Press Overview
Company Overview

Cylance® is transforming the cybersecurity market with proactive, preventive antivirus technology based on artificial intelligence, machine learning and algorithmic science. Headquartered in Irvine, California and with offices around the world, Cylance was founded in June 2012 by a distinguished team of security industry professionals and scientists to redefine the endpoint standard of protection by preventing threats from ever executing. Cylance investor partners include DFJ Growth, KKR, Dell Ventures, Capital One Ventures, Blackstone Tactical Opportunities, TenEleven Ventures, ThomVest, Draper Nexus, Khosla Ventures, Fairhaven Capital, and Citi Ventures.

Using Math to Fight Malware: No Need for Signatures
Cylance’s next-generation endpoint threat-prevention product, CylancePROTECT®, is the only technology that completely eliminates the need for traditional antivirus software, anti-exploit products, whitelisting solutions, and host-based intrusion detection and prevention systems. The transformational detection and blocking offered by CylancePROTECT is based on a radically different technological approach than the signature-based technology in legacy antivirus products.

Unlike reactionary signature, heuristics, and behavior monitoring, all of which require an Internet connection, Cylance applies artificial intelligence to analyze a file’s characteristics and predict whether it’s safe or a threat that should be prevented from running on the local host.

Simple, Lightweight, “Hands-Off” Endpoint Security
CylancePROTECT is delivered as a simple, lightweight agent that offers complete protection from system- and memory-based attacks, spear phishing, zero-day malware, privilege escalations, scripts, and malicious and potentially unwanted programs, all without the high false-positive rates, operational overhead, and management complexity of other solutions. With CylancePROTECT, it’s now possible to set and meet much higher standards for endpoint security than were possible since the advent of zero-days. Cylance technology stops threats that others can’t.

Cylance Consulting: Smarter Security – Faster Services
Cylance’s expert consulting team has one goal in mind: secure Cylance clients as quickly as possible and maintain a higher level of security via prevention using artificial intelligence based technology. The team is comprised of industry-leading experts in all the most advanced security technologies for:

- Industrial control systems
- Enterprise security services
- Internet of Things (IoT) / embedded systems
- Incident response and compromise assessments
- Training
- Threat analysis
- ThreatZERO® threat elimination
About Cylance

Cylance is the first company to apply artificial intelligence, algorithmic science and machine learning to cybersecurity and improve the way companies, governments and end-users proactively solve the world’s most difficult security problems. Using a breakthrough predictive analysis process, Cylance quickly and accurately identifies what is safe and what is a threat, not just what is in a blacklist or whitelist. By coupling sophisticated machine learning and artificial intelligence with a unique understanding of a hacker’s mentality, Cylance provides the technology and services to be truly predictive and preventive against advanced threats.
CylancePROTECT is a Next-Generation Antivirus (NGAV) product that redefines what antivirus (AV) can and should do for your organization by leveraging artificial intelligence to detect and prevent malware from executing on your endpoints in real time.

The cybersecurity industry is wrought with change, yet the fundamentals of malware detection have remained the same for more than three decades. In the face of constant innovation from attackers, antivirus vendors continue to focus on aging technologies that use signatures and post-attack behavior analysis to protect computers. A new approach is required.

Algorithmic science and machine learning are fundamentally shifting the equation, offering new ways to effectively identify, diagnose, categorize and control the execution of every file. Cylance is leading this revolution with predictive and preventive products such as CylancePROTECT, which define NGAV.

**Defining NGAV**

The current, outdated approach of blacklisting relies almost entirely on using signatures and simplistic behavioral information to detect attacks. This worked for a while as the costs for attackers and defenders to respond to each other were at parity. As the bad guys added new tricks, defenders adapted and evolved, forcing attackers to innovate further. The attackers now have the advantage. The sheer number of threats is exploding exponentially, with large numbers of new threats appearing daily. Always-on, always-connected devices provide new, fertile ground for attacks. Improvements in defense are met with swift, advanced responses — to the point where adversaries are gaining a significant advantage. The cost for attackers is far lower than for defenders, due to outdated detection and response strategies. Traditional methods are failing.

**Key elements of a Next-Generation Antivirus include:**

**Automated static code analysis** — Dormant and non-active code should be analyzed at the level of its core DNA, or characteristics, prior to its ability to execute. These characteristics can be as basic as the PE file size or the compiler used, or as complex as a review of the first logic leap in the binary. Cylance extracts millions of unique characteristics from potentially hazardous files and applies machine analysis to determine their intention.

**Execution control** — Detection of bad, abnormal, and good files should be coupled with the ability to control the object in real time. Rather than relying on hash comparison or post-run behavior heuristics to determine what to do, Cylance evaluates objects in less than 100 milliseconds, early in the run time process. This allows the agent to prevent execution if the object is determined to be malicious.

**No daily updates** — A key weakness of traditional security solutions that rely on whitelisting and blacklisting is the need to retain vast databases of hashes and other signatures of known malware or approved applications. CylancePROTECT is a sophisticated agent that makes decisions in real time on the host by classifying an object’s characteristics against optimally trained statistical models. Those models are updated every few months, but retain effectiveness for much longer. There is no need to constantly download new file signatures and worry that detection doesn’t flag a threat when you miss a day’s worth of updates.

**No connectivity requirements** — Many traditional security solutions rely heavily on the cloud to supplement their protective capacity. While Internet access is often available, piping vast amounts of information to a vendor is not always possible. CylancePROTECT operates autonomously, classifying threats using its entirely disconnected agent. Autonomously making the correct decisions is imperative for situations such as air-gapped networks used in industrial control systems and low-bandwidth networks used by retail point of sale systems, branch offices, and remote employees.

**Non-disruptive** — The appropriate protection architecture should be invisible to users and easy to deploy and manage for administrators. The CylancePROTECT agent is small and typically uses less than 1% of CPU. It is easily deployed with common distribution tools and offers browser-based alerting and policy management.
Contextual visibility — In addition to predictive, proactive detection, and blocking, next-generation antivirus should collect data that provides the full context of attacks for analyst and incident response intelligence. The Cylance management console provides pre-execution insight and detonation intelligence from dynamic analysis.

Some vendors already claim to offer next-generation antivirus technology. Yet CylancePROTECT is the first and only product that is both highly effective in blocking threats and has a low impact on users. NGAV must offer both to satisfy the requirements of a “next new” that imparts better detection and protection while seamlessly fitting into normal company operations.

Given that it has taken 30 years to roll out the current AV solutions, an NGAV needs to either significantly enhance current endpoint security or replace it entirely.

Cylance Consulting

The mission of Cylance Consulting is to empower corporate IT to better protect their organization by helping reduce the attack surface. Vulnerability and penetration testing establish a baseline security posture. A compromise assessment determines the who, what, when, and how of a successful attack and provides best practices for remediation. Our incident response and customized services fix problems much faster and in a less intrusive manner than alternative approaches.
Company Leadership

Malcolm Harkins Chief Security and Trust Officer
Malcolm is responsible for all aspects of information risk and security at Cylance as well as public policy and customer outreach to help improve understanding of cyber risks. He spent 23 years with Intel, most recently as its first Chief Security and Privacy Officer.

Stuart McClure CEO and Founder
Stuart leads Cylance as its CEO and visionary for the first math-based approach to threat detection, protection, and response. Prior to Cylance, Stuart was EVP, Global CTO and General Manager at McAfee/Intel Security. Stuart is the creator and lead-author of the most successful security book of all time, *Hacking Exposed*. He is widely recognized for his extensive and in-depth knowledge of security, and is one of the industry’s leading authorities in information security today.

Ryan Permeh Founder and Chief Scientist
Ryan is THE brain behind the mathematical architecture and new approach to security. He leads the research and threat intelligence teams digging into the hacker mindset to uncover emerging attack and defense methods. Prior to co-founding Cylance, Ryan was the Chief Scientist at McAfee/Intel Security.

Daniel Doimo President and COO
Daniel leads the overall operations and efficiency of the company, unifying and focusing Cylance's revenue and operations efforts. Prior to joining Cylance, Daniel served as Executive Vice President of Global Solutions at Schneider Electric.

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Brian Robins Chief Financial Officer
Brian is Cylance’s Chief Financial Officer. Before that, he served as Chief Financial Officer at AlienVault, as Vice President and Chief Financial Officer of Global Business Services at CSC, and as Executive Vice President and Chief Financial Officer of Internet services company Verisign. At NeuStar, Brian served as Vice President of Finance, Treasurer and Corporate Officer, where he helped take the company public on the New York Stock Exchange (NYSE). Robins has also held executive level and financial leadership positions at MCI and Bankers Trust.
**Rahul Kashyap** Chief Product Officer
Rahul drives the strategy, vision and architecture for Cylance products. Prior to joining Cylance, Rahul served as EVP of Products/Chief Security Architect at Bromium and Head of Vulnerability Research at Intel Security.

**John Giacomini** EVP Global Sales
John leads the global sales organization and is responsible for driving the company’s growth. Prior to joining Cylance, John was an EVP at Forcepoint where he was responsible for all customer activity across the globe.

**Corey White** VP of Consulting
Corey leads the direction for services and customer engagement through one of the most experienced teams of highly respected experts in threat analysis, research, prevention, and recovery. Prior to joining Cylance, Corey served as Director of Consulting for Foundstone and McAfee/Intel Professional Services.

**Vina Leite** Chief People Officer
Vina leads Cylance’s HR strategy and operations, spearheading Cylance’s culture of putting people first. Prior to joining Cylance, Vina served as CHRO of QLogic and also held a number of HR roles at EMC and RSA where she was Vice President and Chief of Staff to the Executive Vice President, Human Resources.

**Renee Beckloff** VP Global Customer Success
Renee leads customer operations and support for Cylance’s hundreds of enterprise clients worldwide. Prior to joining Cylance, Renee was VP of Customer Advocacy at CrowdStrike and a Senior Director for Okta, Inc. and Hortonworks.

**Christopher Bray** SVP/GM Consumer
Christopher leads the Cylance consumer brand by developing the go-to-market strategies and product messaging. Prior to joining Cylance, Christopher served as SVP of Norton Field Sales and Marketing for Symantec and SVP/GM of Consumer PC OEM/ISP/Retail/Mobile for Intel Security.
Shaun Walsh  SVP Marketing
Shaun leads the strategic vision for Cylance's marketing and communications functions helping to achieve sales, growth, and profitability objectives. Prior to joining Cylance, Shaun served as VP of Corporate Marketing at QLogic and SVP of Marketing and Corporate Development at Emulex.

Ryan Golden  VP Design
Ryan leads the design and creative teams responsible for bringing the Cylance brand experience to life. Prior to joining Cylance, Ryan developed creative and brand strategies for companies like First American, Fonality, and Oakley.

Brady Berg  General Counsel, Legal
Brady has served as Cylance's General Counsel (GC) since the company's inception, first as outside counsel while a Partner and Co-Chair of the Venture Capital and Emerging Companies practice at Mintz Levin Cohn Ferris Glovsky & Popeo, P.C., and now as Cylance's in-house GC. Brady also practiced for nearly ten years at Wilson Sonsini Goodrich & Rosati in Silicon Valley.