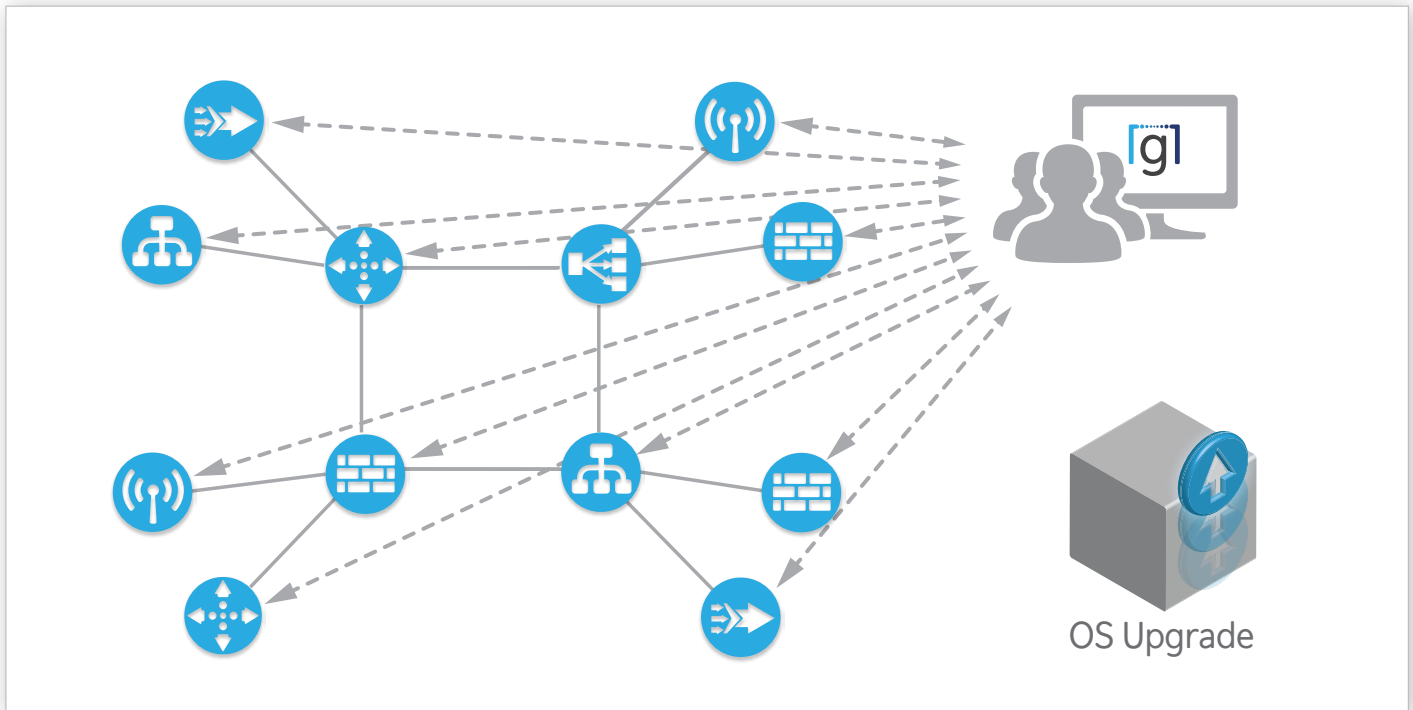# Gluware OS Upgrade

Provides centralized organization, management, and control for keeping key network elements on the latest approved software levels – making OS upgrades reliable and easy

OS Upgrade

OS Upgrade

Upgrading network device firmware/software is a task that IT operations staff often avoids, given that it introduces change (and therefore risk), and it requires a highly-coordinated effort to minimize network downtime. As a practice, most IT organizations try to limit Firmware/Software (FW/SW) changes on their network equipment to once a year, and for many it is an expensive and arduous process.

There are **3** primary factors that drive the requirement for a FW/SW update:

1 A security vulnerability identified by a device vendor

2 A requirement to enable features that are not currently available on devices

3 The currently deployed version is going out of warranty with the vendor

The security vulnerability is often the most urgent factor to address, which forces an IT team to plan and execute a FW/SW update to minimize risk. These days, security vulnerabilities are on the top of the priority list for most CIOs and CTOs. This is because high profile hacks can negatively impact a business financially, operationally and publicly. Any delay in addressing a known vulnerability will reflect poorly on a company, especially if it is exposed and impacts business continuity.

OS Upgrade

OS Upgrade enables your current IT staff to:

> ## Upgrade your entire network in days, not weeks or months.

It was designed to handle the variability and complexity of your pre-existing, brownfield network.

OS Upgrade works seamlessly with Gluware configuration management solutions to backup and restore configurations containing complex features like tunnels and certificate management. It can be combined with Gluware Config Drift to identify changes the vendor made between OS versions like modifying default syntax and exposing or hiding previously visible statements.

Key Differentiation

- Automatically optimize the TFTP window size
- Enables a network device to act as a local server so a large file is only moved once across a slow WAN link
- Supports the multitude of specific procedures for various vendor and platforms to accomplish the OS upgrade
- Manages the device's storage space to ensure the file transfer is successful
- Topology-awareness that supports HA and non-HA designs
- Built-in Device Management (for inventory management) and Scheduling with notification

Benefits

- Global SW/FW updates to address security vulnerabilities or feature gaps
- Eliminate the manual and error-prone legacy process with automation
- Minimize network downtime
- Enable IT Operations teams to handle critical update requests
- Dramatically reduce the time required to roll out a firmware/software update
- Reduce risk to business continuity from remaining on older versions that expose known vulnerabilities

Features

- Automated process to load the new images
- Validate compatibility by leveraging the discovery engine in Gluware
- Reliably perform update, reboot/restart and validation actions
- Automate any required changes "post" update, driven by feature or semantic changes
- Configurations are backed up, restored and verified as necessary
- Unified upgrade process to centrally manage, regardless of the number of unique devices in the network

Multi-Vendor | Multi-Platform | Flexible

Brownfield | Software Only | Integrated Solution