Solution Brief

gluware®
Intelligent Network Automation

Config Modeling

Automatically change your configurations into network policy

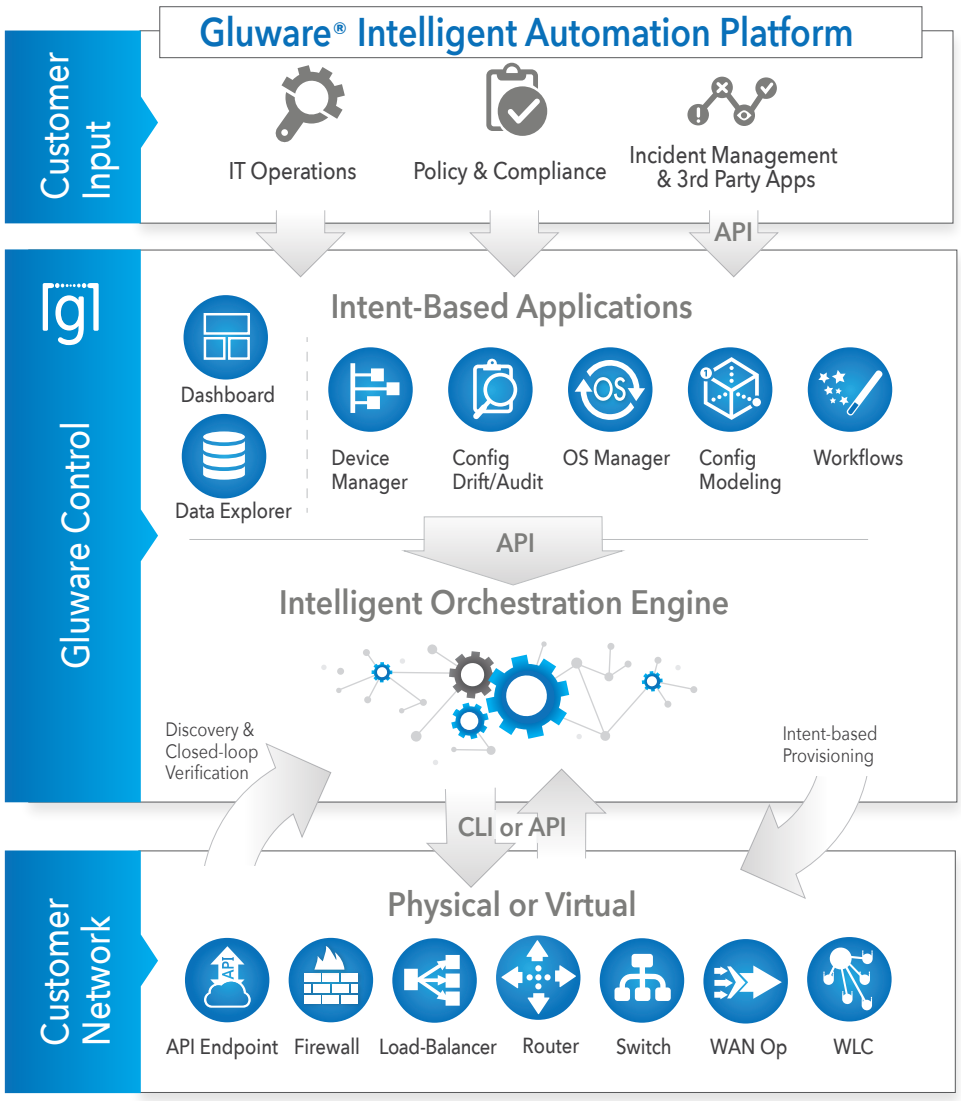
Gluware® Config Modeling provides Intent-Based configuration management for **Gluware Intelligent Network Automation**. The Config Modeling app rapidly automates large-scale networks by leveraging pre-existing brownfield, multi-vendor configurations, bringing agility and cost savings to Network Operations. Config Modeling enables the rapid import of CLI-based features. Then it turns features into network policy used to make only the changes needed declaratively for each network feature across the range of supported vendors and device types.

Gluware® Intelligent Network Automation

Gluware Intent-Based Applications transform your enterprise, letting you simply and seamlessly automate and orchestrate multi-vendor, multi- platform networks at scale, taking the guesswork out of maintaining today's mission-critical networks.

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

mastercard
James Radford
VP of Operations, Mastercard



Config Modeling is built on technology base packages (routing, switching, firewall, load-balancer, WAN optimizer and wireless LAN controller), and vendor extensions that accelerate the on-boarding of your network's existing features without programming.

Flexible, model-driven

approach enables engineers to keep the network on track with their "golden config" or feature a specific configuration for deployment across network devices. It resolves the challenge of first rolling out configurations and then maintaining and enforcing them at scale. Network Engineers can now leverage existing, validated CLI and onboard it to the Gluware Control automation and orchestration platform that deploys and lifecycle manages their existing network. With Config Modeling, you can onboard and manage as many, or as few features as needed to start. Users often start with standardizing globals like AAA, NTP, SYSLOG and other network-wide functions, or address specific strategic initiatives like QoS management to support a near-term application roll-out.

Config Modeling

Features

Rapid Onboarding

- Rapidly onboard current configs and enable policy-based management to standardize or enable new features
- No new hardware or complex network redeployment
- Intelligent, data-model driven platform enabling edit-once, cascade-to-many unique device types, instead of static template-based approach
- Network features can be defined with static CLI and also support variables and conditionals
- Device interface abstraction support simplifies platform replacement and upgrade when needed

No Programming Required

- No programming or scripting required, allowing network engineers to implement functionality themselves
- Resource effectiveness reduces time to value
- Integrate (optional) state assessments by defining 'show' commands and RegEx for the output, with integrated RegEx editor

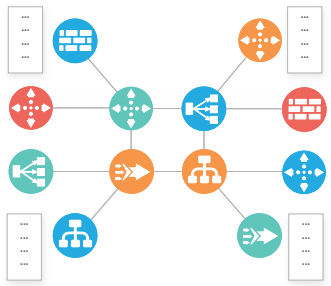
Intent-Based Provisioning

- Provisioning preview to see what commands will be created to ensure network devices reach desired state
- Zero-touch provisioning supported USBConnect devices
- Detailed logging including all CLI interaction is provided
- Scheduling available for changes at a specific times

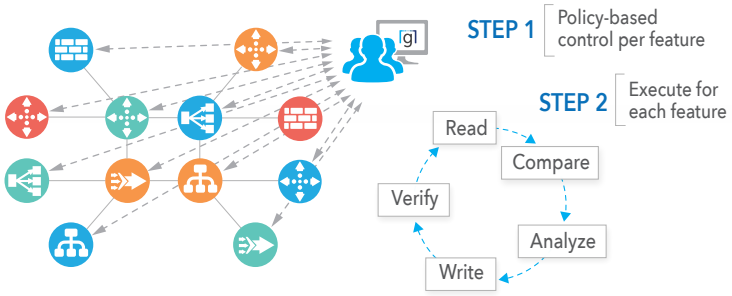
Optimized for Brownfield

- Modular template approach to automate common features across hundreds or thousands of network nodes
- Network feature policies are defined with native vendor CLI, which network operators know, supporting static CLI, user input variables or dynamically discovered variables
- Built on technology base packages (routing, switching, firewall, load-balancer, WAN optimizer, wireless LAN controller) and vendor extensions that accelerate the onboarding of existing features

Evolve from monolithic configs and static templates...



...to intelligent, model-driven network feature management keeping the network in-policy



Smarter
Centralized Control

- Ensures successful provisioning through automated pre-checks, validation and post checks
- Declarative changes to read the current state and perform only necessary changes
- Detailed logging and provisioning preview validate every step of the network automation process

Faster
Time to Value

- Onboard existing reference configurations to quickly build policy-based features
- Abstract network feature variables to provide values across vendors and platforms such as NTP peers, SYSLOG servers or QoS parameters
- Make changes within maintenance window across thousands of devices

Simpler
No Manual Effort

- Seamlessly create and enforce network policies using your existing vendor CLI
- Modular approach enabling network operations to perform a single edit of a feature configuration policy (like AAA or NTP) and deploy that change on hundreds or thousands of nodes associated with that feature
- Import and export features and entire network designs for streamlined test to production