

#### Spotit, Cisco and the Shield Framework: what's in it for you?

Bruno Mekeirele – Gert Tilburgs



\*\* The right technology matters \*\*





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🛛 🖵 Voeg toe aan winkelwagen

Q

Vragen? Stel ze gerust! 🗲

### **FALLING IN LOVE** DOGMA F STARRY RED

JOGMA

10

OWNER

## Ook AG2R-renners waren eerst bezorgd over Decathlon-fiets: "Maar ik ben weggeblazen", zegt Oliver Naesen



🗎 di 28 november 2023 | © 09:06



Van Dunel, het regefieteenmerk van Degethlen, is de nieuwe fiete van de ACOD rennere.

## \*\* Beyond Technology: The Right Strategy\*\*\*





#### Frame Agreement for Network/NextGen Firewalls



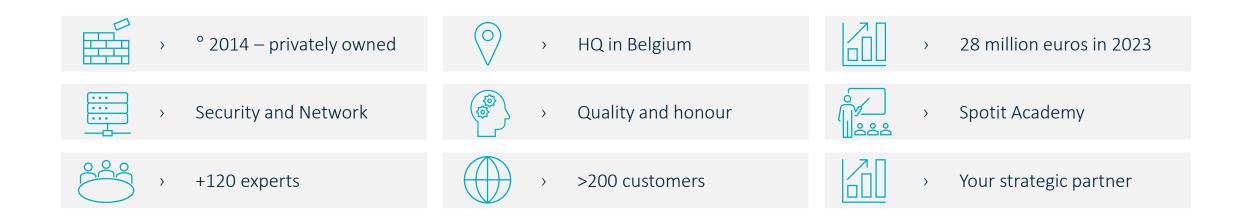


Who is spotit?



#### Who is spotit? SECURITY & NETWORKING IS A COMPANY VISION!

SPOTIT





SPOTIT

# NPS INVESTIGATION 51 NPS SCORE SPOTIT 2024



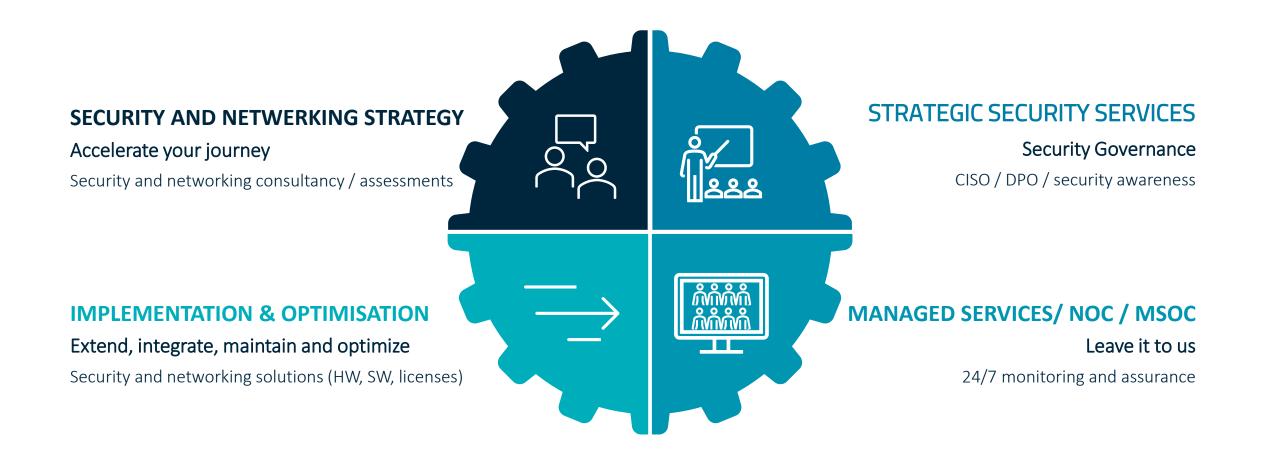
## Big enough to deliver, small enough to care.







#### OUR PORTFOLIO

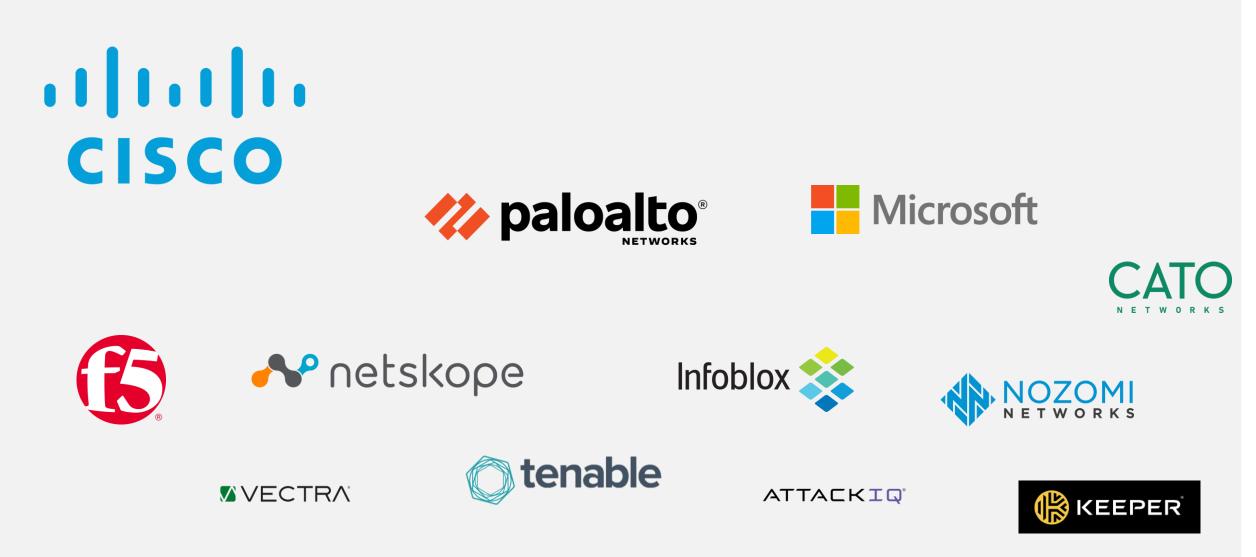


SPOTIT



SPOTIT

#### OUR PARTNERS





#### CISCO CAPABILITIES



## **31** certified individuals

- > CCIE Enterprise Infrastructure
  - CCIE Routing and Switching Written Exam 400-101
- > CCNA

>

>

- > CCNA Cyber Ops
- > CCNP Security Specialized
- > CCNP DataCenter
- > CCNP Enterprise
- > CCS Data Center Core
- > CCS Data Center Operations
- CCS Enterprise Advanced Infrastructure Implementation
- > CCS Enterprise Core
- > CCS Enterprise Design
- > Implementing-Operating Cisco EN Core Tech 350-401 v1
- > And many more



## Shield offering



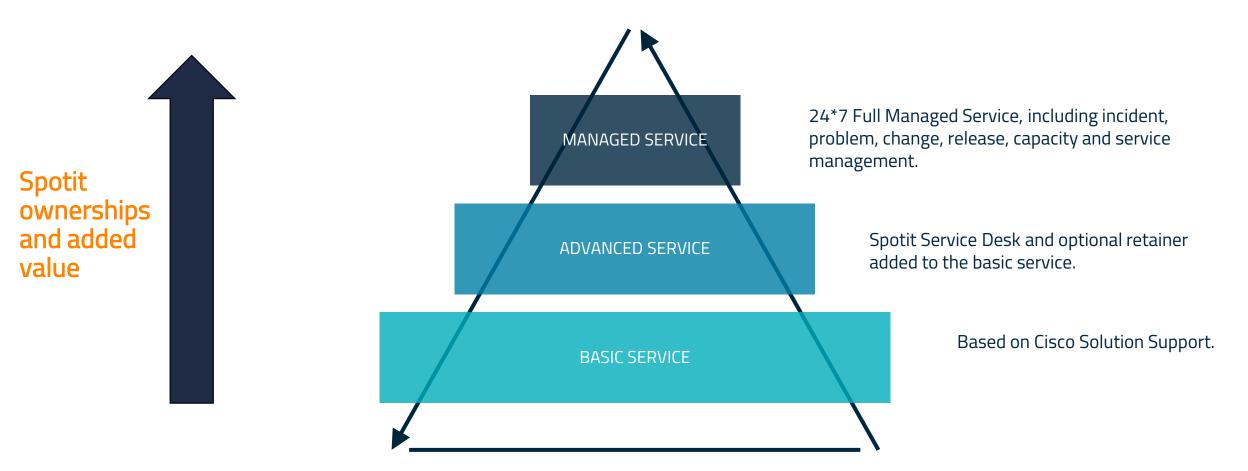
#### SPOTIT OFFERING FOR SHIELD MEMBERS



#### **Operational Services**



#### Flexible Service Model

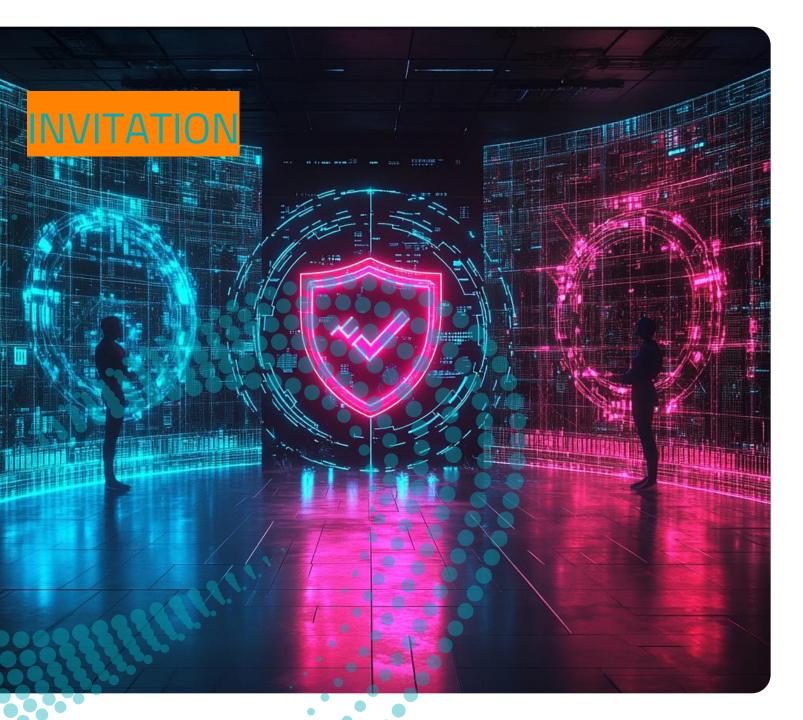


Spotit offer for Shield



#### Why would you go for this offer?

- Strong Cisco portfolio tailored to the healthcare & education market
- Spotit expertise & innovation combined with a flexible service offering
- Aggressive discounts
- Highest quality services
- Human-to-human approach
- Local service delivery
- Big enough to deliver, small enough to care
- Strong partnership Cisco spotit



Cybersecurity Seminar 2025: Trends, Insights and Expert Perspectives

- 20-03-2025
- Communicatieloft Gent
- Be present to learn more
  - about the 2025 threat landscape
  - and how to defend your business
- For IT decision makers where cybersecurity is a focus or priority

#### • Visit spotit website

→ Cybersecurity Seminar | Spotit

## Together we can.





## LET'S CONNECT

#### **CONTACT INFORMATION**



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info@spotit.be

+32 (0)9 394 44 41

#### **SOCIAL MEDIA**



linkedin.com/company/spotit



#### LOCATIONS

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#### **Cisco Security for Healthcare** Zero Trust & Resiliency

Gert Tilburgs – Systems Engineer Security @ Cisco

## Zero Trust

Never assume trust

Always verify

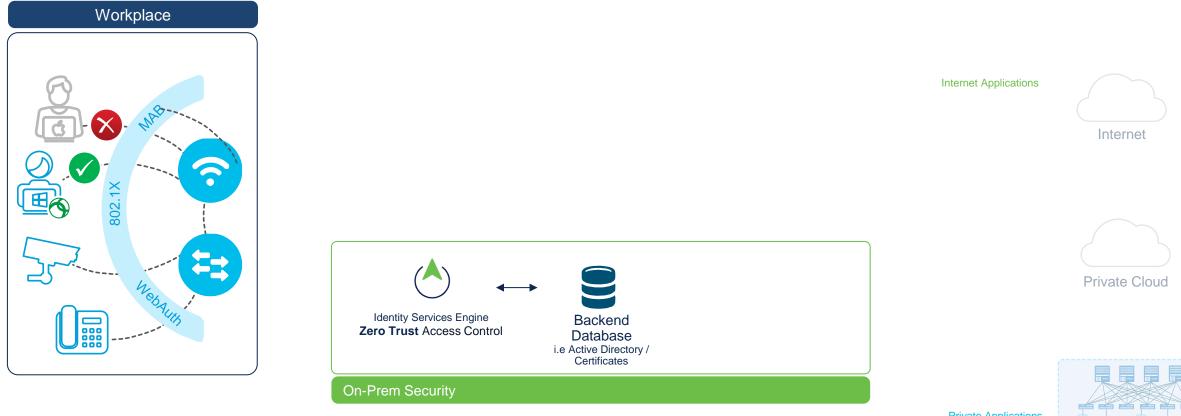
## Resiliency

Healthcare resilience is the ability to adapt before, during, or after disruptions to ensure continuous patient care — no matter the circumstances

Enforce least privilege

## Campus: Establishing Trust

Limiting the network to authorized devices & users



**Private Applications** 



Datacenters

**Authentication** 802.1x & MAB Limiting the network to Trusted devices only.

**Identity Services Engine** Policy Server for Network Access Control

## Campus: Establishing Trust

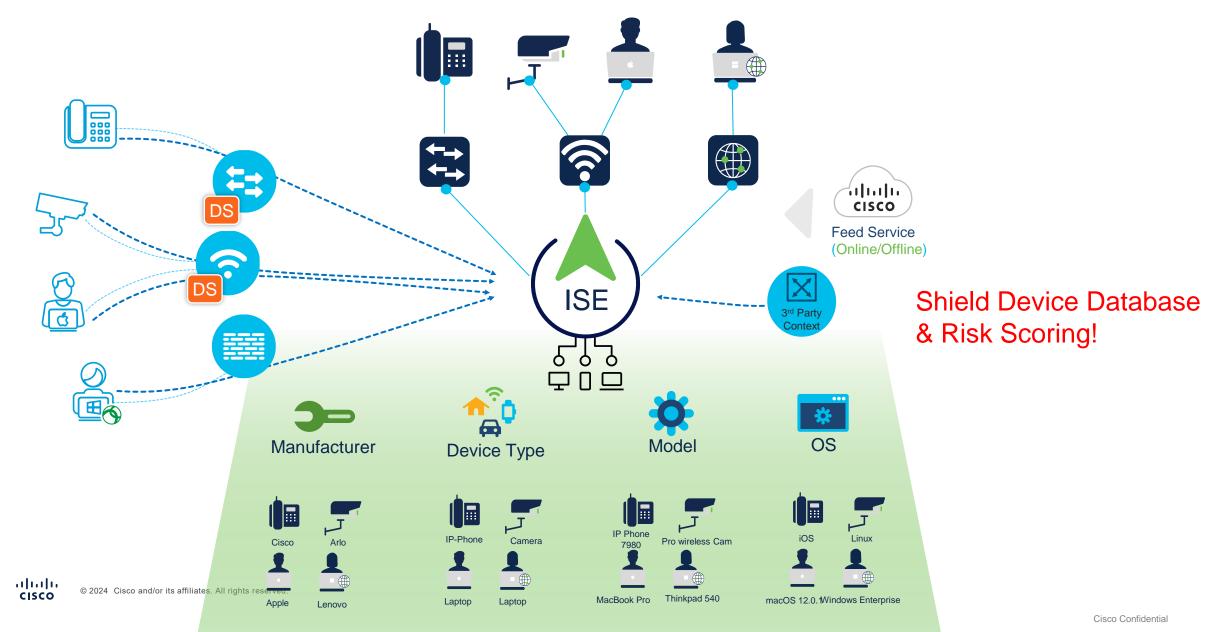
Limiting the network to authorized devices & users



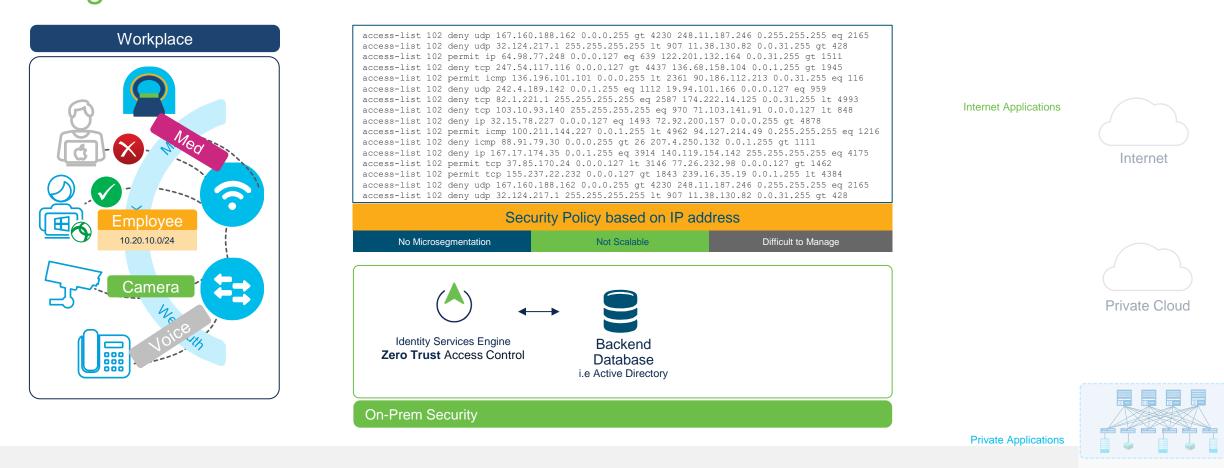
Datacenters

Identity Services Engine Policy Server for Network Access Control Authentication 802.1x & MAB Limiting the network to Trusted devices only.

### **Multi-Factor Classification on ISE**



#### Campus: Establishing Trust Segmentation on the Network

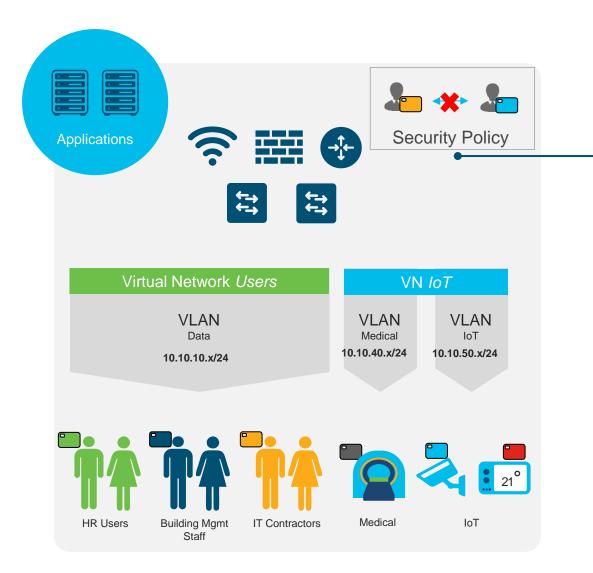


#### Identity Services Engine Policy Server for Network Access Control

Authentication 802.1x & MAB Limiting the network to Trusted devices only.

Datacenters

#### Micro-segmentation using Scalable Group



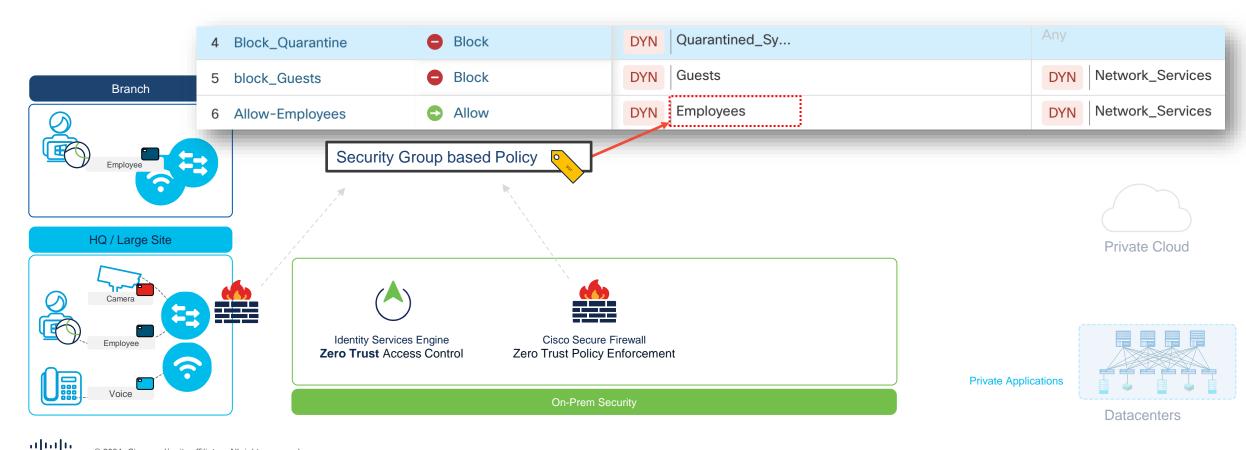
Group-Based Access Control V IP Based Access Control V Application V Traffic Copy V Virtu								
Policies (12091) * Enter full screen								
√ Filter D	eploy	Edit Policy	/					
Permit Der	y =	Policy Status	Guests 📕 Custom					Set to Default Po
Destination	Auditors	Enabled Contract: Change Contract						
BYOD		Name		Desc	ription	Policies Referencing		
Contractors		Anti_Malware [ # Action	Application	Protocol	Source / Destination	8	Port	Logging
Corporate_Visitor		1 DENY	netbios-dgm	TCP/UDP	Destination		138	OFF
Developers		2 DENY	netbios-ssn	TCP/UDP	Destination		139	OFF
Development_S		3 DENY	netbios-ns	TCP/UDP	Destination		137	OFF
Doctors		4 DENY	teinet	TCP	Destination		23	OFF
Employees		5 DENY	ssh	TCP	Destination		22	OFF
		6 DENY	advanced	ICMP	Source Destination			OFF
Guests		7 DENY	http	TCP	Destination		80	OFF
IP_Phones		8 DENY	advanced	тср	Source Destination		80	OFF
NetSvcs		9 DENY	ftp	TCP	Destination		21,21000	OFF
Nurses								
PCI_Servers								
PCI_Servers Production_Serv								

#### Can you tell who is allowed to talk to who?

Security Policy based on IDENTITY

## Campus / Branch: Enforcing Trust Based Access

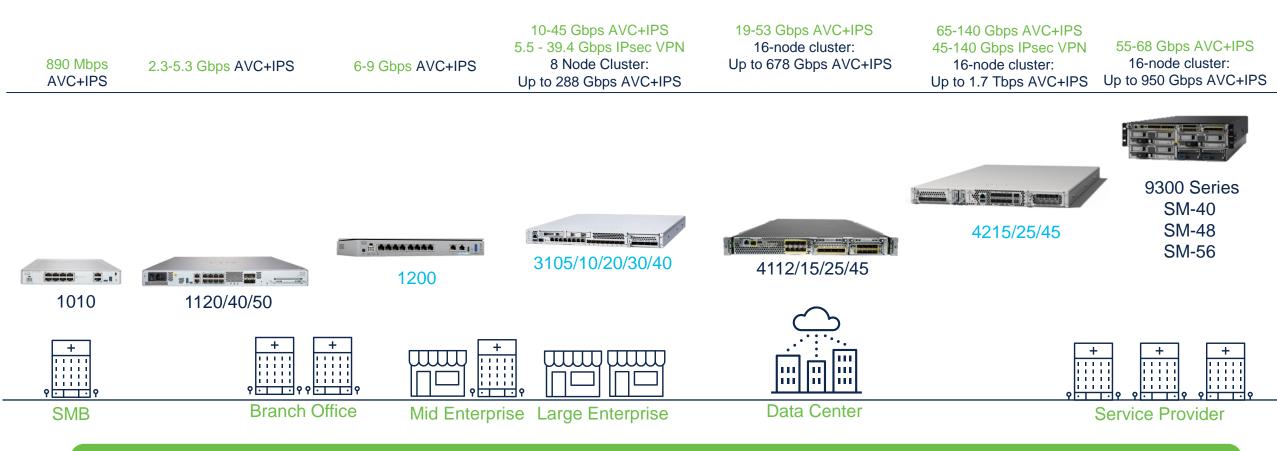
Define Who can do What on the Network



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Inline SGT propagation only supported on Cisco Secure Firewall

### Cisco Secure Firewall Hardware Portfolio



All appliances can run either ASA or FTD applications, FP9300 can run both on different SMs

## **Firewall Policy Optimizer**

Policy Analysis and Optimization

Anomalies found from the initial scan: Out of **1234** rules, there are **323** duplicate rules found. These include **153** fully shadowed rules and **170** fully redundant rules.

Fully Shadowed Rules (153)
 Fully Redundant Rules (170)
 View Details C<sup>\*</sup>
 We recommend you take one of the following actions on the duplicate rules:
 Disable all
 Delete all
 C<sup>\*</sup> Regenerate

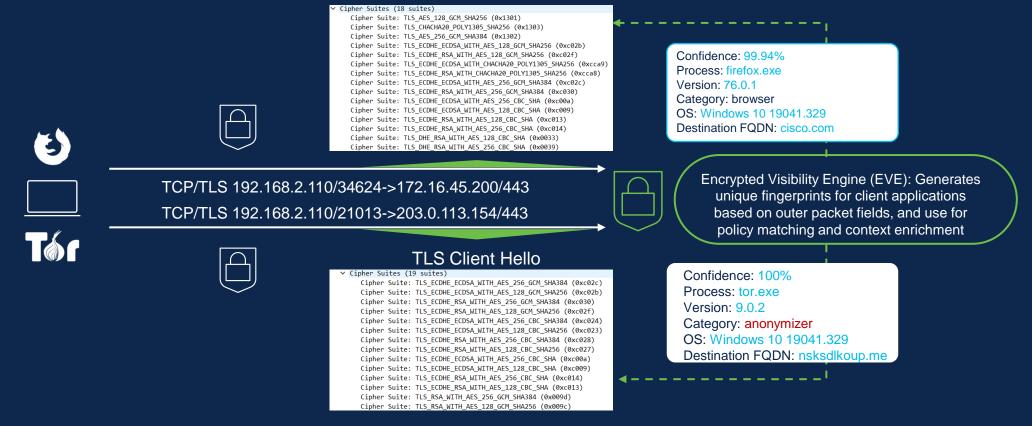
#### Secure IPS based on SNORT 3

Policies / Intrusion / dCloud Intrusion Policy	Head hur 1 Access Central Policy Ale Zare Trust Application Delian 1 Device	
se Balanced Security and Mode: Prevention	Policies / Intrusion / dCloud Intrusion Policy No Zero Trust Applie	cation Policy   1 Device
scription *DO NOT CHANGE*	Base       Balanced Security and         Policy:       Connectivity    Prevention	405 ■ Alert 51 ■ Block 1189
Base Policy $\rightarrow$ Group Overrides $\rightarrow$ Recomm	Description *DO NOT CHANGE*	
Summary @	Base Policy $\rightarrow$ Group Overrides $\rightarrow$ Recommendations $\rightarrow$ Rule Overrides       Summary	
Rule Distribution	<pre>Summary Effective Policy @</pre>	Back To Top
Alert 512	51 items View Groups View Rule Action VIE, SID, Reference Info, or Rule Message	
Block 11893 Disabled 37672	H     Presets: Alert (512)   Block (11,893)   Disabled (37,672)   Overridden (10,000)       All Rules     Advanced Filters	7,197)
	Rule Categories (9 groups)     GID:SID     Rule Details     Rule Action     Set By     Assigned	d Groups
Base Configuration	> 125:8 🖸 (ftp_server) FTP bounce 🛕 Alert 🗸 Rule Override Builtins	§
Base Policy: Balanced Security and Connectivity	> 125:2 🖸 (ftp_server) invalid FTP c 🔺 Alert 🗸 Rule Override Builtins	6 P
	> 125:1 🖬 (ftp_server) TELNET cmd Rule Action Rule Override Builtins	ē 🗭
Recommendations Usage: In Use	>       119:16 □ (http_inspect) chunk leng         ⊖       Block         ∧       Alert	B 🗭
Security Level	> 119:19  ☐ (http_inspect) HTTP head	B 🗭
Generated on 2022-10-03 10:56:03 UTC Rule State 6682 rules recommended for 2 networks	>       119:2 □ (http_inspect) URI contai         ♀ Drop         ⊖ Reject	B 🗭
ala ala	> 119:1 ☐ (http_inspect) URI has pe ⊘ Disable (Default) Rule Override Builtins	B 🗭
cisco SECURE © 2023 Cisco and/or its af	→ 119:6 🖾 (http_inspect) URI has tw 🛕 Alert 🗸 Rule Override Builtins	<b>a p</b>

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#### **Encrypted Visibility without Decryption**

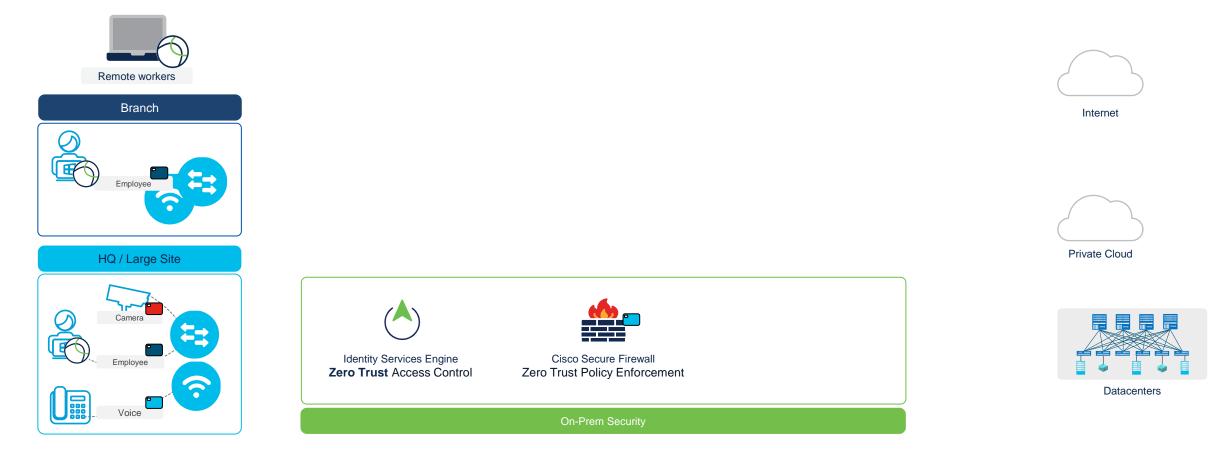
#### **TLS Client Hello**



	Views v Q IOC Triggered x X Select									X Refresh	
Showing all 2 events ( $\leq 2$ ) $\pm$											
ĺ	Time	Detection Type	Encrypted Visibility Process Confidence Score	Encrypted Visibility Process Name	Encrypted Visibility Threat Confidence	Encrypted Visibility Threat Confidence Score	IOC	Source Port / ICMP Type	Destination Port / ICMP Code	Web Application	
	> 2022-07-21 11:56:57	AppID	97%	_malware	Very High	97%	Triggered	49161 / tcp	443 (https) / to :		
	> 2022-07-21 11:29:51	AppID	97%	_malware	Very High	97%	Triggered	49161 / tcp	443 (https) / tcp		

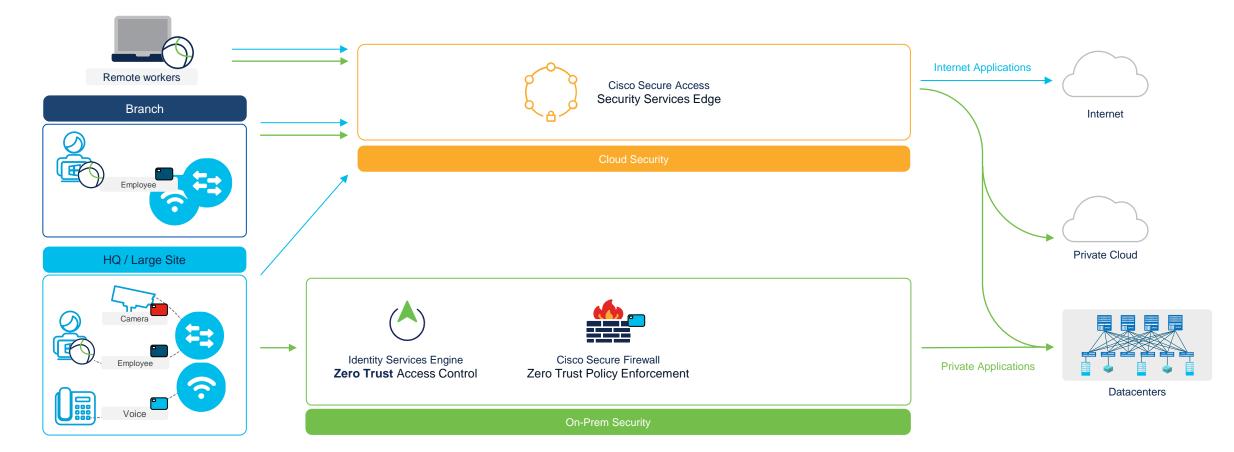
## Hybrid Work: Extending Trust based Enforcement

Unify policies for Secure Internet and Private Access



## Hybrid Work: Extending Trust based Enforcement

Unify policies for Secure Internet and Private Access

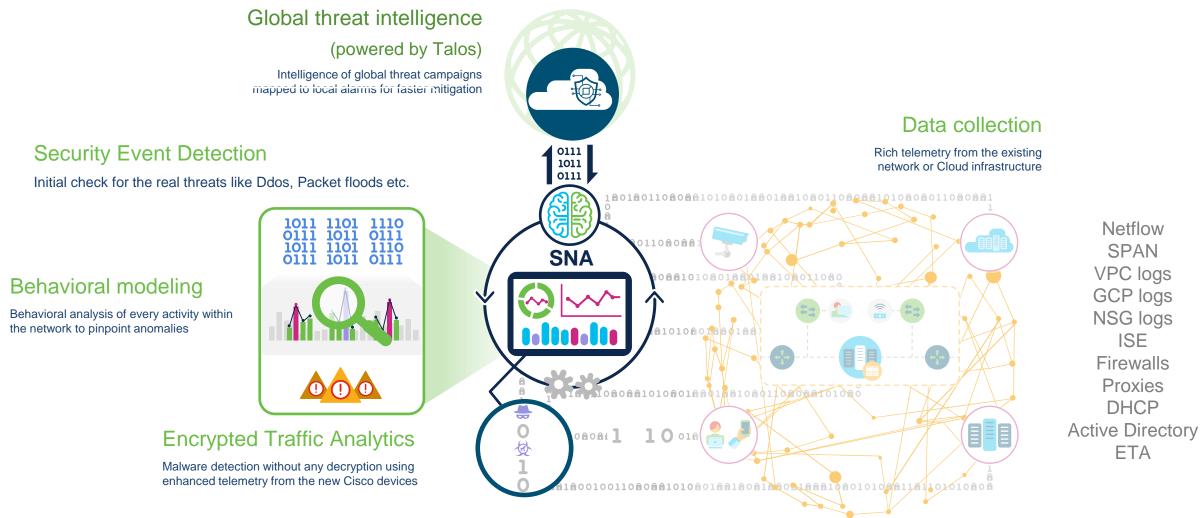


## Resiliency

Am I capable of detecting, reporting and recovering from a breach?

## NDR using Cisco Secure Network Analytics

#### Network Detection & Response



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## NDR using Secure Network Analytics

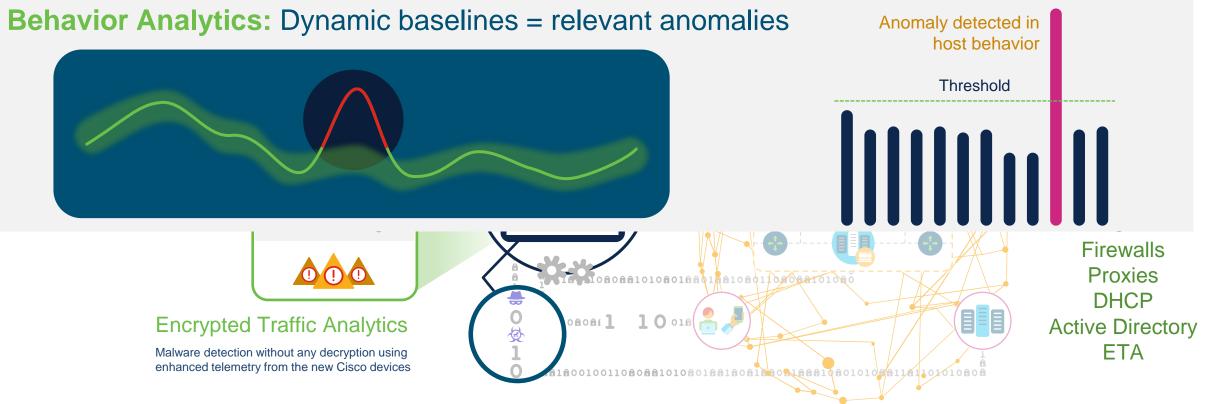
Network Detection & Response

Global threat intelligence

(powered by Talos)

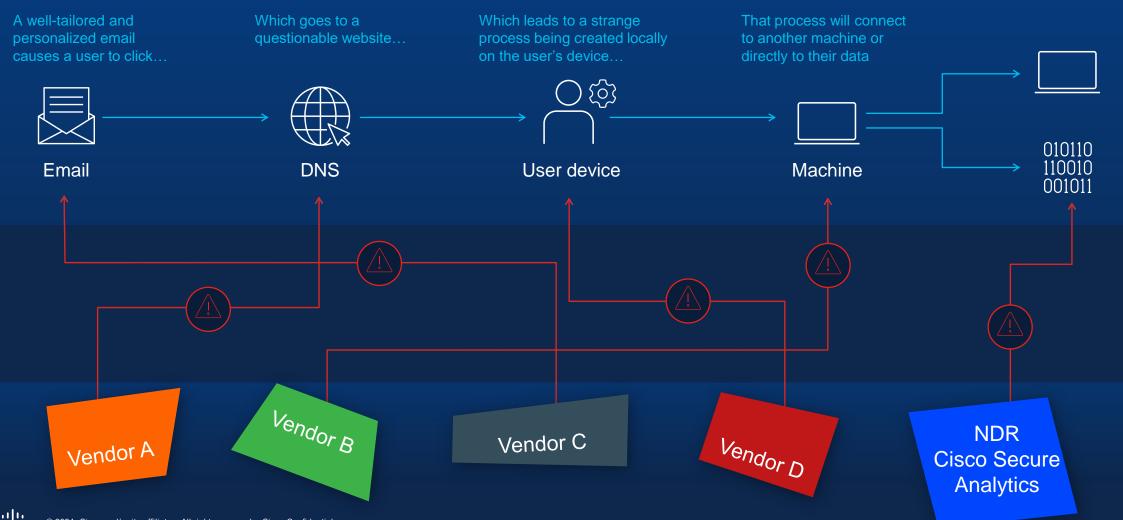
Intelligence of global threat campaigns mapped to local alarms for faster mitigation





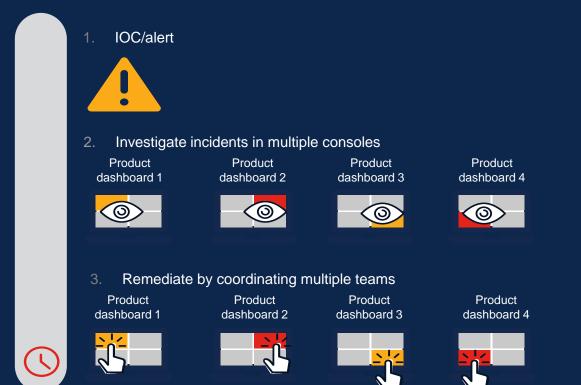
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#### Ransomware campaigns are *multi*-vector

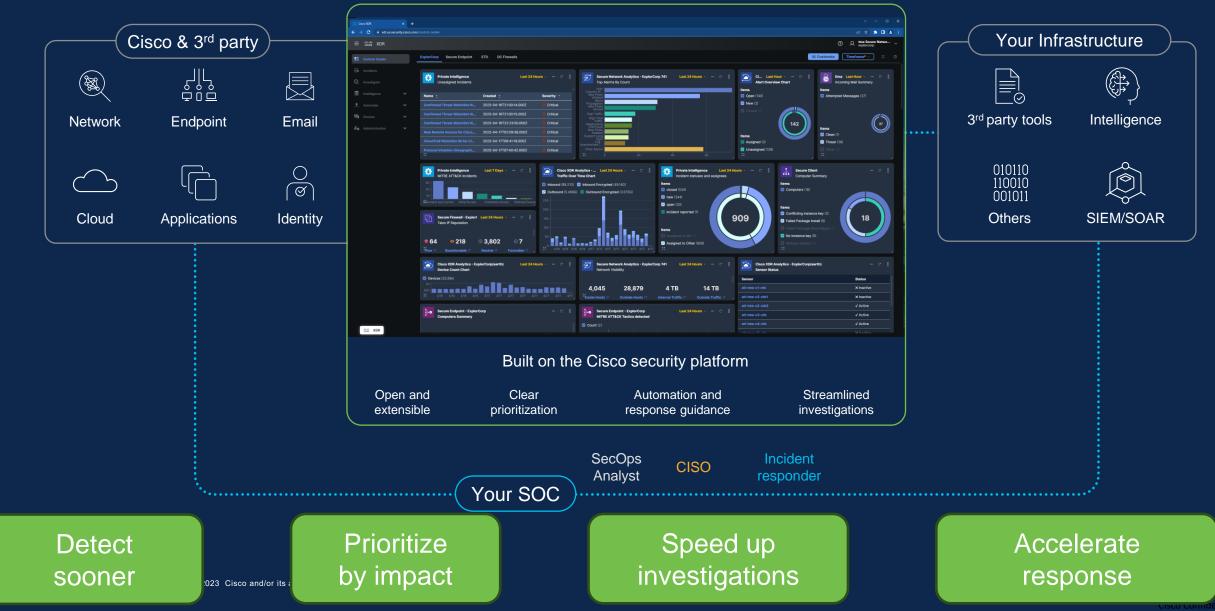


#### Siloed Detection & Response

#### Without XDR: xx minutes

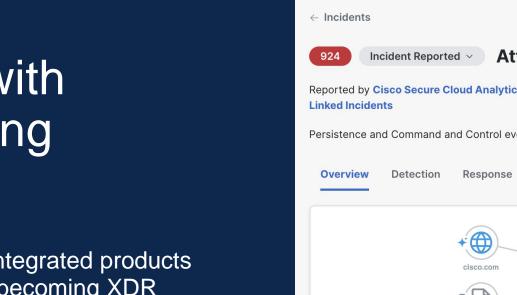


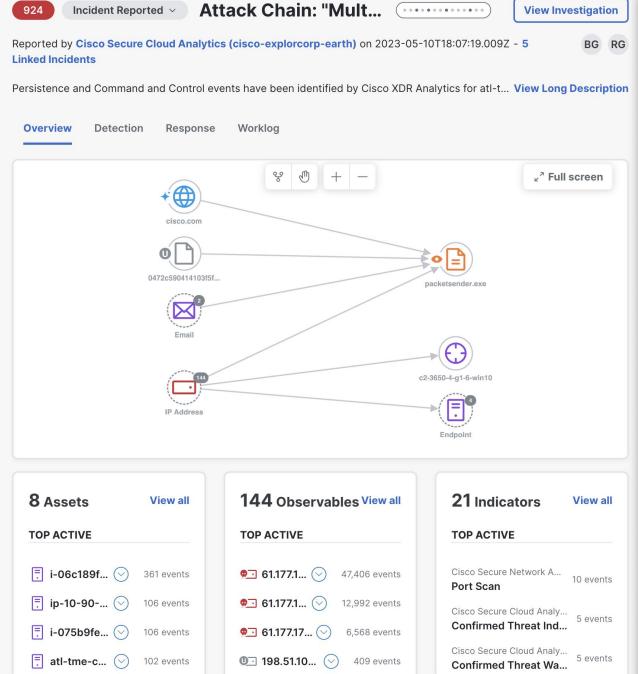
### Simplify with Cisco XDR



## Correlation with attack chaining

- Alerts from XDR and integrated products are correlated prior to becoming XDR incidents.
- Alerts with common indicators are combined into attack chains.
- New alerts are also appended to incidents as they occur over time.
- Analysts can also link incidents together for manual correlation.





#### XDR Response playbooks

- Bring the ability to take immediate response actions into the incident manager.
- Powered by out of the box XDR Automation workflows.
- Broken down into four stages:



#### Add Note **Identify Affected Hosts** Add note with summary of findings on the investigations of hosts found with ... Add Note Contain Incident: Overview Overview of how to contain Indicators of Compromise to stop the spread of ... Select Contain Incident: Assets $\sim$ Use asset-based containment to stop the spread of malicious activity. This automation worklow will network isolate/quarantine all selected assets on your integrated Endpoint Detection & Response solutions. After clicking Execute, you will be able to choose all or a subset of assets associated with this incident. Please make sure you have done proper identification before executing the workflow. Add Note Contain Incident: IPs Contain IP indicators of compromise to stop the spread of malicious activity Select **Contain Incident: Domains** Contain domain indicators of compromise to stop the spread of malicious act... This automation worklow blocks the selected domain names on your integrated network policy enforcement solutions. After clicking Execute, you will be able to choose all or a subset of domains associated with this incident. Make sure you have done proper identification before executing the workflow.

Go to Eradication -

Back

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