

Common Policy

Simplifiez le déploiement de votre politique de segmentation de bout en bout

Marion VAILLER, Solutions Engineer
Xavier VALETTE, Solutions Engineer

Une société X

Gars de la
séu

△ WARNING △

Une société X

Error



Hard drive error

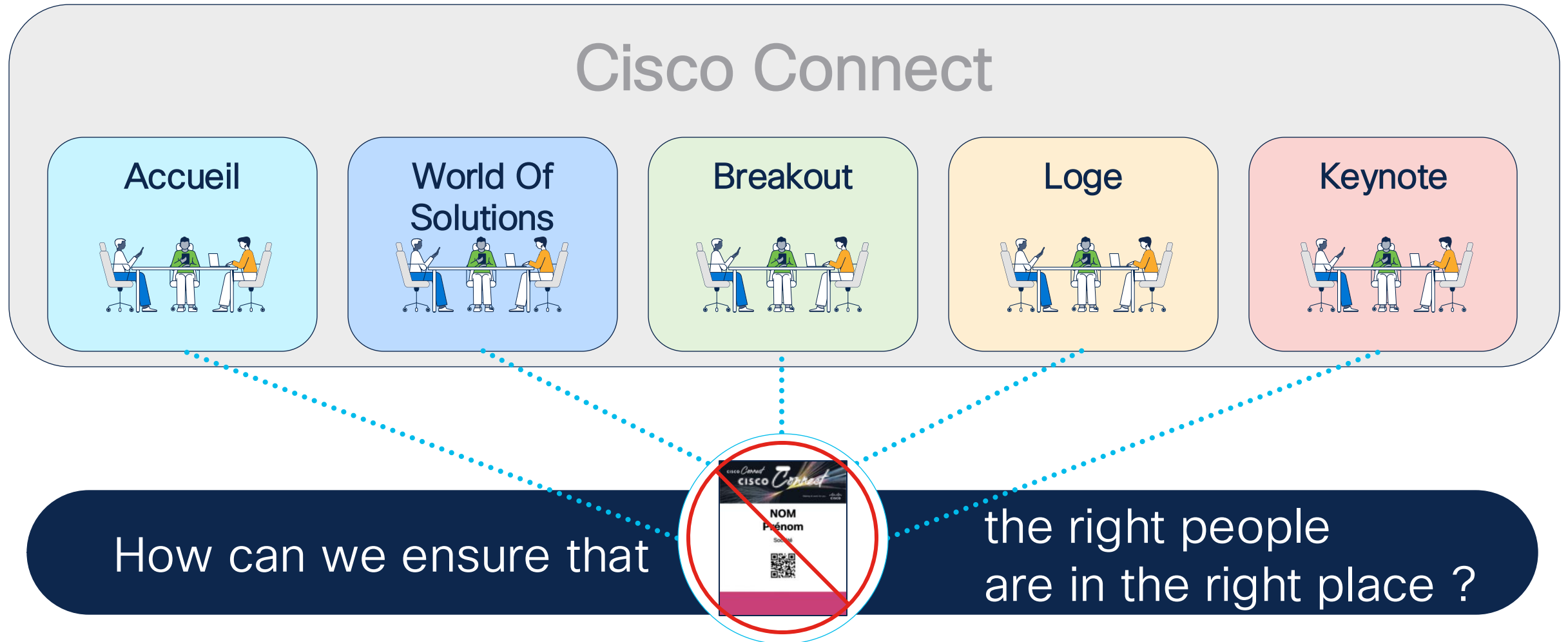
OK

Common Policy

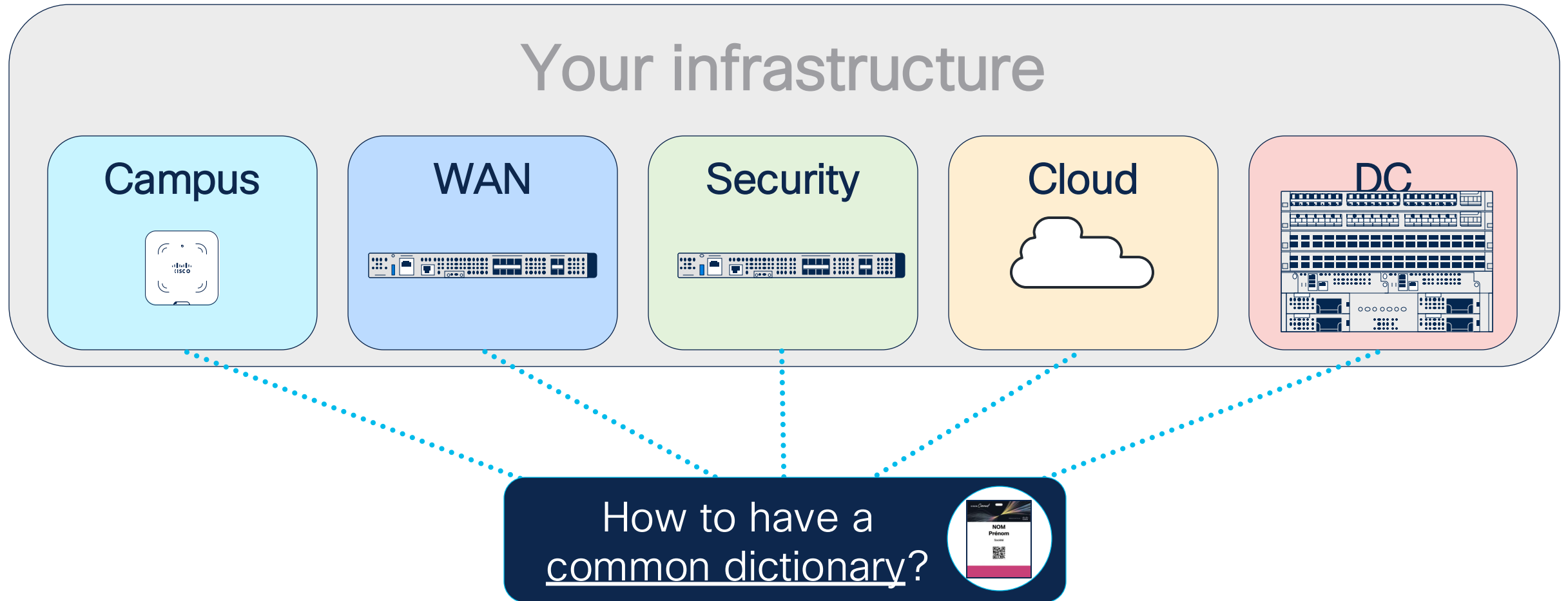
Simplifiez le déploiement de votre politique de segmentation de bout en bout

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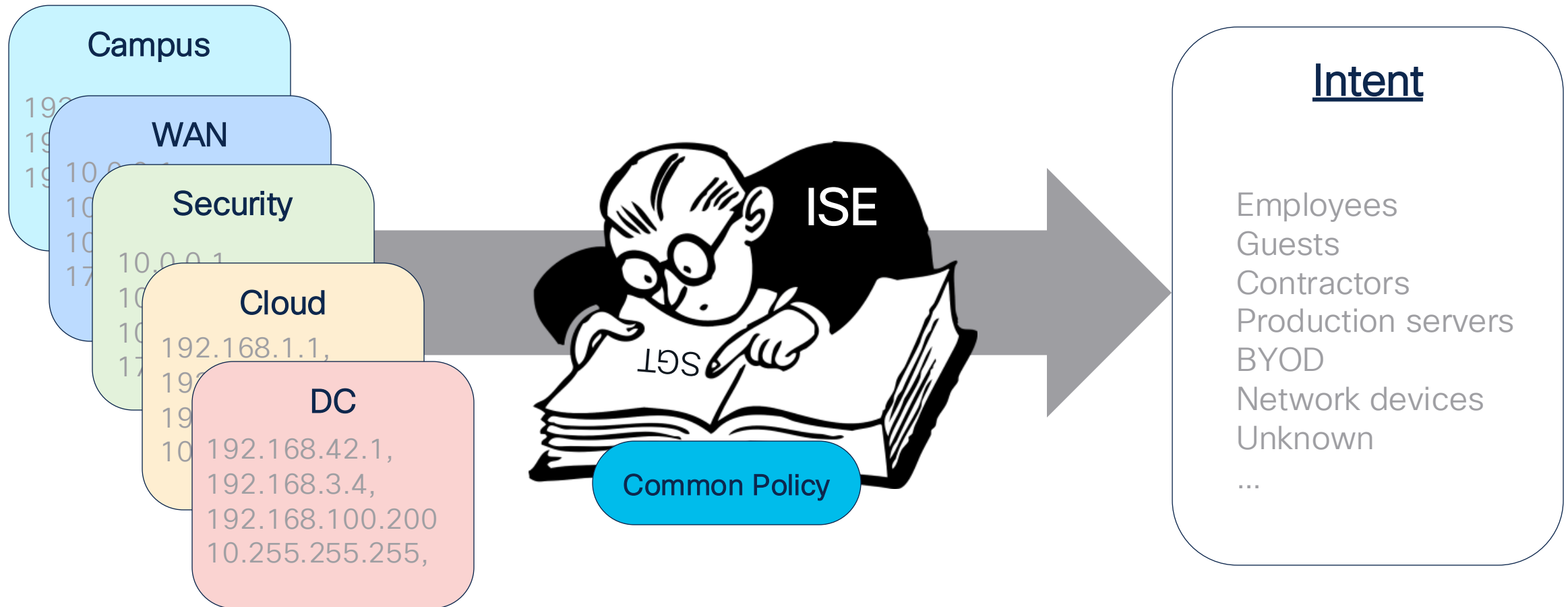
Pouvez-vous imaginer... un Cisco Connect sans badges ?



Mêmes principes pour votre infrastructure



Transformez votre Sécurité avec Common Policy



Agenda

1

Qu'est-ce
que
Common
Policy?

2

Quiz
Time!

slido

3

Demo
Time!

Qu'est-ce que Common Policy ?

Common Policy is SGTs across Domains

SGTs and Domains are explained on next slides



ISE

Common Policy is a feature from ISE



Common Policy uses SGTs to build a common dictionary to implement security policies

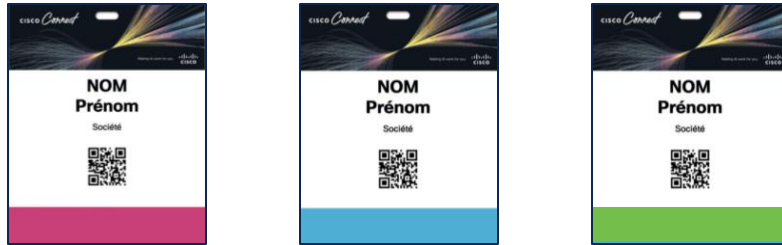


API

Common Policy uses API to extend SGTs across Domains

Les SGTs sont les badges Cisco Connect pour les assets

Badges identify **people**



SGT identify **assets**

*Example of SGTs



*Example of assets



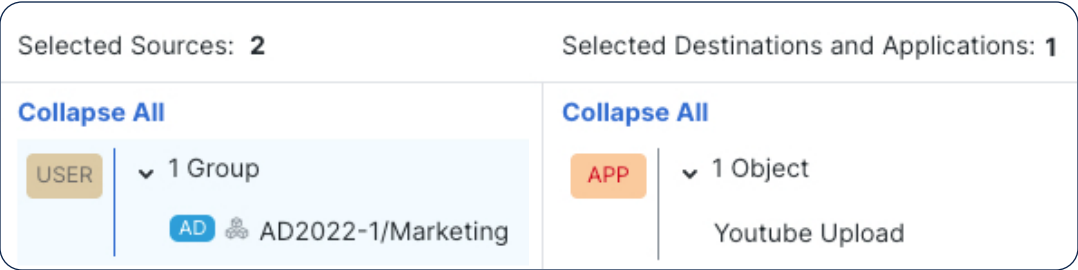
Security Group Tags (SGTs) are the **identities** in TrustSec architecture

Les SGTs sont les identités communes de vos assets

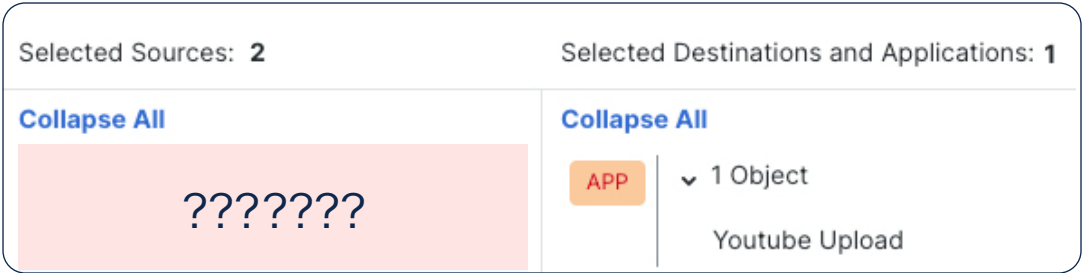
“I can already filter by identity with a Firepower, why should I use a SGT?”



What about **non-managed assets**?



Firepower screenshot



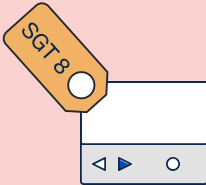
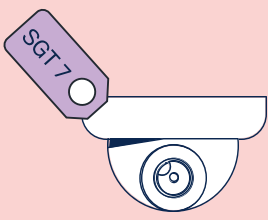
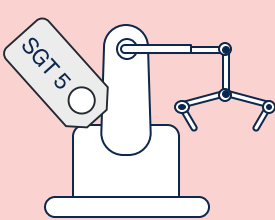
*Example of teams



Marketing Sales Developers IT

Managed assets

*Example of assets



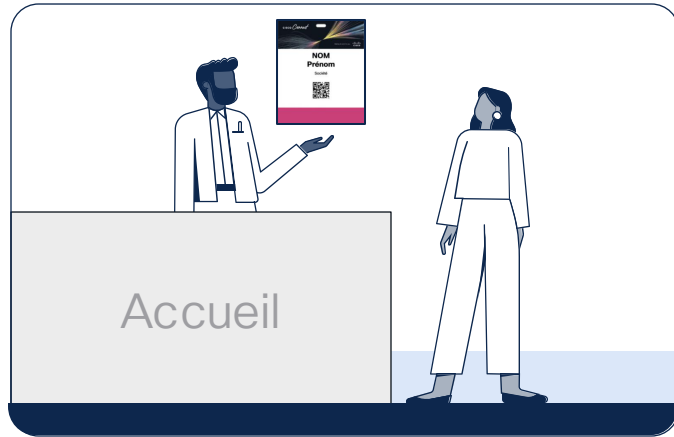
Industrial machines Barcode readers Cameras Sensors

Unmanaged assets

Deployez des SGTs dans votre infrastructure via TrustSec

TrustSec s'appuie sur 3 principes clés : Classification, Propagation, Enforcement

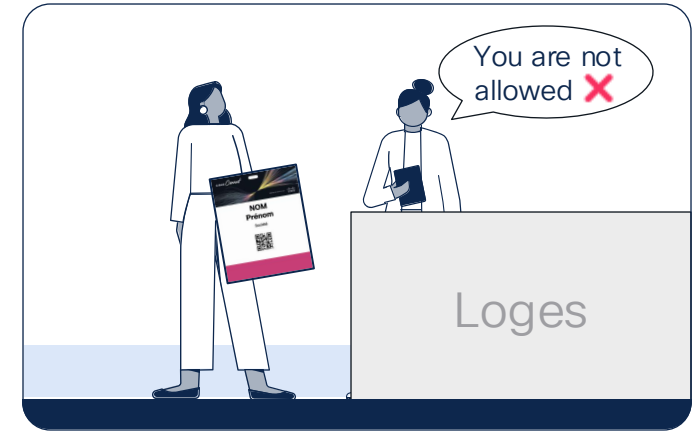
Cisco Connect



1 Classification

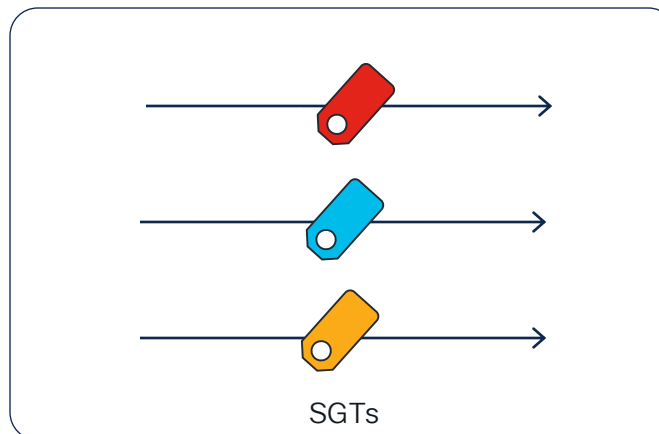
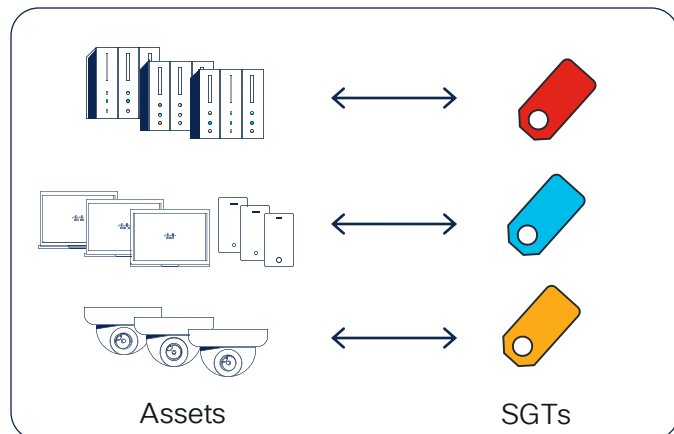


2 Propagation



3 Enforcement

Infrastructure



Egress Policy		Destination	
		Office365	NVR
Source	Employee	Allow	Deny
	Cameras	Deny	Allow

TrustSec s'appuie sur 3 principes clés

For your reference : examples of Classification, Propagation, Enforcement

1 Classification

Dynamic assignment via RADIUS

Wired & Wireless 802.1X

Static SSID assignment

Guest Users

Static switch port assignment

Wired IOT Sensors / Fixed Devices

Static Prefix to SGT Mapping

Last resort to map traffic to an SGT

Profiling

Endpoint analytics

2 Propagation

Data plane (inline)

SGT carried inline in the data traffic.
Methods include, SGT over Ethernet, MACSec, IPSec, VxLAN, DMVPN, AutoVPN, SD-WAN Tunnel
...

Control plane

IP-to-SGT data shared over control protocol. No SGT in the data plane.
Methods include, IP-to-SGT exchange over SXP, pxGrid, ...

3 Enforcement

SGACL

Permit all, Deny all, Custom Policy / ACL

NGFW

Stateful firewall

Infrastructure

Bookmarks

Dashboard

Context Visibility

Operations

Policy

Administration

Overview

Components

TrustSec Policy

Policy Sets

SXP

Integrations

Troubleshoot

Reports

Settings

Security Groups

IP SGT Static Mapping

Security Group ACLs

Network Devices

Trustsec Servers

Security Groups

For Policy Export go to [Administration > System > Backup & Restore > Policy Export Page](#)

Selected 0 Total 21

Edit

Add

Import

Export

Trash

Push

Verify Deploy

All

	Icon	Name	SGT (Dec / Hex)	Description	Learned from	IP Mapping
☐		APP_A_SERVER	20/0014			0
☐		APP_B_SERVER	21/0015			0
☐		Auditors	9/0009	Auditor Security Group		0
☐		BYOD	15/000F	BYOD Security Group		0
☐		Cameras	42/002A			0
☐		Contractors	5/0005	Contractor Security Group		0
☐		Developers	8/0008	Developer Security Group		0
☐		Development_Servers	12/000C	Development Servers Security Group		0
☐		Employee	30/001E			0
☐		Employees	4/0004	Employee Security Group		0
☐		Guests	6/0006	Guest Security Group		0
☐		Network_Services	3/0003	Network Services Security Group		0
☐		PCI_Servers	14/000E	PCI Servers Security Group		0
☐		Point_of_Sale_Systems	10/000A	Point of Sale Security Group		0

Concretely, where are SGTs defined?

Spoiler : it is here

Domains are defined by a manager/controller

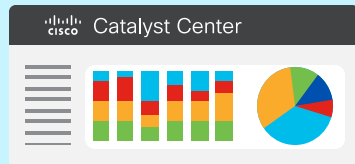
1 Domain

=

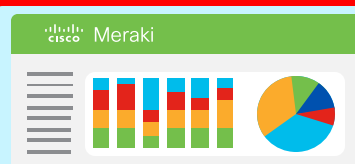
1 Controller

Your infrastructure = Multi-domains = Cross Architecture

Campus

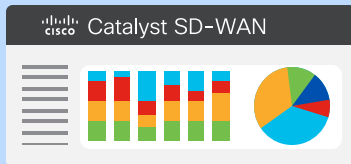


Catalyst Center domain

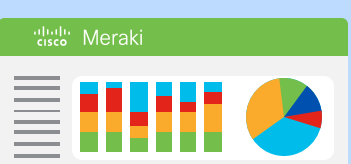


Meraki domain

WAN

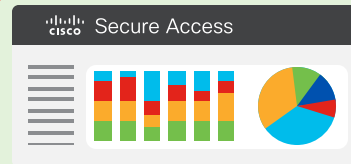


Catalyst SD-WAN domain

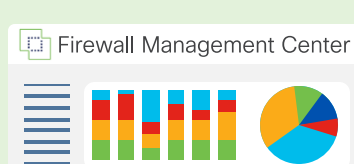


Meraki domain

Security

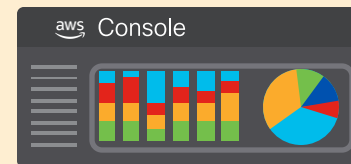


Secure Access domain

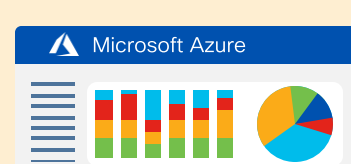


FMC domain

Cloud

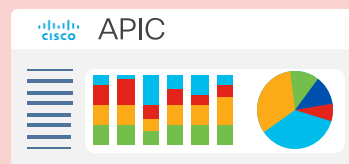


AWS domain

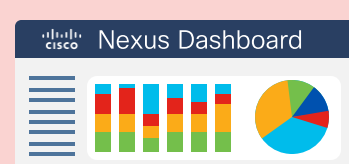


Azure domain

DC

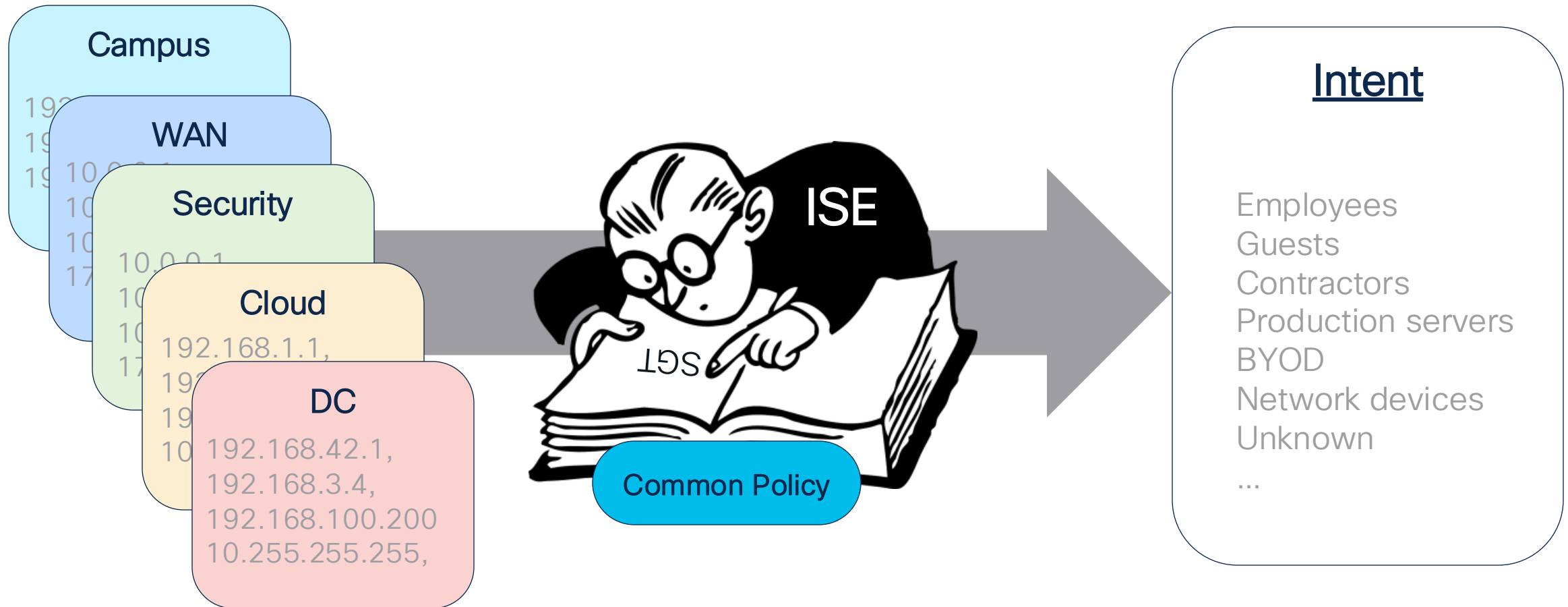


ACI domain



NDFC domain

Transformez votre Sécurité avec Common Policy



Quiz Time!





Qu'est-ce que Common Policy ?



Qu'est-ce que les Security Group Tags (SGTs) et les badges Cisco Connect ont en commun ?



Quelle fonctionnalité essentielle est ce que Identity Services Engine (ISE) peut fournir ?



Quelles sont les 3 étapes clés de TrustSec ?

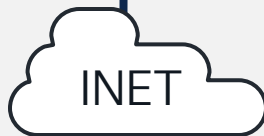
Demo Time!

Deux demos = 2 cas d'usage réels

Secure Internet access



chatgpt.com



User

Secure Cloud access

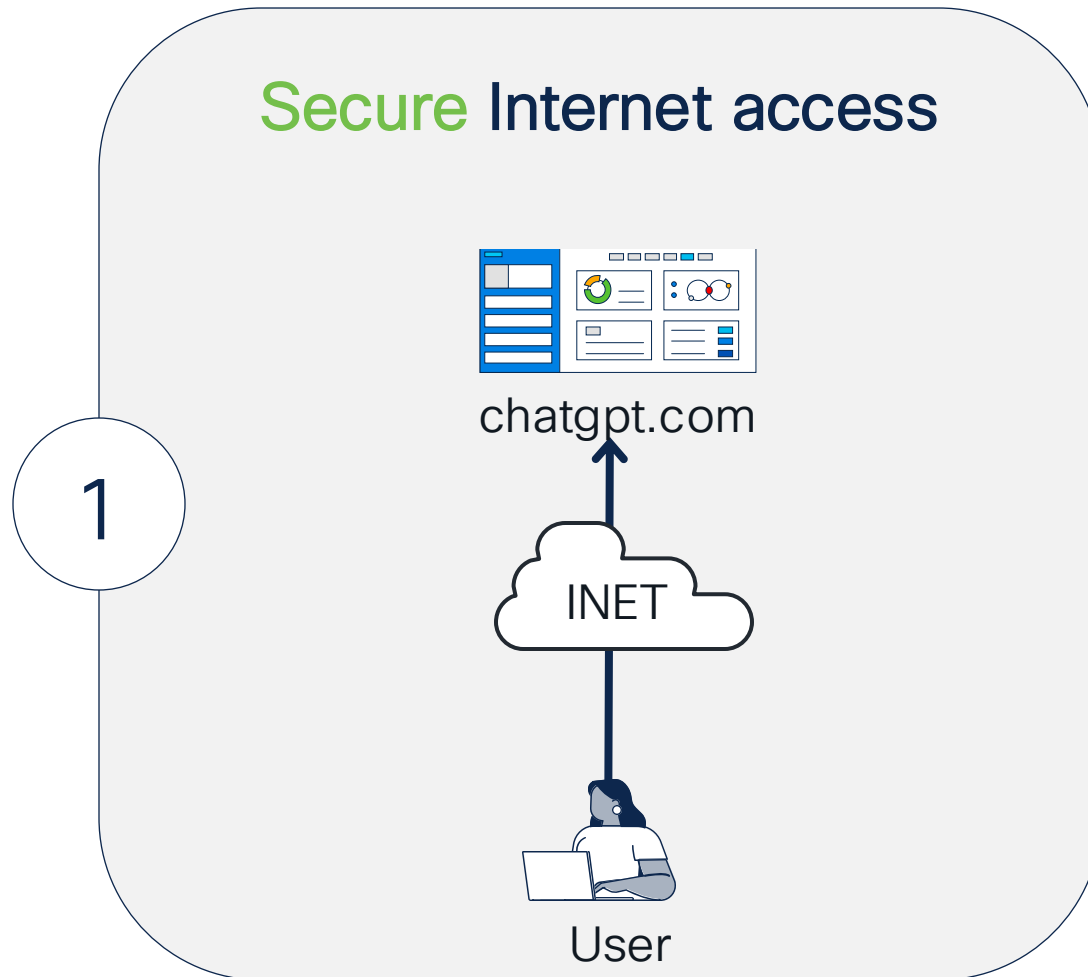


Custom application



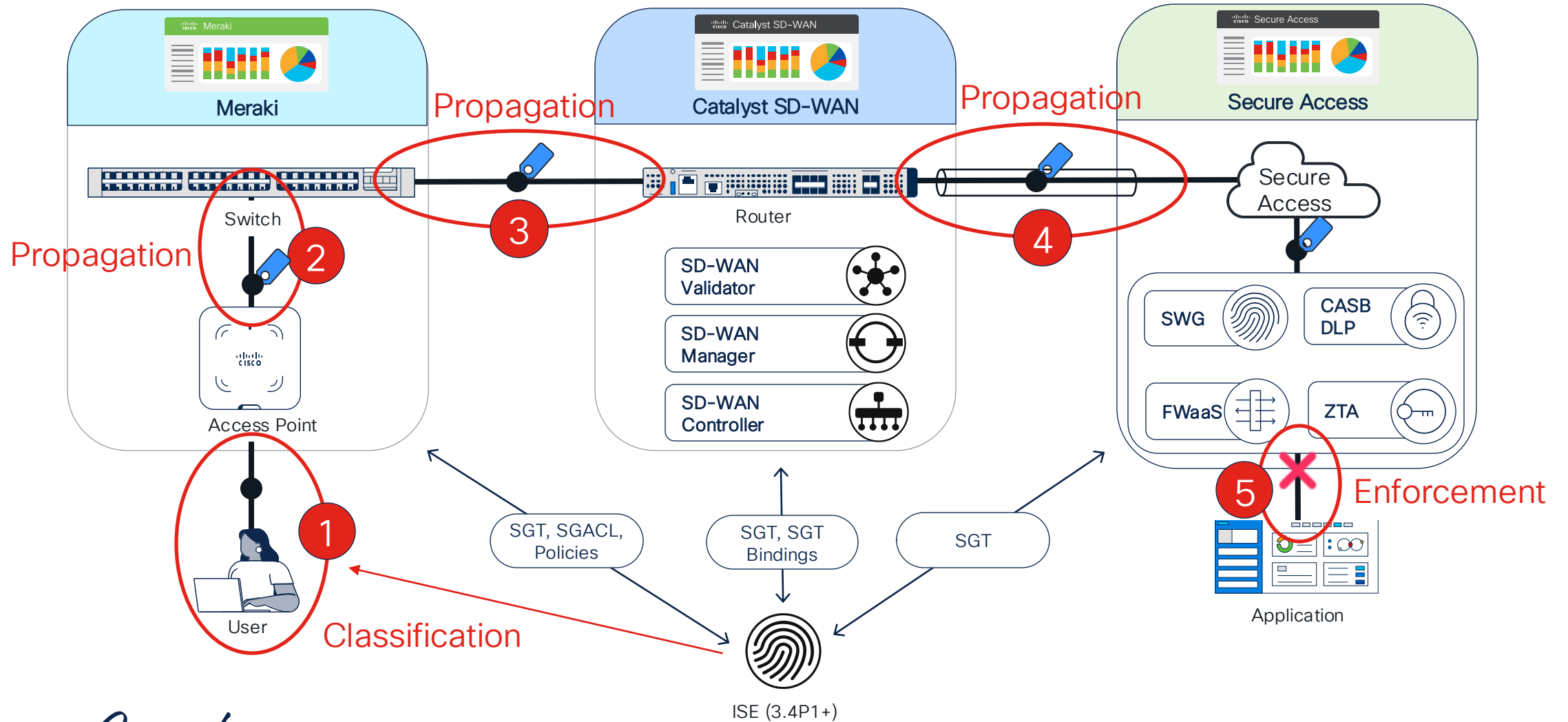
Camera

Un utilisateur accède à une application SaaS



1. Classification of user via RADIUS
2. Propagation from AP to switch
3. Propagation switch to router
4. Propagation from router to Secure Access
5. Enforcement on Secure Access

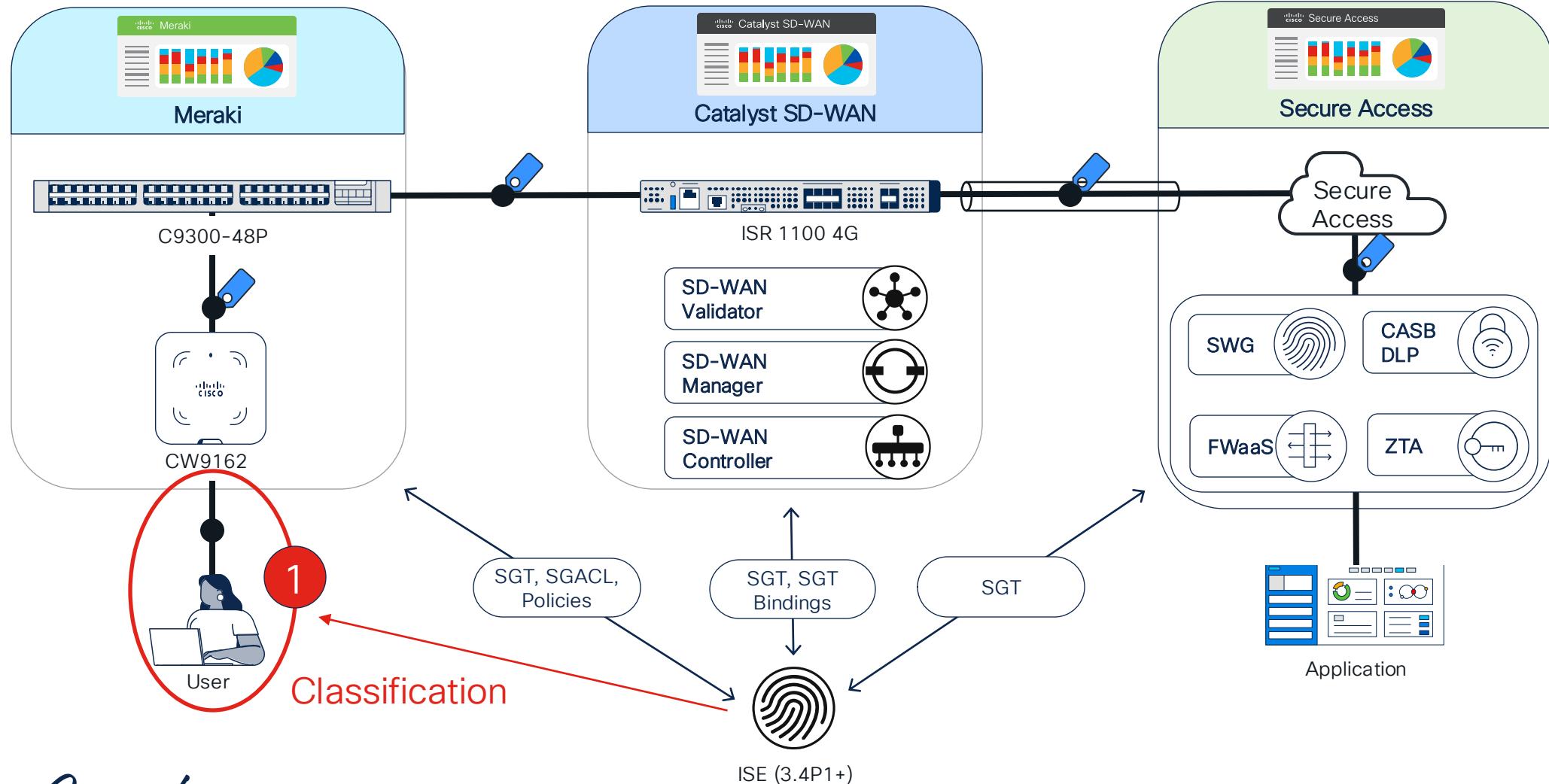
Secure Internet access : overview



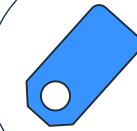
Secure Internet access

1. Classification via ISE (802.1X)

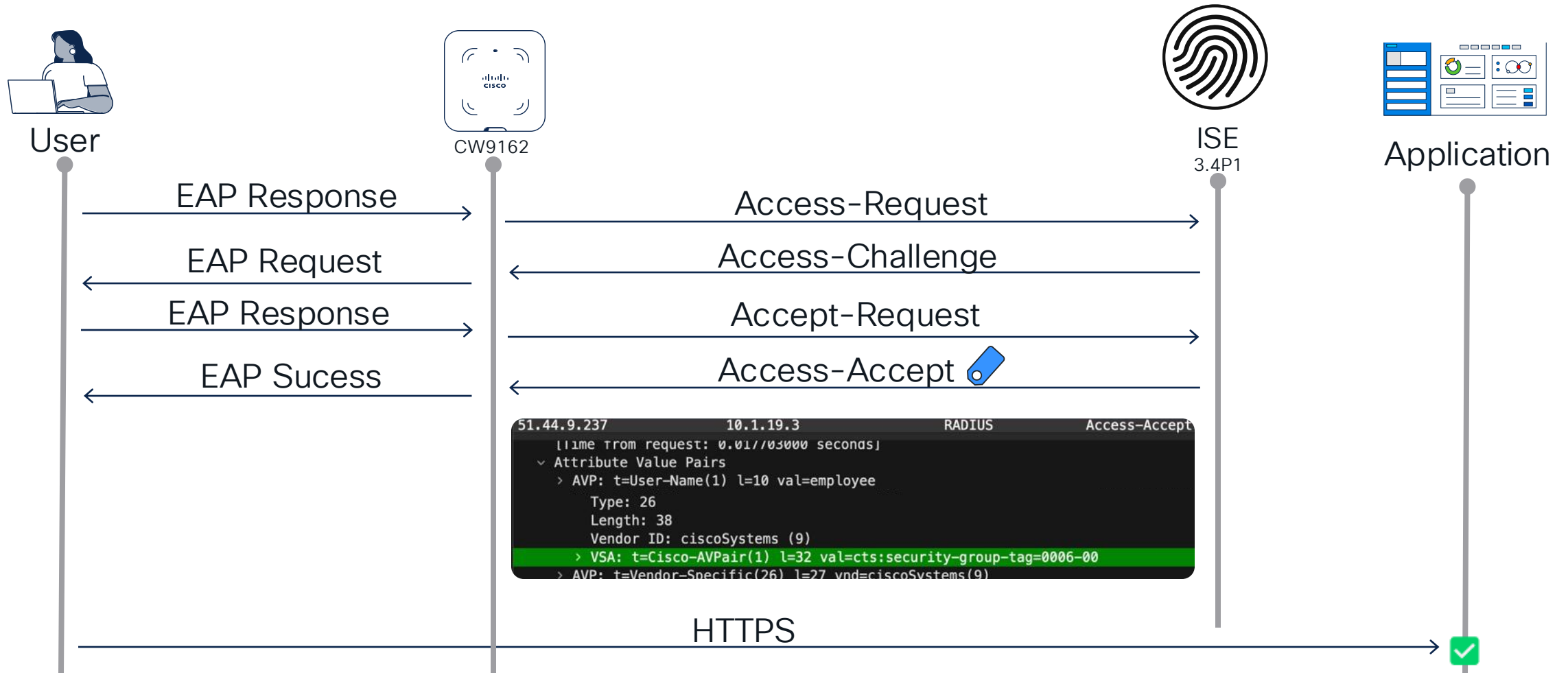
- Data plane
- SGT Employees
- Packet



1. Classification via ISE (802.1X)



= Employees
(SGT : 4)





Wi-Fi

Connectez-vous au Wi-Fi, consultez les réseaux disponibles et gérez les réglages d'accès aux réseaux et aux bornes d'accès à proximité. [En savoir plus...](#)

Wi-Fi



AirDrop, AirPlay, Me prévenir en cas d'oubli et l'amélioration de la précision de la localisation nécessitent le Wi-Fi.

- Bookmarks
- Dashboard
- Context Visibility
- Operations
- Policy
- Administration

- Overview
- Components
- TrustSec Policy
- Policy Sets**
- SXP
- Integrations
- Troubleshoot
- Reports
- Settings

Policy Sets

Reset

Reset Policy Set Hit Counts

Save

+	Status	Policy Set Name	Description	Conditions	Allowed Protocols / Server Sequence	Hits	Actions	View
Search								

- Work Centers**
- Interactive Help

Network Access	Guest Access	TrustSec	BYOD
Overview	Overview	Overview	
Identities	Identities	Components	
Id Groups	Identity Groups	TrustSec Policy	
Ext Id Sources	Ext Id Sources	Policy Sets	
Network Resources	Administration	SXP	
Policy Elements	Network Devices	Integrations	
Policy Sets	Portals & Components	Troubleshoot	
Troubleshoot	Manage Accounts	Reports	
Reports	Policy Elements	Settings	
Settings	Policy Sets		
Dictionaries	Reports	PassiveID	
	Custom Portal Files		
Profiler	Settings		
	Posture		

work Access

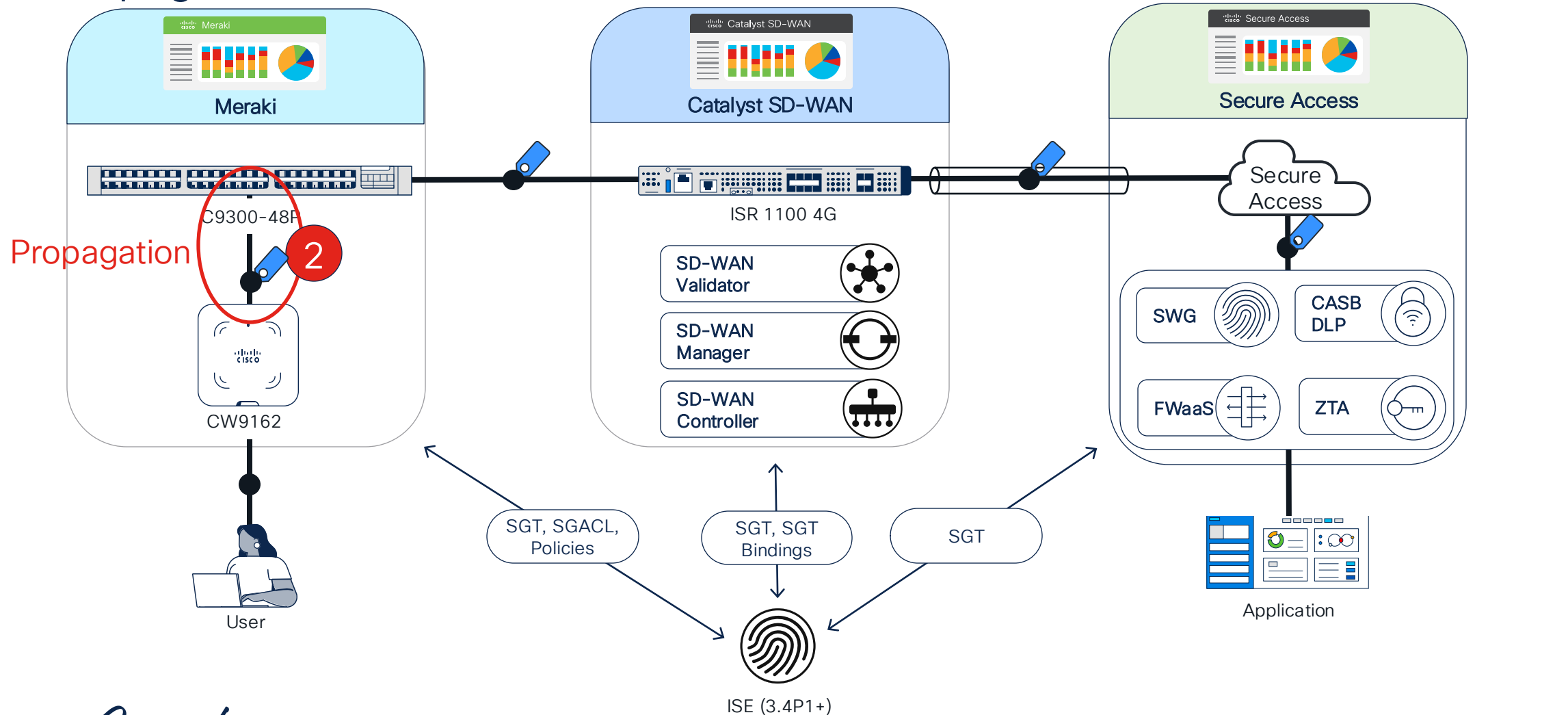
0

Reset

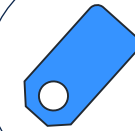
Save

Secure Internet access

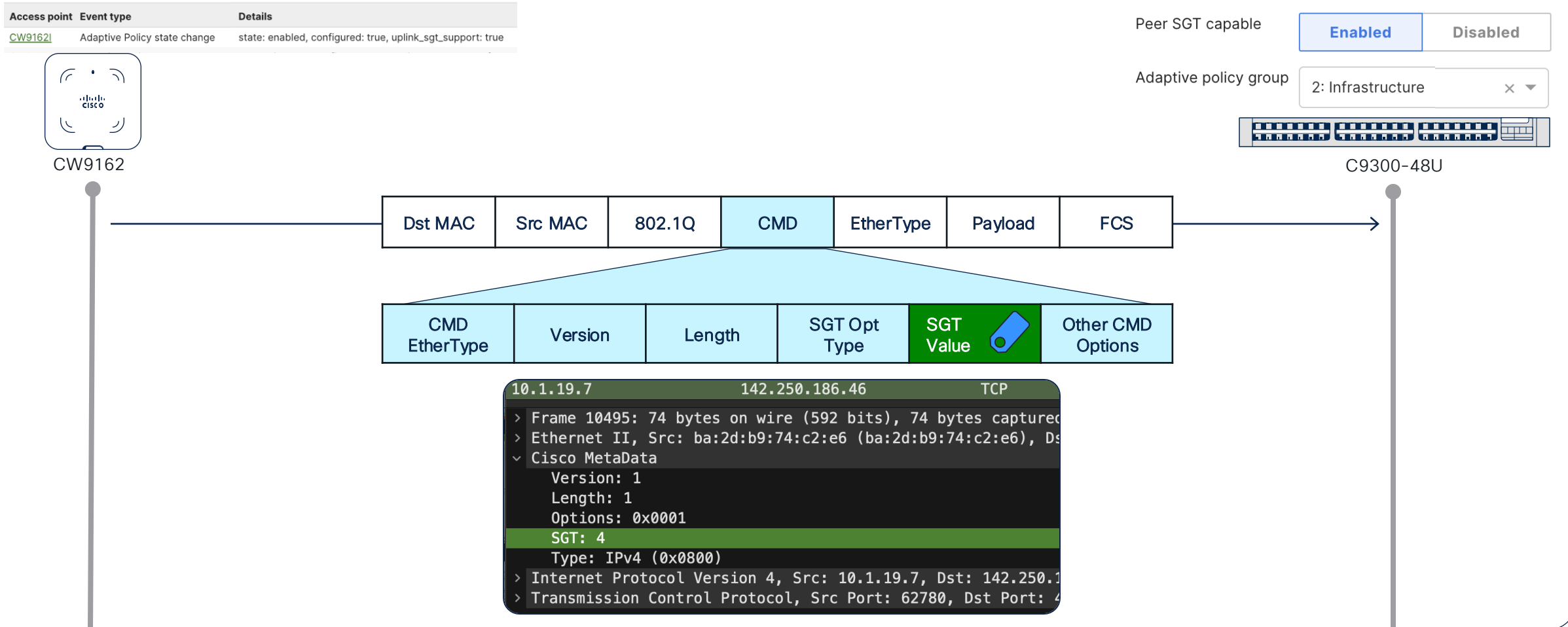
2. Propagation de l'AP au switch



2. Propagation de l'AP au switch



= Employees
(SGT : 4)



- Global Overview
- Organization
VALETTE
- Network
FR92130 - Issy
- Secure Connect
- Network-wide
- Assurance New
- Security & SD-WAN
- Switching
- Wireless
- Insight
- Organization
- Find in Menu

New in Dashboard: Building Better Alerting Experiences: An Overview of Enhanced Alert Features and 3 other features. [Read more.](#)

Switches Last day + Add a switch

0 Offline

0 Alerting

1 Online

0 Dormant

Status

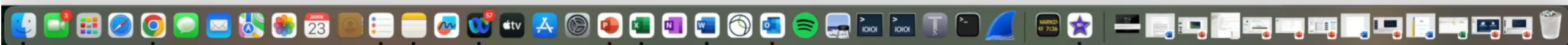
Tags

Device type

1 result

Download

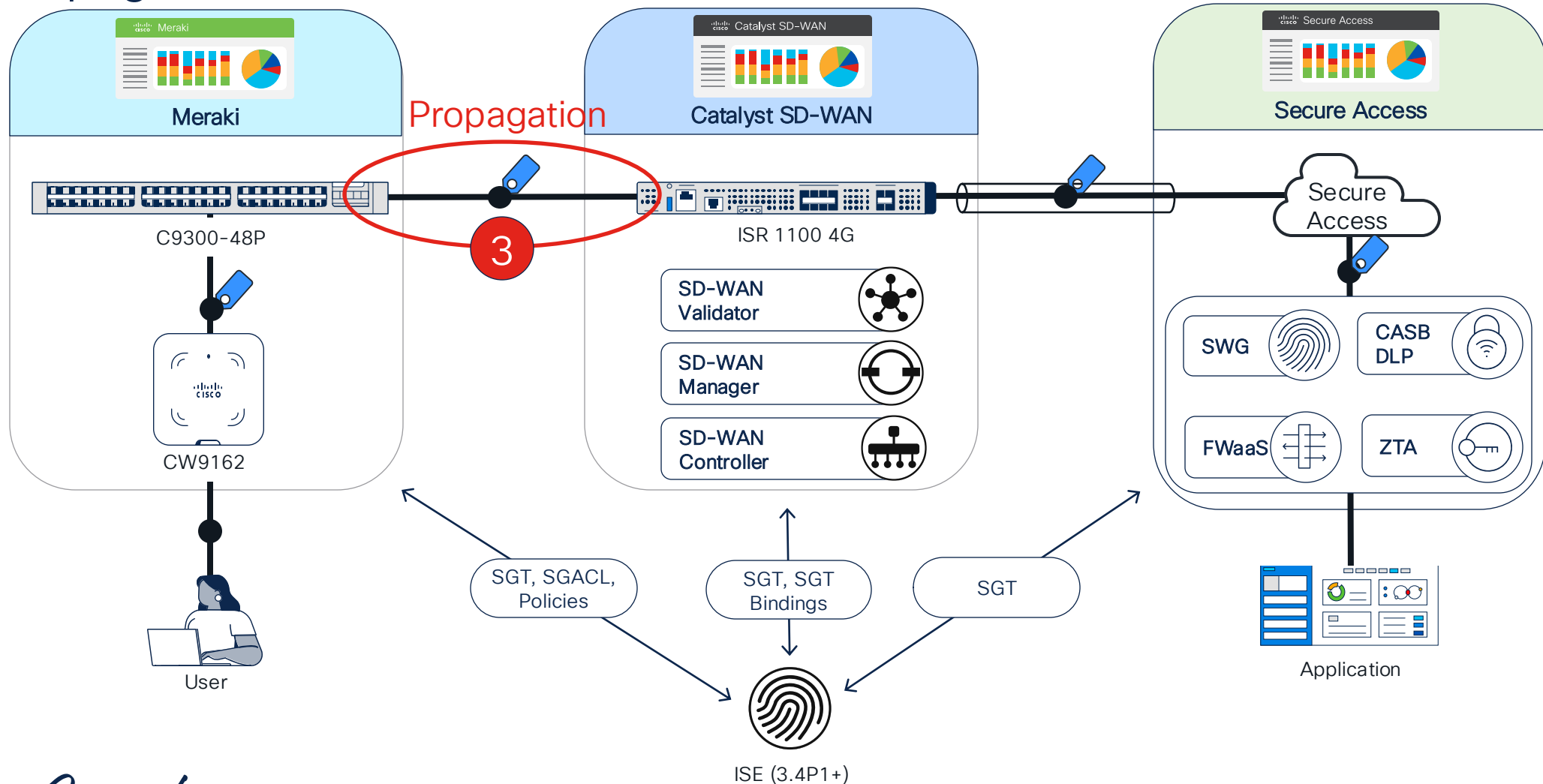
☐	Status	Name	MAC address	Connectivity (UTC-8)	Serial number	Local IP	
☐		CL25-SW	e8:eb:34:a4:75:00		Q5TG-EQW2-ZA7W	10.1.19.6	



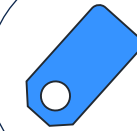
Secure Internet access

3. Propagation du switch au routeur

- Data plane
- SGT Employees
- Packet



3. Propagation du switch au routeur



= Employees
(SGT : 4)

Peer SGT capable

Enabled

Disabled

Adaptive policy group

2: Infrastructure



C9300-48U

```
interface GigabitEthernet0/0/1
vrf forwarding 10
cts manual
policy static sgt 2 trusted
```



ISR 1100 4G



```
10.1.19.7      142.250.186.46      TCP
> Frame 10495: 74 bytes on wire (592 bits), 74 bytes captured
> Ethernet II, Src: ba:2d:b9:74:c2:e6 (ba:2d:b9:74:c2:e6), Ds
v Cisco MetaData
  Version: 1
  Length: 1
  Options: 0x0001
  SGT: 4
  Type: IPv4 (0x0800)
> Internet Protocol Version 4, Src: 10.1.19.7, Dst: 142.250.1
> Transmission Control Protocol, Src Port: 62780, Dst Port: 4
```


 The network is out of compliance due to licensing, please [click here](#) for more actions.

 Monitor

 Configuration

 Analytics

 Workflows

 Tools

 Reports

 Maintenance

 Administration

 Explore

Select Device ▾

AppQoS DRE Optimization

Connection Events

WAN Throughput

Flows

Top Talkers

WAN

TLOC

Tunnel

Managed Cellular Activation - eSIM

SECURITY MONITORING

Firewall

Intrusion Prevention

URL Filtering

Advanced Malware Protection

TLS/SSL Decryption

Umbrella DNS Re-direct

Control Connections

System Status

Events

ACL Logs

Troubleshooting

Real Time

CL25-router | 7.7.7.28 | Site Name 27001 | Device Model: ISR 1100 4G (Cisco OS) 

Device Options:

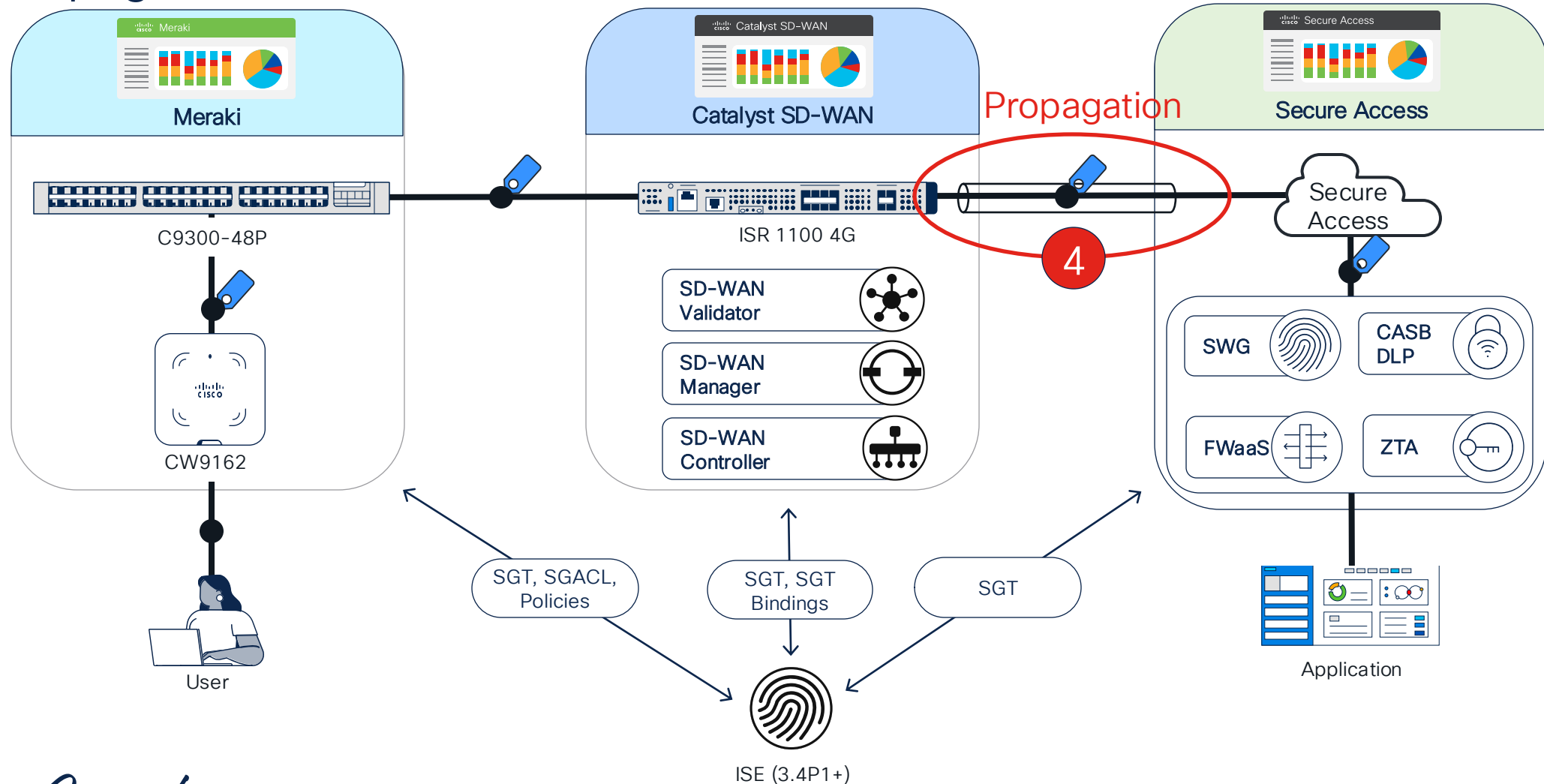
Total Rows: 10 

Property	Value
Hostname	CL25-router
Last Updated	19 Jan 2025 7:12:40 PM CET
Latitude	37.666684
Longitude	-122.777023
Personality	WAN Edge
Site ID	27001
Timezone	UTC +0000
Vbond	vbond-1692376.viptela.net

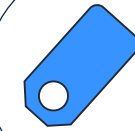
Secure Internet access

4. Propagation du routeur à Secure Access

- Data plane
- SGT Employees
- Packet



4. Propagation du routeur au SSE



= Employees
(SGT : 4)

ISR1100-4G-FGL2347L52J Tunnel16000001 IPSEC active Cisco Secure Access

ISR1100-4G-FGL2347L52J Tunnel16000002 IPSEC backup Cisco Secure Access

ISR 1100 4G

CLEUR25

SSE Provider

☒ Cisco SSE ☐ Zscaler

Context Sharing

☒ VPN ☒ SGT

```
CL25-router#show platform packet-trace packet 0
Packet: 0            CBUG ID: 0
Summary
Input     : GigabitEthernet0/0/1
Output    : GigabitEthernet0/0/0
State     : FWD
Timestamp
Start     : 56785409528447 ns (01/22/2025 22:12:11.122782 UTC)
Stop      : 56785409699943 ns (01/22/2025 22:12:11.122954 UTC)
Path Trace
Feature: IPV4(Output)
Input     : GigabitEthernet0/0/1
Output    : Tunnel16000001
Source    : 10.1.19.4
Destination : 8.8.8.8
Protocol   : 1 (ICMP)
Feature: IPSec
Result    : IPSEC_RESULT_SA
Action    : ENCRYPT
SA Handle : 28
Peer Addr : 8.8.8.8
Local Addr: 10.1.19.4
Feature: SDWAN SSE Metadata
Next protocol: 1
SGT       : 0
Source VPN : 10
```

ISR1100-4G-FGL2347L52J

Review and edit this network tunnel group. Details for each IPsec tunnel added

Summary

Connected

Region

Europe (Germany)

Routing Type

NAT / Outbound Only

Device Type

Catalyst SDWAN

Secure Access

 The network is out of compliance due to licensing, please [click here](#) for more actions.

- Monitor
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- Explore

Configuration Groups

SD-WAN

Configuration Groups 20

System Profile 39

Transport & Management Profile 40

Policy Profile 1

Service Profile 38

CLI Add-on Profile 18

UC Voice Profile 1

Other Profile 3

Last Updated

Status

Create Configuration Group

Export

Import

As of: Jan 23, 2025 01:17 PM 

Name	Type	Profile	Provisioning Status In Sync Devices / Associated Devices	Origin	Updated By	Last Updated On	Actions
lab-fimoreir-home	Single Router	6	 1 / 1	user	fimoreir	Jan 23, 2025, 12:50:35 PM	 
CPOC-London-Large	Single Router	4	 1 / 1	user	fomuya	Jan 23, 2025, 11:40:18 AM	 
CPOC-London-Devices	Single Router	4	 2 / 2	user	fomuya	Jan 23, 2025, 11:37:38 AM	 
fomuya-cpoc	Single Router	4	 0 / 0	user	fomuya	Jan 23, 2025, 11:37:38 AM	 
Bydgoszcz-makrupin-Home	Single Router	4	 1 / 1	user	makrupin	Jan 23, 2025, 11:23:15 AM	 
ISB_Sdwan_4451	Single Router	2	 0 / 1	user	fimoreir	Jan 22, 2025, 8:04:49 PM	 
nboursie_home	Single Router	4	 1 / 1	user	fimoreir	Jan 22, 2025, 8:01:20 PM	 



- Home
- Experience Insights
- Connect
- Resources
- Secure
- Monitor
- Admin
- Workflows

Connect

Essentials

- Network Connections
- Users and Groups
- End User Connectivity
- DNS Forwarder

in, identity, or URL Advanced

Schedule Export CSV LAST 24 HOURS

Saved Searches Customize Columns All

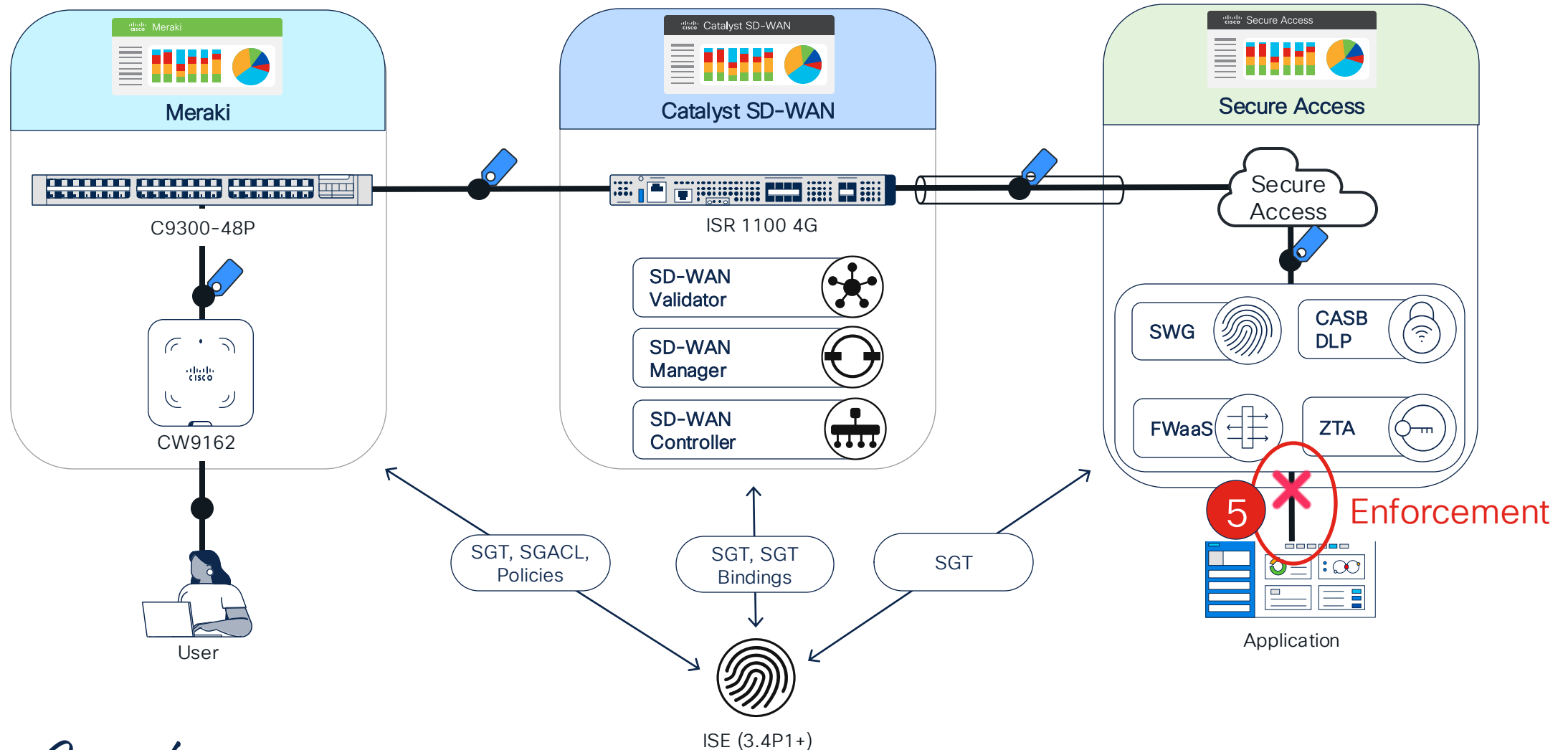
98 634 Total Viewing activity from janv. 18, 2025 6:09 PM to janv. 19, 2025 6:09 PM Page: 1 Results per page: 50 1 - 50

Request	Source	Rule Identity	Destination	Destination IP	Destination Port	Destination Country	In
FW	Corporate (VPN-10)	Corporate (VPN-10)		17.248.248.102:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		157.240.253.17:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		8.8.8.8			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		8.8.8.8			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		51.92.110.33:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		17.248.248.102:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		142.250.184.206:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		142.250.184.206:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		51.92.110.33:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		142.250.185.238:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		17.248.248.120:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		142.250.185.129:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		51.92.110.33:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		51.92.110.33:443			10
FW	Corporate (VPN-10)	Corporate (VPN-10)		51.92.110.33:443			10

Secure Internet access

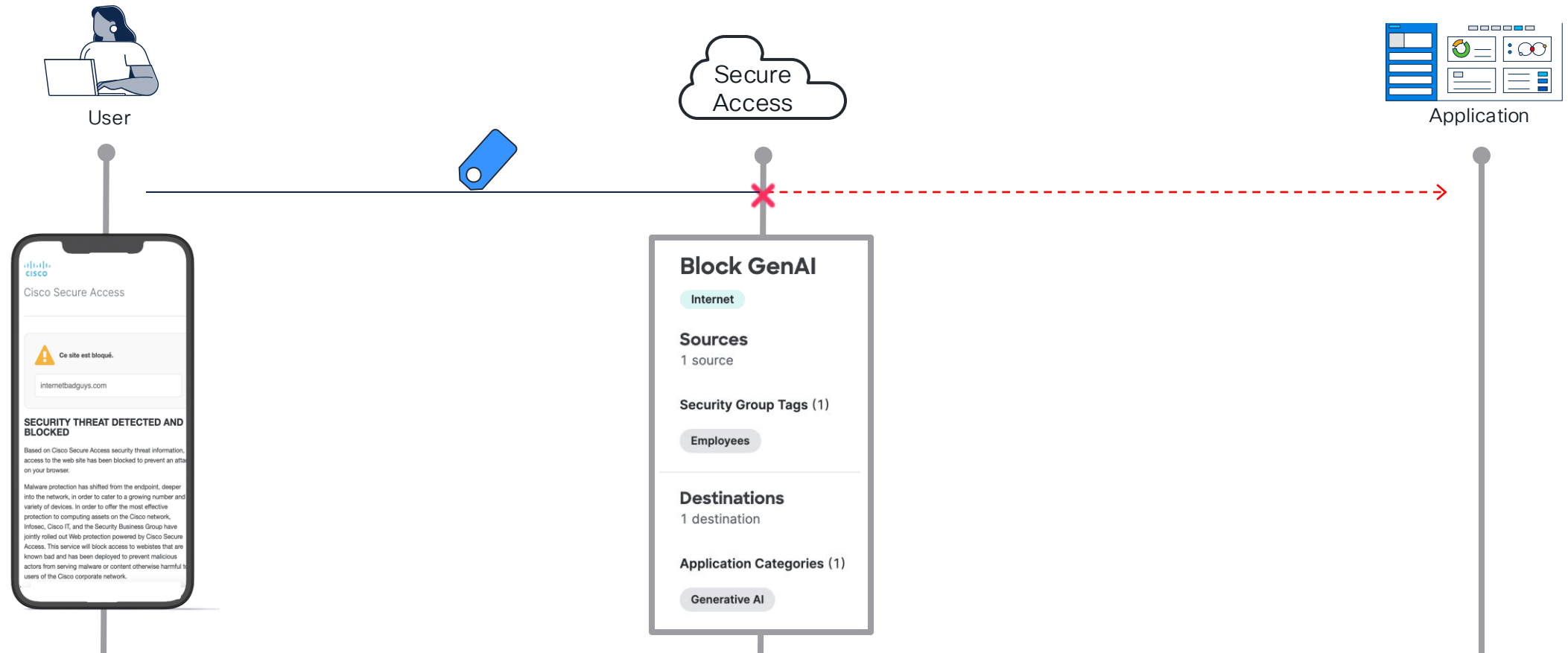
5. Enforcement sur Secure Access

- Data plane
- SGT Employees
- Packet



5. Enforcement sur Secure Access

 = Employees (SGT : 4)





Home



Experience Insights



Connect



Resources



Secure



Monitor



Admin



Workflows

Security Group Tags

Security Group Tags (SGT) specify the privileges of a traffic source within a trusted network. When you enable an Identity Services Engine integration, SGTs become available for use in access rules. [Help](#)

Search

18 total

As of: Jan 19, 2025, 07:31 PM

Name

Tag

ANY

65535

Auditors

9

BYOD

15

Contractors

5

Developers

8

Development_Servers

12

Employees

4

Guests

6

Network_Services

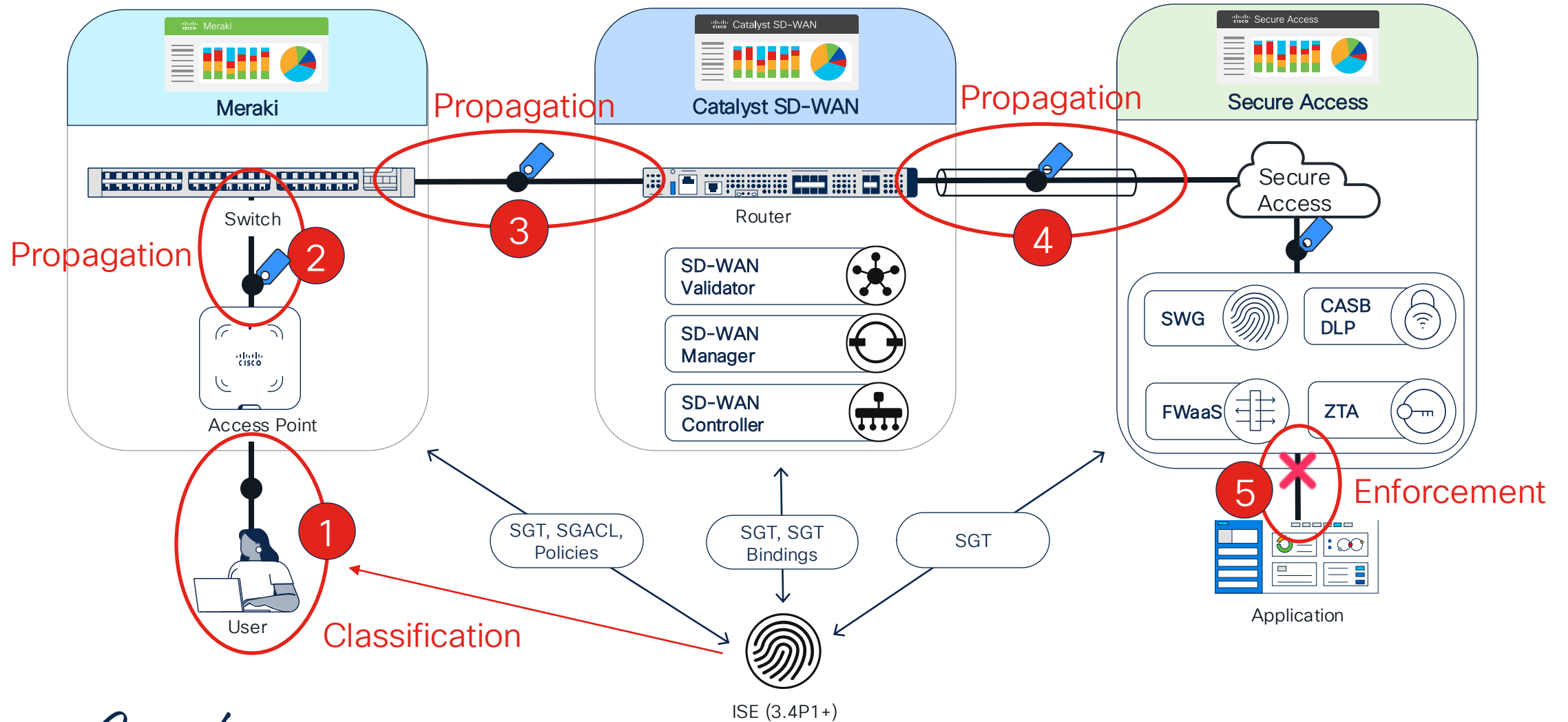
3

PCI_Servers

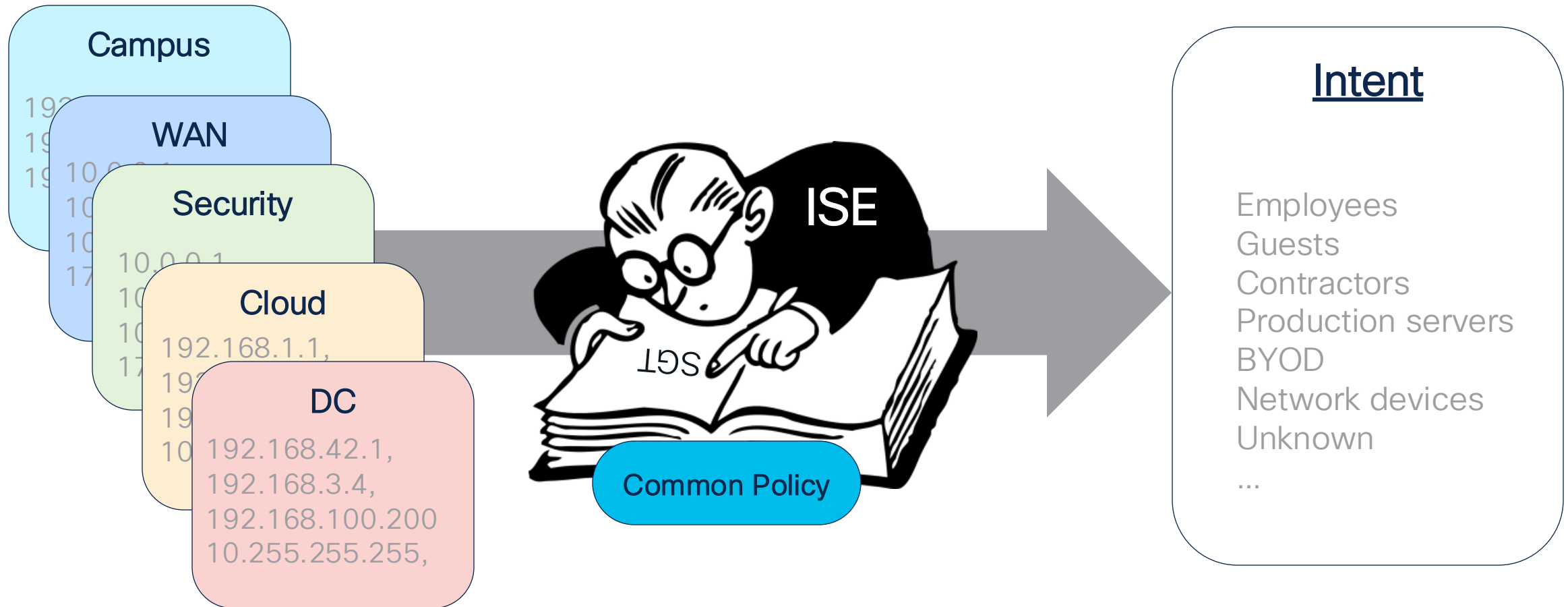
14

Rows per page 10 < 1 2 >

Secure Internet access : résumé



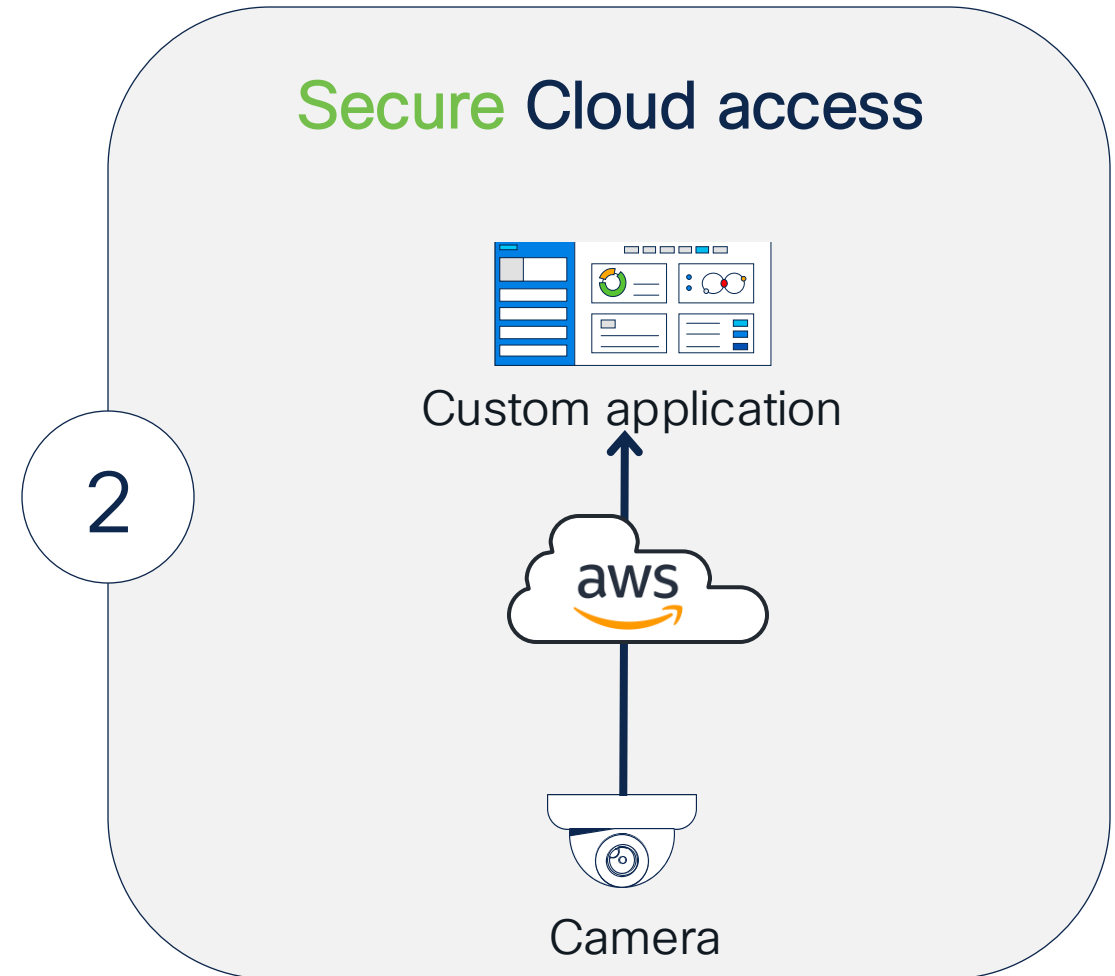
Transformez votre Sécurité avec Common Policy



Second Demo Time !

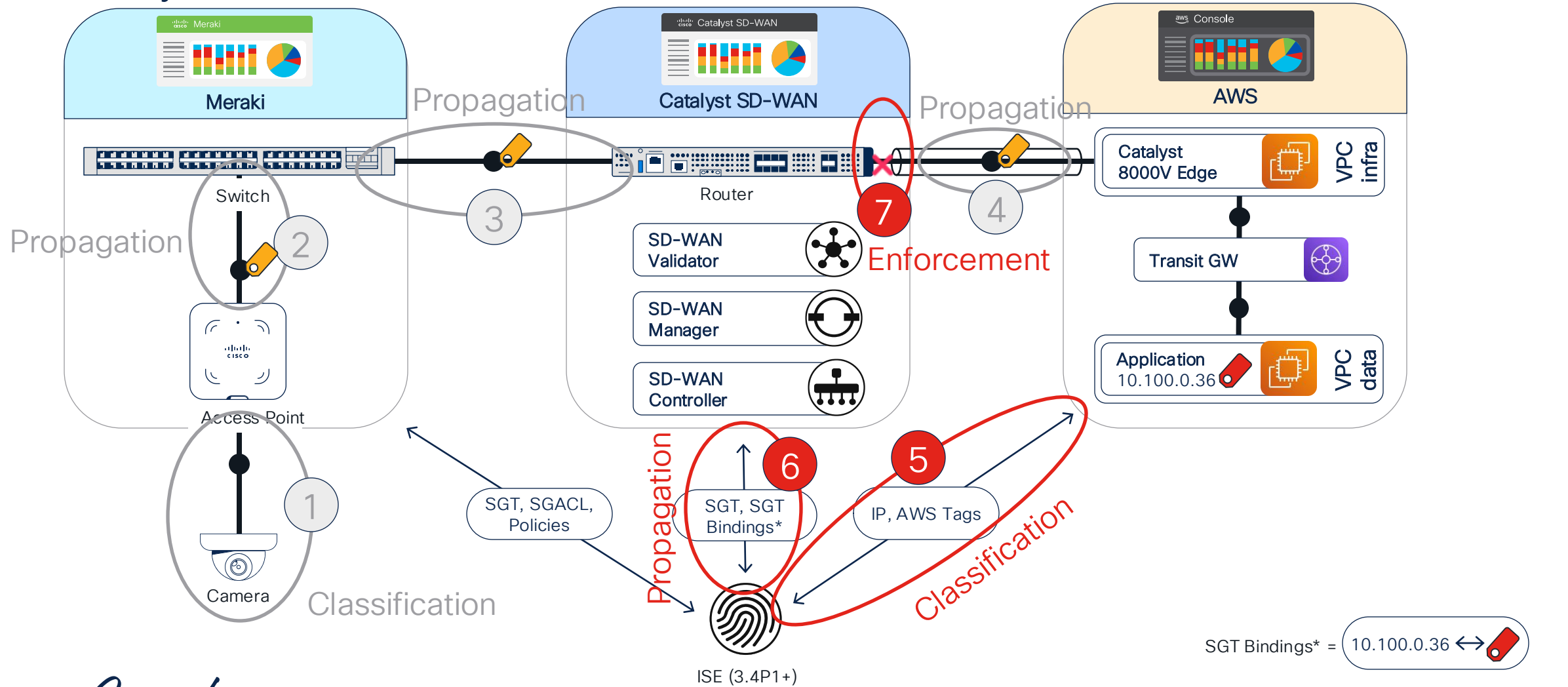
A camera needs to access to an AWS application

1. Classification of asset via profiling*
2. Propagation from AP to switch*
3. Propagation switch to router*
4. Propagation in SD-WAN Fabric*
5. Classification of EC2 via APIs
6. Propagation of EC2 classification
7. Enforcement via NGFW on SD-WAN Edge



Secure Cloud access

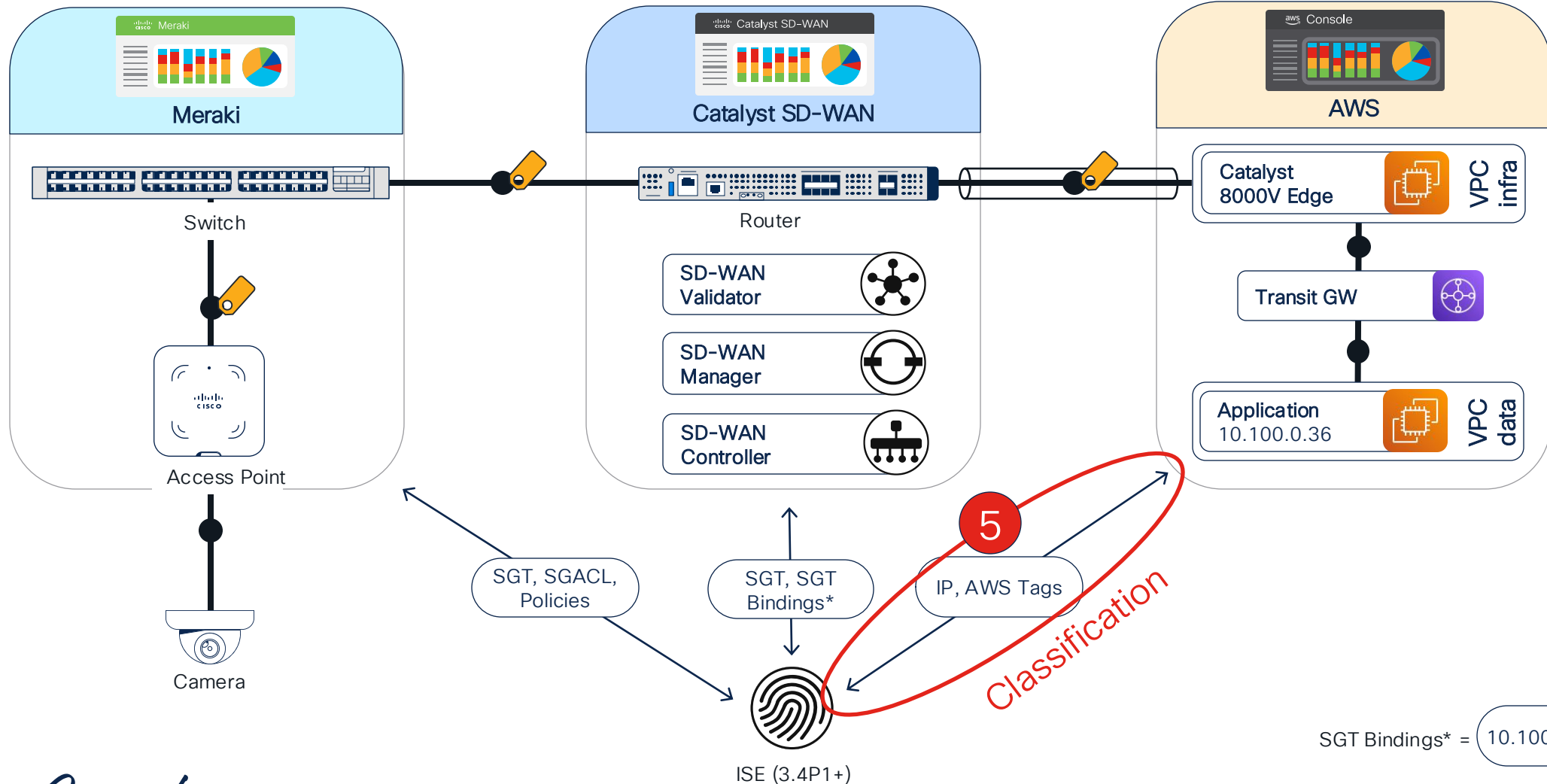
Summary



Secure Cloud access

Classification of EC2 via API

- Data plane
- SGT Cameras
- SGT Production_Server
- Packet



SGT Bindings* = 10.100.0.36 ↔ SGT Production_Server

Console Home

Info

Reset to default layout

+ Add widgets

 Recently visited

Info

 EC2

 VPC

 IAM

 Billing and Cost Management

 CloudTrail

 Support

 Key Management Service

 EC2 Global View

View all services

 Applications (0)

Info

Region: Europe (Paris)

eu-west-3 (Current Region)

< 1 >

Name	Description	Region	Originati.
No applications			
Get started by creating an application.			
Create application			

Go to myApplications

 Welcome to AWS

 Getting started with AWS

Learn the fundamentals and find valuable information to

 AWS Health

Info

Open issues

0

Past 7 days

Scheduled changes

 Cost and usage

Info

Current month costs

\$7.51

Cost (\$)

8

Forecasted month end costs

6

CloudShell

eu-west-3 +

[cloudshell-user@ip-10-130-3-144 ~]\$

Actions

CloudShell Feedback

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- Bookmarks
- Dashboard
- Context Visibility
- Operations
- Policy
- Administration
- Work Centers
- Interactive Help

Summary

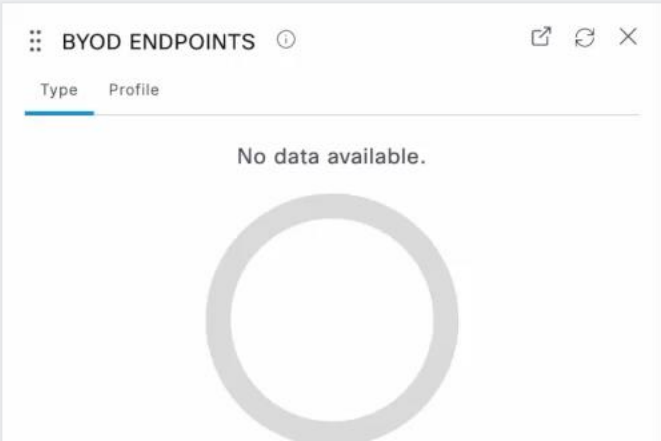
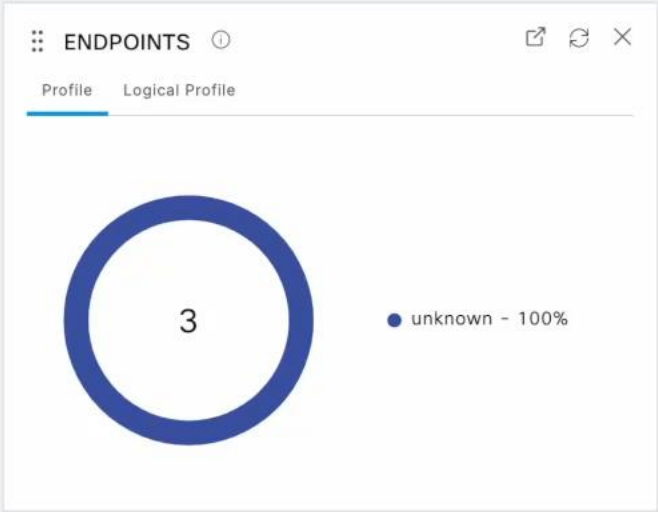
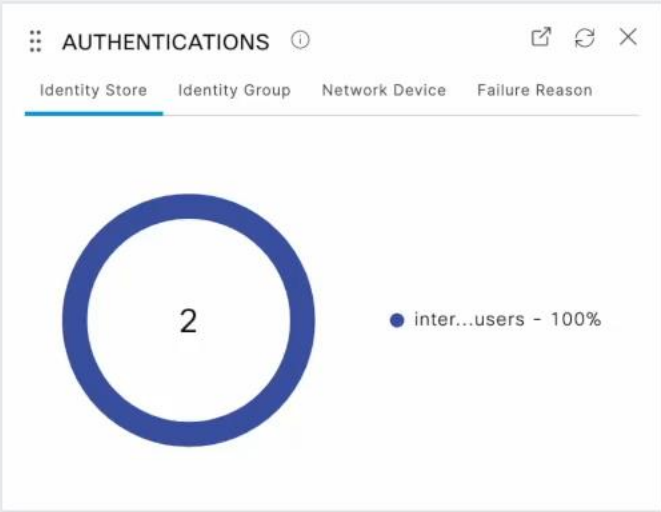
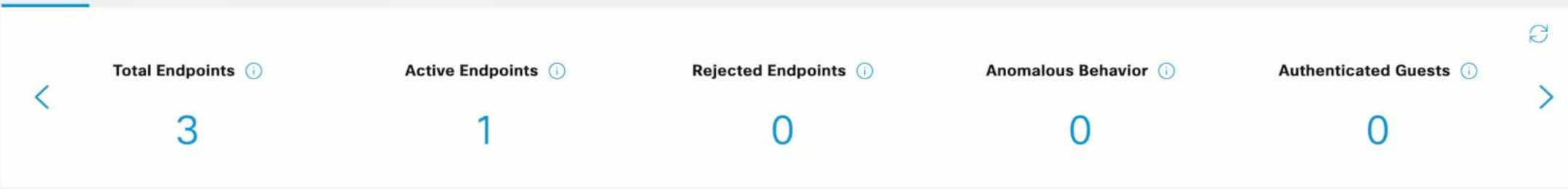
Endpoints

Guests

Vulnerability

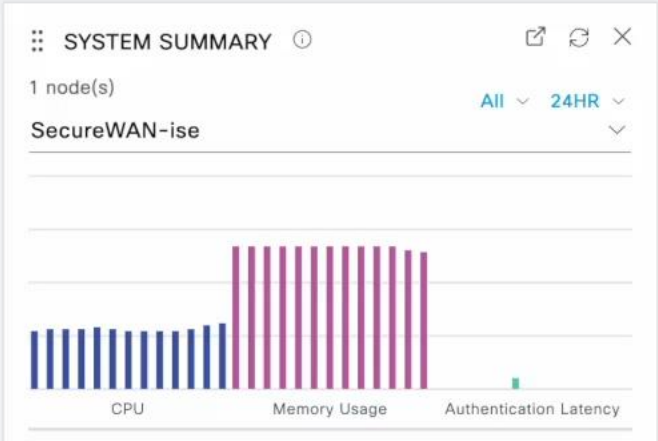
Threat

Manage



ALARMS

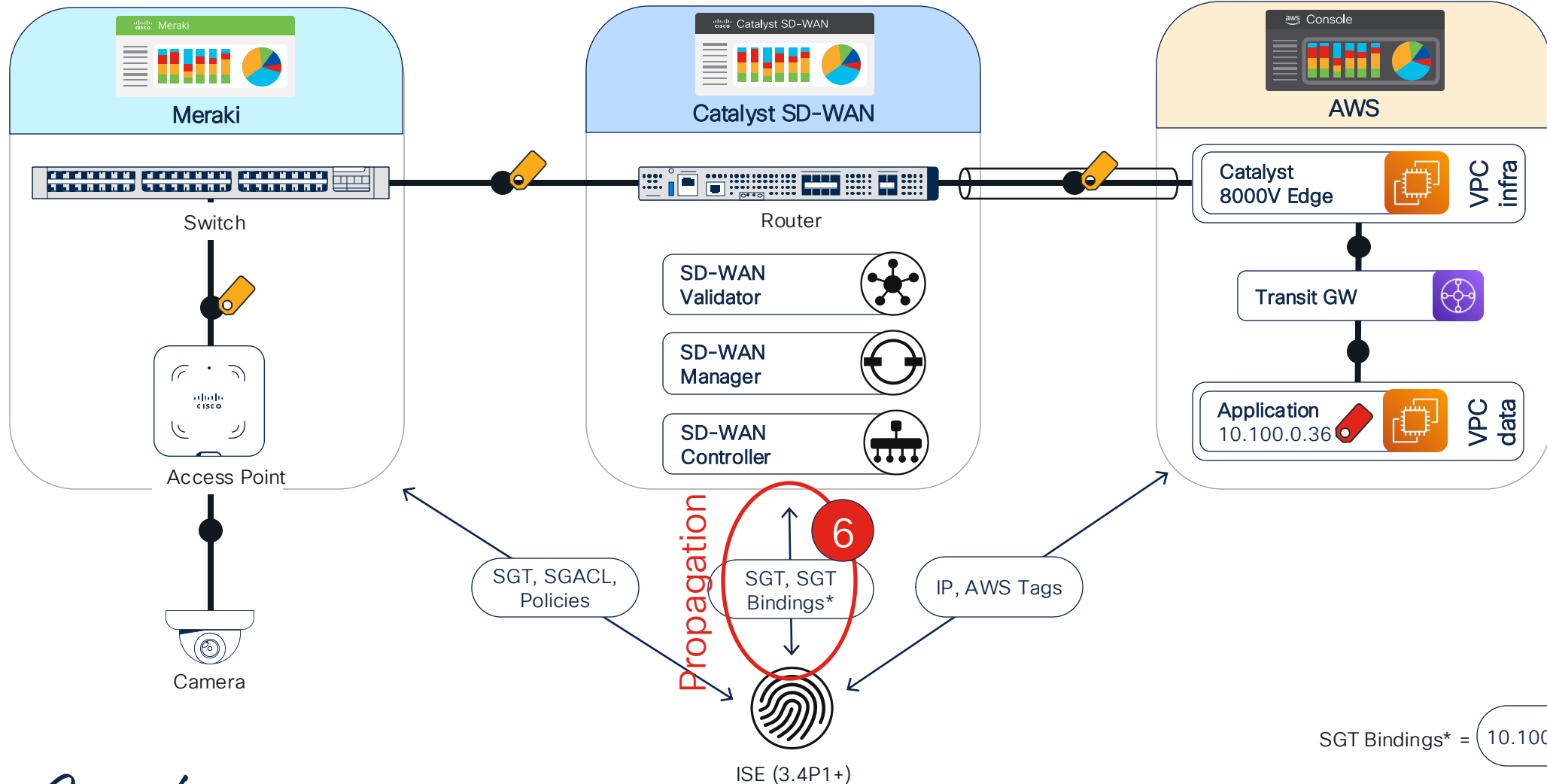
Severity	Name	Occu...	Last Occur
	Name		
	DNS Resolution Failure	2261	2 mins ago
	ISE Authentication In...	10363	2 mins ago
	Configuration Changed	1769	1 hr 21 mins



Secure Cloud access

Propagation of EC2 classification

- Data plane
- SGT Cameras
- SGT Production_Server
- Packet





Monitor



Configuration



Analytics



Workflows



Tools



Reports



Maintenance



Administration



Explore

Monitor

All Sites ▾

Overview

Devices

Security

Multicloud

Tunnels

Logs

Energy Management

Applications

Sites



Control Components

1

Validator

1

Controller

1

Manager

WAN Edges

20

Reachable ✓

4

Unreachable ✗

Sites

13

Up ↑

6

Down ↓

Circuits

18

Up ↑

12

Down ↓

Certificate Status

0

Warning ⚠

0

Invalid ✗

Licensing

2

Assigned ✓

26

Unassigned ⚠

Reboot

4

Last 24 hrs

1 Hour ▾

Actions ▾

Application Experience

QoE

Usage (Total)

Top 20 by usage ▾

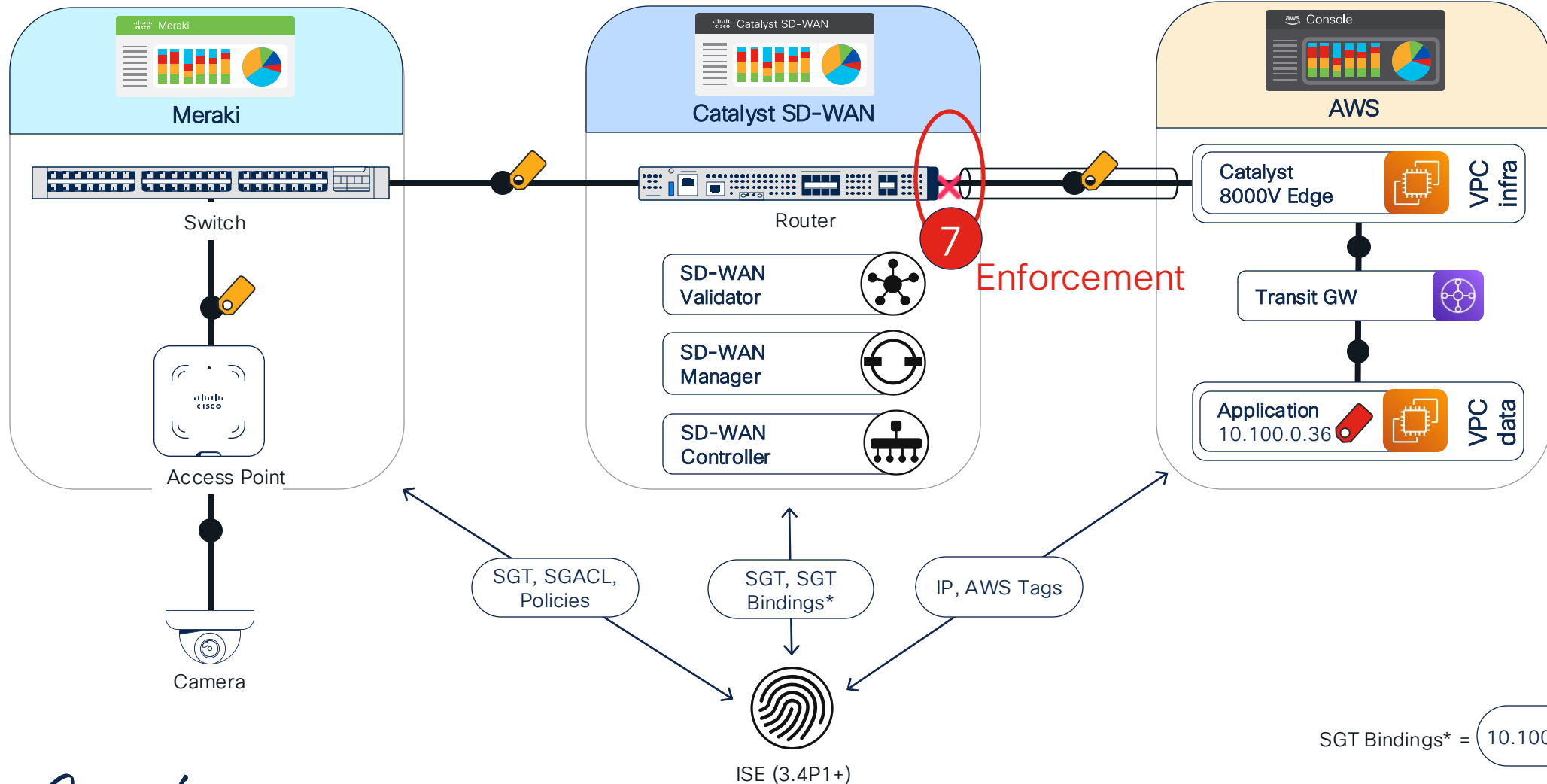
Top 20 by usage 1 GB

[View Details](#)

Secure Cloud access

Enforcement via NGFW on SD-WAN Edge

- Data plane
- SGT Cameras
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Sites

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Up ↑

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Down ↓

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Up ↑

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Down ↓

Certificate Status

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Warning ⚠

0

Invalid ✗

Licensing

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Assigned ✓

26

Unassigned ⚠

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4

Last 24 hrs

1 Hour ▾

Actions ▾

Application Experience

QoE

Usage (Total)

Top 20 by usage ▾

Top 20 by usage 2 GB



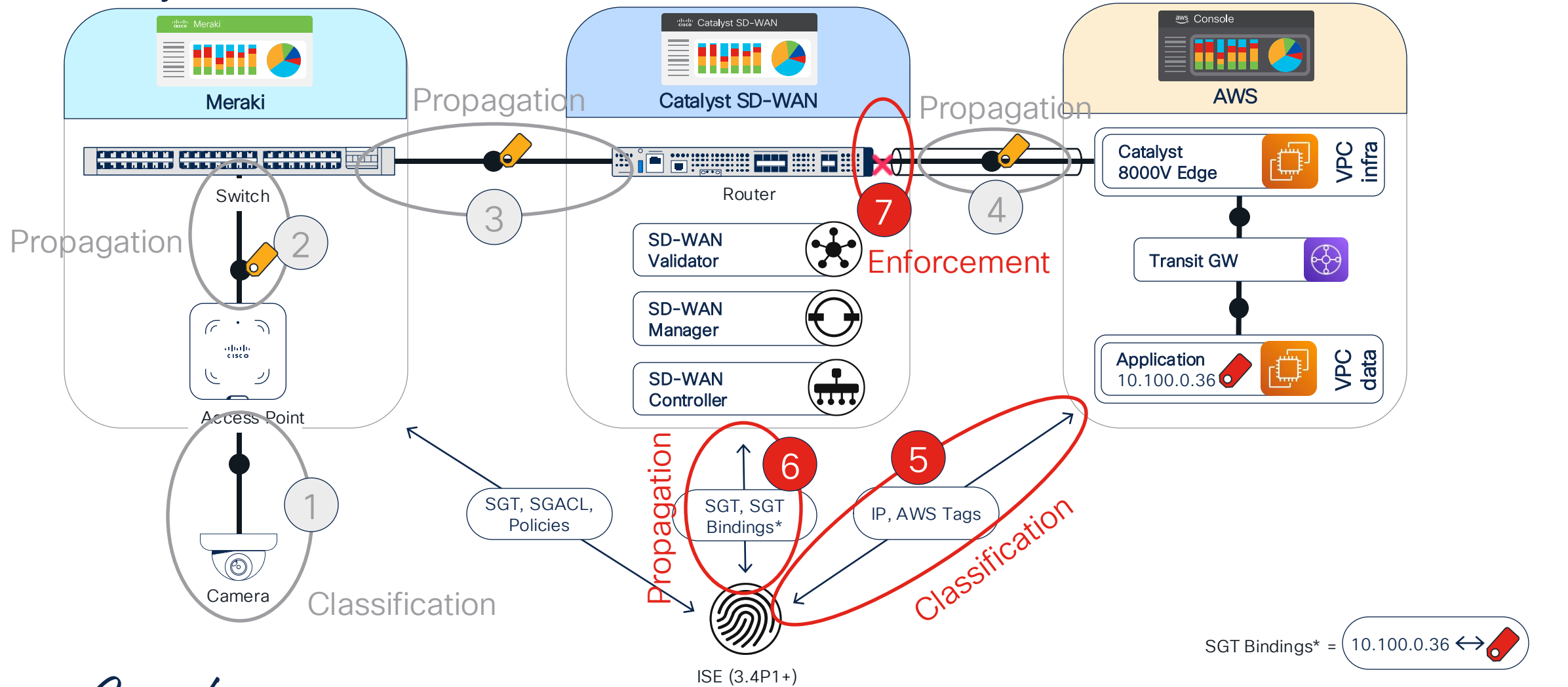
0.8GB

0.6GB

[View Details](#)

Secure Cloud access

Summary



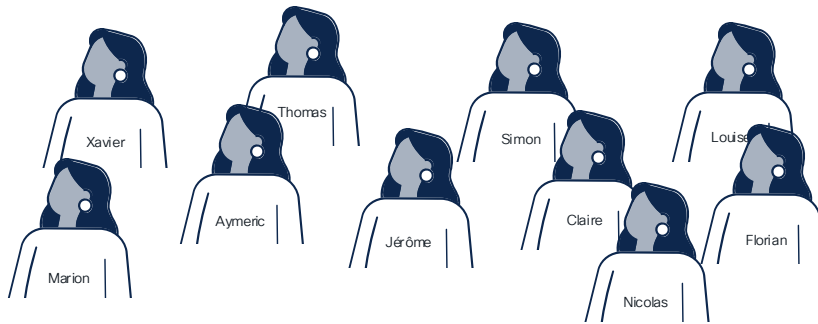
Key takeaways

On ne peut pas imaginer un Cisco Connect sans badges

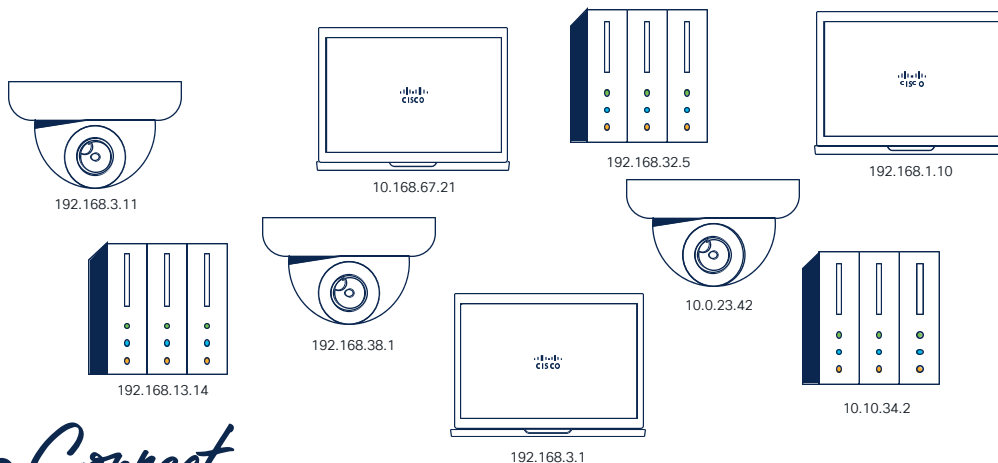
Imaginez votre infrastructure avec Common Policy

Without Common Policy

Cisco Connect



Infrastructure



cisco Connect

With Common Policy



Go Beyond with Cisco CX !

Meet us
@World of Solution
Booth

Premium Support			Solution Attached Services		Lifecycle Services
	Service	Case	Service	Use Case	Example Activities
User Protection Protect users from any location, accessing applications anywhere, with frictionless zero-trust secure access	SWSS Premium	Guidance on user security software from set up assist with device trust, discovering devices and users on the network, secure access, and onboarding and configuration of Cisco Secure products in the environment with facilitation 3rd party product secure interoperability	SAS Secure Access	Securely adopt secure access-based technology to protect distributed workforce's access from any device, anywhere. Phased migration with configuration porting, intent mapping, and data plane transition	Configuration of advanced malware protection on Secure Firewall, Secure Email, and Web-Security bringing deeper visibility into network-level and network-edge threat activities. Activities include accelerating secure network access, SASE advisory
	Success Tracks Cloud and Network Security	Visibility of NGFWs HW devices across cloud and hybrid environments to ease contract management in one platform	SAS ISE	Securely adopt a zero-trust strategy by using experienced security strategy, analysis, and best practices to accelerate the safeguarding of the network along with implementation for endpoints and access ports, tuning and stabilization of ISE production environment, and evaluating implementation issues	
	Success Tracks Zero Trust	Support ISE's role in supporting zero trust capabilities via one platform to view all ISE SNS appliances	SAS Firewall	Securely adopt technology to monitor and protect your network from unauthorized access. Adopt Firewall to fully-utilize advanced capabilities including secure workload integration	



Thank you