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Transparency Is The New Business Mandate

Tools are not enough
Solutions that deliver total visibility
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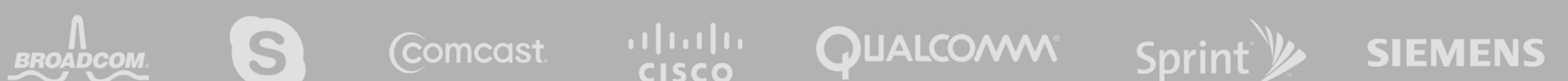### IoT: Why Use Codenomicon Solutions?

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Today's world is filled with complexity
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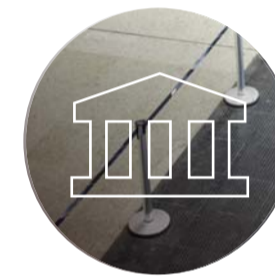
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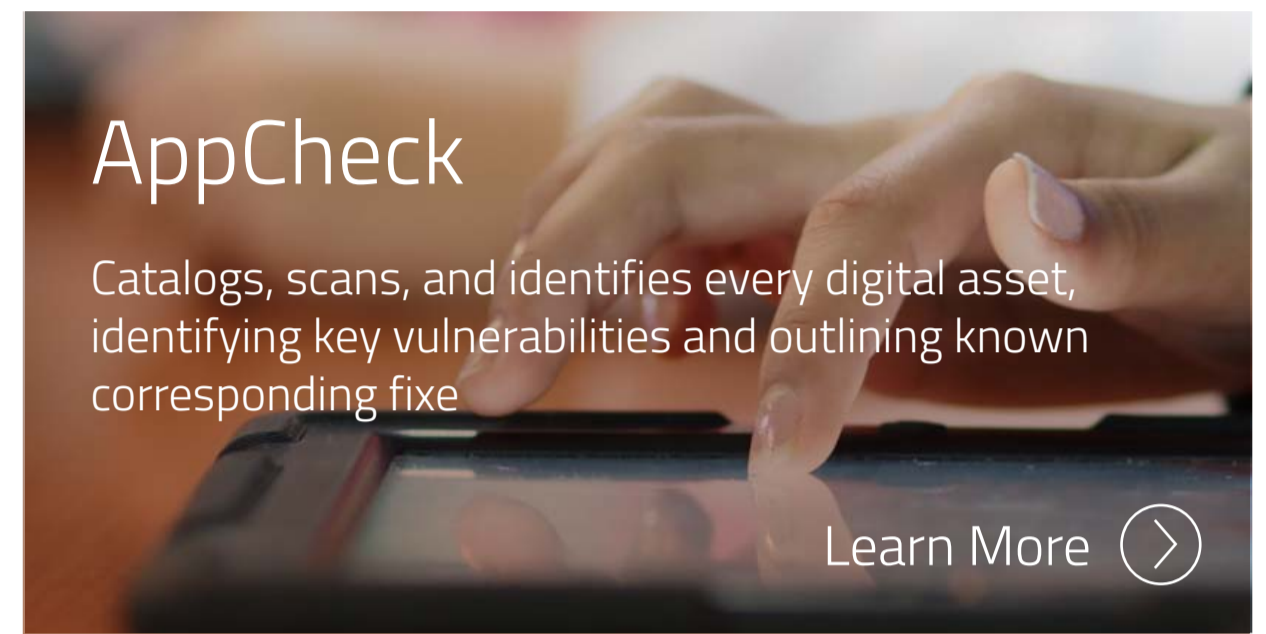Resources

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No other solution does more to quickly discover
unknown vulnerabilities and flaws

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corresponding fixe

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The Codenomicon Platform

Codenomicon delivers a next-generation suite of threat awareness and proactive security
testing solutions that verify and fortify software security and robustness, working
together to deliver strength and security at the Core. Individually, these solutions provide
new layers of testing, robustness, intelligence, collaboration and security. Together, they
deliver strength in visibility.

Defensics is unsurpassed in finding unknown vulnerabilities. No other solution does more
to quickly discover unknown vulnerabilities and flaws to bolster robustness and manage
risk by future-proofing the very core of connected systems, solutions and software.

AppCheck brings total visibility to the digital assets that organizations of all sizes
frequently use to build and expand their digital infrastructure. AppCheck catalogs, scans,
and identifies every digital asset, identifying key vulnerabilities and outlining known
corresponding fixes, presenting accurate documentation and a clear path to remediation.

AbuseSA provides governments, CERTs and cyber authorities with automated, aggregated
and actionable threat intelligence to enable effective security response. Transform the
overwhelming expanse of threat data into manageable reports and intelligence.

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Bringing the Unknown Into View

With security and transparency emerging as Board-level mandates, there is a renewed urgency to find the vulnerabilities that put business performance at risk. Defensics is a next-generation security testing platform that enables builders and users of technology to rapidly, reliably and efficiently find and correct dangerous errors and flaws. By proactively bringing the unknown into total view, Defensics sets the bar for superior vulnerability management.

Defensics provides the highest quality preemptive security and robustness. The technology at the core of Defensics is known as fuzz testing, a methodology that tests for unknown vulnerabilities by systematically sending invalid or unexpected inputs to the system under test, exposing software defects and vulnerabilities more effectively than any other solution in the market.
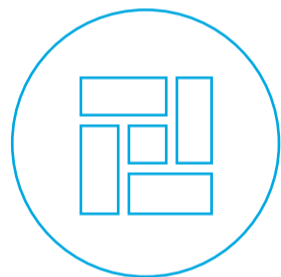
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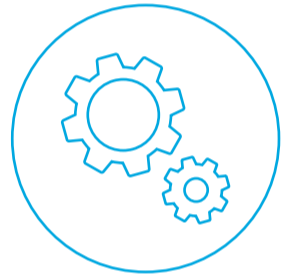
RELIABLE EASY TO USE SECURITY TESTING

Defensics is an easy to use test solution that gets you up-to-speed quickly. Clear and logical user interface will guide testing, security and development teams through every step of the testing process.

EXTENSIVE PROTOCOL COVERAGE

Defensics generational model-based testing modules are available for over 270+ standard network protocols, file formats and other interfaces. These tests can be further enhanced with advanced features and modules, allowing the testing of any network protocol, service interface or application file format.

ACCURATE, ACTIONABLE REPORTS

Defensics provides accurate, easy to interpret reports. The reports have direct links to test cases identifying specific problems, which helps sharing detailed test results within your organization, making results easy to act upon.
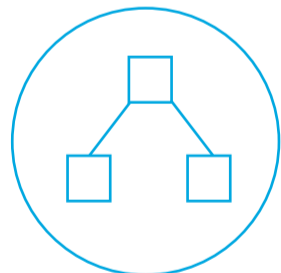
CLEAR PATHS TO REMEDIATION

Defensics creates workflows outlining clear paths to remediation. Detailed, online documentation for each test case expedites problem resolution, helping remediate flaws discovered from the systems under test.

THE SOLUTION THAT FOUND HEARTBLEED

Defensics was the primary platform being used when the Heartbleed flaw was identified. A security research was running a routine test of the Defensics feature, SafeGuard, identifying the flaw that had gone unidentified for over two years and impacted over 500,000 websites.

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Training and Testing For Tomorrow's Threats

Systems developed and tested with Codenomicon are built for optimal security. But as the threats and attacks become more sophisticated, organized and well-funded, many organizations are looking for additional resources, be it to advance their own teams, or to confirm and verify the highest levels of robustness and security. This is why Codenomicon's array of training, auditing and verification services have been created.

Building A Resilient World

With Codenomicon's services, customers receive full advantage of Codenomicon tools and security expertise. Vendors, operators, enterprises and government agencies can all benefit from these professional services. Codenomicon's professional service consultants are highly experienced in network auditing techniques, protocol testing methodology, and security and quality assurance best practices, working to meet business, performance, assurance and compliance requirements in a timely and cost-effective manner.

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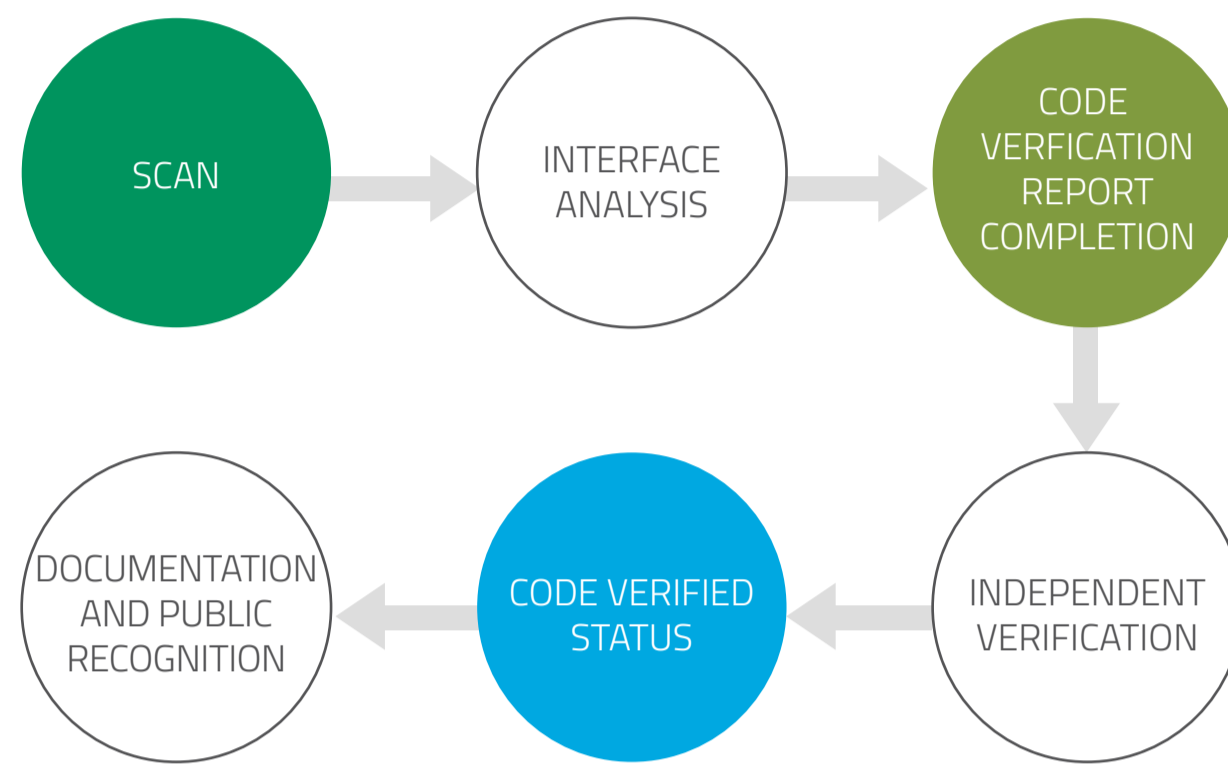CodeVerify

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A New Level of Security and Robustness Verification

Codenomicon is the industry leader in bringing strength in visibility to connected systems and devices through a next-generation suite of tools and services that reveal a better path to total defense. We understand that manufacturers of critical systems—including industrial control systems, automotive systems, defense systems and medical devices—are tasked with building solutions with optimal security in mind; it is a requirement, not a value-added service.

To address this amplified need for security and robustness, Codenomicon has developed a new verification program designed to ensure the highest levels of security, quality and robustness.

CodeVerify can be used by both vendors and product developers and is equally valued by buyers and product integrators. It is comprised of four primary testing phases, an independent third-party verification phase, and posting and publication of CodeVerified status.

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SCAN → INTERFACE ANALYSIS → CODE VERFICATION REPORT COMPLETION → INDEPENDENT VERIFICATION → CODE VERIFIED STATUS → DOCUMENTATION AND PUBLIC RECOGNITION

THE CODEVERIFY PROCESS INVOLVES SIX STEPS

Step 1: Scan
A static binary scan of all compiled application software/firmware using AppCheck to identify any known vulnerabilities and problems in third-party libraries while revealing any previously unidentified interfaces.

Step 2: Interface Analysis
Identification of all interfaces on a system or device where known vulnerability exposure exists. Vulnerabilities must be fixed, and any identified issues must be addressed, documenting the identified issues and the resolutions taken.

Step 3: CodeVerify Report Completion
Dynamic analysis of all exposed communication interfaces on a system or a device is conducted using Defensics. The results are packaged, exceptions and failures are addressed, and all corrections are documented.

Step 4: Independent Verification
Reports are submitted to Codenomicon via Codenomicon's simple cloud-based upload center for review. Codenomicon experts will review all report results and confirm findings of reports through a rigorous cross-checking procedure to validate testing.

Step 5: CodeVerified Status
Codenomicon runs automatic and manual tests to confirm results. A product will only achieve CodeVerified status once Codenomicon has determined the validity of all test results. CodeVerified status will not be issued for any device where one or more interfaces fails to pass Codenomicon-specified tests.

Step 6: Documentation and Public Recognition
CodeVerified products are posted on Codenomicon's website for public recognition.

As technology continues to evolve and connect systems and people to one another, the complexity of maintaining security standards will be paramount not only in the minds of most product developers, but also the end buyers implementing and deploying products. This will be a challenge that the entire industry must face in a proactive, responsible and transparent manner.

CodeVerify is intended to fill a need identified by our customers who sought to supplement existing standards and best practices for cybersecurity and robustness testing and to exceed their own customers' expectations for quality and safety. Most importantly, it is another step toward building a far more resilient world by elevating expectations for strength through total visibility.

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Abstract

It's What You Don't Know That Makes You Vulnerable: The application security landscape has gotten very complex. Today, there are new methods of assessment that firms must consider to mitigate their application security risks, especially when balancing the additional complications presented by third party libraries and reuse of code that can result in new security issues.

In this webinar, Codenomicon's guest speaker Tyler Shields, Senior Analyst at Forrester Research, will lay out the benefits of application security assessments and how they can help to reduce overall risk. He will also discuss how to fix root causes instead of just trying to block, defend, and respond to these issues.
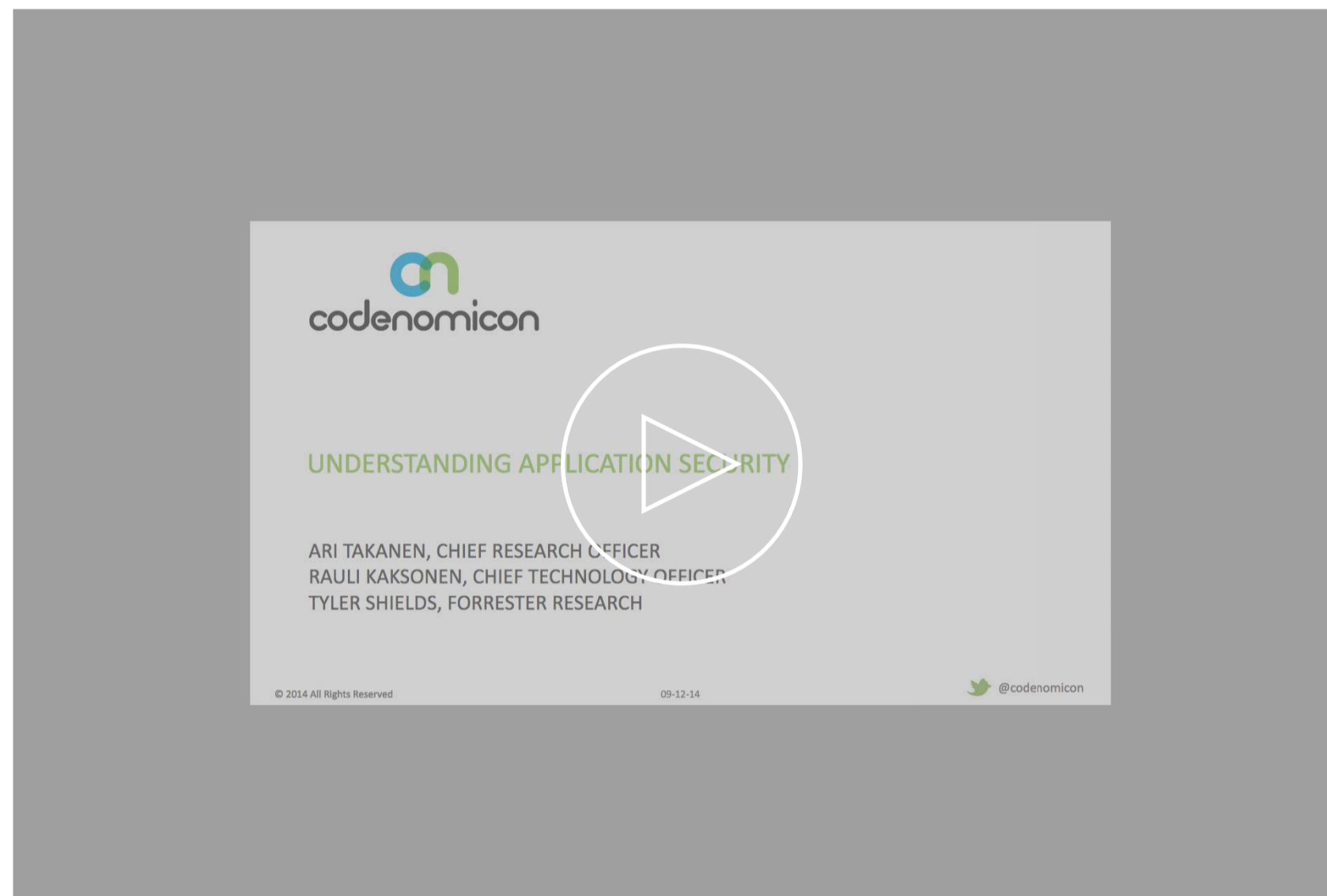
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UNDERSTANDING APPLICATION SECURITY

ARI TAKANEN, CHIEF RESEARCH OFFICER
RAULI KAKSONEN, CHIEF TECHNOLOGY OFFICER
TYLER SHIELDS, FORRESTER RESEARCH

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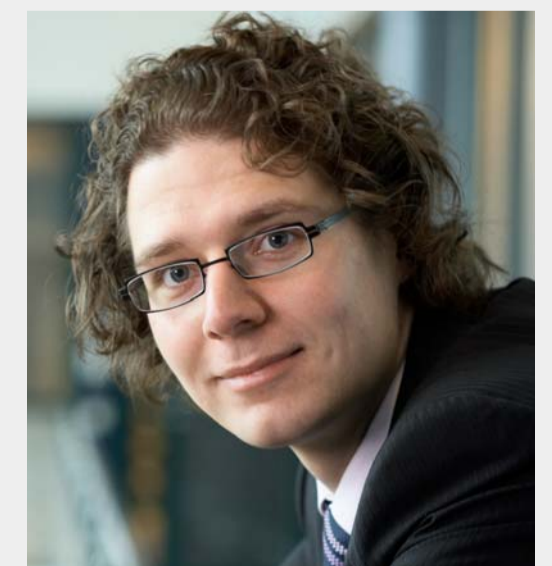**Download Files**

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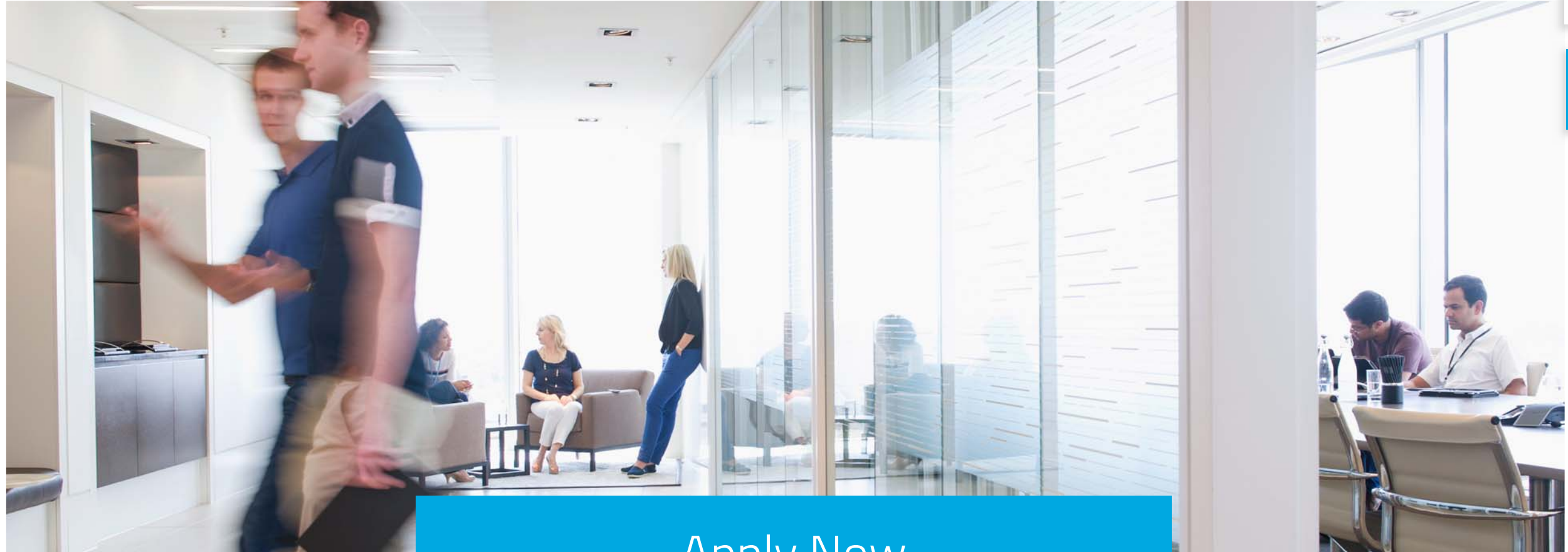**Mikko Varpiola**
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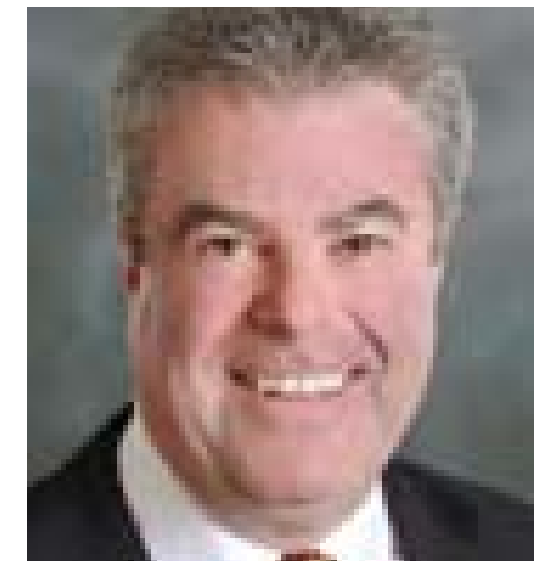Founder and Security & Robustness Solutions Architec

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