

# **Cisco Security**

Firepower – Il business enabler per la sicurezza

31 Gennaio 2025

Webinar

Federico Frosini – Business Development Manager – TD SYNNEX Giacomo Casati – Security Presales Specialist – TD SYNNEX Andrea Pezzoni – Security Presales Specialist – TD SYNNEX Francesco Bagnoli – System Architect - Cisco

### Agenda

- Cisco Security Overview Federico Frosini
- Cisco Firepower Deep Dive *Francesco Bagnoli*
- Sinergie ed integrazioni *Giacomo Casati*
- Q&A



## Superare il Silo

La sfida della Cyber Security è uscire dai sistemi chiusi e migrare verso un ECOSISTEMA della sicurezza

I problemi legati al ciclo di vita dei prodotti di Cyber Security:

- Mancanza di risorse e di skill
- Difficoltà di monitoraggio
- Difficoltà a scalare in modo organico
- Molti punti di Fail
- Scarsa visibilità generale
- Lentezza nell'evolvere
- Perimetro in espansione



La risposta a questi problemi è il concetto di Piattaforma:

- Unico stack di prodotti da conoscere e gestire
- Scalabilità basata su cloud e virtualization
- Sicurezza a 360°
- Velocità di implementazione Soluzione unica
- Sistemi distribuiti e gestiti



More products leads to more complexity within your business and IT environment

**Exfiltration** 

Ransomware

Lateral movement

Web threats

Stolen credentials

Spam



76

Average number of security tools per enterprise

78%

Organizations report that high number of security tools is driving cybersecurity complexity\*



### Customer top priorities address the challenges



**Boost Productivity** 

Empower users to do their best work



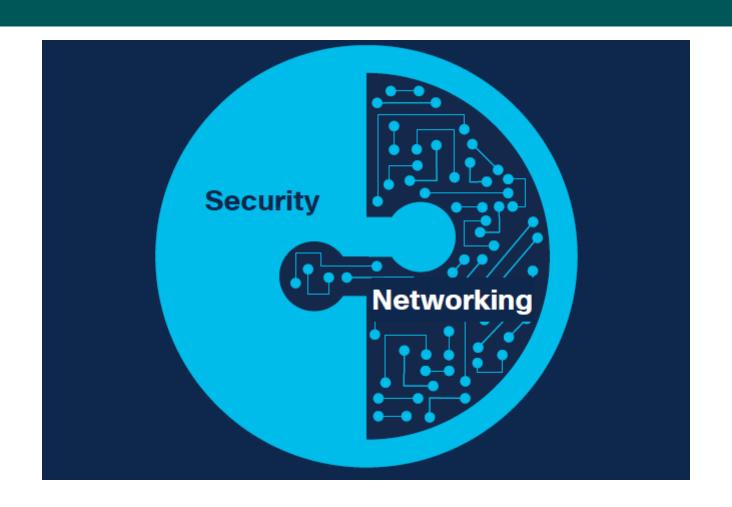
Optimize Costs
Address inefficiencies



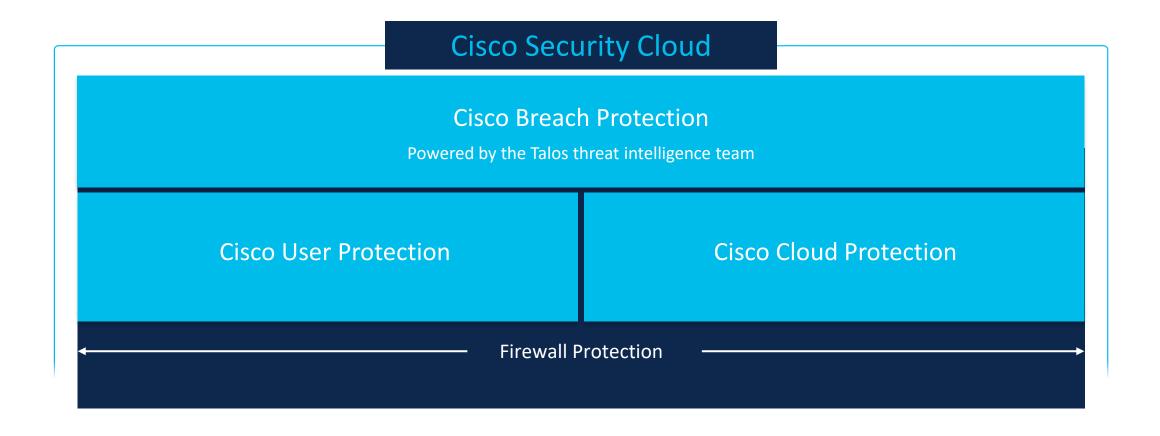
**Minimize Risk** 

Secure your organization

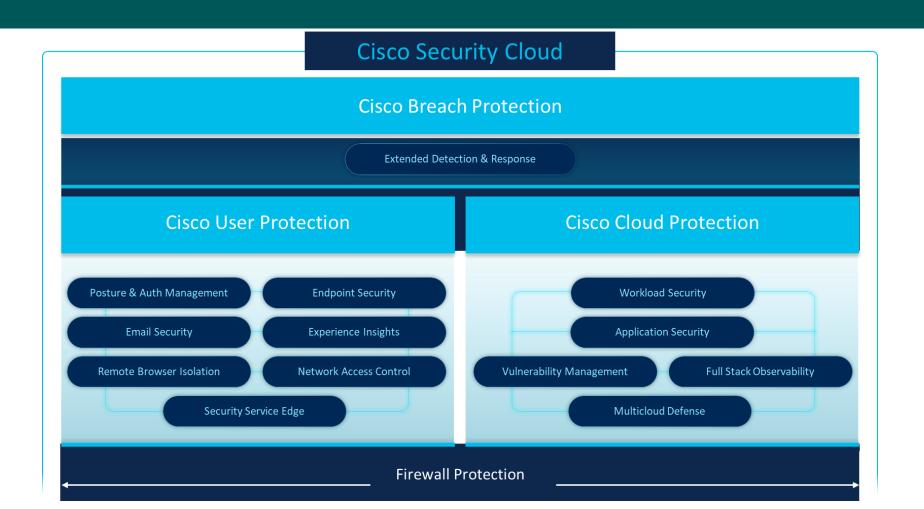






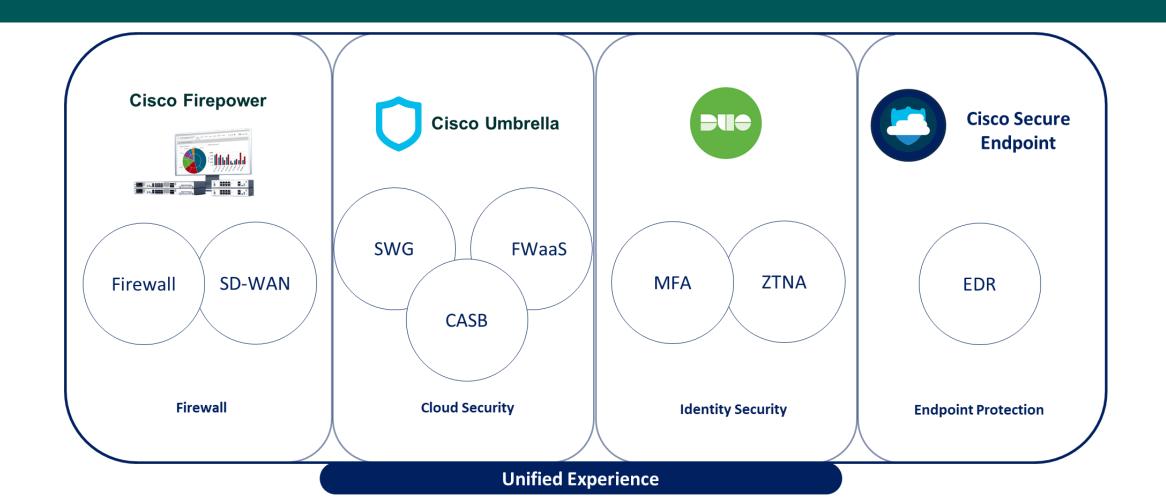








## **Cisco Security for SMB**





### Industry Digitization Increases the Threat Landscape



- More connected automation devices
- IoT devices accessing the cloud
- Shadow IT in industrial networks
- Remote access from third parties
- Malware intrusions
- New regulatory requirements

The role of IT is expanding to help secure industrial operations



## **Cisco Cyber Vision**

### Visibility & Security Platform for the Industrial IoT



Visibility

OT asset inventory Communication patterns



**Security Posture** 

Device vulnerabilities Risk scoring



**Operational Insights** 

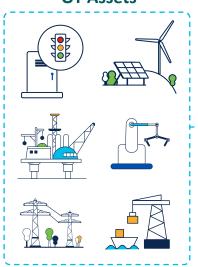
Track process/device modifications Record control system events



# **Unique 2-Tier Architecture**

### OT visibility that can be deployed at scale

### **OT Assets**



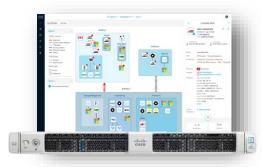
Cisco industrial switches or routers



Lightweight Metadata

### **Cyber Vision Sensor**

- ✓ Software embedded into network equipment
- ✓ Passive discovery via DPI
- ✓ Safe active queries of assets
- ✓ Decodes application flows



### **Cyber Vision Center**

- ✓ Centralize analytics and data storage
- ✓ Detailed OT asset inventory and communications maps
- ✓ Security posture and detection
- ✓ Reporting



### Integrations

SIEM, XDR, NAC, Firewall, CMDB, etc.

- ✓ OT asset profiles in IT security tools
- ✓ OT context and events in SOC
- ✓ Native integrations and specific apps
- ✓ Comprehensive APIs for custom integrations



## Cisco Cyber Vision Portfolio

Cyber Vision
Center

### **Hardware Appliance**

UCS based servers with Hardware RAID



#### CV-CNTR-M6N

- · 24 core CPU
- 128 GB RAM
- 3.2TB drives

### **Software Appliance**

Virtual Machines







Services



#### Minimum requirements

Intel Xeon, 10 cores 32GB RAM and 1TB SSD 1 or 2 network interfaces

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**Cyber Vision** 

Sensors



Catalyst IE3300 and IE3400 Switches



Catalyst IE3400HD IP67 Switch



Catalyst IR1101 LTE/5G Gateway



Catalyst IR8300 Multiservice Router



Catalyst IE9300 Rugged Cata Aggregation Switches



Catalyst 9300/9400

### Hardware-Sensor

DPI via SPAN to support brownfield

IC3000 Industrial Compute



Deep Packet Inspection built into network-elements eliminating the need for SPAN



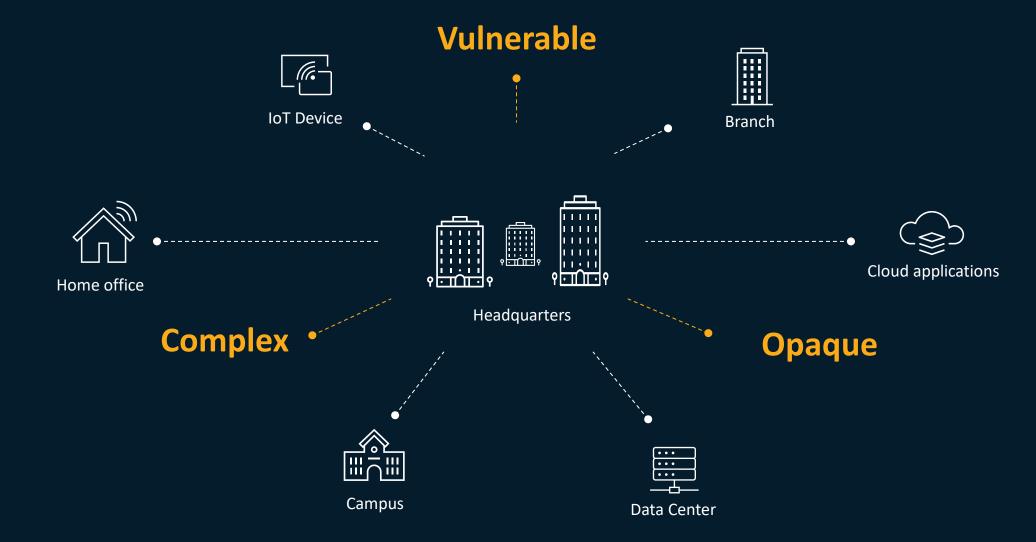
# Cisco Secure Firewall: Doubling Down on SD-WAN and Al

The highest performing, AI-powered, SD-WAN firewall on the market

1200 Series and FTD 7.6 What's New

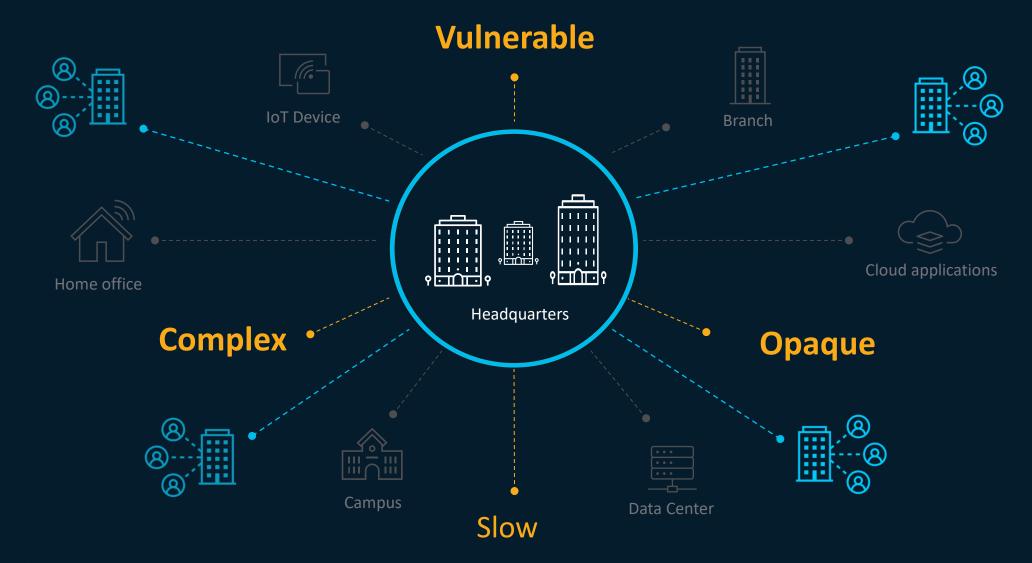
cisco live!

# Your network is expanding and becoming...





# Your network is expanding and becoming...





## Challenges of distributed branch offices





### Introducing the new Secure Firewall 1200 Series

The highest performing, compact firewall for distributed enterprise branches.

3x
performance over rivals

> 2x

Price/Performance over rivals



Superior performance in a compact footprint

Deployment efficiency, eliminate additional HW

AI/ML-based detection and management



### Introducing the new Secure Firewall 1200 Series

The highest performing, SD-WAN enabled compact firewall for distributed enterprise branches.

# Superior performance in a compact footprint

- Boost employee productivity with up to 3x faster speed when connecting to
- Power up IoT devices directly with UPoE+, or increase performance of desktop firewall with SFP+ ports.

headquarters or cloud apps.

# Deployment efficiency, eliminate additional HW

- Deploy SD-WAN at multiple branch locations faster with built-in onboarding templates and zero-touch provisioning.
- Eliminate the need to purchase, deploy, and manage multiple networking devices at branch.

# AI/ML-based detection and management

- AI/ML- driven detection of encrypted malware, common threats, and 0-day vulnerabilities.
- Al Assistant for streamlined firewall operations and policy lifecycle management for on-prem or cloud.



# Secure Firewall 1200 Series family

1220 CX 2x1G or10G SFP+ 6 Gbps

**1210 CP**4x UPoE+
3 Gbps

**1210 CE** 3 Gbps





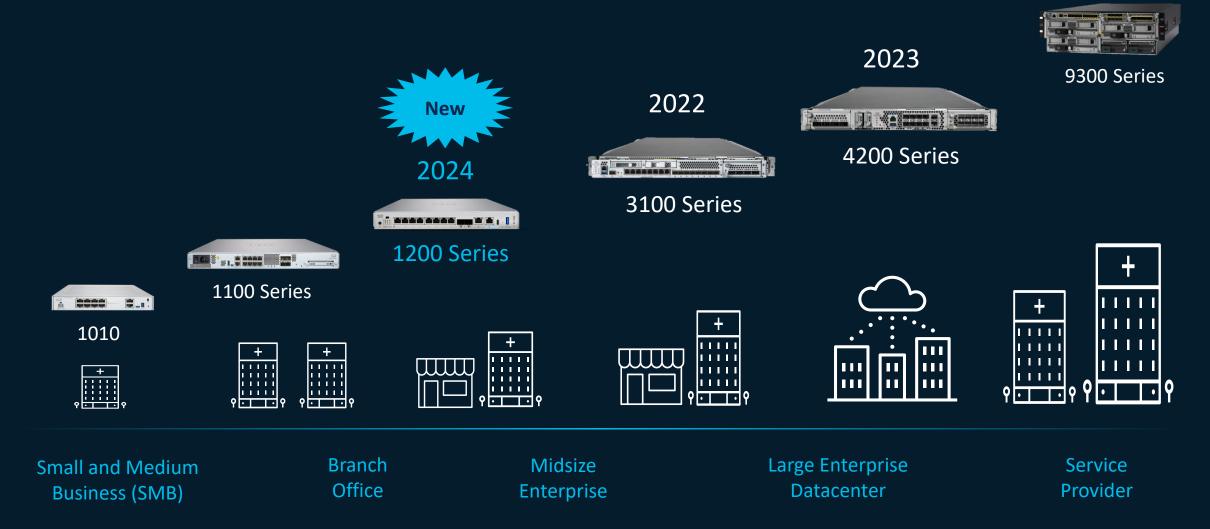
# Cisco's compact firewalls

Comparison of performance

	1010	1010E
Firewall	0.9 Gbps	0.9 Gbps
IPSec	0.4 Gbps	0.4 Gbps
Ethernet	8 x 1000BASE-T	8 x 1000BASE-T
РоЕ		2 x PoE+



## Cisco Secure Firewall hardware portfolio

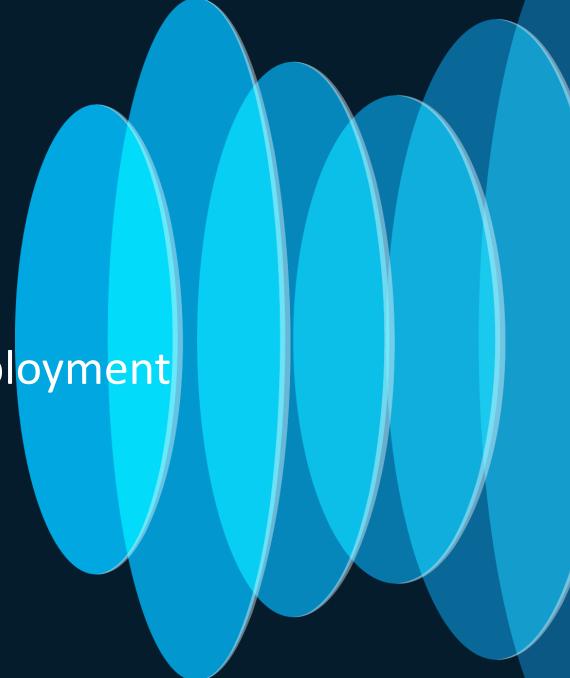




New in FTD 7.6

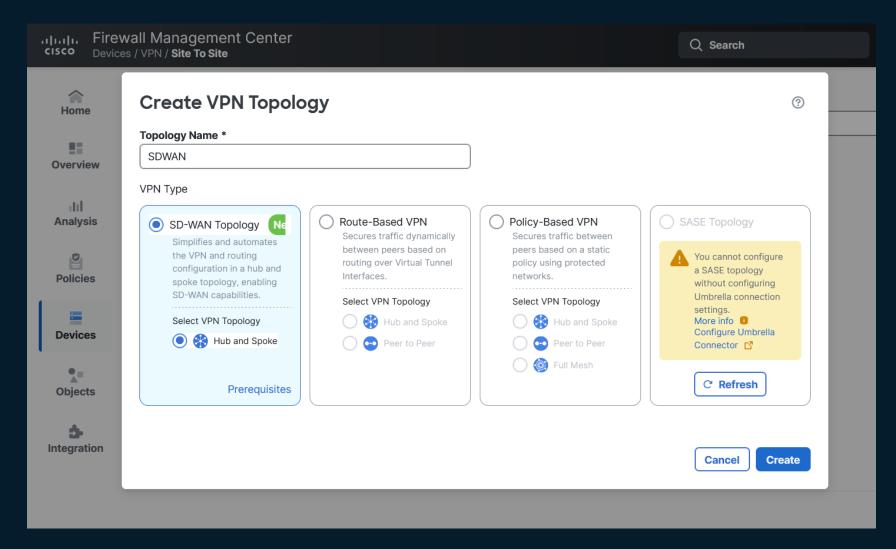
SD-WAN Templates for Deployment

Simplicity



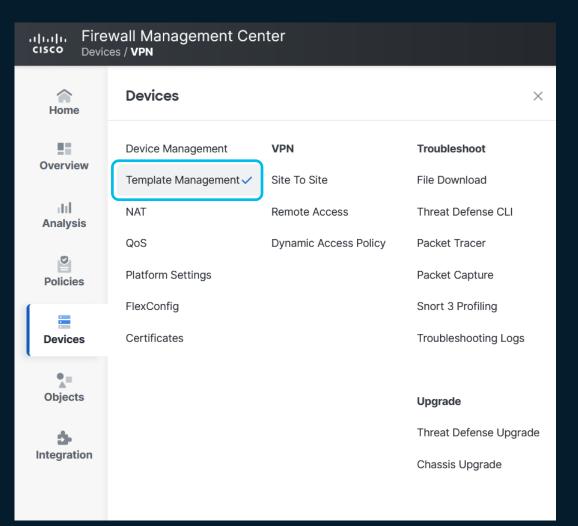
### SD-WAN template creation

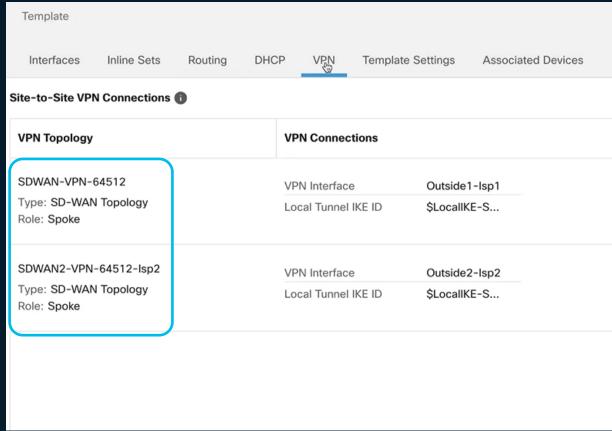
Easily enable SD-WAN on existing all Cisco firewalls zero-touch provisioning.



### SD-WAN template management

Easily enable SD-WAN on all existing Cisco firewalls with zero-touch provisioning.





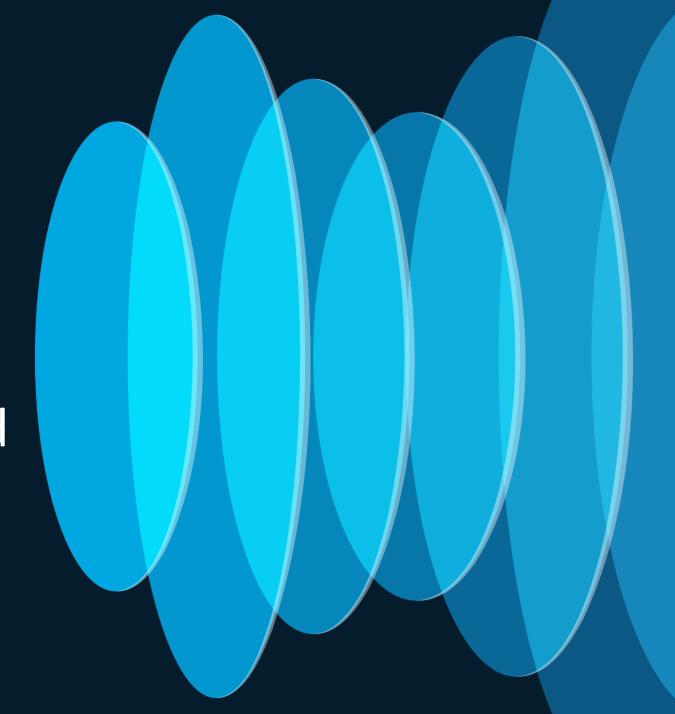


New in FTD 7.6

AI/ML-Enhanced

Detection for 0-day and

**Encrypted Threats** 



cisco Live!

# Cisco Talos empowers firewalls with AI/ML intelligence



~800B security events/day



~9M emails blocked/hour



~2,000 new samples/minute



~2,000 domains blocked/second



Cisco AI for Security is trained on one of the largest security data sets in the world

60+

Government and law enforcement partnerships

200+

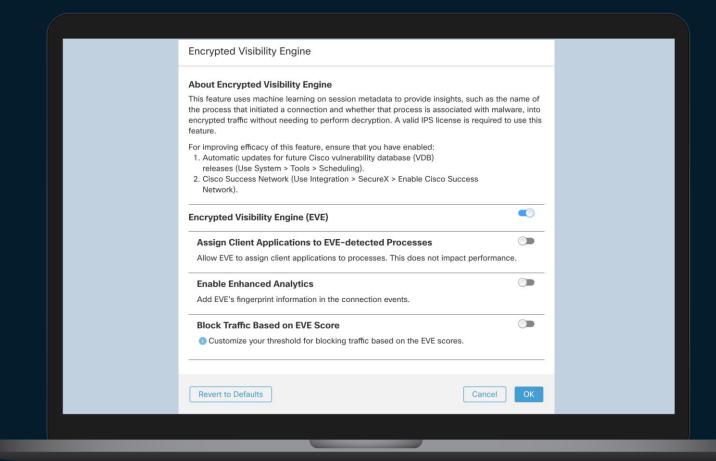
Vulnerabilities discovered per year



### Gain control over encrypted threats

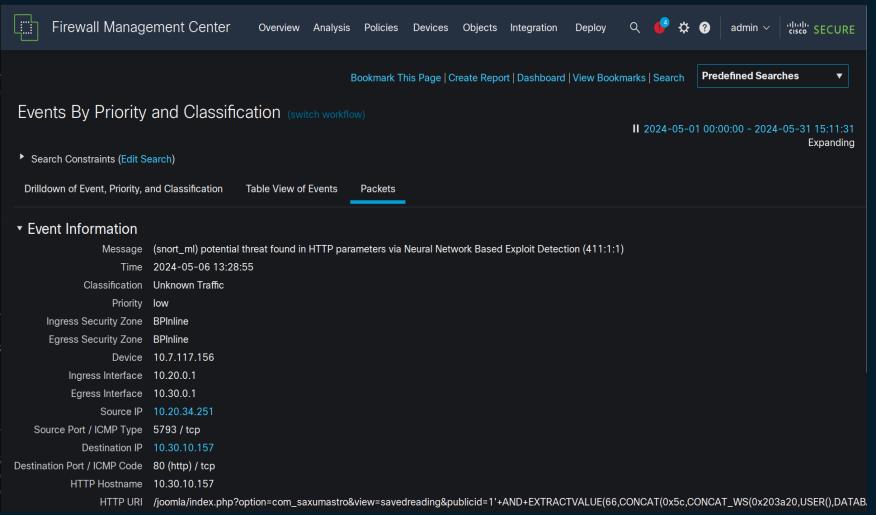
Without decryption, encrypted visibility engine 2.0 uses AI/ML to block encrypted threats for thorough security, simplicity, privacy and performance

- Simplify encrypted traffic inspection
- Preserved privacy and compliance
- Accelerate firewall performance
- Application visibility and control in encrypted streams
- TLS 1.3 and QUIC protocol support





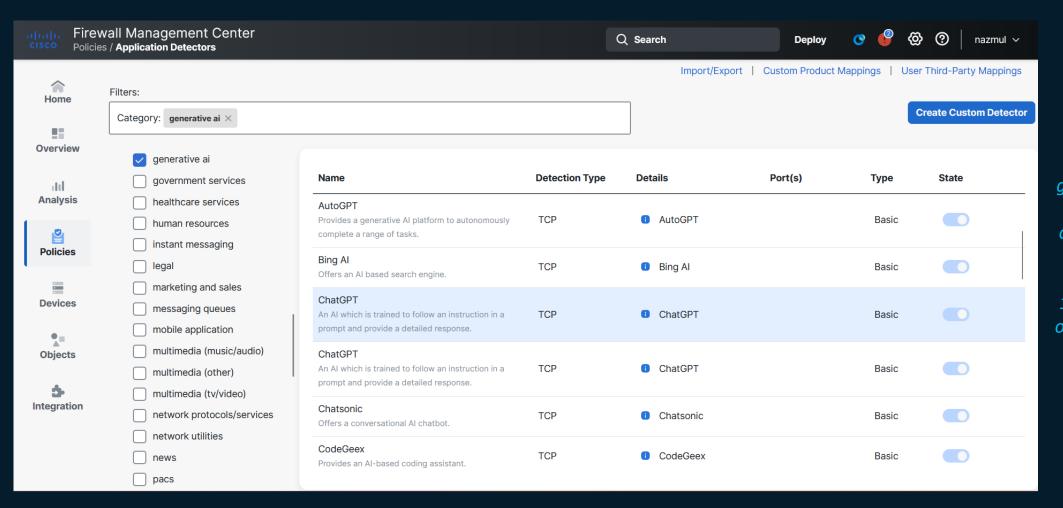
# SnortML: Zero-day protection



- A machine learning detection engine detecting known vulnerability types
- Proactive blocking of 0—day exploits
- Identifies variations of attacks

### Generative Al application detector

Eliminate risks of exposing sensitive information into GenAI platforms.



"Through 2025, generative AI will cause a spike in the cybersecurity resources required to secure it, causing more than a 15% incremental spend on application and data security."

-Gartner

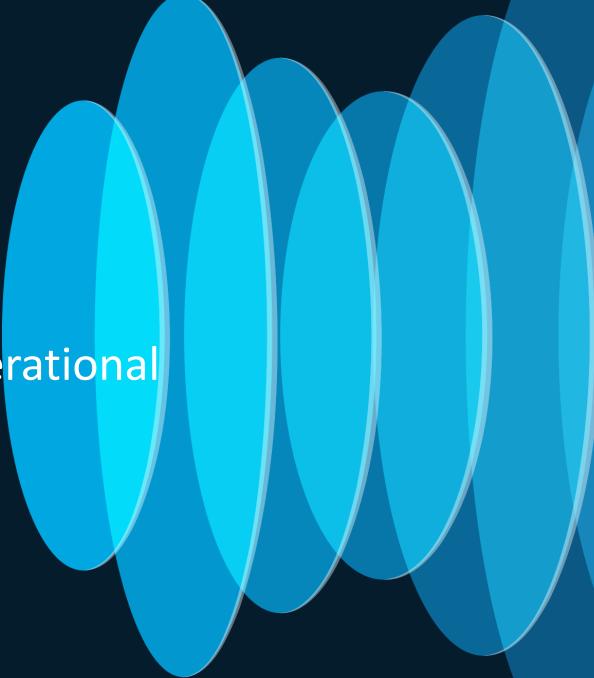
Supports detection and control of 70+ GenAl applications.



## New in FTD 7.6

Al Assistant on FMC for Operational

Simplicity



## Firewall management is a nightmare!



Training and skill development Resource constraints



### Cisco Al Assistant for Security now on FMC

**Assist** 

### Policy and reporting

Find and report information on policies for faster queries, auditing, and reporting

Augment

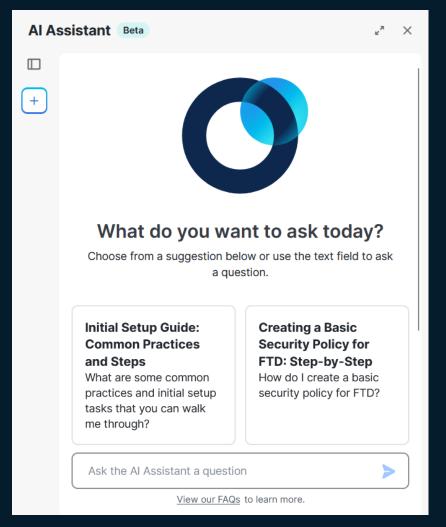
### Troubleshooting and detection

Amalgamate all user guides for expedited resolution

Automate

### Policy lifecycle management

Find and fix firewall rule misconfigurations for improved security and performance



Available on all FMC solutions from FTD software version 7.6

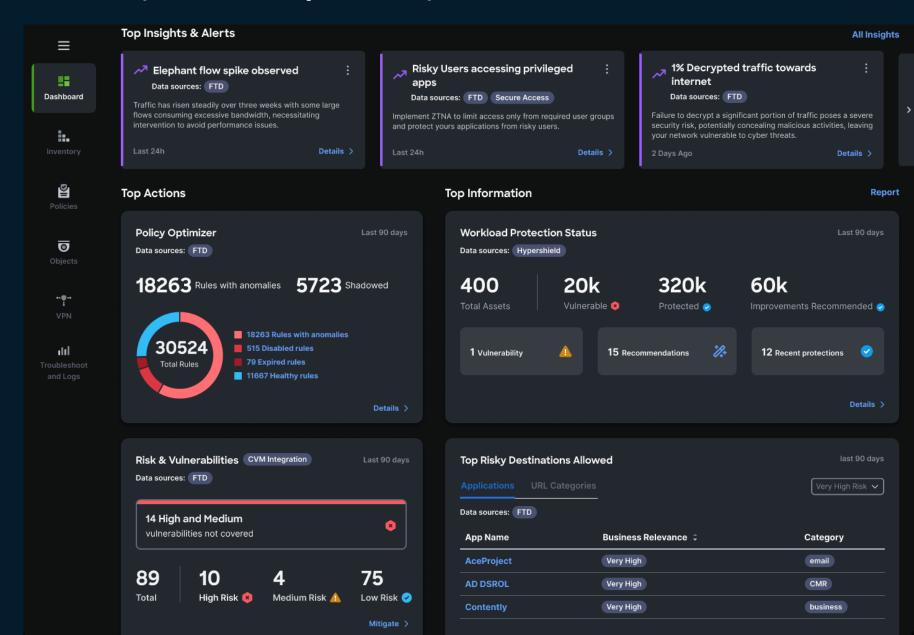
# Security Cloud Control (formerly CDO)

Al-Native architecture for:

Simplified operations

**Enhanced security** 

Improved clarity



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### **Cisco Secure Zero Trust**

A comprehensive approach to securing all access across your people, applications, and environments.



### Workforce

Ensure only the right users and secure devices can access applications.



### Workplace

Secure all user and device connections across your network, including IoT.



Secure all connections within your apps, across multi-cloud.

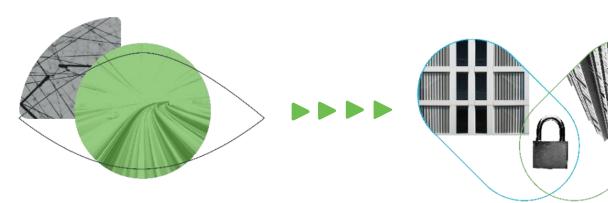


### The Foundations of Zero Trust in Your Workplace

### **Visibility**

### Segmentation

### **Containment**



Grant the right level of network access to users across domains

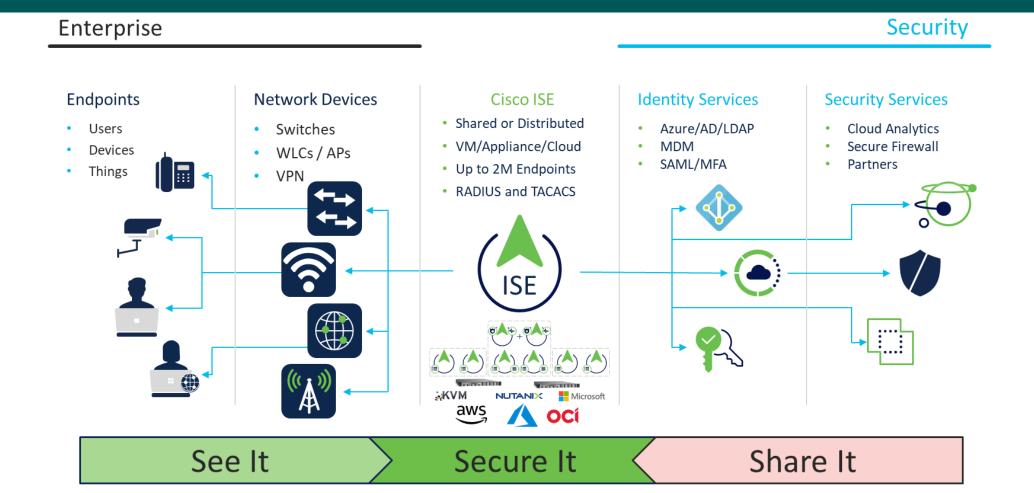
Shrink zones of trust and grant access based on least privilege



Automate containment of infected endpoints and revoke network access



### ISE Provides Zero Trust for the Workplace





# ISE Capabilities for Zero Trust from Workplace



### Establish Trust

- User/Device Authentication
- MFA thru Integrations
- Profiling
- Posture + Context
- Guest
- BYOD Onboarding



# **Enforce Trust- Based Access**

- Network based
  Authorization Policies
- Micro-segmentation
- Compliance-based CoA
- Device Administration with TACACS+



# **Continuously Verify Trust**

### Integrations:

- Threat Detection
- Behavior Analysis
- Vulnerability Assessment



# Respond to Change in Trust

- RADIUS Change of Authorization (CoA)
- Adaptive Network Control (ANC)

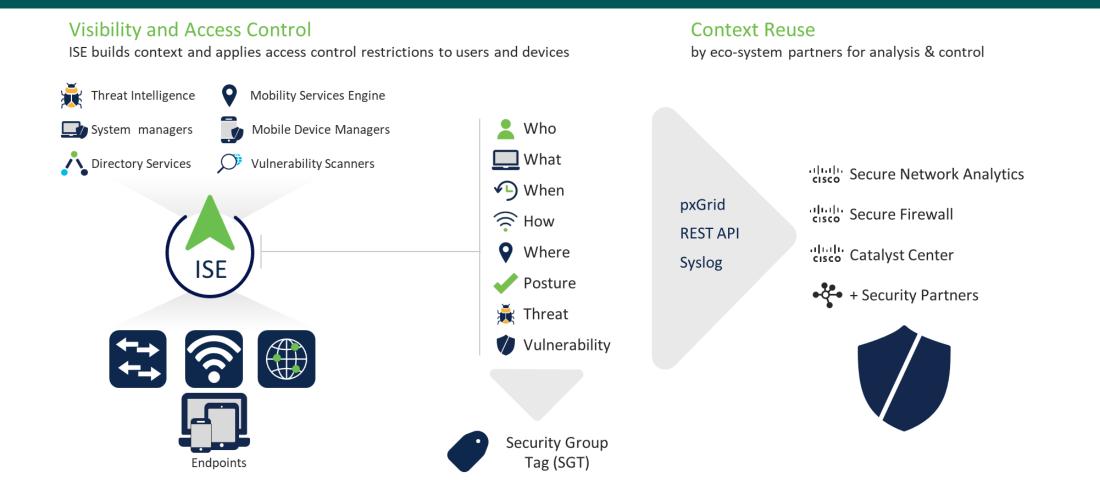


# Why Customers Buy ISE

ISI		>#	Device Administration	TACACS+ Allows for secure, identity-based access to the network devices	https://cs.co/ise-tacacs
	-		Secure Access	Secure wired, wireless, or VPN access using industry standard protocols RADIUS and 802.1X	https://cs.co/ise-wired
		GUEST	Guest Access	Choose from Hotspot, Self-Registered Guest, and Sponsored Guest access options	https://cs.co/ise-guest
		<u>-1</u>	Asset Visibility	Use the probes in ISE and Cisco devices to classify endpoints and authorize them	https://cs.co/ise-profiling
	E -	•	Compliance & Posture	Use agentless posture, Cisco Secure Client, MDM, or EMM to check endpoints' posture	https://cs.co/ise-posture
		#	Context Exchange	Integrate applications and vendors with ISE for endpoint identity, context, and automated Enforcement	https://cs.co/ise-pxgrid
			Segmentation	Group-based Policy with Security Group Tags (SGT) and Security Group ACLs (SGACL) instead of VLAN/ACLs	https://cs.co/segmentation-resources
			Cisco Catalyst Center	ISE integrates with Catalyst Center to automate the network fabric and policies using SDA	https://cs.co/ise-ccc
			EMM/MDM	Endpoint Management is required for provisioning endpoints with certificates and controls for secure network access	https://cs.co/ise-mdm
		×	Threat Containment	Use Threat Analysis tools to grade an endpoint's threat score and automatically quarantine it	https://cs.co/ise-tcnac



### Context Build, Summarize, Exchange with pxGrid





# ISE Cisco Security Technical Alliance (CSTA) Partners







Learn more about Absolute



Claco Secure and Clarot



Learn more about Cisco Secure and





Maa5360



Learn more about Cisco and IBN









Cisco Secure and Nozomi Learn more about Claco and Sophos

SOTI

Cisco Secure and Splunk Learn more about Cisco and Splunk

splunk>





Cisco Secure and ArcSight Learn more about Claco and



Learn more about Cisco Secure and







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Learn more about Class are



Infoblox 💸



Live Action









SOPHOS

sumo logic

Cisco Secure and Swimlane Swimlane is the leader in cloud-

SWIMLANE

Cisco Secure and Symanteo Learn more about Clisco and

Symantec.

Cisco Secure and Asimily



Cisco Secure and Attivo Learn more about the Attivo Networks



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Cisco Secure and Elastic Cisco Secure and Elastica Bastic Security unifies SIEM.



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Cisco Secure and Exabeam Clana Secure and ExtraHon automation to solve threat detection, investigation, and



Cisco Secure and analytics technologies that grobe to repidly detect, respond to **SMEDIGATE** 

Cisco Secure and Medigate



Cisco Secure and Micro Focus ArcSight Learn more about Obsoo and Micro Focus ArcSight



Cisco Secure and Radiflow Learn more about Clace ISE and

**RAPID** 

Cisco Secure and Rapid? InsightConnect

**RAPID** 

InsightVM

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Trellix Cisco Secure and Trellix

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Trellix Cisco Secure and Trellix Learn more about Cisco and Trellix Skittligh

certego

Cisco Secure and Certego Cisco Secure and Check Certago provides comprehensiva



citrix Cisco Secure and Citrix Learn more about Claco Secure and

BluS apphire



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F#RTINET.

Cisco Secure and Fortinet to cybersecurity incidents with he incident Response, Vulnerability Threat Management, and Threat Intelligence platforms



Learn more about Cisco Secure and Globo



Cisco Secure and Microsoft



Cisco Secure and MobiConnect Learn more about Cisco and MobiConnect



Cisco Secure and SA Learn more about Cisco Secure and Learn more about Claco and SAF

SAP

securonix

Cisco Secure and Securonix Learn more about Cisco and

UNCOMMONX SMOKESCREEN

> Cisco Secure and UncommonX simplifying the infinitely sprawling world of disparate cyber tools a overly complicated systems.

**TRAPX** 

**vm**ware

Cisco Secure and VMware

Workspace One

VMware Workspace One

Cisco Secure and VU Learn more about Cinco Secure and



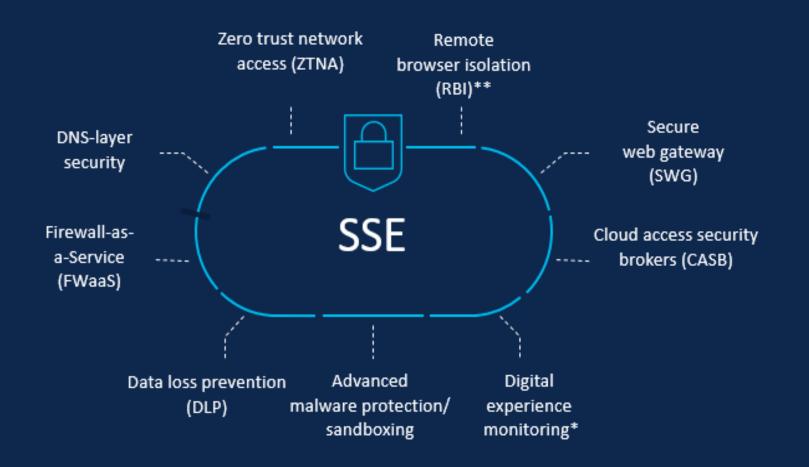
& cisco.com/go/csta

pxGrid | pxGrid Cloud | pxGrid Direct





### Cisco Secure Access



### Seamless access

Frictionless user experience to all apps

Unified client intelligently directs ZTNA and VPNaaS traffic

Access to any app over any port or protocol from anywhere

### Simple operations

Resilient cloud native architecture
Single SSE dashboard and single client
Integrates with SD-WAN



# SASE Integration

### SASE Deployments Auto Tunnel and Common DNS Security Policy

- Common Security Policies for all branches
- Multi-layered DNS Security
- Faster Protection
- Improved Internet Performance
- Uniform Security policy for Hybrid workers
  - Umbrella API Integration

    Umbrella Redirection Configuration

    DNS request forwarded

    DNS response From Umbrella

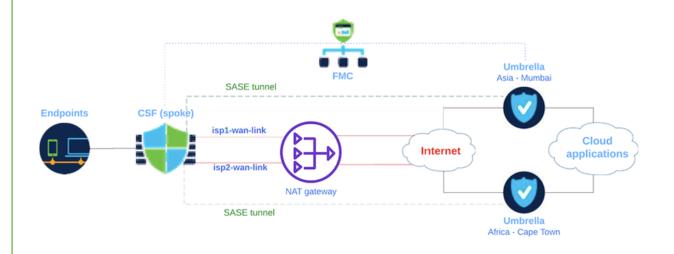
    Cisco Umbrella

    DNS response from Umbrella

    Cisco Secure Firewall

- SASE use case
- Secure Access

   Cloud-delivered Firewall
- Auto-generation and deployment of configuration on Firewall and SSE





"Platforms are the new business model for the digital age, and they are disrupting traditional industries across the globe."



https://www.cisco.com/

https://cs.co/ise-tacacs

https://cs.co/ise-wired

https://cs.co/ise-guest

https://cs.co/ise-profiling

https://cs.co/ise-posture

https://cs.co/ise-pxgrid

https://cs.co/segmentation-resources

https://cs.co/ise-ccc

https://cs.co/ise-mdm

https://cs.co/ise-tcnac

https://www.cisco.com/site/us/en/products/security/firewalls/index.html





### PROSSIMI APPUNTAMENTI

7 FEBBRAIO: L'evoluzione delle reti distribuite

14 FEBBRAIO: SonicWall CSE

**21 FEBBRAIO:** Acronis Awareness e NIS2

https://events.tdsynnex.it/cyber-unit-missione-protezione/

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