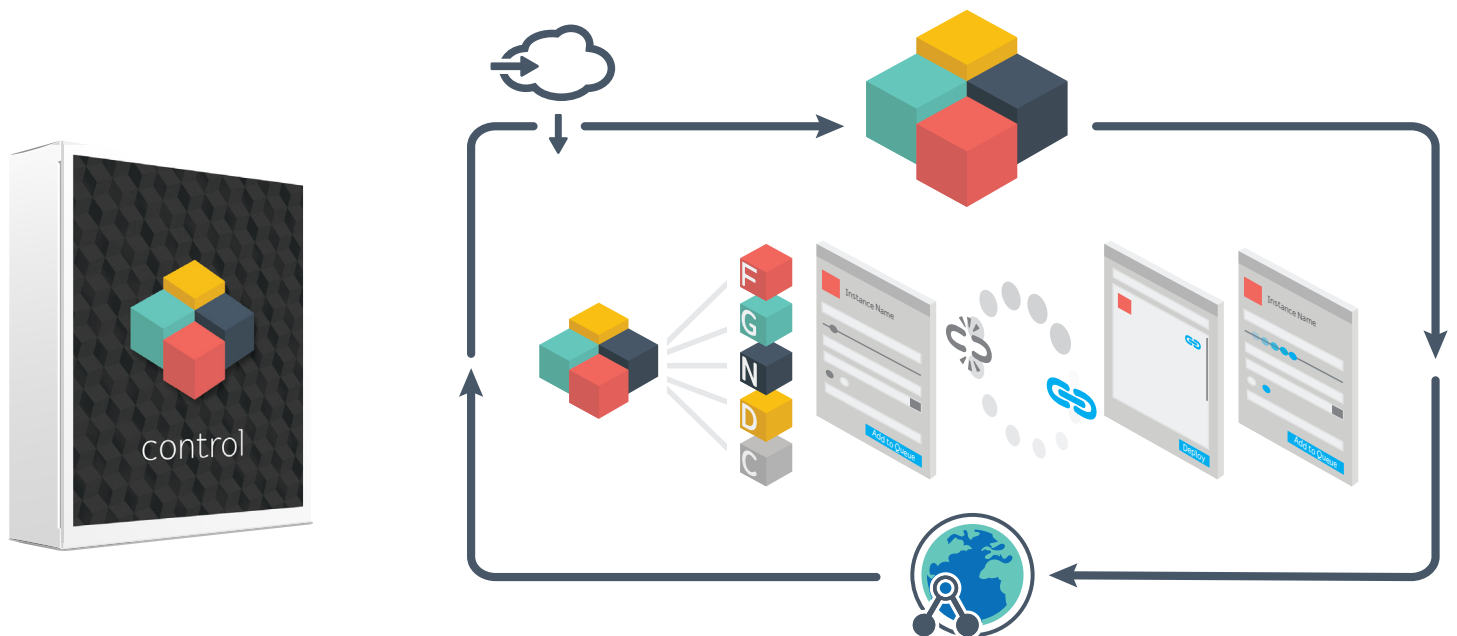


# Gluware<sup>®</sup> CONTROL

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**Gluware Control is the first multi-vendor, model-driven Software Defined Network Orchestration platform** for the deployment and lifecycle management of enterprise networks. It comes with pre-built network features that accelerate the creation of turn-key solutions for network orchestration and automation. Gluware Control's companion platform, Gluware Lab, is available for customers that require customization, from simple user-interface form changes to extension of network models.



## Gluware Control Highlights

- Multi-vendor network modeling and lifecycle management
- Pre-validation, verification and auto-revert on failure
- Network-awareness through the underlying orchestration engine resolving potential dependencies
- Zero-touch or brownfield deployment
- Detect unauthorized configuration changes and single click remediation
- Policy compliance with out-of-sync notification
- Full PKI automation and 2FA security
- Leverages pre-built, best-practice and Gluware Lab customized architectures
- Pre-integrated packages for multiple vendors
- Solutions for LAN, WAN and Data Center
- SSH, IPSEC and RESTful API support

## Gluware Control Platform Features

- Multi-tenant
- Triple redundant storage of configuration data
- Integration with online distribution center for usage of packages created or customized using Gluware Lab
- Organization settings/management
- User settings/management
- Brownfield support with limited or fully supported feature management
- Integrated command prompt for direct CLI access to managed devices
- Zero-touch provisioning (USBConnect)
- Advanced provisioning (IPSEC, SSH or RESTful API)
- Watchdog agent monitoring un-authorized changes
- Simple process for device swap
- One-click remediation

## Solution Packages

- A10 (load balancer)
- Cisco IWAN + (routing, Hybrid WAN, SD-WAN)
- Cisco Switching (L2 switching)
- Fortinet (firewall, load balancer)
- Palo Alto (IPSEC)
- Riverbed (WAN optimizer)

## Provisioning features

- Preview Modes:
  - Connected (device connection, logs and delta CLI generated)
  - Initial (no connection, model checked, logs and CLI generated)
  - Model Validation (no connection, model checked and logs generated)
- Validate feature data models including user data
- Discovers configured state and applies compare engine to published model
- Analysis engine validates assembled features
- Feature Runtime Engine executes in required order with known dependencies
- Semantic Runtime Engine provides required structure for CLI or REST API
- Proxy support for connectivity to private networks
- Tracking of provisioned state by feature (published or provisioned)

## Model-Driven Controls

- Domain (multiple nodes)
- Feature (single node)
- Global (entire network)
- Nodes (device types)
- Customs/Scripts
- Ability to group controls for a node using assemblies

## Gluware EA Vendors

- Arista switches (EOS)
- Cisco (NXOS, ACI)
- F5 load balancers (TMOS)
- Juniper routers (JunOS)

## Software Delivery

- Public Cloud SaaS
- On-Prem (Data Center or Private Cloud)

## Connectivity Options

- SSH
- IPSEC
- RESTful API

## Orchestration Engine Features

- Dynamic NDK (pre-built, extensible classes)
- Discovery
- Analysis
- Validation
- Renderer (CLI or REST)
- Feature Runtime Engine (FRE)
- Semantic and Rendering Engine (SRE)
- Dependency validation
- Parallel Provisioning

## Provisioning Logs

- Real-time and historical log views
- Logging levels
  - Response
  - Debug
  - Info
  - Warning
  - Checkpoint
  - Task
  - Error
- Available for Preview Mode and live provisioning

## Certified Vendors

- A10 Networks load balancers (ACOS)
- Cisco routers (IOS, IOS-XE)
- Cisco switches (IOS, IOS-XE)
- Fortinet firewalls (FortiOS)
- Palo Alto firewalls (PANOS)
- Riverbed WAN accelerators (RiOS)

## Multi-Vendor, Model-Driven Software Defined Network Orchestration Platform

Gluware – A single platform built around DevOps principles of designing, validating, deploying and managing networks leveraging a proven intelligent orchestration engine.

- Network-aware orchestration engine “understands” the interdependencies between network features, policies and overall architecture
- Network-aware extends transparently to customized features developed with Lab using the multi-vendor Dynamic NDK
- In production Gluware Control provides cloud-based or on premise multi-tenant and massively scalable orchestration
- Provisioning and lifecycle management of advanced networking solutions for the LAN, WAN and Data Center leveraging zero-touch or migrating brownfield deployments

