

APRIL 2023

AVEVA's Strategies to Keep Our Products & Customers Secure

For External Use

Alicia Rantos – AVEVA Cyber Security Governance Program Manager CS

Bryan Owen – AVEVA Head of Product Security R&D





Agenda

- Agenda & Introductions
- Current Threat Landscape
- AVEVA Product Cybersecurity Practices
- Customer Success Cybersecurity Best Practices & Resources
- Industry Best Practice Recommendations
- Questions
- Resources and References



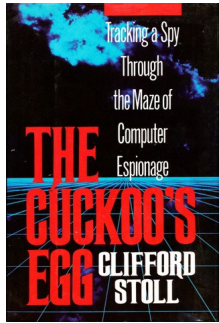
Speaker Introduction

Alicia Rantos

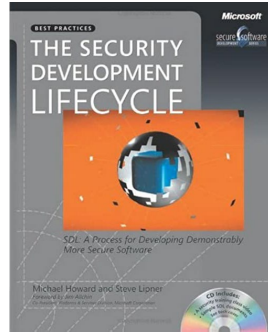
- Cyber Security Governance Program Manager, Customer Success (Global).
- Part of Customer Success since 1999 formerly supporting key products and programs.
- B.Sc. in Computer Information Systems and an MBA.
- Trained by the Department of Homeland Security's Control Systems Security Program and SANS in 2014.
- GIAC Global Industrial Cyber Security Professional (GICSP) certified 2015.

Speaker Introduction

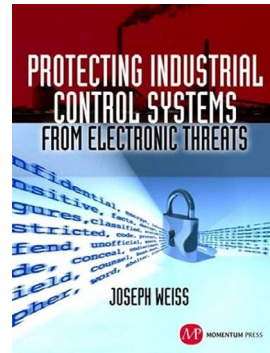
Bryan Owen



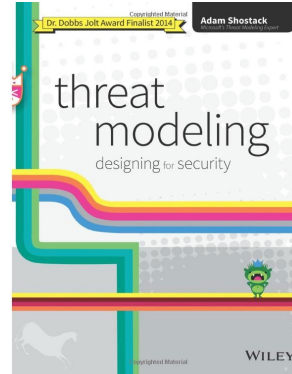
1989



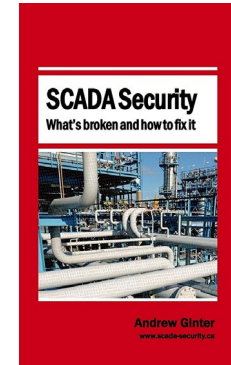
2006



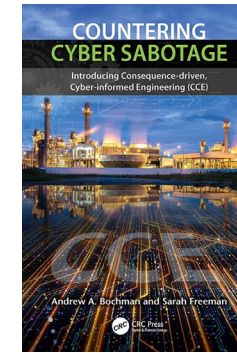
2010



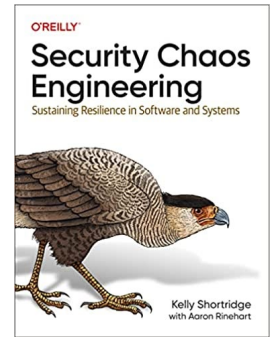
2014



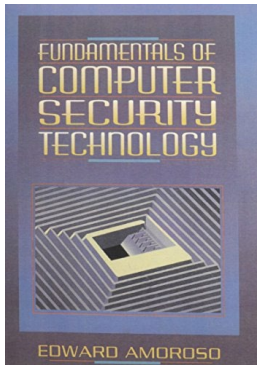
2016



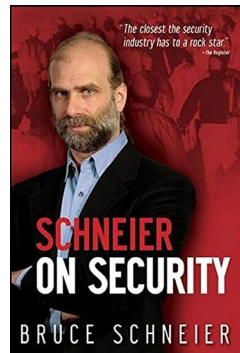
2021



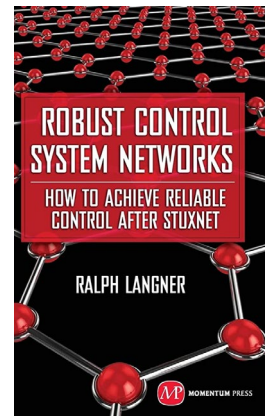
2023



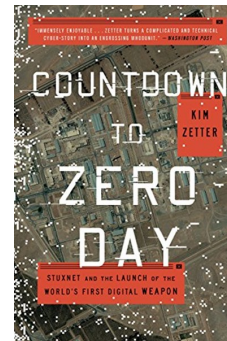
1994



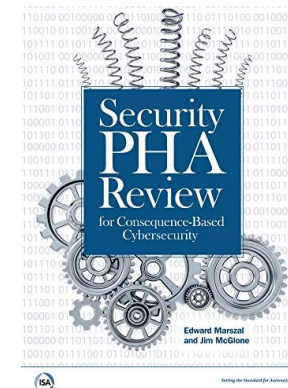
2008



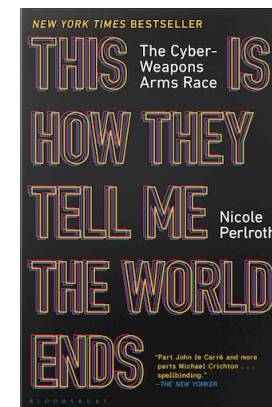
2011



2015



2019



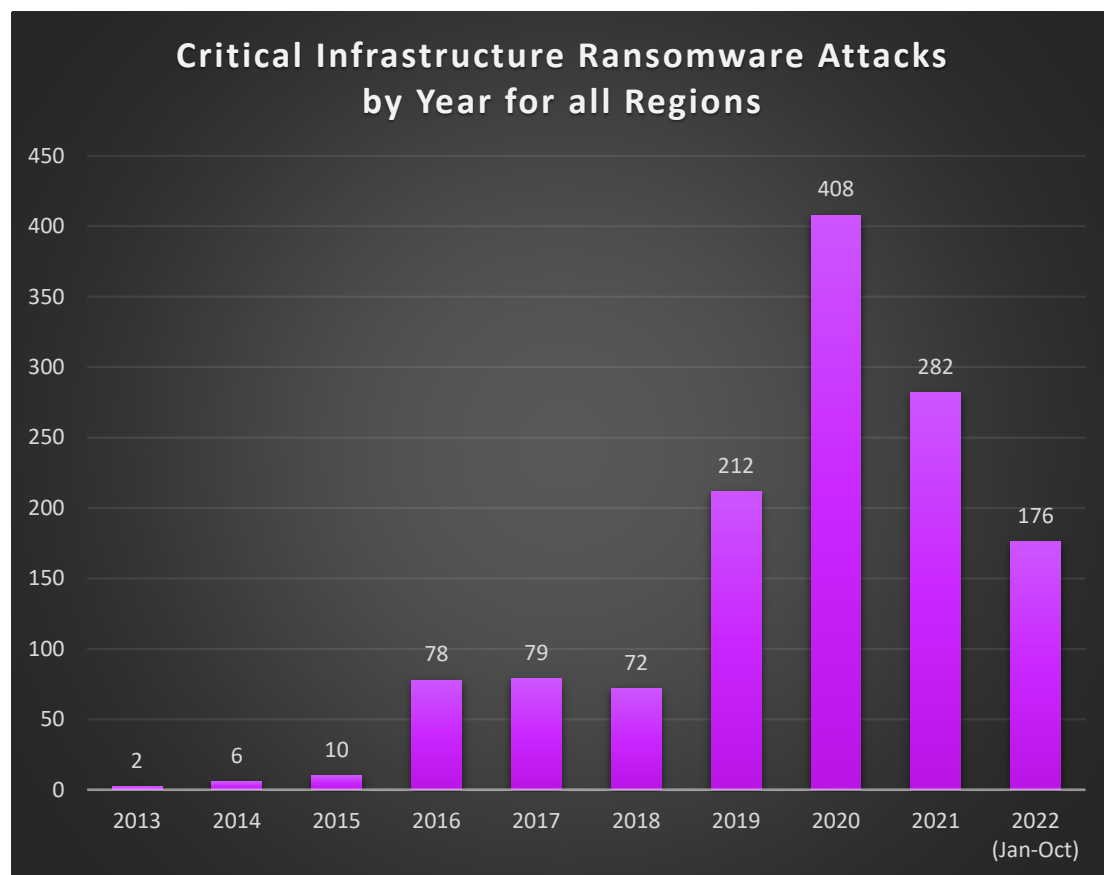


Current Threat Landscape

AVEVA

Critical Infrastructure Ransomware Attacks (CIRA) Dataset

Successful attacks are a new normal for several CI sectors. Government, Healthcare, and Education are the most reported while attacks in Chemical and Water are the least reported.



2022 (Jan-Oct)	2013 thru Oct 2022	Primary Sector
33	295	Government Facilities
25	223	Healthcare
24	197	Education
17	101	Critical Manufacturing
12	98	Information Technology
12	73	Transportation Systems
9	64	Commercial Facilities
10	59	Communications
8	52	Financial
1	49	Emergency Services
12	44	Energy
7	38	Food and Agriculture
0	13	Chemical
3	12	Water and Wastewater
3	7	Defense Industrial
0	1	Nuclear

Source: TEMPLE University Rege, A. (2022). "Critical Infrastructure Ransomware Attacks (CIRA) Dataset". Version 12.4. Temple University.
Online at <https://sites.temple.edu/care/cira/>. Funded by National Science Foundation CAREER Award #1453040. ORCID: 0000-0002-6396-1066

Could Ransomware Jump the Gap?





CISA: Securing Industrial Control Systems

A Unified Initiative

CISA's ICS Vision

- Empower the ICS community to defend itself
- Inform ICS investments and proactive risk management of NCFs
- Unify capabilities and resources of the Federal Government
- Move to proactive ICS security; and
- Drive positive, sustainable, and measurable change to the ICS risk environment.

CISA ICS STRATEGY PILLARS

1
PILLAR



Ask more of the ICS Community, deliver more to them.

2
PILLAR



Develop and use technology to mature collective ICS cyber defense.

3
PILLAR



Build “deep data” capabilities to analyze and deliver information that the ICS community can use to disrupt the ICS cyber kill chain.

4
PILLAR



Enable informed and proactive security investments by understanding and anticipating ICS risk.

Colonial Pipeline Attack timeline

Massive fuel outages in Eastern USA. \$4.4 million in ransom paid.

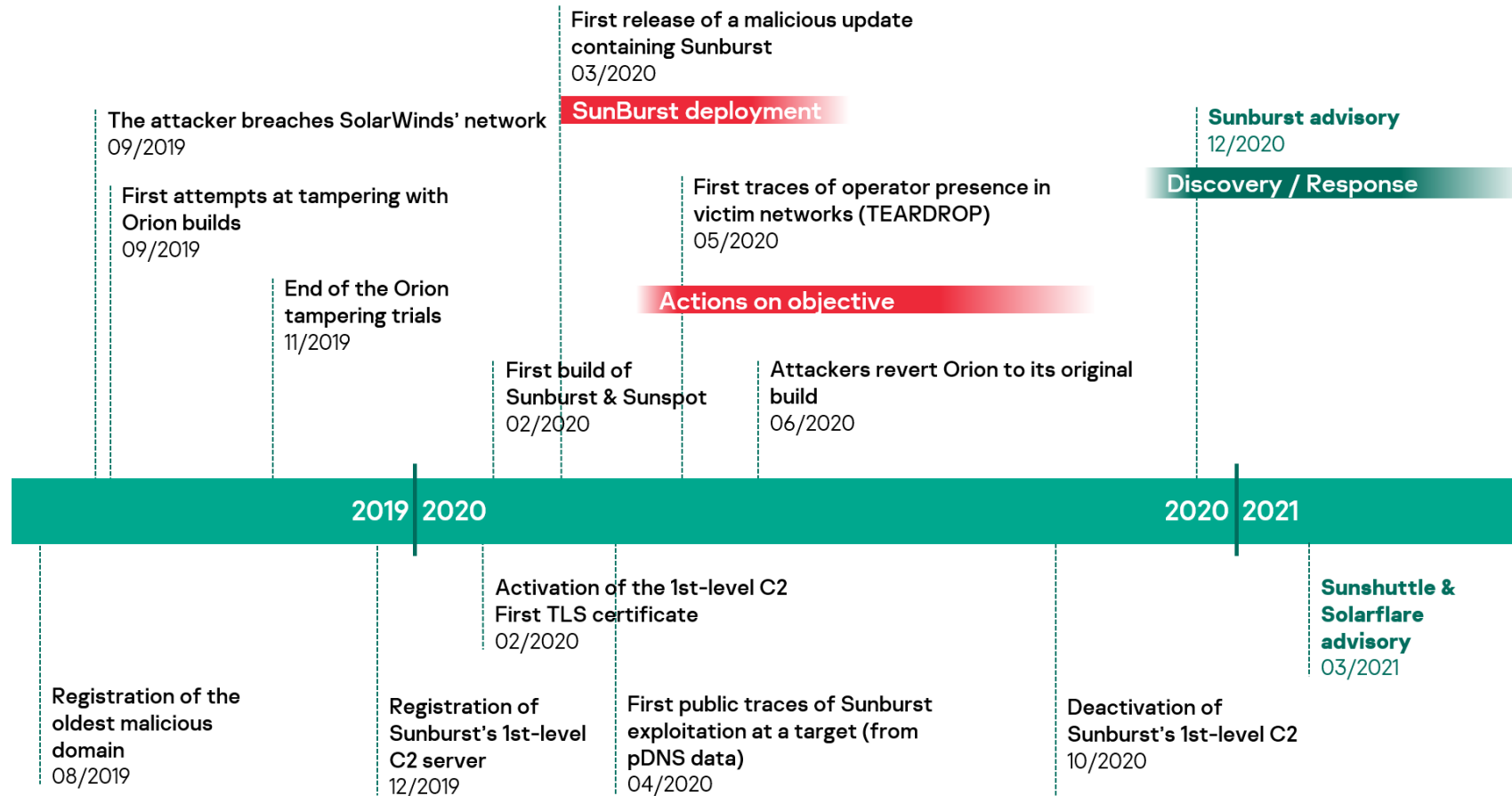
TIMELINE OF EVENTS



- Hackers used old existing credentials to access network via VPN
- The credentials were probably obtained from a previous information leak that had been sold on the dark web
- MFA could have helped
- Deletion of old accounts could have helped

SolarWinds attack timeline

Major operation lasting more than a year





AVEVA Product Cybersecurity Practices



AVEVA's Commitment

Support of AVEVA and customers' mission to operate safe and reliable systems.

Philosophy

- Do no harm
- Keep the bad guys out
- Limit potential damage
- Hunt for evil

Priorities

- Secure by design
- Pervasive access control
- Just enough privilege
- Resist sabotage



Executive Commitment

Risk management key performance indicators

Reportable incidents

Potential major non-conformance

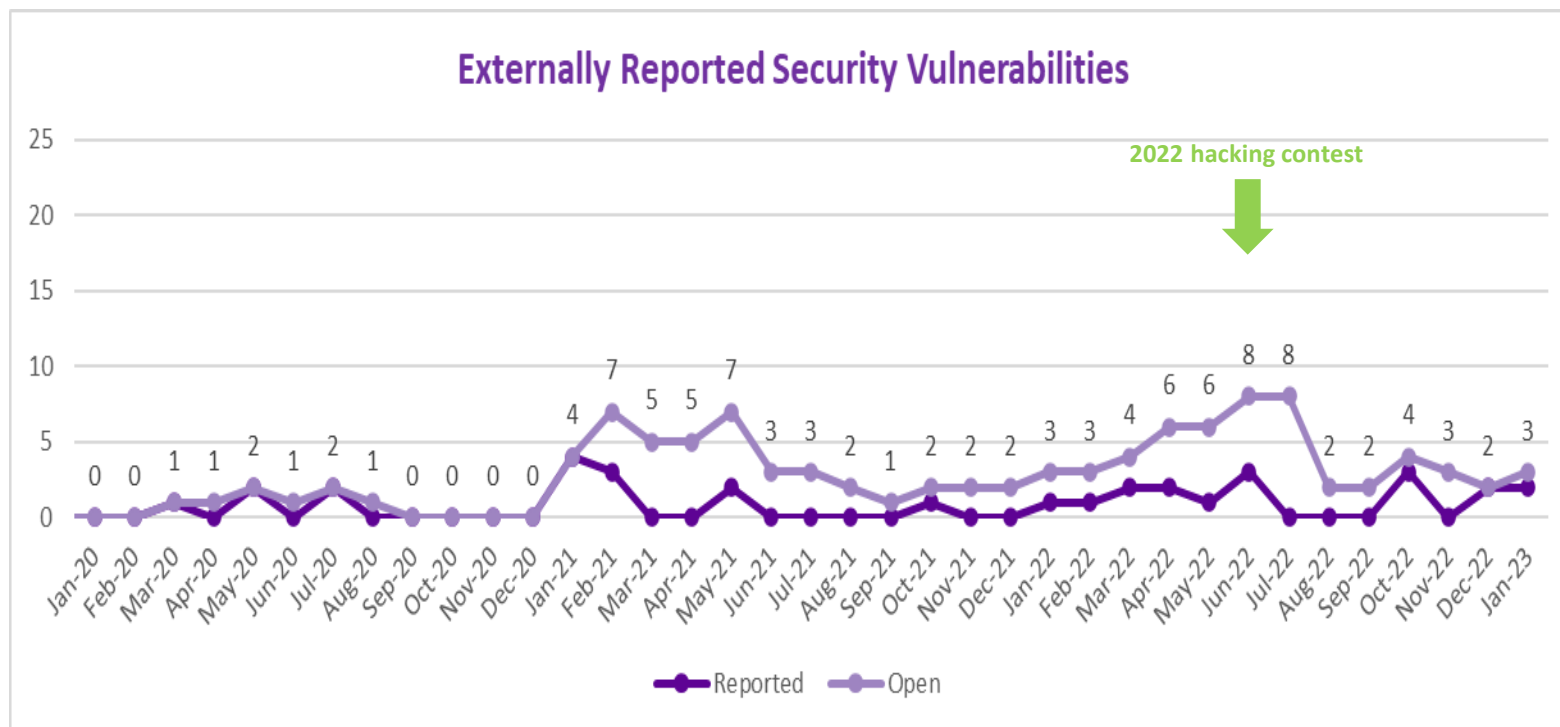
Cloud security interventions

Software security interventions

External discovered issues

External Discovered Issues

AVEVA coordinates with customers, security researchers and authorities on response to security concerns. Updates and/or mitigation guidance are provided in alignment with recognized standards.



INTERNATIONAL
STANDARD

ISO/IEC
30111

Second edition
2019-10

**Information technology — Security
techniques — Vulnerability handling
processes**

*Technologies de l'information — Techniques de sécurité — Processus
de traitement de la vulnérabilité*

Incident Response/Vulnerability Management

Incident Response Working Procedure Overview

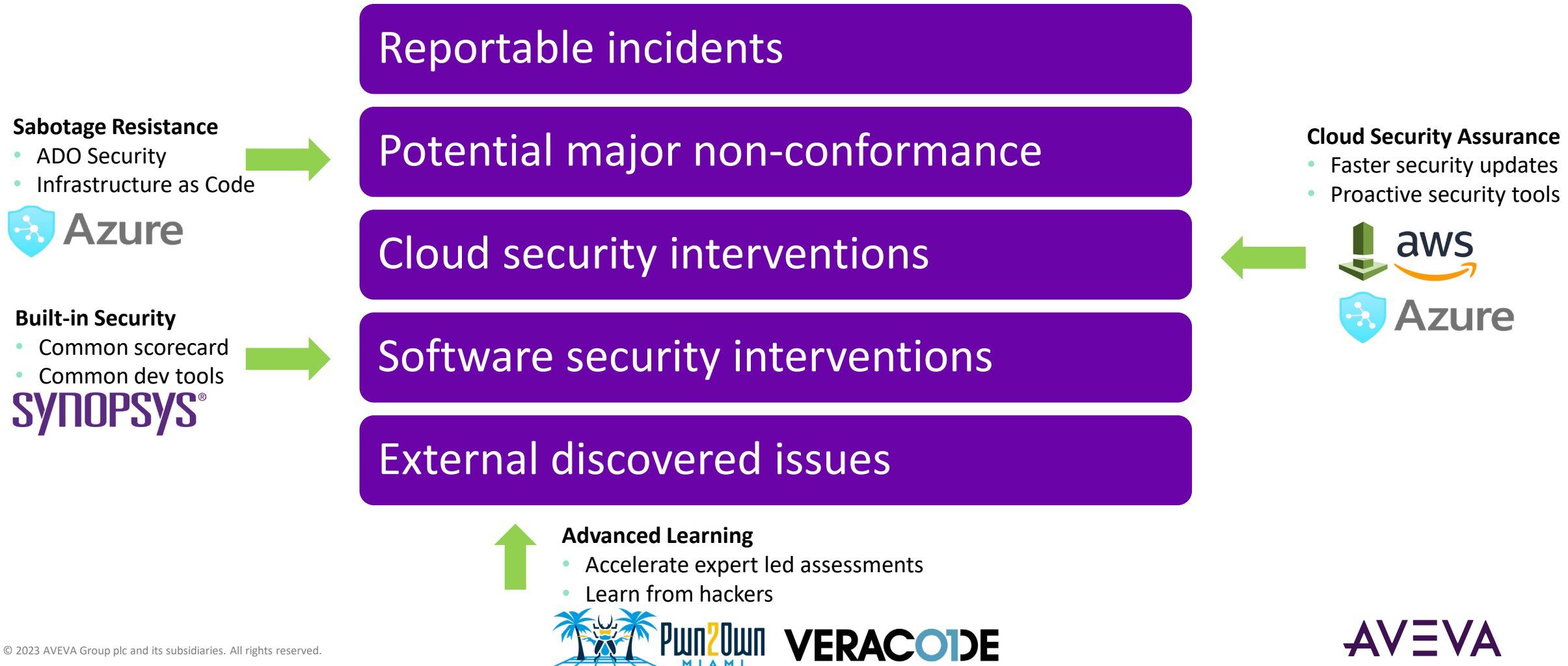
- Investigation, Validation, and Triage of issue
- Severity ranking use Common Vulnerability Scoring System and related information (CISA Known Exploited Vulnerability Catalog, Exploit Prediction Scoring System, etc)
- Coordination with AVEVA Product Teams and ICS-CERT (CISA)
- Remediation/mitigation plan approval including development of a software security update as appropriate
- Security Bulletins, Distributor and Customer alerts, and public announcements as warranted



AVEVA

Executive Commitment – Targeted Investments

Accelerate risk reduction commensurate with the changing landscape for cyber threats



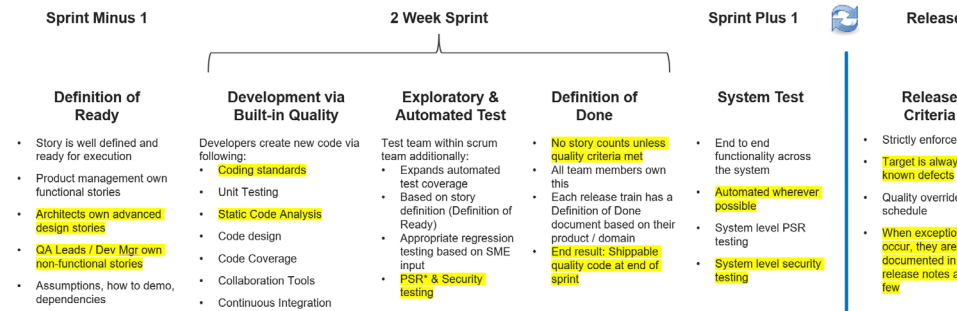
Modern Software Development Process and Tool Chains

Secure development lifecycle and operational security assurance practices are integrated within AVEVA R&D processes.

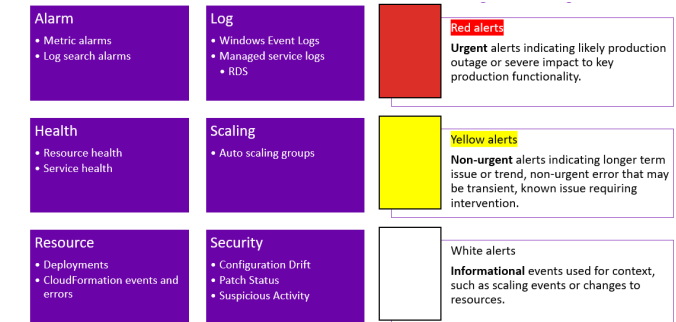
Ensuring Security Knowledge



Flow of built-in, high-quality software

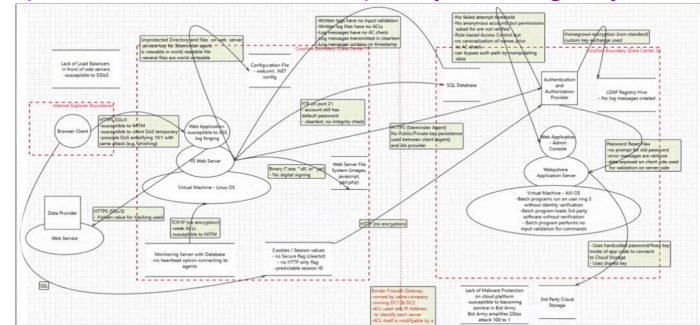


Cloud DevOps Dashboard – 24/7 Monitoring and Alerts



Secure design threat models:

- 1) Know what we are building; 2) Identify what can go wrong; 3) Decide what to do about it; 4) Verify we did a good job.



Security Tools

Development

- Checkmarx -> Polaris
- Mend -> Blackduck
- Visual Studio Code Analysis
- Roslyn Analyzers
- BinSkim
- DevSkim
- Microsoft Threat Modeling

Testing

- Attack Surface Analyzer
- NESSUS
- beSTORM
- Burpsuite
- Detectify
- Qualys
- Microsoft OneFuzz

Formal Security Review

Cloud Readiness

Cloud Deployment



AWS GuardDuty, Inspector

Azure Defender for Cloud

- Bitsight
- Detectify

- Qualys
- ReportURI

- IOActive
- Outpost24

- Veracode
- Synopsys

Practices conform or exceed industry standards & compliance: ISA/IEC 62443, NIST 800-218, ISO 27001, SOC2

Current continuous improvement initiatives and activities

*Several workstreams will involve significant joint effort with corporate IT and BU partners



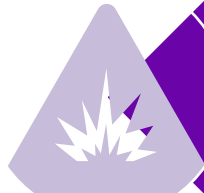
Built-in Security

- Measuring best practices
- Leading security tools
- Chaos engineering



Assessed and Verified

- Organization certifications
- Standard benchmarks
- Supply chain risk management



Sabotage Resistance

- Controlled access to code
- DevOps methodology
- Zero trust architecture



Cloud Security Assurance

- Configuration management
- Endpoint protection
- Security operations center



Advanced Learning

- Certified ethical hacker
- Penetration testing
- Adversary simulation



Product Security Partners

- Modern frameworks
- Security research
- Public/Private collaboration

Product Security Scorecard

We relentlessly strive to measure and prioritize security best practices.


Top 1-10 and Measurement [ID]		Top 11-20 and Measurement [ID]	
1	Virus scan deliverables [#202]*	11	Track and review code changes [#103]
2	SCA (Black Duck/Mend) No security issues in release [#200]	12	Credential Management [#68]
3	Sign executables [#201]	13	Service hardening: run-as [#16]
4	Verification of 3rd Party Components [#101]	14	Encryption in transit [#63]
5	Formal Security Review (FSR) with Product Security [#220]	15	Remove banned functions [#25]
6	SAST (Polaris/Checkmarx) Security Issues [#120]	16	Content Security Policy [#69]
7	DAST Adoption (Detectify/Outpost24) [#118]	17	Anti-CSRF [#14]
8	Threat Modeling [#219]	18	Least privilege access to all remote datastores/api's [#217]
9	Azure Security Center for Hosted Services [#108]	19	Yaml Pipeline [#109]
10	Binary Analysis (Binskim) [#34]	20	Attack Surface Analysis [#44]

*100's of measurements/practices are in our toolbox

Scorecard Illustration


Use objective data to inform planning and advance best practice implementation

Scorecard PowerBI report selection




Scorecard Recommendations
Lists recommendations for all active and mature codebases

Open report




Deficient Required Impact
Identifies codebases that are blocked by a missing Required Scorecard Measurement

Open report




Measurements Technologies
Useful for reviewing and analyzing currently available measurements

Open report



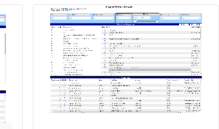
Response Distribution
Shows point distribution of all codebases for each measurement

Open report



Null & Deprecated Responses
Highlights codebases that have not provided a response to a Measurement, or the response is deprecated

Open report



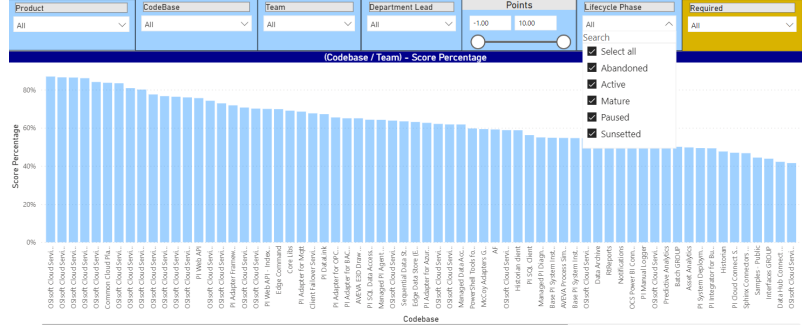
Project Details
For comparing measurement responses between codebases

Open report

“Project Details” report sample for Enterprise SCADA

Product	CodeBase	Team	Department Lead	Points	Lifecycle Phase	Required	
All	Enterprise SCADA	All	All	-100 1000	All	All	
Codebase Responses							
MeasurementId	Measurement	HelpURL Enterprise SCADA					
14	Anti-CSRF	No anti-CSRF protection (0)					
16	Service hardening - run-as	Virtual service account (NT Service\ServiceName) by default, with MSA/GMSA support (10)					
23	Latest Compiler version	latest (10)					
25	remove banned functions	Banned functions analyzed by Polaris/Checkmarx (2)					
34	BinSkim	Manual (1)					
44	Attack Surface Analysis	Scan manually per release (2)					
63	Encryption in transit	Encryption in transit enabled by default for all protocols supporting encryption (3)					
68	Credential management	Password, encryption key, etc. stored in O/S credential vault (10)					
69	Content Security Policy	no (0)					
101	Sign 3rd Party Components	3rd party PEs (including Microsoft) - any unsigned (0)					
103	Track and review code changes	Work item required. All production code branch policies require code reviews and work L...					
109	VAML Pipeline	Using VAML builds on custom build agents (5)					
118	DAST Adoption (Rapid7/Datascity/Outpost24)	no plan (0)					
120	SAST (Polaris/Checkmarx) Security Issues	Exception granted, requires explanation/approval (1)					
200	SCA (Black Duck/Mend) No security issues in release	Exception granted, requires explanation and approval (1)					
201	Sign executables	PE shipped: exe, dll, ps1, msi, cmd, etc. - all signed and SDL Binary Scanner verified (0)					
202	Virus scan deliverables	all files scanned with evidence report (5)					
217	Least privilege access to all backend datastores/API's	not evaluated (0)					
219	Threat Modeling	ThreatModel Diagram exists, analysis completed (5)					
Responses							
URL	Measurement	Team	Codebase	Response	Points	Comment	Submitted Date
🔗	Anti-CSRF	Operations 1	Enterprise SCADA	No anti-CSRF protection (0)	0.00	We have identified 3 web interfaces in Enterprise ...	12/29/2022 3:10
🔗	Service hardening - run-as	Operations 1	Enterprise SCADA	Virtual service account (NT Service\Se...	10.00	Enterprise SCADA services are the installed by Pr...	12/12/2022 7:26
🔗	Latest Compiler version	Operations 1	Enterprise SCADA	latest (10)	10.00		11/21/2022 8:26
🔗	remove banned functions	Operations 1	Enterprise SCADA	Banned functions analyzed by Polaris/...	2.00		11/11/2022 8:26
🔗	BinSkim	Operations 1	Enterprise SCADA	Manual (1)	1.00		11/11/2022 8:14
🔗	Attack Surface Analysis	Operations 1	Enterprise SCADA	Scan manually per release (2)	2.00	A/S scan was incomplete for last release. In identifi...	11/11/2022 8:14

“Scorecard Summary” report sample for all codebases



Scorecard Tailored Baselines

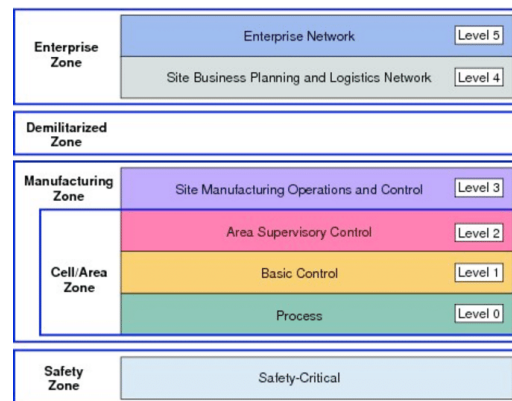
Scorecard leverages internal tools and procedures with proven support for compliance audit.

Cloud Service Baseline

- Measurements specific to rapid deployment of security updates
- Multi-tenant measurements
- Cadence vs release focused measurements
- Threat simulation including
 - Chaos engineering methods
 - External penetration testing
 - Detection and response drills
- SOC2 specific compliance evidence

Process Control Baseline

- Measurements applicable to ISA/IEC 62443 product capability level 2
- Prescriptive threat modeling measurements
- ISA Secure specific compliance evidence



National Security Baseline

- Measurements specific to regulatory directives
- NIST 800-53 R5 conformance for development environment
- MS ADO security best practices
- Infrastructure as code measurements
- Prescriptive software supply chain security risk management

Advancing Baseline Capability

Important initiatives leveraging industry experts are highlighted below.



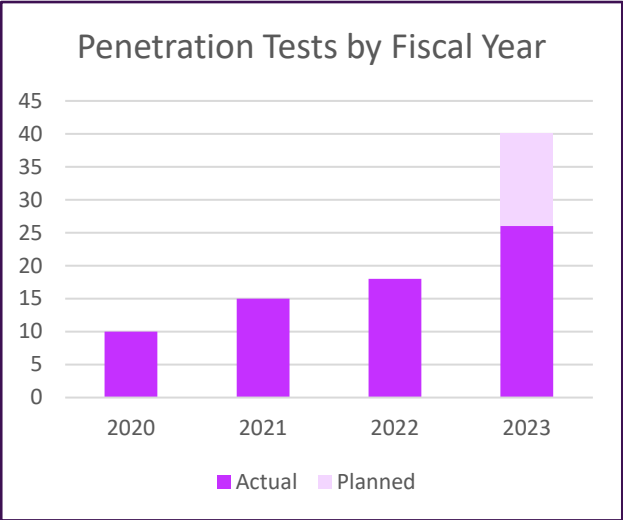
- Advance secure code and manage 3P component risk
- Best of breed software security suite tools
- **Status: Migration in progress**



- Accelerate penetration testing and learn from experts
- Trusted security verification consultation
- **Status: In production**



- Unify and modernize secure code signing infrastructure
- Trusted root for cryptographic service
- **Status: Preparation and planning**



“We have 6,000-plus developers on six continents. Trying to secure all the keys that they need (for code signing) would be a nightmare. With SSM, the keys remain in the cloud, and access is provided to sign with them, but not to get the actual keys themselves. That is a huge win for us.”

David Nalley, Vice President, Infrastructure, The Apache Software Foundation



Advancing Cloud Capability

Operational assurance built into cloud services includes comprehensive security monitoring and alerting. We are targeting detection rules and alert workflows for faster remediation.

Inside->Out (Configuration and Activity Alerting)

- Vulnerability and network exposure inspection
- On change and continuous security monitoring



AWS Inspector



Defender for Cloud

Outside->In (Attack Surface Management)

- OWASP compliant web application security testing
- Continuous penetration testing service



Domain verification



Continuous PenTest

BITSIGHT

Security rating service & supply chain risk management

- Corporate security

Summary of Certifications and Q3 External Audit Highlights

Audit frequencies include biannual, annual and every 3 years



ISO 9001 Quality Certification

- Quality Management certificate
- Improves product, process and service quality
- Increases customer satisfaction
- **Audit: Oct 2022**



ISASecure SDLA

- IEC 62443-4-1 standard
- Security Development Lifecycle Assurance
- Secure by design; secure coding and verification
- **Audit: Sept/Oct 2022**



ISO 27001 Security Certification

- Information Security Management
- Risk-based approach to information asset management
- Continuous risk assessments
- **Audit: Oct 2022**



ANSSI Certification

- France only - country certification
- Product specific: AVEVA System Platform
- French security agency requirement
- Business imperative; sales requirement



SOC 2 Type 2 Audit

- Security assessment of cloud services
- AICPA Trust Criteria
- Business imperative for AVEVA Cloud
- **Audit: Nov/Dec 2022**



ISO 14001

- Environmental Management Systems
- Environmental impact continuous improvement
- Business imperative for ESG
- **Audit: Nov/Dec 2022**

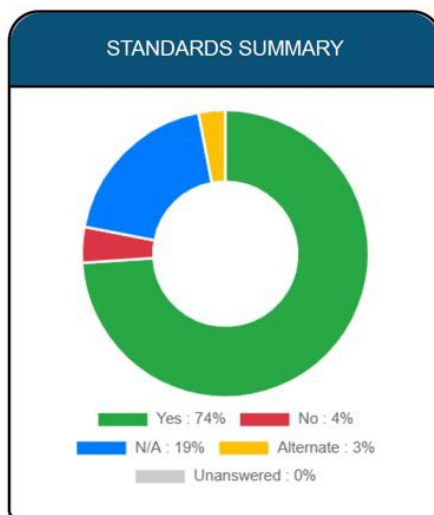
Product Security Special Assessments

Benchmarking and advancing defender knowledge is essential to counter rapidly evolving threats.



National Security Zone

- US CISA security evaluation tool
- NIST 800-53 Rev 5 Score: >95%



ZDI sponsored bug bounty contest

- AVEVA Edge Data Store
- \$20K Award for Remote Code Execution

Target	Cash Prize	Master of Pwn Points
AVEVA Edge Data Store	\$20,000 (USD)	20

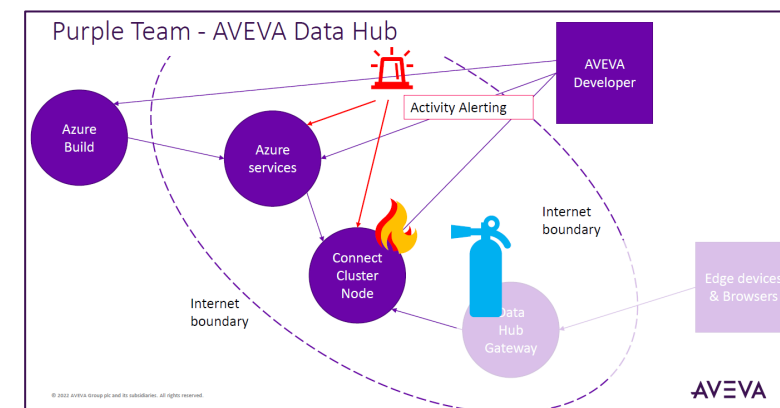
2022 results: Edge HMI 4 exploits (\$80K)

Target	Cash Prize	Master of Pwn Points
AVEVA Edge	\$20,000 (USD)	20



AVEVA Data Hub

- Purple team engagement
- Highlighted in AWC security presentation



Light 'fires' behind the lines, verify detection, and practice putting the fire out.



Customer Success Cybersecurity Best Practices





Customer Success Cybersecurity Program

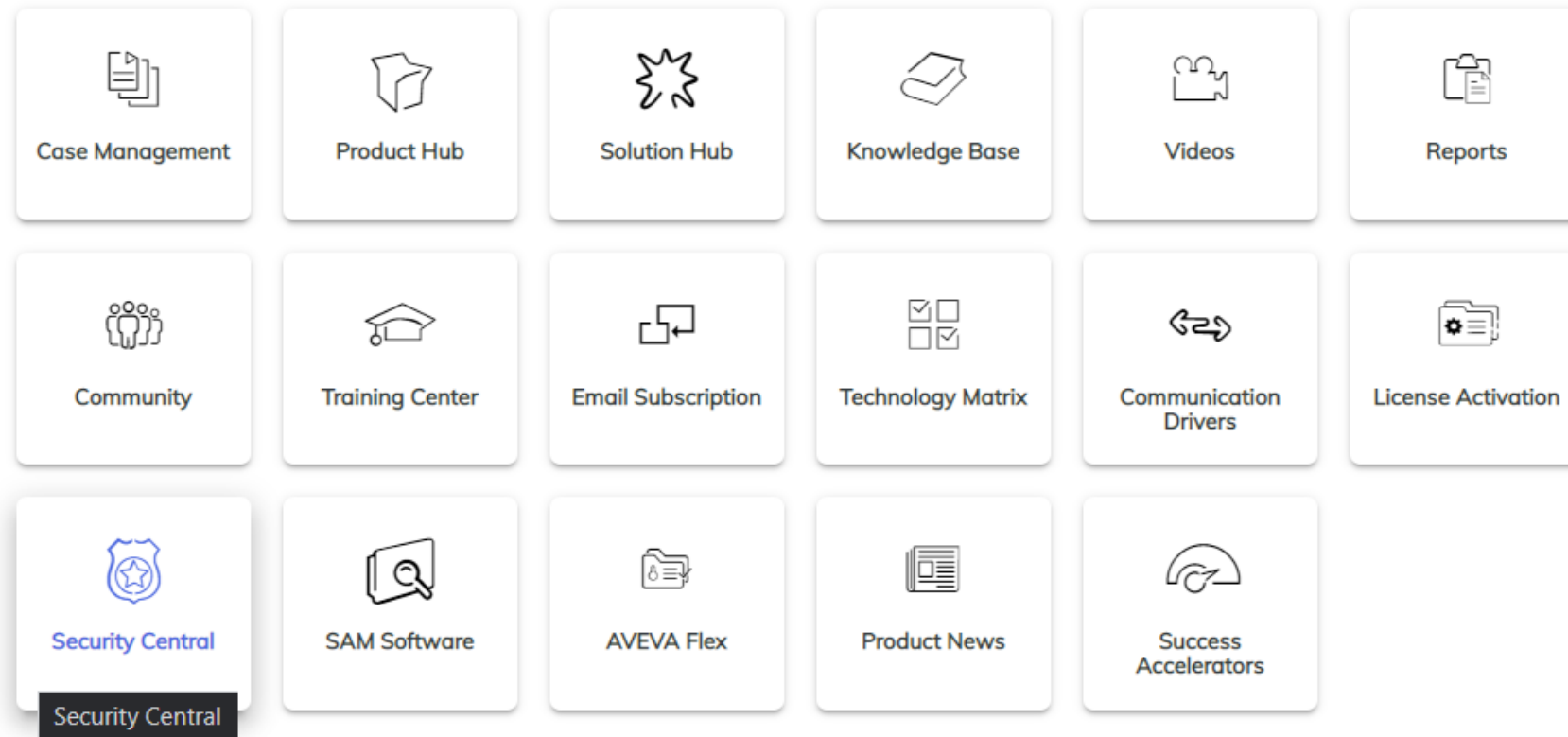
- Customer cyber security issues/incidents, questions, requests.
- Collaborates with organizational resources:
 - R&D / QA product security teams to resolve issues, test, document and present.
 - Marketing, Management and various teams to accomplish cyber security goals.
 - Schneider Electric, Cylance and other Cyber Security consulting groups on consulting projects, training.
 - CF Team on Success Accelerator service offering details and resources.
- Customer Success Website's Security Central and related questions
- Customer Success PI Business website's security pages and articles.

Knowledge & Support Center: Security Central

SoftwareSupportSP.Aveva.com/#/SecurityCentral

Knowledge & Support Center

 Customize





Security Central Resources

- **Product Cyber Security Updates**
 - Official product vulnerability issue/resolution bulletins
 - Products/lines added as needed
- **Microsoft Security Update Reports**
 - Update/KB testing results posted
- **Policies & Guidelines**
 - Support statement, related updates and statements
- **Certifications & Compliance**
 - Security Certifications, Compliance, Attestations.



Product Cyber Security Updates: Highlight Recent Posts

- Mar 14, 2023 - [AVEVA-2023-001](#)
 - AVEVA™ InTouch Access Anywhere and AVEVA™ Plant SCADA Access Anywhere: Multiple Vulnerabilities
- Aug 18, 2022 - [AVEVA-2022-005](#)
 - Multiple vulnerabilities in AVEVA Edge (formerly known as InduSoft Web Studio)
- May 9, 2022 - [AVEVA-2022-001](#)
 - AVEVA™ InTouch Access Anywhere and AVEVA™ Plant SCADA Access Anywhere – Escape from streamed app into OS context
- Feb 14, 2022 - [AVEVA-2021-007](#)
 - System Platform – Cleartext Credentials in Memory and Diagnostic Memory Dumps



Microsoft Security Updates Reporting

- Partnership with Microsoft
- Updates / KBs are tested and posted monthly by last Friday of the month
- Results posted on **Security Central** cross-referenced with **Technology Matrix**
- Related Tech Alerts
 - **TA000032813** System Platform and related product issues with KN5004442 – DCOM Hardening
 - **TA000034767** Microsoft Updates / KBs for .NET Framework impact System Platform and related AVEA product installations.



Cloud Security Trust Center

Ensuring your digital security

- AVEVA Cloud Security Trust Center at <https://sw.aveva.com/trust>
- Sub-sites for System Status, Security and Legal
- We also have available by request from Product Management:
 - CSA CAIQ completed for our Cloud products [Consensus Assessment Initiative Questionnaire]
 - Cloud Security White Paper
- And available by request:
 - SOC 2 Type 2 Report (available on request with NDA)
 - CyberGRX report (available on request with NDA)



DHS TSA Security Directive Pipeline 2021-02C (SD02C) [2022]

- Summary of Directive
 - Primarily effects Enterprise Pipeline Management Systems(OASyS), Wonderware, Citect
 - Routinely changing product passwords
 - Secure access of infrastructure, move backup media off-line/site
 - Recovery exercises from malware/ransomware
 - Limit access to customer operations environments
 - Implement multi-factor authentication, Allow-listing/whitelisting
- Typical issues
 - Issues involving Microsoft Updates – challenges bringing systems up-to-date
 - Updating passwords
 - Pointing customer to self-serve info on how-to...



Industry Best Practice Recommended Actions



NIST Guides

- Customers should follow the NIST Cybersecurity Framework (CSF)
- And the NIST Guide to Industrial Control Systems (ICS) Security – NIST SP 800-82.



Key Concepts and Best Practices

- Architecture and network segmentation
- Security Controls and User Management
- Vulnerability Management
- Patch/Version Management
- System Protections (Antivirus, Firewalls etc)
- Policies, Monitoring and Reporting
- Incident Response
- Business Continuity / Disaster recovery
- Training and User Education



CISA Performance Goals



CPG

Cross-Sector Cybersecurity
Performance Goals

March 2023 Update

NIST CSF	Cybersecurity Practices to Address ICS Att&ck Tactics
Identify	Asset Inventory
	Mitigating Known Vulnerabilities
	Supply Chain Risk Management
Protect	Changing Default Passwords
	Account Management
	Network Segmentation
	Phishing-Resistant MFA
	Cybersecurity Training
	Strong and Agile Encryption
	Secure Sensitive Data
	Hardware and Software Approval
	System Backups
Respond	Secure Log Storage
	Prohibit Connection of Unauthorized Devices
	No Exploitable Services on the Internet
	Limit OT Connections to Public Internet
	Vulnerability Disclosure/Reporting
	Deploy Security.txt Files

Conclusions



Our Vision of Success for Internal and External Stakeholders

Customers

- Minimal risk of attack through a vulnerability in AVEVA products
- Security updates are non-disruptive and manageable

AVEVA

- Software development and operation is secure and cost efficient
- Product offers are not economically viable targets (for internal or external attack)

Regulators

- AVEVA is a trusted industry partner and actively engaged in collaboration
- Product offers are certified as fit for purpose (support of critical operations)

Moving Forward

Cybersecurity is a Partnership and Shared Commitment

- AVEVA is committed to keeping our customers secure.
- AVEVA will continue to focus on product Cybersecurity through its SDL, Tools and Practices
- AVEVA will continue to evolve our products with the latest technology to ensure our customers a secure experience with all our product offerings

Stay Safe and Secure!



Questions



Resources





Resources

Page 1

- NIST CSF
 - <https://www.nist.gov/cyberframework>
- NIST 800-82 r2: Guide to Industrial Control Systems (ICS) Security
 - <https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-82r2.pdf>
- NIST 800-61 r2, Computer Security Incident Handling Guide
 - <https://nvlpubs.nist.gov/nistpubs/specialpublications/nist.sp.800-61r2.pdf>

Resources

Page 2

- NIST 800-184, Guide for Cybersecurity Event Recovery
 - <https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-184.pdf>
- NIST 800-30 r1, Guide for Conducting Risk Assessments
 - <https://csrc.nist.gov/publications/detail/sp/800-30/rev-1/final>
- GPO Resources
 - <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-security-configuration-framework/windows-security-baselines>
 - https://www.cisecurity.org/benchmark/microsoft_windows_server/
- Microsoft's Threat Modeling Tool
 - <https://www.microsoft.com/en-us/securityengineering/sdl/threatmodeling>



Resources

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- CISCO-AVEVA-SE Oil and Gas Pipeline Security Reference Document
 - https://www.cisco.com/c/en/us/td/docs/solutions/Verticals/Oil_and_Gas/Pipeline/SecurityReference/Security-IRD/Security-IRD.html
- National Vulnerability Database (NVD) by NIST
 - <https://nvd.nist.gov/>
- Common Vulnerabilities and Exposures (CVE)
 - <https://cve.mitre.org/>

Resources

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- SANS (Information Security Training and Resources)
 - <https://www.sans.org/>
- Center for Internet Security (CIS)
 - <https://www.cisecurity.org/>
- CISA / NCCIC / ICS-CERT
 - <https://www.cisa.gov/ics>
 - <https://www.us-cert.gov/ics>
- OWASP (Open Web Application Security Project)
 - <https://owasp.org/>



Resources

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- NIS Directive
 - <https://ec.europa.eu/digital-single-market/en/network-and-information-security-nis-directive>
- Standards
 - IEC 62443, ISO 2700x, NERC, NIST
- FAIR (Factor Analysis of Information Risk)
 - Value at Risk (VaR) Framework for cybersecurity and operational risk
 - <https://www.fairinstitute.org/>



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