algosec

Secure application connectivity.
Anywhere.

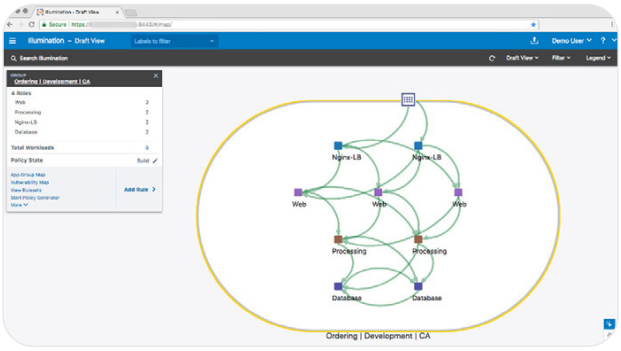


Partner solution brief

AlgoSec and Illumio: Stronger together

Illumio is a security platform that creates human-readable views of your compute infrastructure. Illumio extends security analytics and policy to multi-cloud apps by using behavior and attribute-driven micro-segmentation policy generation and enforcement. It reduces complexity by working consistently across any environment, reduces risk by enabling granular micro-segmentation policies, and enables innovation by integrating security into the DevOps and IT automation workflows without requiring application changes.

Illumio offers complete workload protection over users and endpoints, networks, including network ADCs, and application workloads, both on-premises and in the cloud. However, relying on Illumio alone does not enable infrastructure policy enforcement over your layer 3-4 firewalls and SDN.



Enforcing micro-segmentation throughout your entire network

Organizations need consistent segmentation policies, across application workloads and infrastructure.

Illumio enforces micro-segmentation policies over your workloads but not on the rest of your network. AlgoSec extends the segmentation policy originating from Illumio to the rest of your network—SDN and on-premises technologies.

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Why integrated Illumio with AlgoSec?

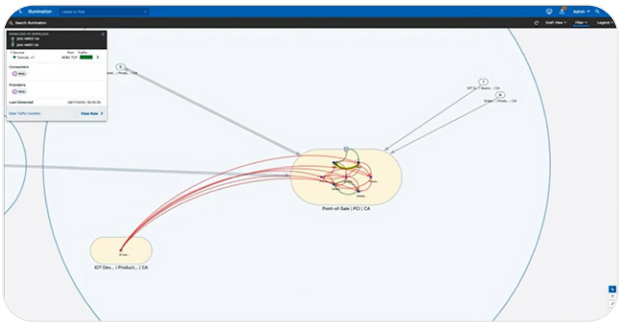
- Streamlined and consistent network security policy management across your entire hybrid network environment.
- Comprehensive visibility into security policies across the hybrid network environment.
- Extend micro-segmentation to legacy, appliance-based, and hybrid environments, spanning on-premises and private cloud.
- Ensure consistent segmentation policies and labeling without duplication throughout the network.
- Implement changes and secure your entire network environment within minutes.

Effectively managing risk, vulnerabilities, and compliance

A micro-segmentation project cannot be successful without managing risk, vulnerabilities, and compliance in the context of affected business applications. A successful micro segmentation strategy requires a clear understanding of what business applications map to which security rules.

By integrating Illumio with AlgoSec, the Horizon AppViz module discovers, identifies, and maps business applications, ensuring visibility of the network connectivity flows associated with each business application. This provides critical information regarding the firewalls and firewall rules supporting each connectivity flow.

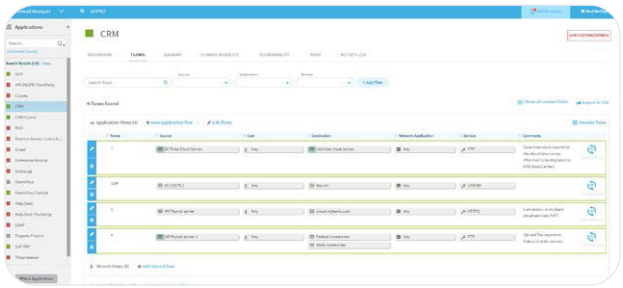
It is important to understand what business applications are impacted when evaluating the risk and compliance state of an organization's network segmentation policy.



With AlgoSec, you can prioritize vulnerabilities and patches based on the affected applications. You can view aggregated information about the network security risks and vulnerabilities relevant to each business application.

Horizon AppViz provides a concise, human-readable view into business application connectivity, including:

- Automated application architecture.
- Security governance zone overlay and diagram.
- Optimized business application flows.
- Automated mapping of business applications to downstream device changes.



Integration details

Algosec Script will automatically import flows data from Illumio via API, and create a CSV file with the following columns: (Source IP, Source Name, Destination IP, Destination Name, Service, Service Name, Application Name)

The following APIs will be used:

- Retrieve all labels
- Create a search for traffic flows
- Download search results

Horizon AppViz application discovery

The following process will be required to create an application in Horizon AppViz.

1. Login to Horizon AppViz as Admin
2. Select "Discovery" > "Import Flows From File"
3. Select a relevant file and follow the wizard instructions to import the application flows

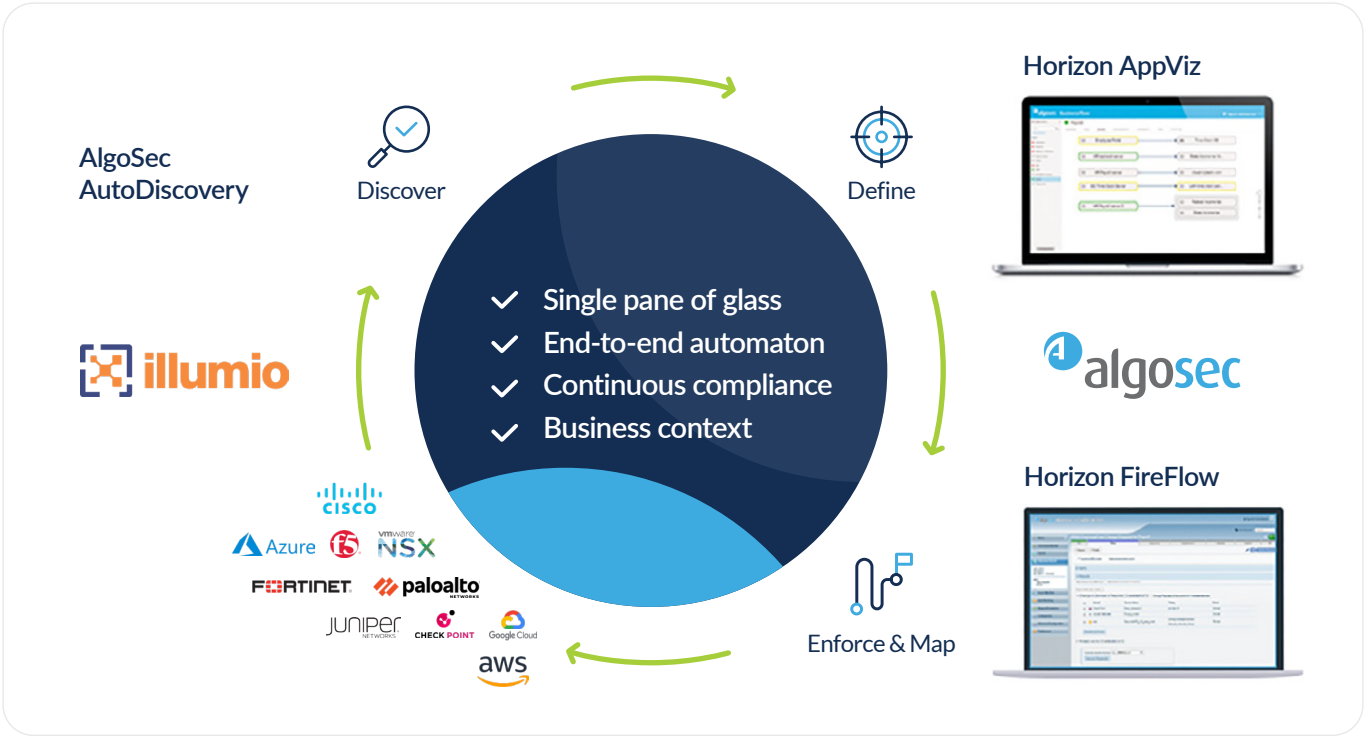
Solution description

- Periodically, Illumio exports application connections to files.
- The AlgoSec solution
  1. Retrieve the Illumio files
  2. Parse the data
  3. Optimize the multiple connections to wide flows
  4. Create Applications and Flows in Horizon AppViz

Objective

Policy creation on the Firewalls via Horizon AppViz.

Architecture diagram



- Unified and consistent management of network security policies in hybrid networks.
- Comprehensive visibility of security policies across the hybrid network environment.
- Extend micro-segmentation to legacy, appliance-based, and hybrid environments, spanning on-premises and private cloud.
- Ensure consistent segmentation policies and labeling without duplication throughout the network.
- Streamline communication of Illumio-enforced policies to non-technical business application owners.
- Swiftly implement changes and secure the entire network environment in minutes.

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