



Secure change management

Six levels of intelligent automation

AlgoSec's approach to change management is rooted in the concept of six levels of automation, similar to that found in autonomous driving. These levels define the degree of security expert interaction required as the automation evolves, ultimately leading to streamlined and efficient change management processes.



Manual control

At this initial stage, security operators are primarily responsible for the planning and execution of network-related tasks. AlgoSec provides essential visibility tools, such as the Firewall Analyzer and AlgoSec Cloud, offering insights into network structures, security policies, and potential risks. At this level, the offering includes enhanced visibility and better understanding of network posture.



Assisted control

As security operators progress to Level 2, a comprehensive change management solution is introduced. This includes a structured workflow that facilitates efficient task execution. While the workflow can be audited, operators continue to manually carry out various activities within the provided framework.



Partial automation

Level 3 marks a transition towards more intelligent automation. Security operators receive assistance from AlgoSec's policy management solution, including planning recommendations for the change management workflow. Security operators still own responsibility for validation of firewalls in path. Risk is automatically identified and the operator's focus shifts towards approving the changes. The introduction of intelligent recommendations paves the way for reducing manual efforts and enhancing change management process efficiency.



Conditional automation

Level 4 is the chosen level of most AlgoSec customers. The security operator's workload decreases and rule changes are being implemented automatically on the different devices. Security operators are still validating the firewalls in path. Risk is automatically identified, and the operator's focus shifts toward approving the changes and automatic implementation.



High automation

Moving toward Level 5, more customization is required for automatic change implementation. The policy management solution automatically handles low-risk changes, while additional configuration may be necessary. Integration with external solutions like ServiceNow is recommended for a more tailored and sophisticated approach to automation.



Full automation

At the highest level of automation maturity, AlgoSec's policy management solution efficiently processes the majority of change requests submitted by application owners. This autonomous processing of changes in low-risk scenarios requires zero intervention from users. While operators still play a role in specialized cases and ongoing monitoring, Level 6 represents the pinnacle of automation, where the solution operates seamlessly, ensuring a highly efficient and reliable network environment.