

## **Introducing Gluware 5**

Gluware Topology, API Modeling, Service Connectors, & Enhanced Network RPA

October 2022

### Introducing Gluware Release 5



with Topology, API Modeling, Service Connectors, and enhanced Network RPA

# We just took intelligent network hyperautomation to the next level.

Powered by embedded intelligence and unparalleled ease-of-use, **Gluware 5** delivers essential features and functionality that enterprises need to level-up and accelerate digital transformation and hyperautomation.

Gluware.com/release5



## Agenda

- Brief Gluware Intro
- What's new in Gluware 5 release
  - Gluware Topology App
  - API Modeling
  - Gluware Service Connectors (GSCs)
  - Network RPA Enhancements



## **Gluware Summary**

Intelligent Network Automation software platform that brings order to inherent network chaos



Expanding enterprise sales from Fortune 500 enterprises to the Global 2000 market











Multi-vendor, multi-domain, brownfield and cloud architectures



World-class partners, platforms and integrations

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cisco.	aws	<b>(5</b> )
F#RTINET.	JUNIPER	₽ paloalto

Recognized by leading industry analysts.









Management team with 200+ years enterprise network experience. Backed by Bain Capital.





# Gluware's universal abstraction layer brings order to inherent network chaos

### **Intelligent Network Automation**

#### Multi-Vendor, Multi-Domain, Multi-Cloud

• Brownfield and modern LAN, WAN, DC, cloud architectures

### Intent-Based Deep Insight and Action

• Declarative brownfield and modern architecture policy automation

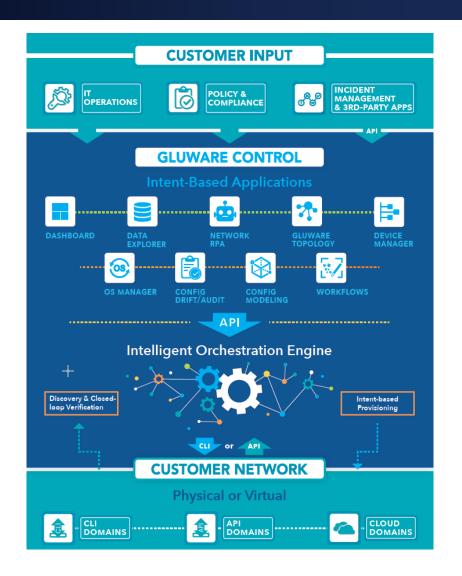
### Continuous Optimization

- Network policy tuning
- Intelligent auto-remediation
- Integrated Development Environment (IDE) for CI/CD
- Network RPA for Drag-and-Drop NetDevOps





## **Gluware** Intelligent Automation Platform



- Suite of No-Code Intelligent Apps hosted SaaS or onpremises install
- Drag-and-drop Process Automation and new Gluware Topology App
- Gluware Multi-Engine Architecture with Zone Engine Servers and Secure Gateways
- Flexible deployment options based on customer requirements
- Scales to tens of thousands of devices supporting global enterprises
- Low-Code Gluware Lab IDE for customization, integration



### **Gluware 5 Release Summary**

### Gluware Topology

#### **Use Gluware Topology to**

- Visualize your network
- Enhanced troubleshooting
- Generate site documentation

### **API Modeling**

#### **API Modeling enables**

- Gluware app support for API based network controllers (southbound)
- Support for Cisco Meraki
- Package releasable API support

## Gluware Service Connectors(GSCs)

## Gluware Service Connectors deliver

- Pre-built and supported API integration packages (northbound)
- REST Development Kit package for Gluware Lab
- ServiceNow, EfficientIP and more to come...

### Network RPA Enhancements

#### Network RPA Enhancements

- More than a dozen new native Gluware tasks
- Variable management
- Enhanced sharing and comments
- Support custom integrations



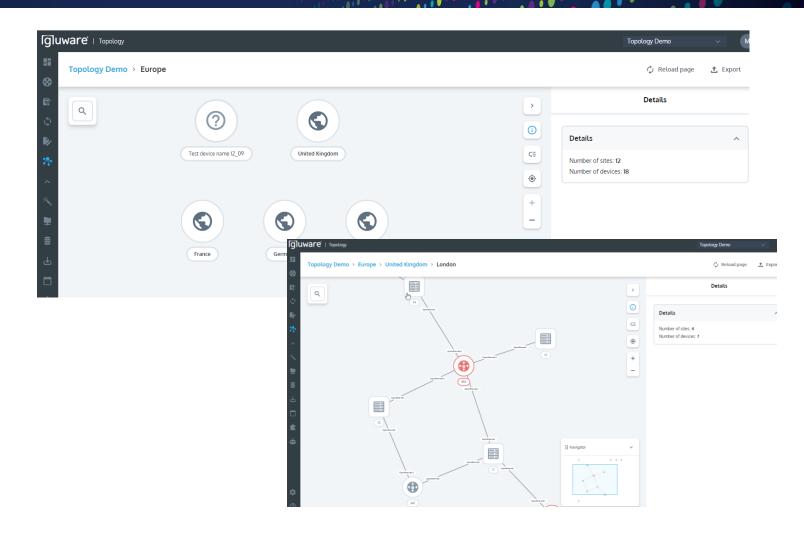


## **Gluware Topology**

## Gluware Topology Network Visualization, Site Diagram, and Enhanced Troubleshooting

# **Introducing Gluware Topology**

- Gluware vendor adapters
- Advanced discovery capabilities
- Network visualization
- Site documentation
- Enhanced troubleshooting



## **Gluware Topology – Site Explorer**



Site Explorer in Device Manager

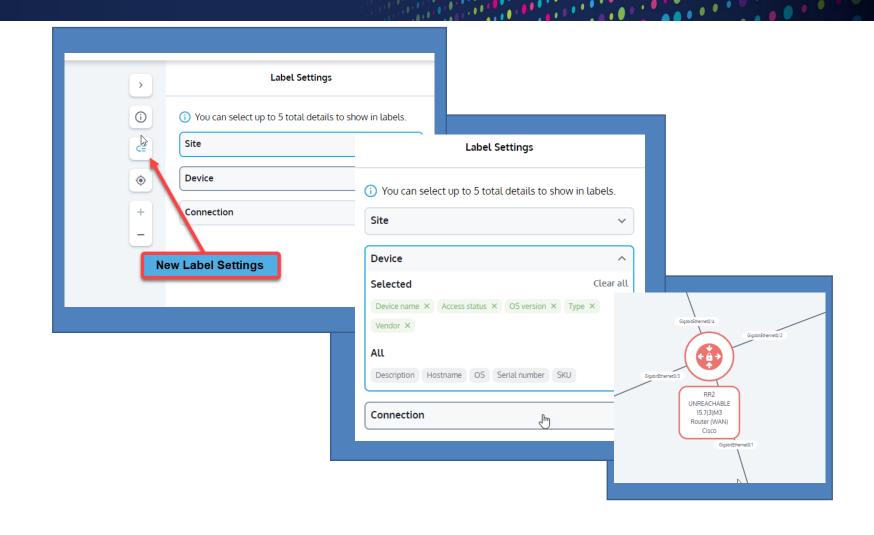
**Site Explorer** provides the ability to define additional details about the device location and contact details that are used on the map



## **Gluware Topology – Label Settings**

### **Label Settings** enables

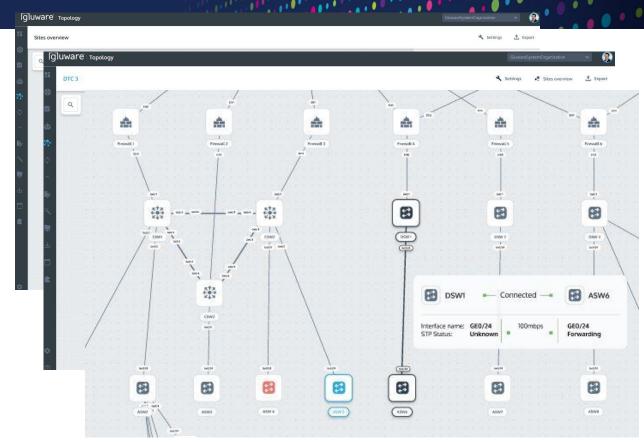
- User defined labels for Sites, Devices and Connections
- Select up to 5 labels
- Labels are visible on the map





## Gluware Topology - Visualize Your Network

- Navigate directly into the topology view from the Device Manager inventory
- Topology provides a hierarchical view from a global level with a drill down into each tier
- See float-over summaries and rightside panel for detailed information
- Zoom in and out to adjust the focus of the view
- Network devices can be discovered, imported or loaded via API

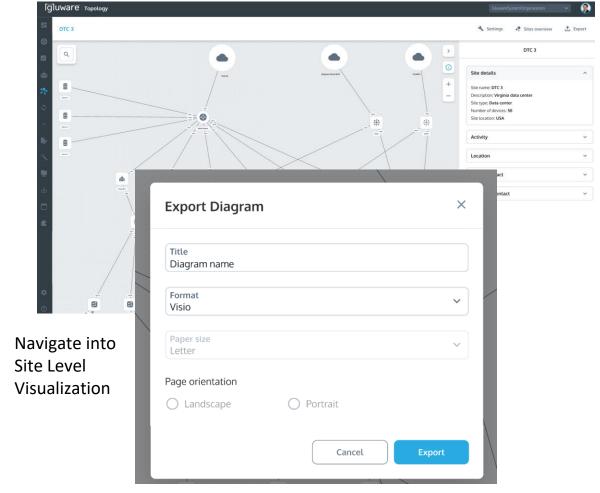


**Device and Link Details** 



## **Gluware Topology - Create Site Documentation**

- Leverage the network discovery and detailed device discovery performed
- Generate visualizations from rich data sets
- Navigate the site visually to inspect sites, devices, links, and more
- Export to standard formats, including Visio and PDF
- Maintain site documentation for standards and compliance

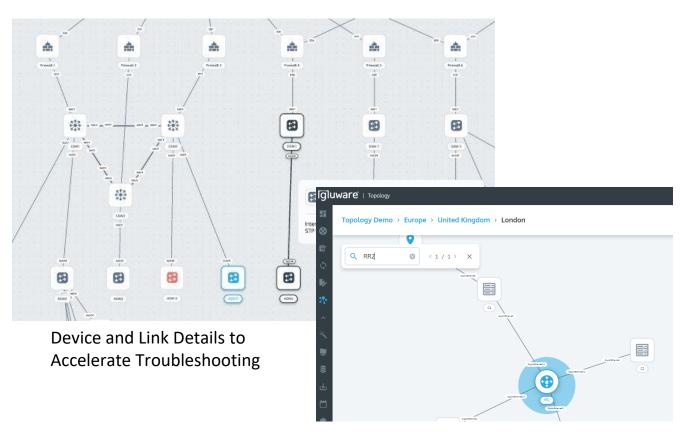




**Export to Visio or PDF** 

## Gluware Topology - Simplify and Accelerate Troubleshooting

- Color-coded health notifications to surface issues related to credentials, reachability and more
- Float-over links to see details related to the connectivity, link speed, operational state and health
- Search device names, MAC and IP addresses to identify the location of the resources in the topology



Search the Network



## **API Modeling**

## Gluware API Modeling Available in Release 5

## **Current**Config (CLI) Modeling

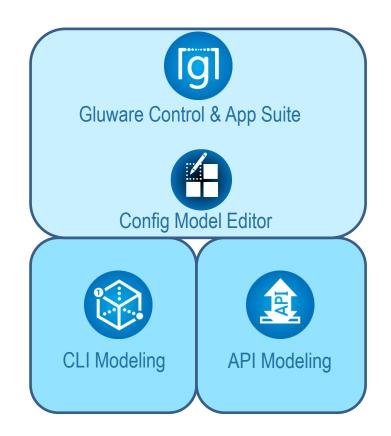
CLI based device interrogation and management.

- CLI Based Data Model
- CLI Configuration Management
- Legacy Device Support
- Direct Model Editor Support









## **New** API Modeling

API Based Device Interrogation

- API Based Data Model
- Automatic API Discovery (REST)
- Third Party and Custom API Support
- Direct Model Editor Support





## **API Modeling – Cisco Meraki**

Gluware API Modeling support for Cisco Meraki introduces support for the Gluware app suite including:



- View inventory across Orgs
- Search/sort, find
- Enables data to be used in Dashboard and Data Explorer for reporting



- Identify config drift
- Execute no-code config audits

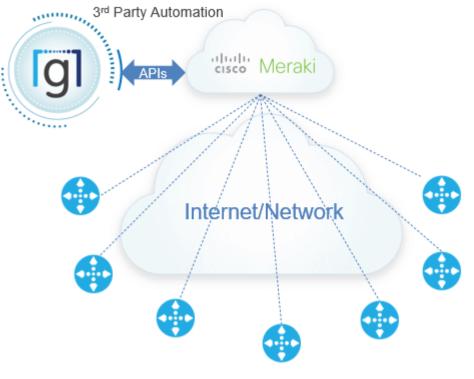


### Config Model Editor

- Automate config changes across Orgs and Networks
- Modeled features for
- SSID, DHCP, SNMP, NetFlow, SAML...



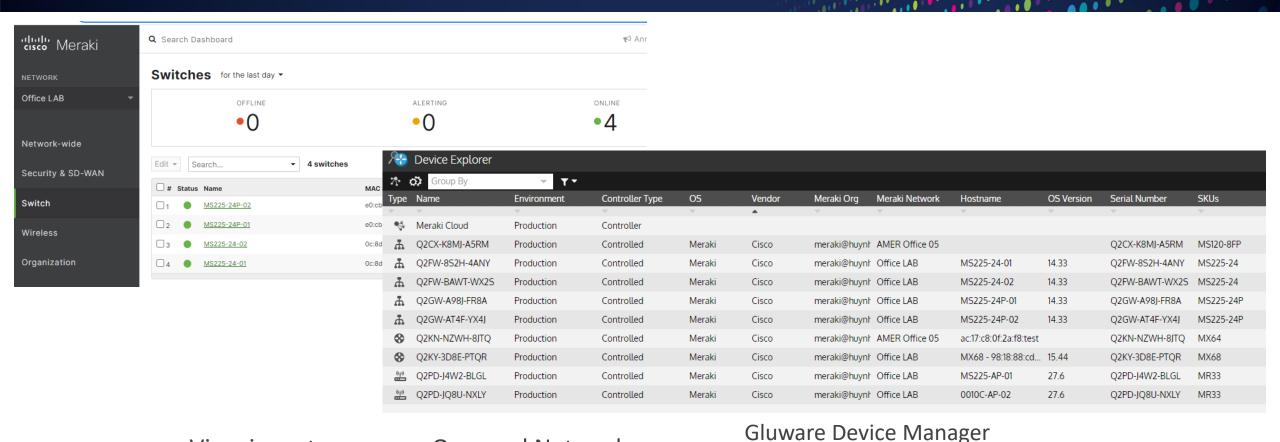
- Automate end-to-end processes
- Integrated 3<sup>rd</sup> party service APIs



Meraki Devices (Access Points, Appliances, Switches)



## API Modeling – Meraki Device Manager

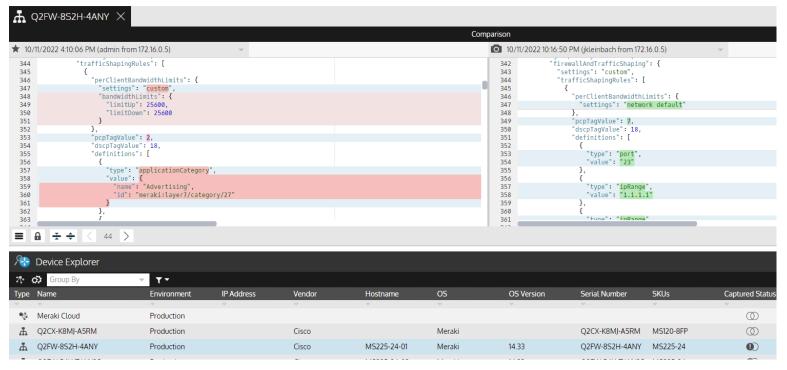


- View inventory across Orgs and Networks
- Search, sort, find/filter

gluware •

Enables data to be used in Dashboard and Data Explorer for reporting

## API Modeling – Meraki Config Drift



Gluware Config Drift

Identify config drift – see exactly what changed



## **API Modeling – Meraki Config Audit**



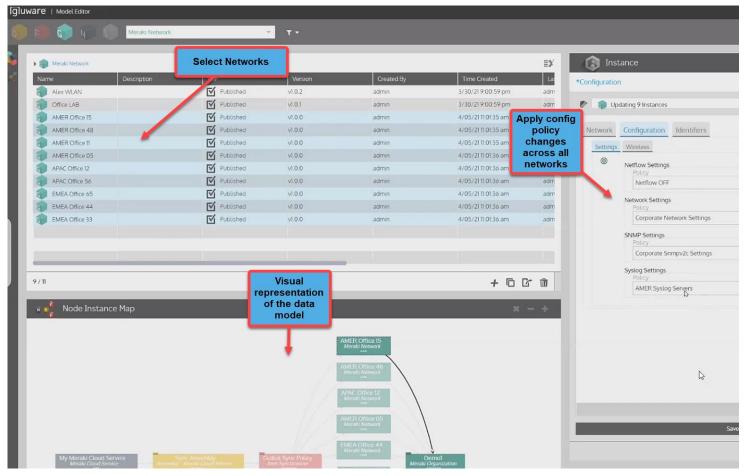
Gluware Config Audit

• Execute no-code config audits



## **API Modeling – Meraki Config Model Editor**

- Automate config changes across Orgs and Networks
- Abstracted features to simplify configurations
- Example modeled features for SSID, DHCP, SNMP, NetFlow, SAML...



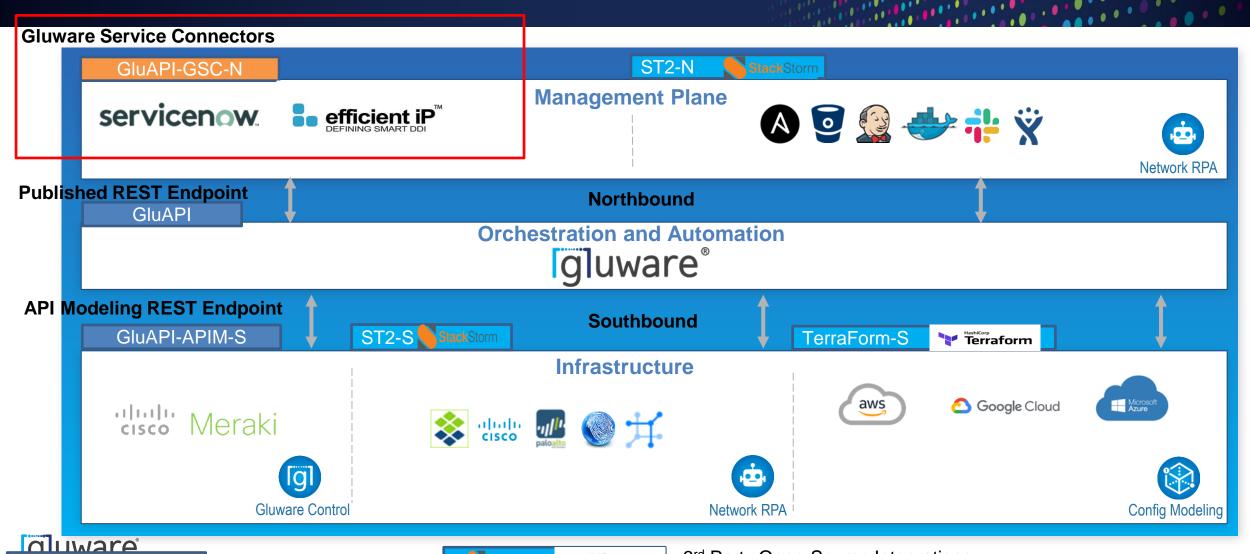




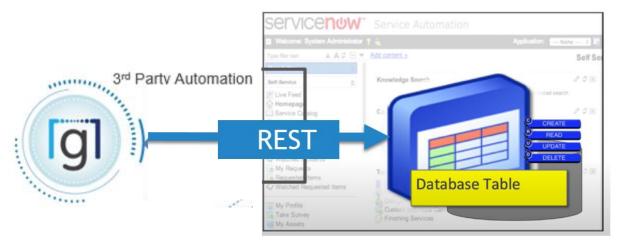


## **Gluware Service Connectors**

### **Gluware API Architecture**



## **Gluware Service Connectors (GSCs)**



#### **ServiceNow IT Service Manager GSC**

- API onboarded with support from Gluware
- Package of no-code Network RPA tasks for drag-and-drop process automation
- REST Development Kit Package with Lab License

#### **REST-based capabilities include:**

- ServiceNow Problem Management
- ServiceNow Asset Management
- ServiceNow Incident Management
- ServiceNow Change Request Management



#### EfficientIP DNS, DHCP, IPAM (DDI) GSC

- API onboarded with support from Gluware
- Package of no-code Network RPA tasks for dragand-drop process automation
- REST Development Kit Package with Lab License

#### REST-based capabilities include:

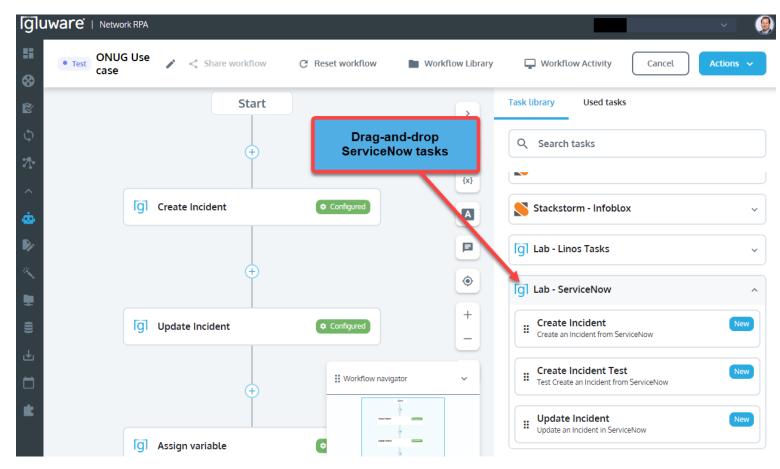
- **DNS Service Management**
- **DHCP Service Management**
- IP Address Management (IPAM), VLAN, VRF



### **Gluware Service Connector for ServiceNow**

### N-RPA Task Category: ServiceNow

- No-code Drag-and-drop canvas
- Pre-built ServiceNow tasks
- Variable handling
- Build workflows with Gluware and 3<sup>rd</sup> party tasks
- Event-driven with specific triggers or API call
- Run manual, or schedule



Gluware Network RPA



# Use Case Example – No-Code API Integrations Automating Meraki and Service Now

## **Moving from Task to Process Automation**

- Automating Meraki using no-code app suite, inventory drift/audit
- Automating Meraki using Gluware API Modeling, config policies
- Automating ServiceNow using Gluware Service Connectors
- Using no-code Gluware Network RPA (process automation)



**Management Plane** 



**Northbound** 

Orchestration and Automation

Gluware

**API Modeling REST Endpoint Southbound** 

Infrastructure



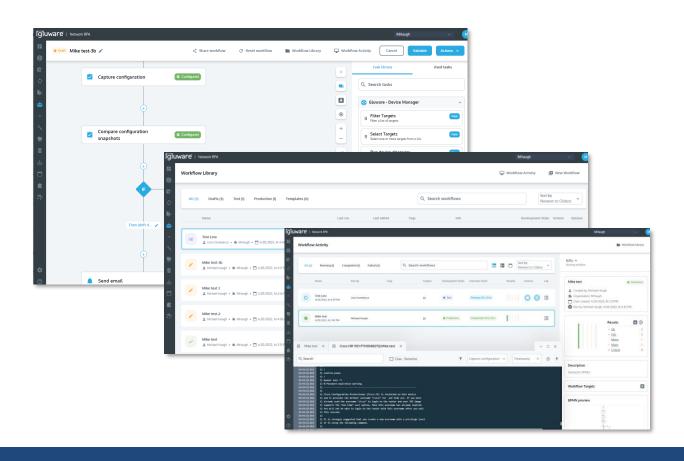




## **Network RPA Enhancements**

# Network hyperautomation is just a few clicks away.

**Get to know Network RPA** from Gluware.





**Library of Pre-Built Automated Tasks** 



**API Exchange & Vendor Ecosystem** -- 200+ Integrations



**Utilize Gluware BOTs or Build Your Own** 

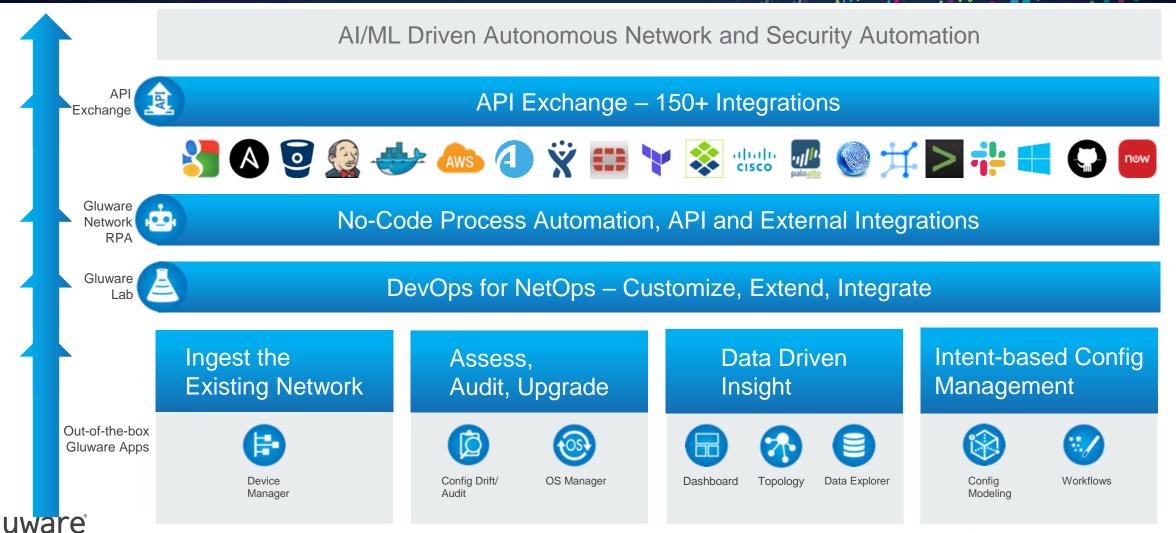


**Patented Award-Winning Platform** 

Superior technology in a drag-and-drop environment. Fastest time to value in the industry.

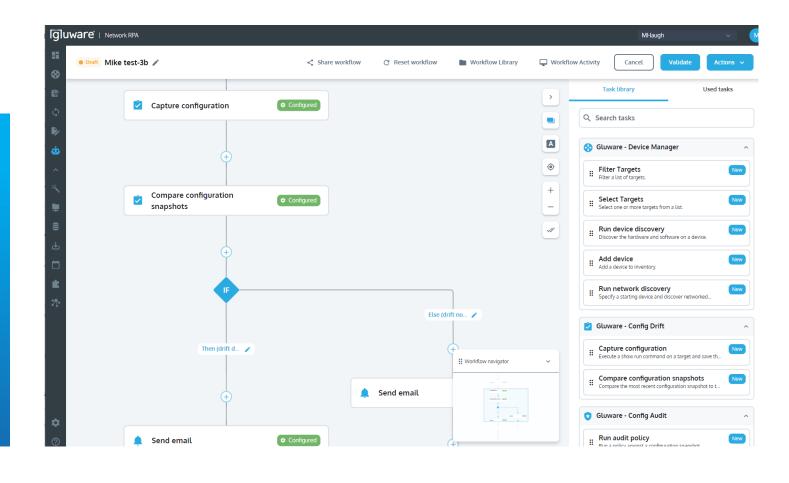


# Gluware Intelligent Network Automation: Rapid time to value out-of-the-box increasing with more abstraction



## Network RPA No-Code Editor Simplifies Workflow Design

- ✓ Create public or private workflows
- ✓ Library of Pre-built tasks
- ✓ Support for complex rule-based logic
- ✓ Integrated email messaging
- ✓ Workflow test and validation.





### New Network RPA Core Enhancements in Gluware 5

- Workflow comments
- Support for workflow variables
- Enhanced custom task support including support for custom forms created in Gluware Lab
- StackStorm support for internal CA for SSL
- Enhancements to workflow sharing settings
- Network RPA data retention settings



### **New Network RPA Tasks in Gluware 5**

### **Device Manager**

- Change device information
- Update support information
- Delete device
- Ad-hoc query for public workflows

### **Config Drift and Audit**

Set default snapshot

### **OS Manager**

- Validate an OS plan
- Run an OS plan

### **Config Modeling**

- Config Modeling filter task
- Run a state assessment
- Edit Globals using CLI command list
- Assign/change assembly to device

### **Gluware Script**

Run custom script

### **Data Explorer**

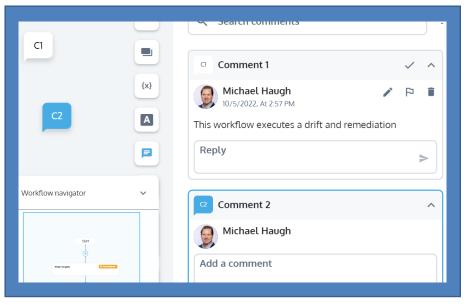
Email report task

### **Gluware Lab**

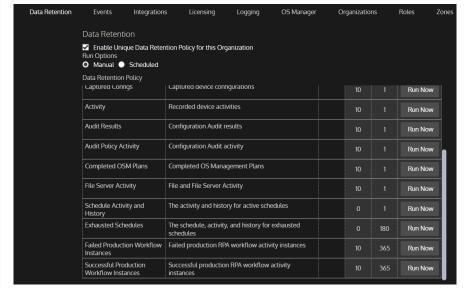
Enhanced custom tasks (built in Gluware Lab)



### **Network RPA Feature Highlights**



Gluware - Lab Regards \_name\_ Simple RPA Task that acts on a configuration variable... Check ACL Data Check the passed in ACL Data object against some rules. Get ACL Data Create a ACL Data object from a device Modify ACL Data Modify the passed in ACL Data object against some...



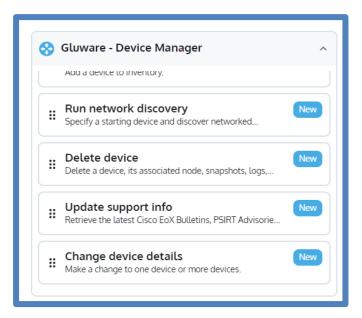
**Workflow Comments** 

**Custom Task Support** 

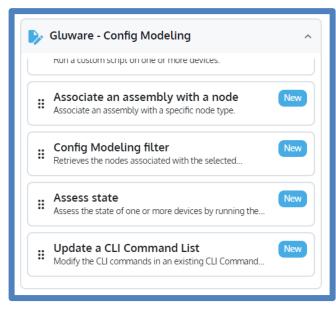
N-RPA Data Retention Settings



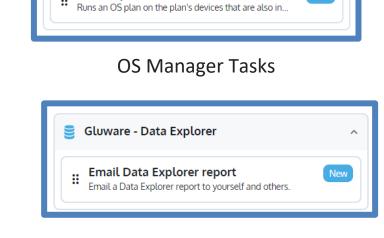
### **New Network RPA Tasks**



**Device Manager Tasks** 



**Config Modeling Tasks** 



Gluware - OS Manager

Validate OS plan

Run OS plan

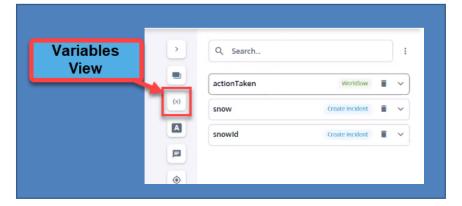
Validate an OS plan before running the plan.

**Data Explorer Task** 

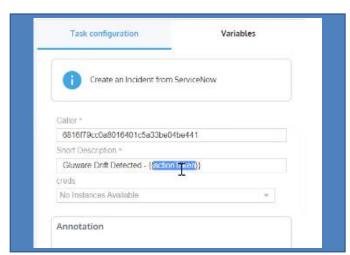
More than a dozen new Gluware Tasks available!



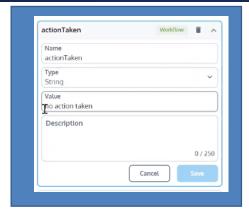
### Network RPA – Variable Management



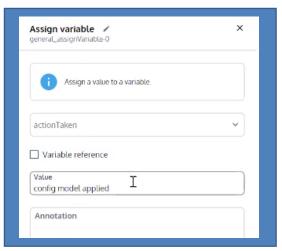
Workflow variables view



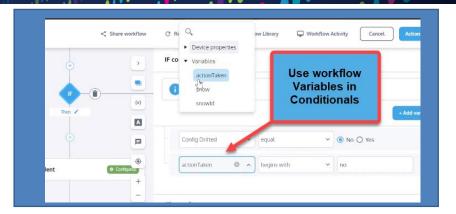
Use workflow variables in other tasks



Create workflow variables



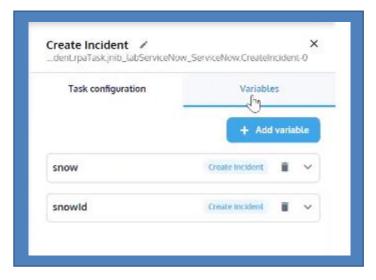
Use assign variables task to change the value



Use workflow variables in if/then conditionals



### **Network RPA – Task Variables**

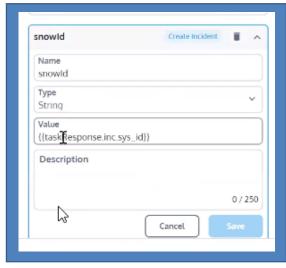


Create task variables





Use Type Object variables for JSON object responses



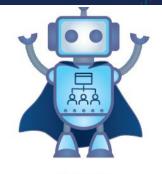
Use Type String variables when assigning a value using dot notation within a JSON object



## **Network RPA - Robotic Use Case Examples**









ITSM BOT

Trigger/Event BOT

#### Use case #1

gluware

Auto remediation of application performance issues due to network misconfiguration

#### Use case #2

Cloud auto remediation of a known bad actor learned through the ONUG Cloud Security Notification Framework







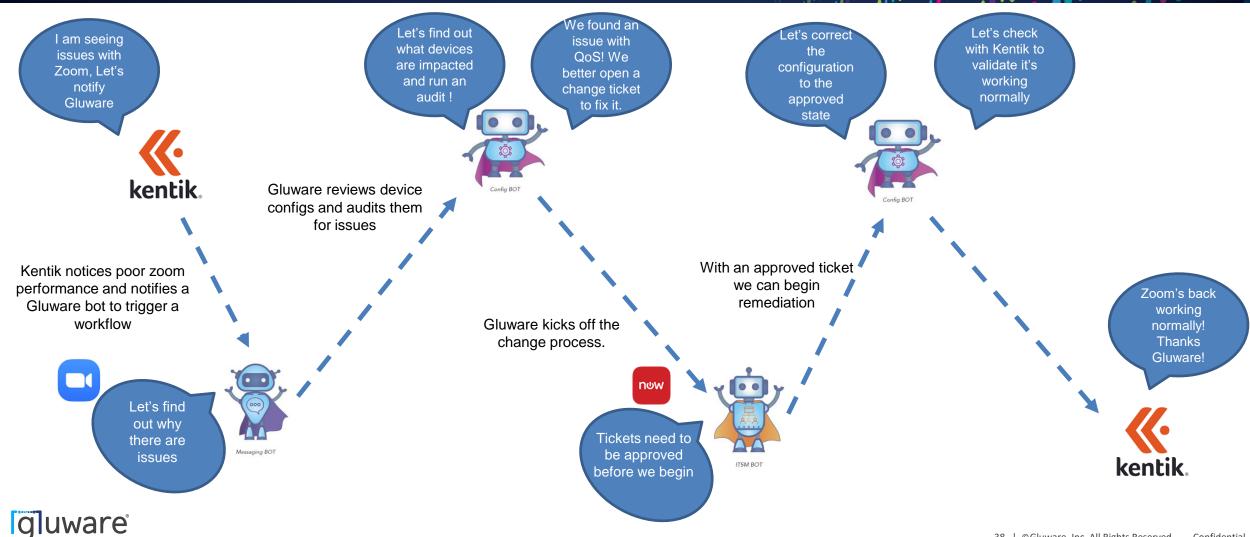


**Audit BOT** 



Security BOT

## Use Case #1 Auto-remediation of application performance issues





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