

MIGRATING POLICIES TO CISCO ACI POLICY PORTABILITY

Migrating application connectivity without creating security holes or causing application outages is easier said than done. Understanding and mapping existing application connectivity flows for complex enterprise applications is difficult. There's usually little up-to-date documentation and it can take months to gather the necessary information, understand the requirements, and then painstakingly adjust and migrate every firewall rule, router ACL, contract, and security group to the new environment. A single mistake can cause outages, compliance violations, and create holes in your security perimeter. Migrating applications is a complex, tedious, and error-prone process.

By using AlgoSec to migrate to Cisco ACI, Cisco ACI users get seamless migration, even for their multi-vendor brownfield networks, which also enables an application-centric migration. Through its application-centric approach to security policy management, AlgoSec simplifies and accelerates complex migration projects. Use Cisco Secure Workload (Tetration) or AlgoSec to discover your applications and AlgoSec also maps your applications and their connectivity flows to the underlying network infrastructure. Through easy to use workflows, AlgoSec then migrates the relevant connectivity flows en-masse to the new location — all while ensuring the integrity of the security policy and network access, and compliance. Once application connectivity has been securely migrated, AlgoSec uniquely identifies any leftover firewall rules that can be deleted, as well as rules that cannot be removed because they're still being used by other applications — helping you prevent gaps in your security perimeter.

Visibility


AlgoSec natively provides visibility into Cisco ACI network topology, while tying the ACI fabric into the rest of the data center. This provides a complete network topology map for your entire network.

With AlgoSec, users can search across multi-site Cisco ACI estates for tenants, endpoints, contracts, EPGs, and more. Visibility also extends beyond Cisco ACI, including items outside the ACI fabric so you can get visibility over your entire network estate.

Visibility over your entire network estate means that you have full confidence that you are migrating the right things and have confidence nothing is missing in your migration.



Why Use AlgoSec to Migrate to Cisco ACI?

-  End-to-end visibility of your network and applications
-  Automatically discover and map existing application connectivity to understand what needs to be migrated
-  Simplify the migration process with easy, out-of-the-box implementation.
-  Platform-agnostic traffic-focused migration allows multi-vendor devices to be easily migrated to Cisco technology.
-  Clean up your existing traffic to reduce risk and ensure compliance.
-  Accelerate adoption of Cisco ACI and Cisco Security platforms.

Enable Application-Centric and Intent-Based Migration

Without AlgoSec, you may have had to do a “network-centric” migration instead of an “application-centric” migration of your brownfield network. With an “application-centric” approach, you migrate your traffic into clear application segments. By utilizing AlgoSec’s discovery capabilities or Cisco Secure Workload (Tetration) analytics, you can discover the applications on your network and tie your network traffic to your business applications.

Out-of-the-Box Migration

Migrating from another vendor to Cisco ACI with AlgoSec is simple. It “just works.” Simply select the policies that you wish to import, import the rules into a new change request to using AlgoSec’s dedicated verbatim workflow, and automatically implement them on Cisco ACI with a zero-touch workflow using AlgoSec’s ActiveChange technology.

AlgoSec extends vendor migration tools to make sure you seamlessly migrate your entire multi-vendor estate. Yet, most vendor’s migration tools only import from single vendors. With AlgoSec, you can migrate from multiple vendors, as well as migrate from different SDN solutions to Cisco ACI. The entire process is seamless. Accurately plan, execute, and track all stages of the migration project.

Ensure Your Network Is Compliant

Make sure that what you are migrating is fully compliant with your internal requirements as well as global regulatory guidelines. You don’t want to migrate non-compliant security policies.

Post-migration, Cisco ACI alone does not provide insights into compliance. By integrating with AlgoSec, however, you can gain the complete picture of your compliance posture. After you complete your import, you can be confident in your network’s compliance. AlgoSec generates automatic audit-ready compliance reports on each Cisco ACI tenant for major regulations, flags issues upon changes, uncovers gaps, and even remediates problems throughout your entire network, ensuring a state of continuous compliance.

Avoid Misconfiguration During the Migration Process

One of the main challenges in a migration project is to avoid application outages during the migration process. With AlgoSec, you can easily identify all the relevant application connectivity that needs to be migrated and ensure that all application flows will work. This minimizes application downtime and ensures the application will work flawlessly.

Before you import your network security policies into Cisco ACI, you want to make sure that you are implementing an optimized rule set and not adding technical debt to your new Cisco ACI installation.

AlgoSec will optimize your rules, identify unused, duplicate, or conflicting rules, identify and decommission redundant connectivity, as well as consolidate and reorder rules to improve performance.

Then, once your rule set is cleaned, your clean and optimized ruleset will be implemented.

No need for guessing. With AlgoSec, you will know that your migration works as intended. By using AlgoSec’s Traffic Simulation Query, you can simulate and validate your traffic flows and verify that your migration works as intended.