

Navigating the Path to Zero Trust

Strategies for Migrating to ZTNA

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Zero trust isn't a product, it's an approach



Principles



Strategy



Architecture



Capabilities



Technologies



Features

Zero Trust principles

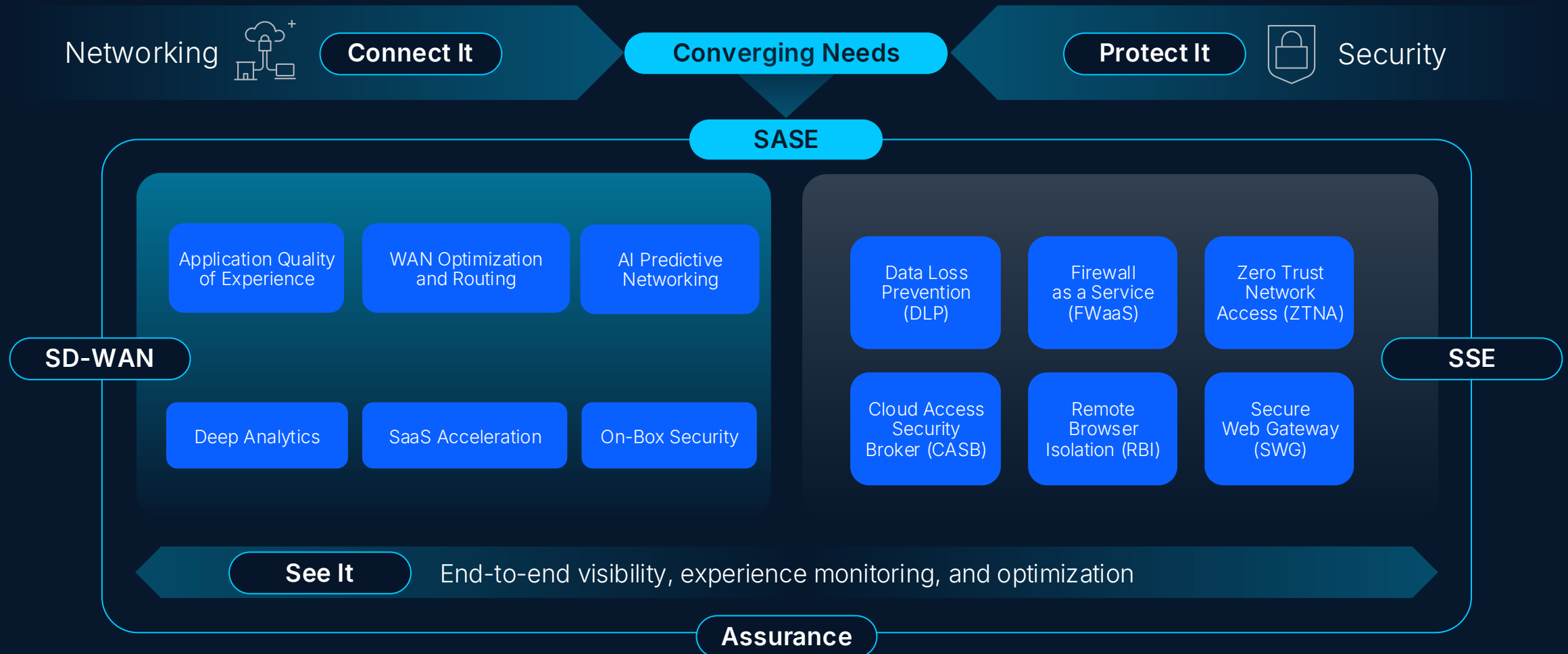
- 1 Never assume trust
- 2 Always verify
- 3 Enforce least privilege

Zero Trust success factors

- 1 Respect user privacy and user experience
- 2 Adjust policy to risk
- 3 Consistent experience across environments

Secure Access Service Edge (SASE)

Single vendor SASE from Cisco helps you see it all, protect it all, and perform everywhere.



Modern Zero Trust Access Design (ZTNA)

Architectural components



Next generation
protocols



Identity
aware proxy



Micro-
segmentation



Synthetic
addresses



Native
OS support



Network
isolation



Flexible cloud/app
connectivity options



TPM certificate
protection

ZTA for the ultimate in secure private access

Least privileged access

Efficient and secure access
to all private apps

- ✓ Groundbreaking security
- ✓ Incredibly easy to use
- ✓ Faster than VPN

- Granular user driven access control protects resources
- Frictionless user experience boosts productivity
- Hardware protected keys to strongly authenticate users
- Hide resources to prevent attacker reconnaissance
- Unified dashboard enables operational simplicity
- Optimized latency/throughput for a superior user experience

ZTA: Next Generation Zero Trust Access

Migration approaches & considerations

Key questions to consider as part of defining an ZTNA project

- What is in scope? Private access ONLY or full SSE (incl internet access)? Zero trust for users only, or a wider scope?
- What is the state of the identity stack?
- Do we understand the applications in use in the environment and by whom?
- Is there a current SD-WAN deployment or plans to do so?
- What does our current private access setup look like? Single VPN platform, multiple platforms, policy/access controls
- Do the applications support ZTNA?

Application connectivity types to consider

1

Client to Server

Most applications

ZTNA
support this

2

Server to Client

Some legacy applications
Connectivity being
established server-side
to the client

ZTNA does NOT
support this

3

Client to Client

Client to Client
connectivity, such as two
remote devices

ZTNA does NOT
support this

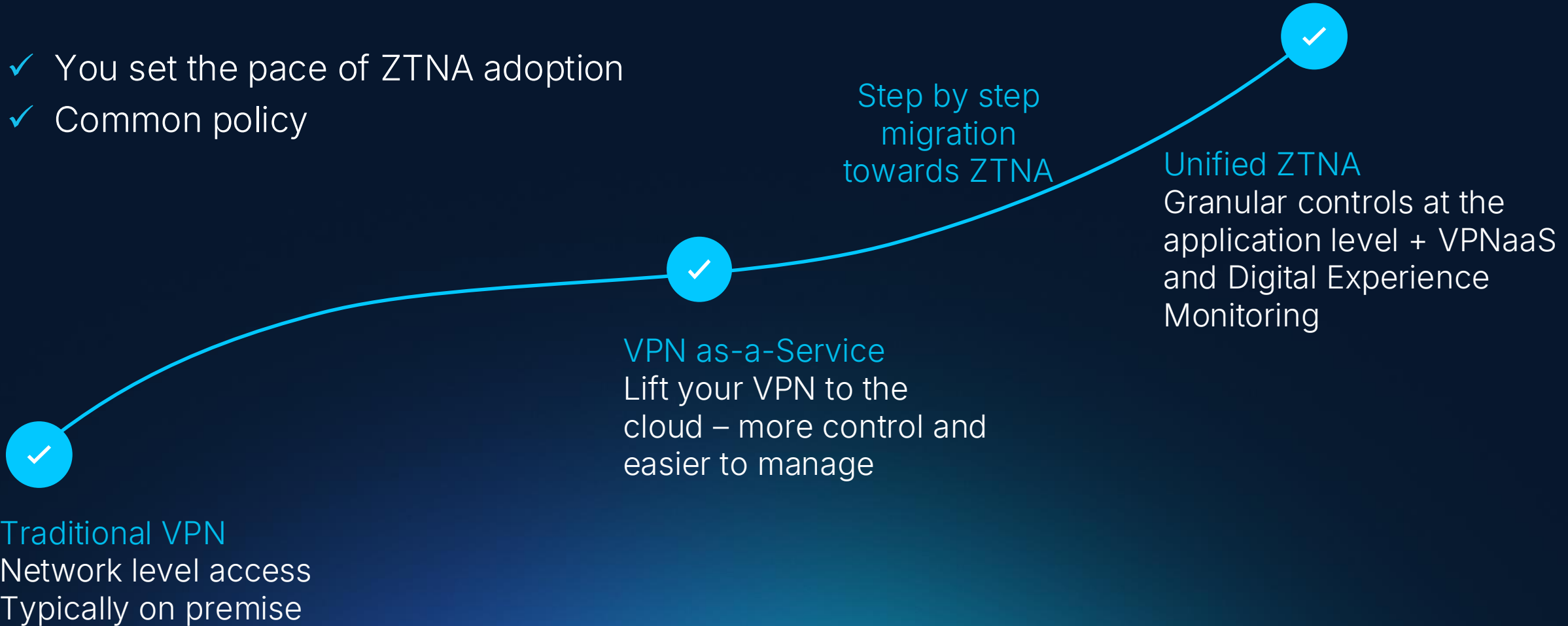
How do you handle these 2 use cases?

How to handle these use cases

- Decommission legacy applications
- Application/tool migration
- Split strategy
 - VPNaaS utilised alongside ZTNA

Easy migration to Zero Trust Access

- ✓ You set the pace of ZTNA adoption
- ✓ Common policy



Project considerations

Phased deployment

- Start small
- Platform validation
- UAT testing
- Deployment ring approach

Testing different user personas

- Include users from as many parts of the business as possible early to ensure different applications are tested

Collating feedback

- Ensure there is a clear process to enable end users to easily provide feedback
- Often little issues are not shared by users

Cisco Secure Access

Go beyond core Secure Service Edge (SSE) to better connect and protect your business

Core SSE



Secure Web
Gateway
(SWG)



Cloud Access
Security
Broker (CASB)
and DLP



Zero Trust
Network
Access (ZTA)



Firewall as a
Service
(FWaaS) and
IPS

Cisco delivers the core and more in a single subscription...



DNS
Security



Multimode
DLP



Advanced
Malware
protection



Sandbox



Talos
Threat
Intelligence



VPN as a
Service



Digital
Experience
Monitoring



Remote
Browser
Isolation

Add-on solutions



SD-WAN



XDR



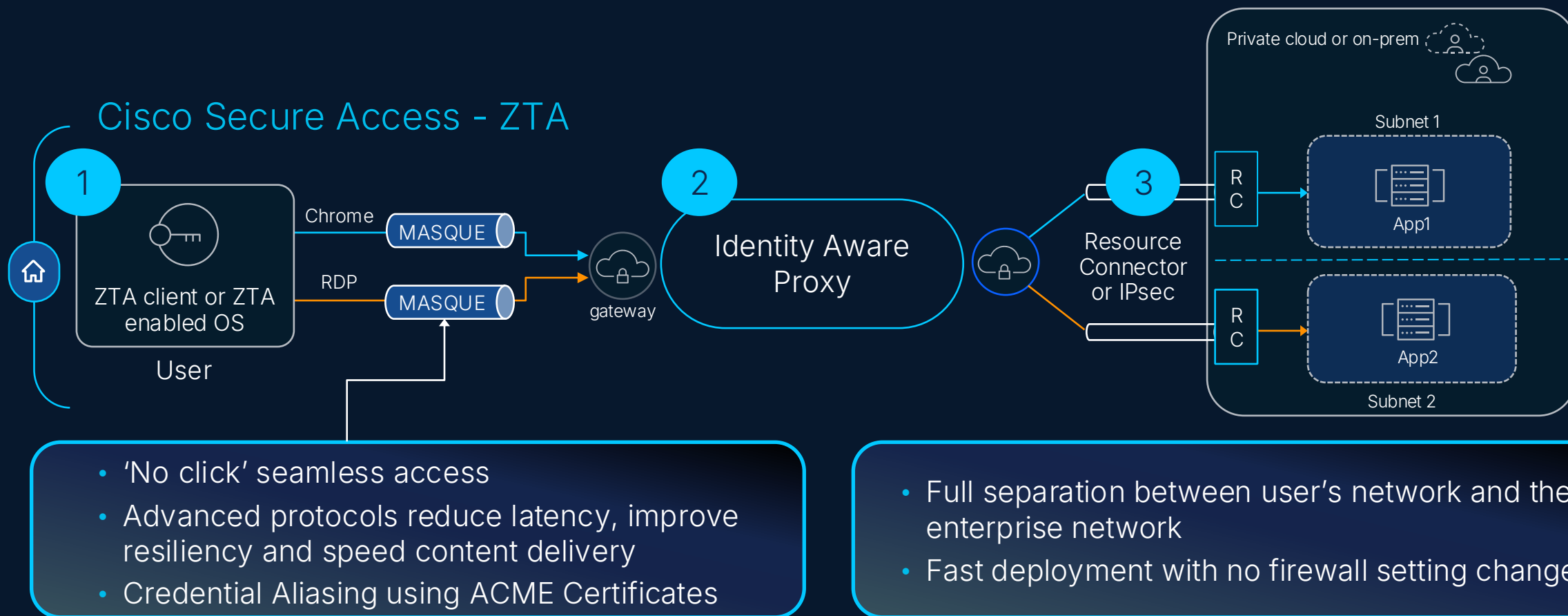
DUO MFA/
SSO



SSPM

How do we do it? MASQUE & QUIC Proxying!

Seamless and Secure Access for all users



Universal ZTNA from Cisco

**Same optimized experience
Enabled by the network**

Unmanaged
devices



Managed
devices



People



Things



Powered by
Identity Intelligence

Internet apps

Private apps

Traditional apps

SaaS apps

Remote

Remote

Campus

Branch

Airplane

Oil rig

Stadium

Field

...

Cisco's Universal ZTNA

Secure
SD-WAN

+

Security
Service Edge

+

Trusted
Identity Edge

SINGLE VENDOR SASE

End-to-end Assurance with ThousandEyes

Security Cloud Control

Cisco's Unified SASE Management

Secure SD-WAN

Cisco SD-WAN



Secure Services Edge

Cisco Secure Access



Identity First

DUO + Identity Intelligence



Streamlined Management

One platform to manage SASE operations



Consistent, Advanced Security

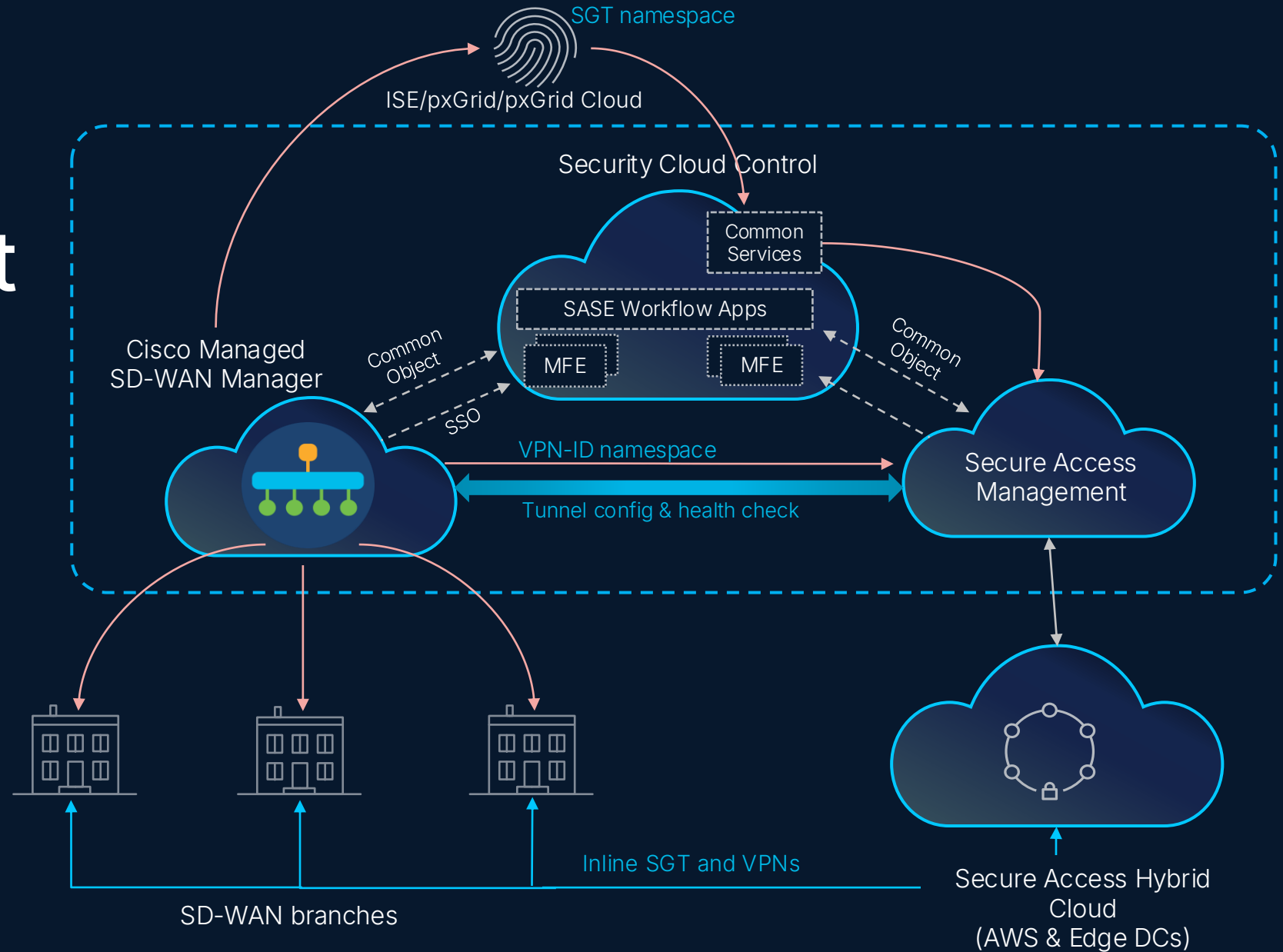
Centralized policies, enforced uniformly



End-to-End Visibility

AI-powered insights across users, apps, devices

Cisco SASE with Catalyst



Cisco SASE with Meraki

