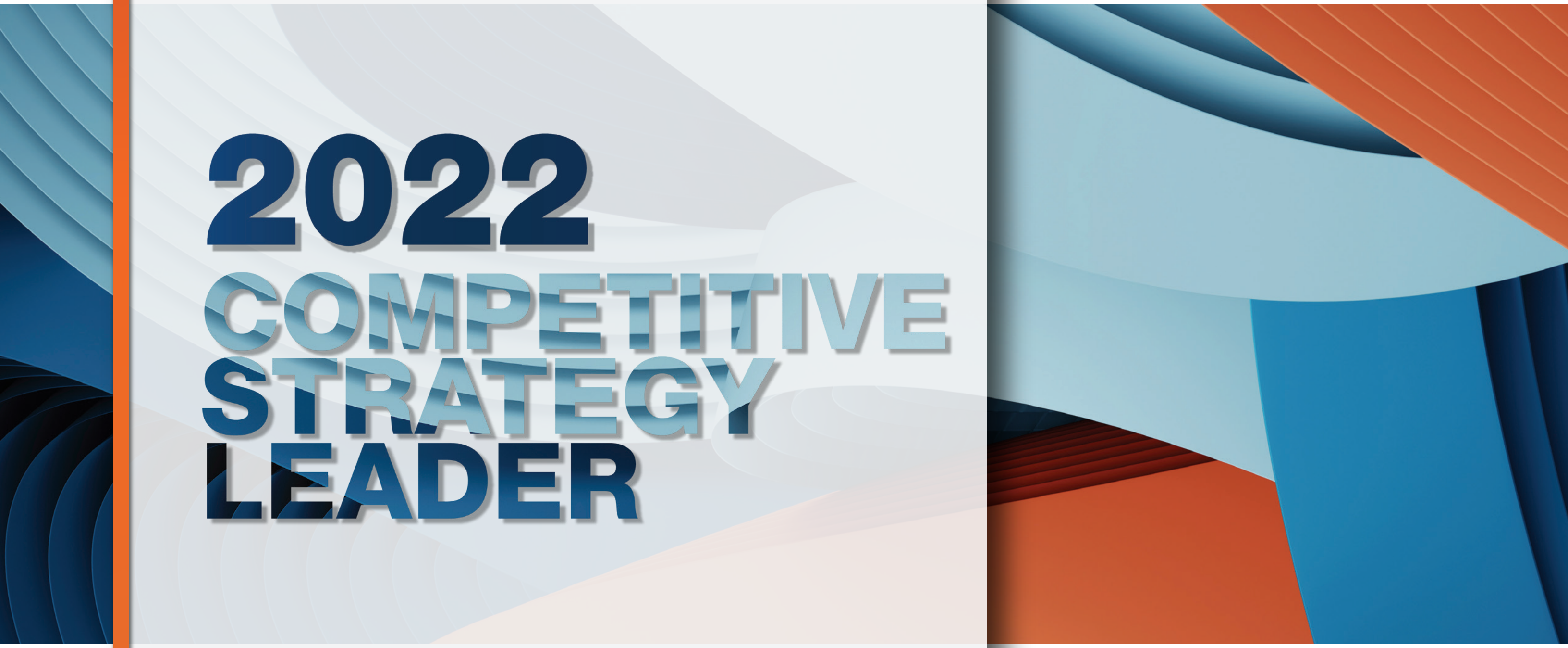
FROST & SULLIVAN

SEMPERIS

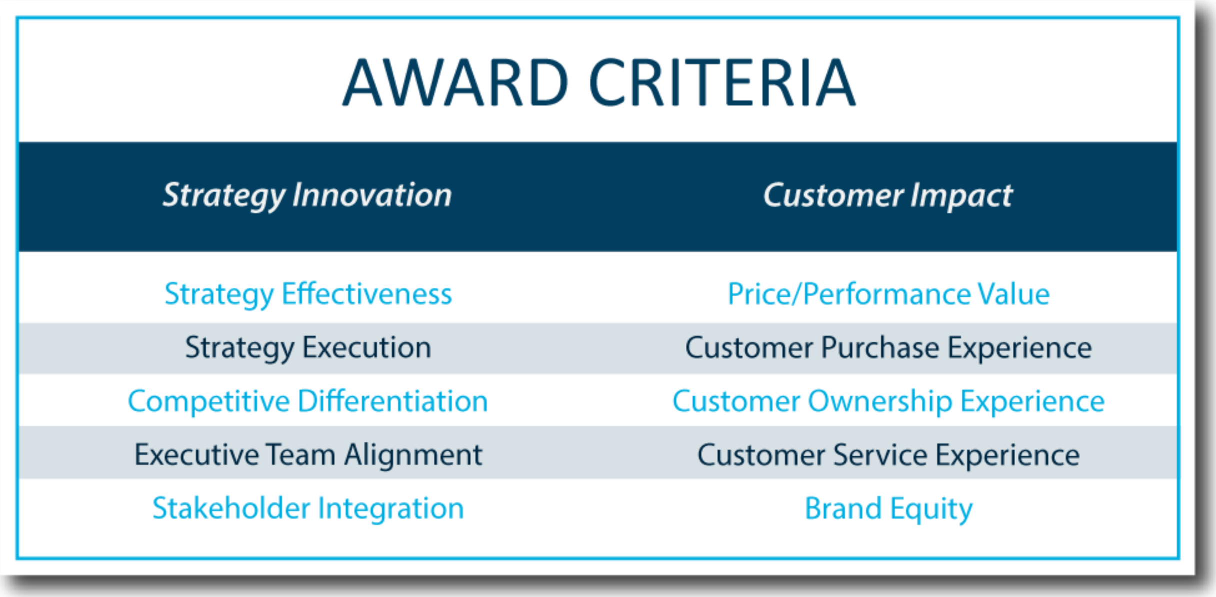


2022 COMPETITIVE STRATEGY LEADER

GLOBAL ACTIVE DIRECTORY SECURITY AND RECOVERY INDUSTRY

Best Practices Criteria for World-Class Performance

Frost & Sullivan applies a rigorous analytical process to evaluate multiple nominees for each award category before determining the final award recipient. The process involves a detailed evaluation of best practices criteria across two dimensions for each nominated company. Semperis excels in many of the criteria in the Active Directory Security and Recovery space.



AWARD CRITERIA

Strategy Innovation	*Customer Impact*
Strategy Effectiveness	Price/Performance Value
Strategy Execution	Customer Purchase Experience
Competitive Differentiation	Customer Ownership Experience
Executive Team Alignment	Customer Service Experience
Stakeholder Integration	Brand Equity

Transformation of Identity Platform Protection

Headquartered in Hoboken, New Jersey, with international operations, and research and development teams distributed between San Francisco and Tel Aviv, Semperis has revolutionized identity-driven cyber resilience and threat mitigation for hybrid and multi-cloud environments to reflect the latest attack atmosphere. Founded in 2015, Semperis helps organizations prevent, mitigate, and recover from identity-related cyberattacks through a distinct layered defense approach that addresses the entire cyberattack lifecycle, and strengthens disaster planning at a critical time when work environments have shifted and cyberattacks—most of which target identity systems—have exponentially risen.

> *“Semperis provides key prevention strategies for ensuring AD is not exploited to gain access into an organization's infrastructure and launch a ransomware attack, and offers industry-pioneering, fully automated post-attack support to reduce AD recovery time by 90%.”*
>
> ***- Sarah Pavlak,***
> ***Industry Principal***

Active Directory (AD) is the standard identity platform for businesses and governments running Windows, and it enables authentication for numerous enterprise services. As seen with the SolarWinds attack and other high-profile attacks including many ransomware incidents, the 20+ year-old AD technology used to provide authentication and authorization in the vast majority of organizations is also the "Achilles' heel" of modern cybersecurity programs. Semperis equips organizations with the ability to monitor and quickly restore their AD infrastructure in the case of a cyberattack or data breach with the industry's most comprehensive cybersecurity solutions for AD and Azure AD, supported by a 24/7 global incident response team.

The COVID-19 pandemic greatly changed not only the workplace environment, but also the type of entities attackers were targeting. During the pandemic, hospitals and healthcare providers saw an influx in ransomware attacks. This led to complete loss of control of victim organizations' technology systems and severely curtailed their ability to provide care to patients. Semperis' patented technology enables detection of directory vulnerabilities, interception of cyberattacks in progress, and a quick AD infrastructure recovery process for affected organizations – all vital components for the healthcare industry where time is a critical factor.

The type and frequency of cyberattacks have evolved. An increasing number of ransomware attacks specifically target critical infrastructure by exploiting security vulnerabilities in AD to gain access to information technology systems and move throughout the network undetected for long periods of time before deploying malware. Semperis' Directory Services Protector (DSP) product uncovers security gaps such as misconfigurations that can lead to intrusions and system changes that point to evidence of malicious activity. Semperis' latest release of DSP also provides a complete picture of risk exposure in hybrid environments, displaying a single view of cyber threats in both AD and Azure AD. This platform continuously probes AD for vulnerabilities and more than one hundred indicators of compromise and exposure, provides visibility into shadow attacks that SIEMs often miss, and locks down sensitive accounts with auto-remediation capabilities. In addition, DSP enables organizations to manage backup and recovery of Azure AD resources (users, roles, groups, and services), which are required to ensure continuous access to essential business services.

> *"Semperis has unmatched experience in breach preparedness and incident response to Active Directory and other identity-based cyberattacks. Semperis' solution-based approach focuses not only on their premier technology to meet customer challenges, but also best practices and guidance for people and processes, setting them apart from their competitors."*
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> ***- Sarah Pavlak,***
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Empowering Against Cyber Attacks through Defense and Resiliency

Semperis provides key prevention strategies for ensuring AD is not exploited to gain access into an organization's infrastructure and launch a ransomware attack, and offers industry-pioneering, fully automated post-attack support to reduce AD recovery time by 90%. Semperis' Active Directory Forest Recovery (ADFR) tool allows for normal business operations to resume minutes after a detected attack, thus eliminating long recovery processes, human error, and potential malware re-infection. Semperis' ADFR tool strengthens organizations' resilience against cyberattacks by addressing the common tactic of spreading ransomware throughout domain controllers to encrypt thousands of machines at the same time.

Purple Knight is a free AD cybersecurity assessment tool built and managed by Semperis' threat research team. The tool helps organizations harden AD by uncovering dozens of indicators of exposure (IOEs) and indicators of compromise (IOCs). The Purple Knight security scorecard reveals systemic cybersecurity weaknesses that attackers often exploit. With over 5,000 downloads, organizations are readily using this tool to query their AD environments and execute a set of tests against common attack vectors to determine risky configurations and security weaknesses. The report also includes expert guidance to close identified security gaps before exploitation results in a data breach or business disruption.

Investing in the Customer Experience

Semperis' executive leadership team is composed of highly accomplished identity security experts, with over 100 years of combined Microsoft MVP experience. The Semperis team's expertise exemplifies their ability to provide expert guidance that clients seek and depend upon to keep AD infrastructure safe from vulnerabilities. Semperis has positioned itself to stay ahead of competitors with a leadership team that has demonstrated cohesive implementation of their mission, vision, and strategy. When attacks do occur, clients have subject matter experts ready to quickly assist in the recovery of their AD to maintain operations. Semperis experts are prepared to provide comprehensive breach protection and response services, spanning every stage of the AD cyberattack lifecycle. The team is adept at AD security assessments and threat mitigation, AD disaster recovery planning and testing, AD cyberattack recovery, and AD incident investigation and forensics. Global organizations that have suffered cyberattacks have benefited from prompt, round-the-clock support from Semperis' battle-tested AD cybersecurity experts and industry-leading tools.

With a customer retention rate of over 99%, Semperis places a strong emphasis on innovative platforms to generate customer feedback and offer continuous customer support. While conducting regular surveys and focus groups allows for consistent interaction with their customers, Semperis also provides a competitive advantage with the Hybrid Identity Protection conference where customers can engage directly one-on-one with the product leadership team. Additionally, Semperis continuously provides added value to their customers by offering threat intelligence briefs, frequent product updates, and strategy sessions to ensure customers achieve their desired security posture outcomes.

Semperis has unmatched experience in breach preparedness and incident response to Active Directory and other identity-based cyberattacks. Semperis' solution-based approach focuses not only on their premier technology to meet customer challenges, but also best practices and guidance for people and processes, setting them apart from their competitors.

Conclusion

The threat landscape is evolving and is a continual challenge for organizations striving to maintain a strong cybersecurity posture. As a result, organizations need unfailing cybersecurity tools to maintain the security of their AD infrastructure, as well as expertise and support in the event of a cyber incident.

Semperis excels in AD protection, disaster preparation and recovery through their multi-layered defense method, people, and processes offering efficiency, security, and dependability to leading organizations across multiple industries. Semperis provides identity-driven cyber resilience and threat mitigation for both hybrid and multi-cloud environments in today's cloud-first, mobile-first world where dependency on identity systems is rapidly increasing. Through hosting the Hybrid Identity Protection conference and podcast series, Semperis also provides versatile educational forums that demonstrate its commitment to its customers and keeping them protected against evolving cyber threats.

For its strong overall performance, Semperis earns Frost & Sullivan's 2022 Global Competitive Strategy Leadership Award in the Active Directory Security and Recovery industry.

What You Need to Know about the Competitive Strategy Leadership Recognition

Frost & Sullivan's Competitive Strategy Leadership Award recognizes the company with a stand-out approach to achieving top-line growth and a superior customer experience.

Best Practices Award Analysis

For the Competitive Strategy Leadership Award, Frost & Sullivan analysts independently evaluated the criteria listed below.

Strategy Innovation

Strategy Effectiveness: Effective strategy balances short-term performance needs with long-term aspirations and overall company vision

Strategy Execution: Company strategy utilizes Best Practices to support consistent and efficient processes

Competitive Differentiation: Solutions or products articulate and display unique competitive advantages

Executive Team Alignment: Executive team focuses on staying ahead of key competitors via a unified execution of its organization's mission, vision, and strategy

Stakeholder Integration: Company strategy reflects the needs or circumstances of all industry stakeholders, including competitors, customers, investors, and employees

Customer Impact

Price/Performance Value: Products or services provide the best value for the price compared to similar market offerings

Customer Purchase Experience: Quality of the purchase experience assures customers that they are buying the optimal solution for addressing their unique needs and constraints

Customer Ownership Experience: Customers proudly own the company's product or service and have a positive experience throughout the life of the product or service

Customer Service Experience: Customer service is accessible, fast, stress-free, and high quality

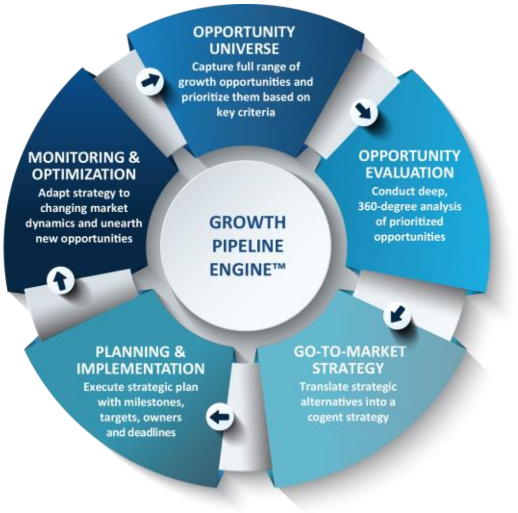
Brand Equity: Customers perceive the brand positively and exhibit high brand loyalty

About Frost & Sullivan

Frost & Sullivan is the Growth Pipeline Company™. We power our clients to a future shaped by growth. Our Growth Pipeline as a Service™ provides the CEO and the CEO's growth team with a continuous and rigorous platform of growth opportunities, ensuring long-term success. To achieve positive outcomes, our team leverages over 60 years of experience, coaching organizations of all types and sizes across 6 continents with our proven best practices. To power your Growth Pipeline future, visit Frost & Sullivan at http://www.frost.com.

The Growth Pipeline Engine™

Frost & Sullivan's proprietary model to systematically create ongoing growth opportunities and strategies for our clients is fuelled by the Innovation Generator™. Learn more.

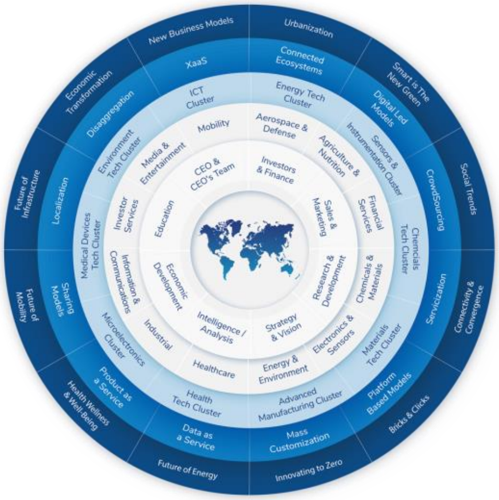

OPPORTUNITY UNIVERSE
Capture full range of growth opportunities and prioritize them based on key criteria
OPPORTUNITY EVALUATION
Conduct deep, 360-degree analysis of prioritized opportunities
GO-TO-MARKET STRATEGY
Translate strategic alternatives into a cogent strategy
PLANNING & IMPLEMENTATION
Execute strategic plan with milestones, targets, owners and deadlines
MONITORING & OPTIMIZATION
Adapt strategy to changing market dynamics and unearth new opportunities
GROWTH PIPELINE ENGINE™

Key Impacts:

- ■ **Growth Pipeline:** *Continuous Flow of Growth Opportunities*
- ■ **Growth Strategies:** *Proven Best Practices*
- ■ **Innovation Culture:** *Optimized Customer Experience*
- ■ **ROI & Margin:** *Implementation Excellence*
- ■ **Transformational Growth:** *Industry Leadership*

The Innovation Generator™

Our 6 analytical perspectives are crucial in capturing the broadest range of innovative growth opportunities, most of which occur at the points of these perspectives.



Analytical Perspectives:

- ■ Mega Trend (MT)
- ■ Business Model (BM)
- ■ Technology (TE)
- □ Industries (IN)
- □ Customer (CU)
- ■ Geographies (GE)