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## A CISO'S GUIDE TO EVALUATING AUTOMATED SECURITY CONTROLS ASSESSMENT (ASCA) SOLUTIONS

#### OVERVIEW

As cyber threats grow in complexity and frequency, organizations are increasingly turning to <u>Automated Security Control Assessment (ASCA)</u> <u>tools</u> to maintain an optimal security posture. These tools continuously analyze, prioritize, and optimize security controls, helping to reduce misconfigurations, policy drift, and gaps in detection logic, which are common causes of security breaches.

The CISOs's Guide to Evaluating Automated Security Control Assessment (ASCA) is designed to help organizations understand the critical aspects of ASCA, from its definition and benefits to the criteria for evaluating the right tool. This guide outlines the <u>growing</u> <u>importance of ASCA</u> in today's dynamic threat landscape and provides a comprehensive framework for assessing tools based on real-time analysis, integration capabilities, scalability, and remediation guidance.

In today's fast-paced security environment, automation is not a luxury—it's a necessity. ASCA enables security teams to enhance their efficiency, mitigate human errors, and reduce exposure to organizational risks. This guide empowers you to choose the best ASCA solution by offering an indepth look at the essential features, evaluation criteria, and potential benefits for your business.

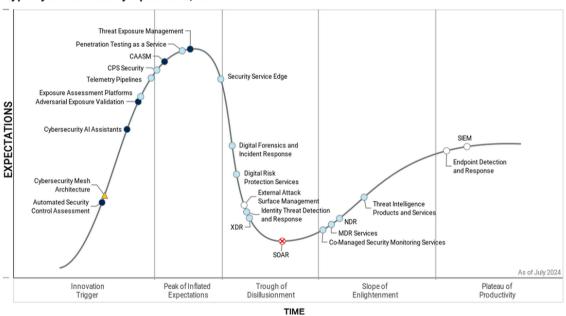
Whether your organization is just starting its journey toward automated security control assessment or looking to optimize its existing infrastructure, this guide will provide the insights and tools you need to make an informed decision. By selecting the right ASCA solution, you can ensure your security controls are always configured for maximum effectiveness, helping to protect your business from evolving cyber threats.



## WHAT IS ASCA?

Automated Security Control Assessment (ASCA) is an emerging technology that continuously evaluates, optimizes, and prioritizes security controls to minimize an organization's threat exposure. By identifying and addressing misconfigurations, detection logic gaps, and policy weaknesses, ASCA plays a critical role in enhancing an organization's security posture. The technology focuses on automating the assessment of security controls, ensuring they are continuously aligned with the evolving threat landscape.

#### Figure 1: Hype Cycle for Security Operations, 2024



#### Hype Cycle for Security Operations, 2024

Plateau will be reached: O <2 yrs. O 2-5 yrs. O 5-10 yrs. A >10 yrs. Obsolete before plateau

#### Gartner

### WHAT ARE THE BENEFITS OF ASCA?

ASCA provides several critical benefits for organizations looking to improve their security control efficiency and reduce risks:

- **Continuous Security Posture Management:** ASCA ensures that security controls are regularly assessed and optimized, identifying misconfigurations and policy drift early on.
- **Mitigation of Human Error:** With automation, ASCA helps organizations minimize the risk of misconfigurations due to human error, which is a significant factor in breaches.
- Improved Operational Efficiency: By automating security assessments, organizations can save time and resources otherwise spent on manual configuration checks and penetration tests.
- Faster Response to Emerging Threats: Continuous assessments allow organizations to adapt quickly to new vulnerabilities and attack techniques.
- **Reduced Business Risk:** ASCA reduces the potential for business disruptions, financial losses, and data breaches by ensuring security controls are functioning optimally.



### WHAT ARE THE REQUIREMENTS FOR AN ASCA TOOL?

When selecting an ASCA tool, organizations must consider the following key requirements:

- **Comprehensive Control Coverage:** The tool should assess a wide range of security controls, including network, endpoint, and cloud configurations, as well as specialized technologies.
- **Real-time Analysis and Prioritization:** The ASCA solution should provide real-time insights and prioritize misconfigurations based on risk impact, helping security teams focus on critical issues.
- Integration with Existing Tools: To avoid siloed assessments, the ASCA tool should integrate with the organization's existing security tools (e.g., IAM, XDR, and vulnerability management platforms).
- **Customization and Flexibility:** Organizations should look for tools that can adapt to their unique environments and business needs, allowing custom rules and policies to be created for assessments.
- **Remediation Guidance:** The solution should not only identify issues but also provide detailed remediation steps and prioritize those steps based on the organization's specific threat context.



# WHAT IS THE EVALUATION CRITERIA FOR SUCCESS?



To determine the effectiveness of an ASCA solution, organizations should evaluate it based on the following criteria:

- Ease of Deployment and Use: The ASCA solution should be simple to implement within existing infrastructures, with a user-friendly interface for configuration and reporting.
- Accuracy and Relevance: The tool must provide accurate, actionable insights and avoid overwhelming teams with false positives.
- **Impact on Security Posture:** The success of an ASCA tool should be measured by how well it improves the organization's overall security posture, reducing exposure to threats and enabling faster responses to vulnerabilities.
- Efficiency Gains: One of the main benefits of ASCA is efficiency. Organizations should see measurable reductions in time spent on manual security checks, freeing up teams for more strategic tasks.
- Scalability: The tool should be able to scale across the organization's various infrastructures, whether on-premise, cloud, or hybrid, and adapt as the company grows.

### EVALUATION TABLE FOR ASCA TOOLS

Feature	Description	Role/Tool	Rating (1- 5)
Comprehensive Control Coverage	Ability to assess a wide range of security controls across network, endpoints, cloud, and specialized systems.	<ul> <li>Network security tools (firewalls, IDS/IPS)</li> <li>Endpoint security tools (EDR, anti-malware)</li> <li>Cloud security tools (CSPM, CWPP)</li> <li>Identity and Access Management (IAM)</li> <li>Application security tools (WAF, RASP)</li> <li>Security Awareness Training</li> </ul>	
Real-time Analysis and Prioritization	Provides real-time insights into misconfigurations and prioritizes them based on severity and risk to the organization.	<ul> <li>Compensating controls assessment</li> <li>Risk-based prioritization (e.g., CVSS scores, exploit likelihood)</li> <li>Threat intelligence integration</li> </ul>	
Integration with Existing Tools	Seamlessly integrates with existing security tools for unified control management and analysis.	<ul> <li>XDR solutions</li> <li>Security Awareness Training</li> <li>Device Management</li> <li>Vulnerability Management (VM) tools</li> <li>Endpoint Detection and Response (EDR)</li> <li>Cloud security integrations (AWS, Azure, GCP)</li> </ul>	
Customization and Flexibility	Supports custom rules and policies tailored to an organization's specific needs and threat landscape.	<ul> <li>Custom policy creation</li> <li>Flexible rules for assessment (e.g., region-specific regulations, industry compliance)</li> <li>Ability to customize reports and remediation recommendations</li> </ul>	

### EVALUATION TABLE FOR ASCA TOOLS

Feature	Description	Role/Tool	Rating (1- 5)
Remediation Guidance	Offers clear, actionable remediation steps for addressing misconfigurations, with prioritization based on business risk.	<ul> <li>Remediation workflows</li> <li>Integrations with IT ticketing systems (e.g., Jira, ServiceNow)</li> <li>Detailed remediation steps per tool type</li> <li>Prioritized steps based on critical business processes</li> </ul>	
Reporting and Dashboards	Provides detailed reporting and dashboard capabilities, including real-time insights and historical trends.	<ul> <li>Executive-level reports</li> <li>Granular dashboards for security teams</li> <li>Integration with BI tools for customized reporting</li> </ul>	
Scalability	Scales with the growth of the organization's infrastructure and security needs, covering on-premise, cloud, and hybrid environments.	<ul> <li>Hybrid network setups (on- prem and cloud)</li> <li>Global or multi-location organizations</li> <li>M&amp;As</li> </ul>	
Vendor Support	Supports a wide array of third-party security vendors and niche technologies within the organization's ecosystem.	<ul> <li>Compatibility with specialized security vendors</li> <li>Support for both legacy and modern security tools</li> <li>Regular updates to vendor integrations</li> </ul>	

#### **RATING GUIDE**



1: Feature is absent or poorly implemented.

2: Feature is available but lacks depth or reliability.

3: Feature works as expected, though some improvements could be made.

4: Feature is well-implemented and adds significant value.

5: Feature is exceptional, offering comprehensive, reliable, and futureproof capabilities.

By using this evaluation table, CISO's can systematically review how well an ASCA tool matches their organizational needs, ensuring that they invest in a solution that delivers meaningful security improvements.



#### Mapping ASCA to Nagomi Security

Nagomi Security is uniquely positioned to deliver value in the ASCA space by leveraging its ability to continuously assess and optimize security controls. Here's how Nagomi's ASCA solution aligns with key evaluation criteria:

- Comprehensive Integration with Security Controls: Nagomi integrates and supports all leading security tools, offering a unified view of security control performance. In situations where primary security controls may be insufficient or impractical, Nagomi incorporates compensating controls to address specific gaps. These compensating controls are designed to mitigate risks and bolster the security posture, particularly when traditional controls cannot be fully implemented or are compromised.
- **Prioritization & Actionable Remediation:** Nagomi provides prioritized remediation guidance to address control gaps mapped to organizational-specific threats to help organizations minimize risk.
- Automation and Efficiency: With Nagomi, organizations can automate security assessments, manual mappings to MITRE and manual reporting efforts to improve efficiency and reduce the burden on internal teams. This automation not only streamlines routine tasks but also ensures that compensating controls are dynamically adjusted and monitored, reducing the burden on internal teams and improving responsiveness to emerging threats.
- **Customization and Flexibility:** With Nagomi, organizations can customize their threat profile, tailor remediation plans to their business goals, and enhance reporting capabilities, ensuring their security programs are optimized for maximum effectiveness.

By selecting the right ASCA tool, organizations can significantly improve their security posture, reduce their risk exposure, and address the challenges posed by an increasingly complex and dynamic threat landscape. Nagomi Security stands out as a leader in delivering comprehensive and actionable ASCA capabilities.

#### Download the Gartner® Hype Cycle™ for Security Operations

