit checks around all network change activities to ensure compliance is maintained.

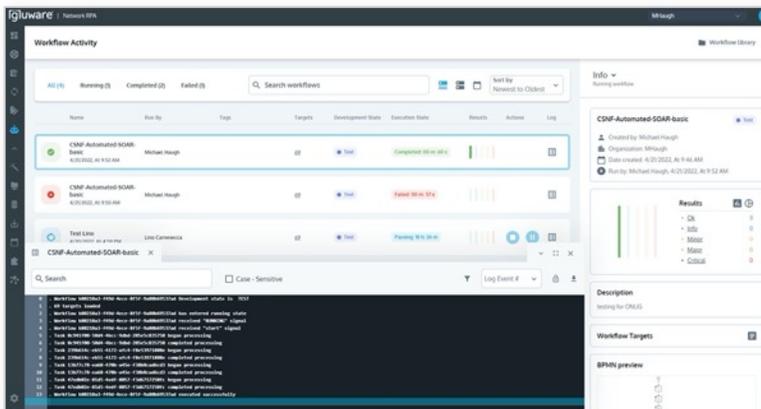
Enable NetDevOps

NetDevOps is an approach that involves a CI/CD process to build, test, deploy, run and monitor. When applied to NetOps using Network RPA this can be accomplished in a no-code approach and automation can be accelerated with quality for IT organizations.

Workflow Editor



Workflow Activity



Gluware Network RPA

- Enables no-code, drag-and-drop ability to build, test, run and monitor intelligent process automation.
- Workflow Editor with intuitive drag-and-drop canvas
- Workflow Library to manage, curate and run
- Workflow Activity to view summary and detailed operational status and logs

Intelligent Network Automation

Automating multi-vendor, multi-domain networks require three key attributes to deliver on the time-to-value, scalability/reliability, and complexity requirements of the modern enterprise: out of the box solutions to deliver rapid value, intelligence to handle complexity and the ability to be easily customized.

Suite of Applications

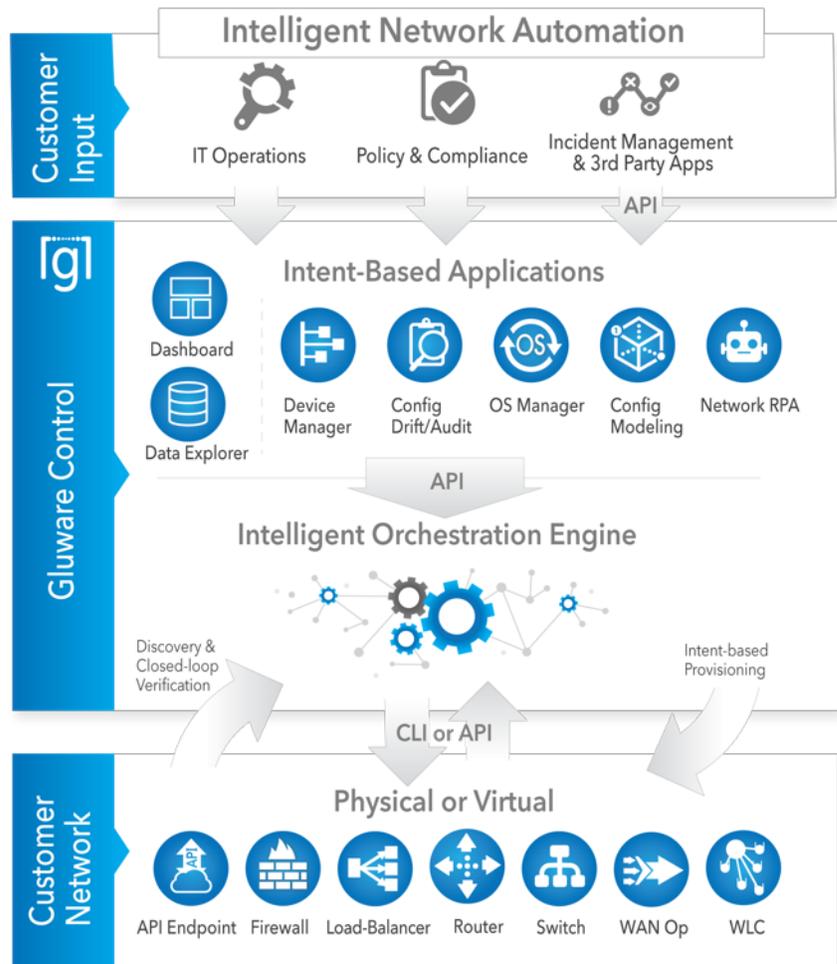
Gluware provides a suite of applications to inventory, config drift monitor, config audit, automate OS upgrades, configuration manage, automate processes and more. These out of the box capabilities deliver rapid value to consolidate automation platforms.

Intelligent Orchestration Engine

The Gluware orchestration engine provides the underlying components to safely and securely manage CLI, API and Cloud systems at scale, across multi-vendor, multi-domain networks. The modern architected, data-model driven system provides idempotent declarative provisioning for reliability.

Integrated Vendor Adapters

Gluware provides a complete, integrated stack supporting 40+ network operating systems across traditional (CLI), modern (API) and public Cloud domains. The integrated semantic engine enables intelligent interaction to read and write with the native CLI/API/Cloud. The low code Gluware Lab IDE provides the ability to customize abstractions, business logic and integrate additional 3rd party systems.



Watch the Gluware Network RPA demo

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