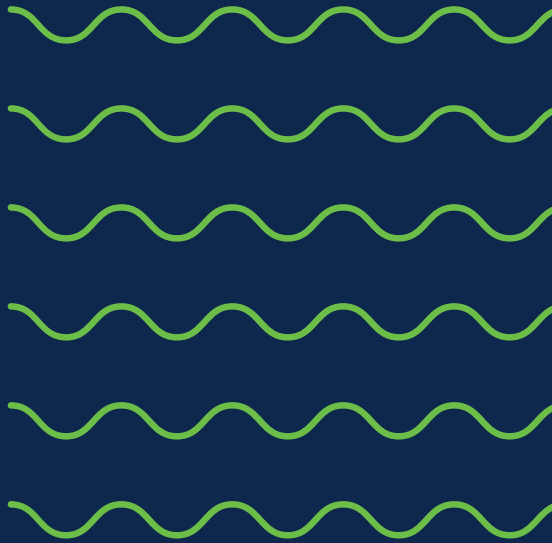
CISCO
SECURE

CISCO The bridge to possible

Security Reference Architecture with Use Cases version 2.0.1



Global Security Architecture Team
February 2022

CISCO SECURE

Security Reference Architecture

Talos — Threat Intelligence | Malware Analytics | Actionable Intelligence | Unmatched Visibility | Collective Responses

Security Operations

SECURE X (XDR)

- Managed Detection and Response Services
- Security, Orchestration, Automation and Response
- Incident Response and Remediation Services
- Threat Visibility & Hunting
- Device Insights
- Kenna Vuln Mgmt
- Secure Cloud Insights
- 3rd Party Integrations

User/Device Security

ZERO TRUST WORKFORCE

Adaptive MFA | Passwordless | Trust

- Duo Secure Access
- Secure E-mail

SASE/REMOTE WORKER

Unified Client | EDR | Cloud Managed

Cisco Secure Client

- VPN
- Posture
- Telemetry
- Threat
- Query

ThousandEyes (Visibility)

Network Security

Cloud Edge

SECURE ACCESS SERVICE EDGE (SASE)

Threat Protection | Secure Access Control | Managed Remote Access

Umbrella/Duo

- ZTNA
- DNS-layer security
- Secure web gateway
- L7 firewall + IPS
- Cloud access security broker/ shadow IT
- RAaaS
- SSL decryption
- Remote browser Isolation
- Data loss prevention
- Cloud malware detection

PRIVATE CLOUD EDGE (MSP or CUSTOMER)

Reliable | Scalable | Flexible

SDWAN

- Meraki SDWAN
- SDWAN by Viptela
- Secure Firewall
- ThousandEyes

On-Premises

SASE/SDWAN

Scalable | Flexible | Visibility | Comprehensive Security

Network Edge

- Meraki SDWAN
- SDWAN by Viptela
- Secure Firewall
- ThousandEyes

IoT/OT SECURITY

Secure Critical Infrastructure | Unified IT and OT

- Industrial Router
- Industrial Firewall
- Industrial Switch/AP
- Cyber Vision
- ISE TrustSec

ZERO TRUST WORKPLACE

Segmentation | Identity and Context | Profiling | Containment | Encrypted Visibility

- Security Analytics and Logging
- Secure Firewall
- DuoCloud SSO+IDP
- Network Gateway
- Secure DDoS
- Meraki Full Stack
- Secure Network Analytics
- ISE TrustSec
- Cisco DNA Center
- Secure Web Appliance

Application Security

ZERO TRUST WORKLOAD

Policy | API Security
Application Segmentation
Run-time Application Security

Application Security Stack

- Cloud Native Security
- APIC
- Secure Workload
- Secure Application by AppDynamics

App Visibility | Detection | Response

- Hybrid Private
- Public Cloud*
- Secure Cloud Analytics
- Secure Firewall
- ThousandEyes

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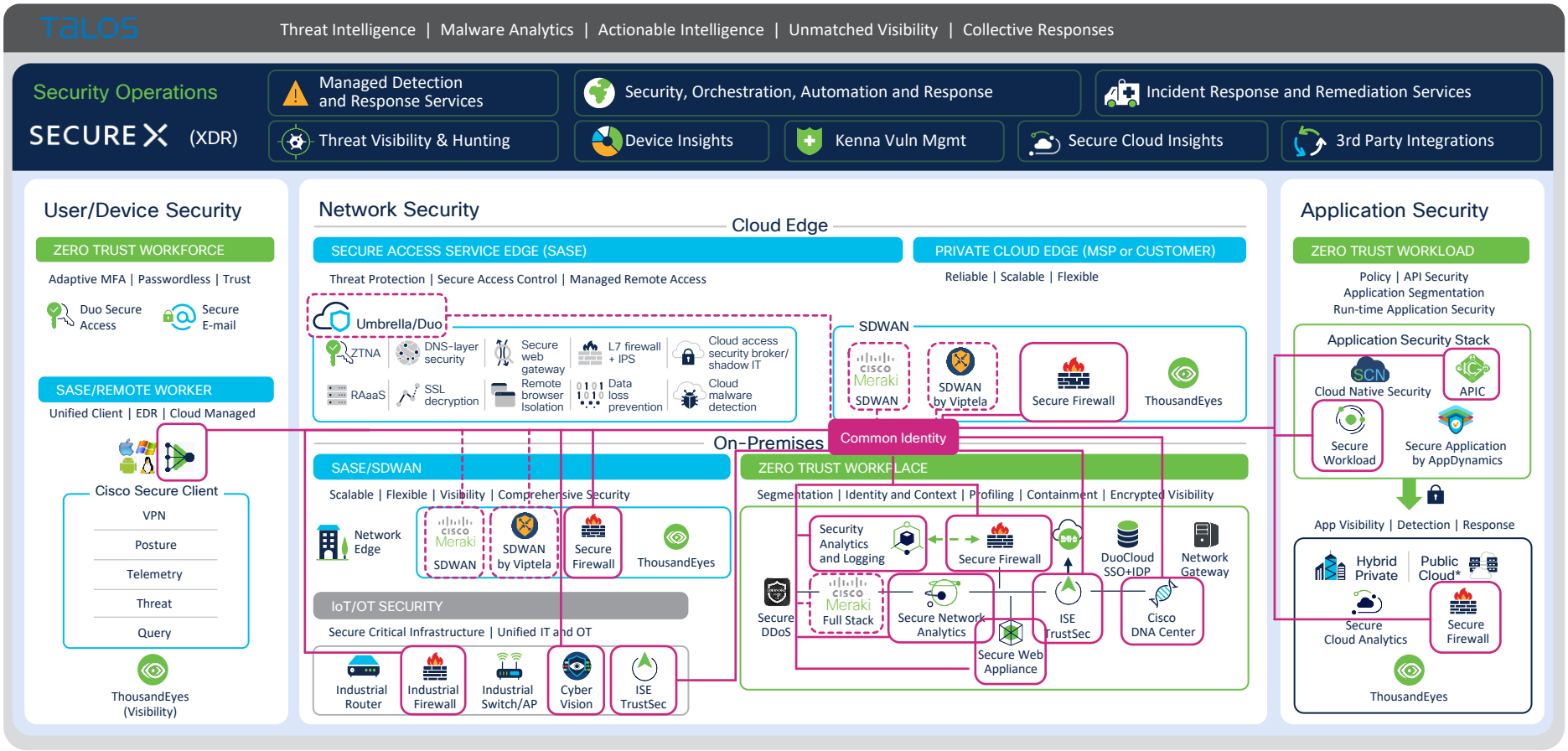
Security Reference Architecture

Use case: Common Identity / Endpoint Information



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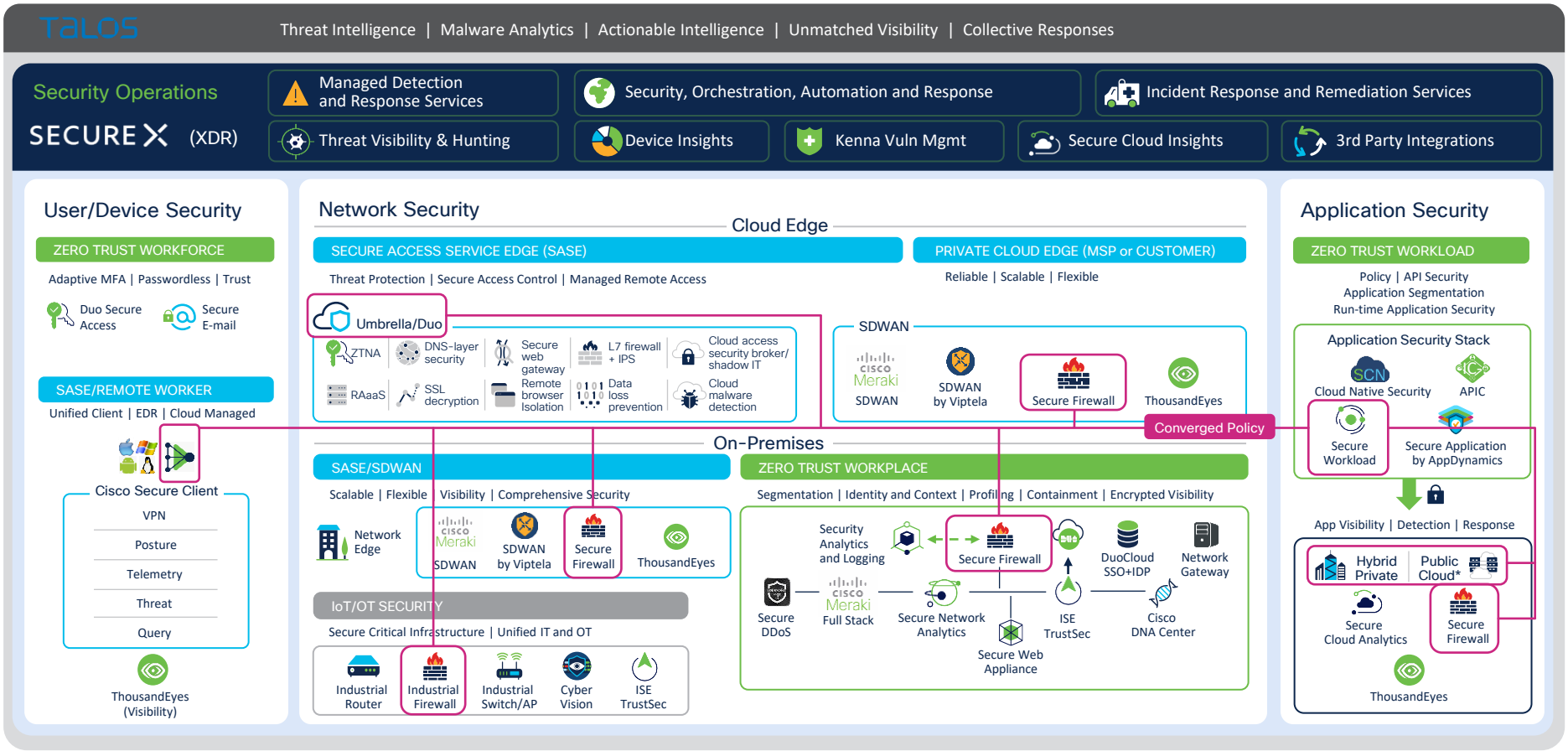
Security Reference Architecture

Use case: Converged Multi-Cloud Policy



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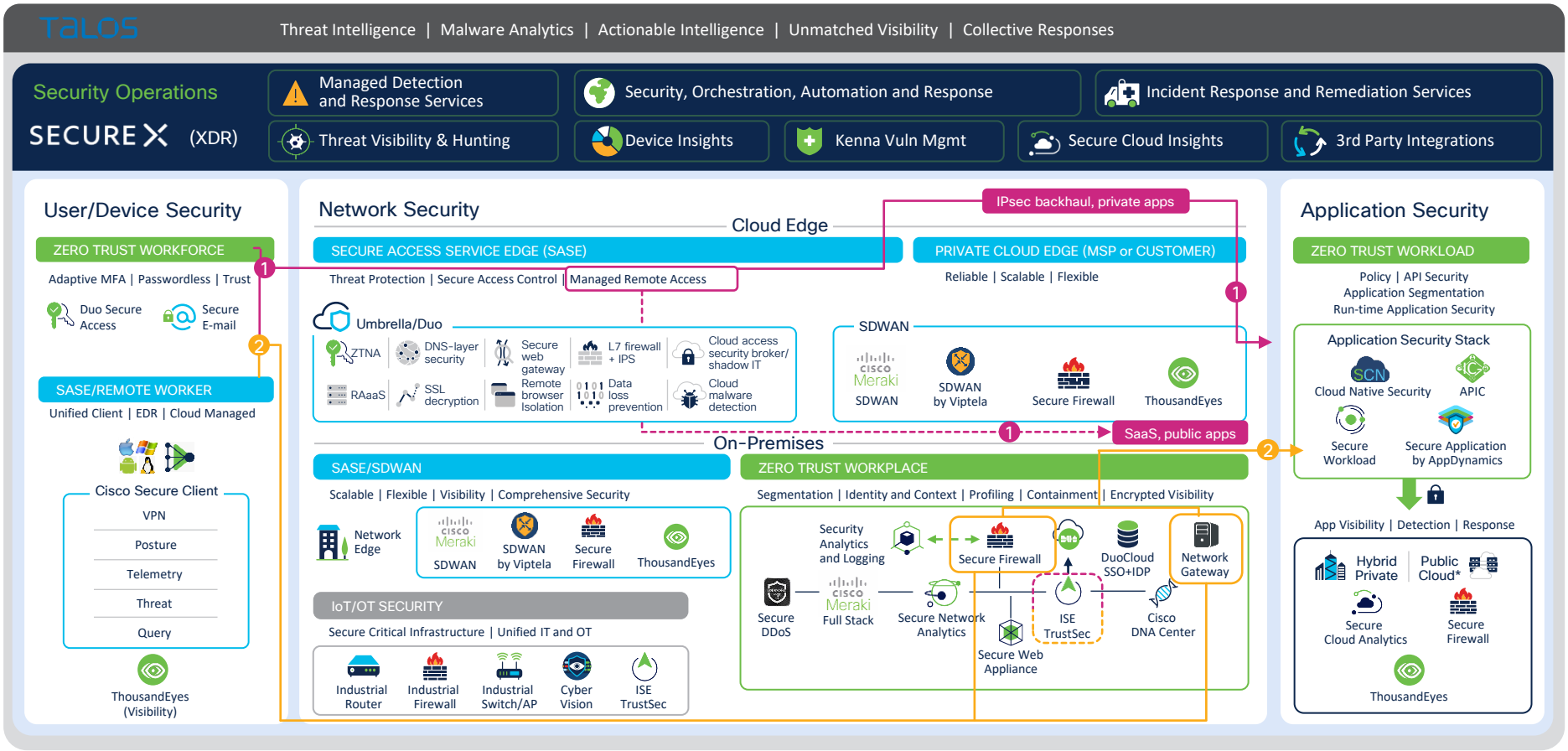
Security Reference Architecture

Use case: Zero Trust Network Access (ZTNA)



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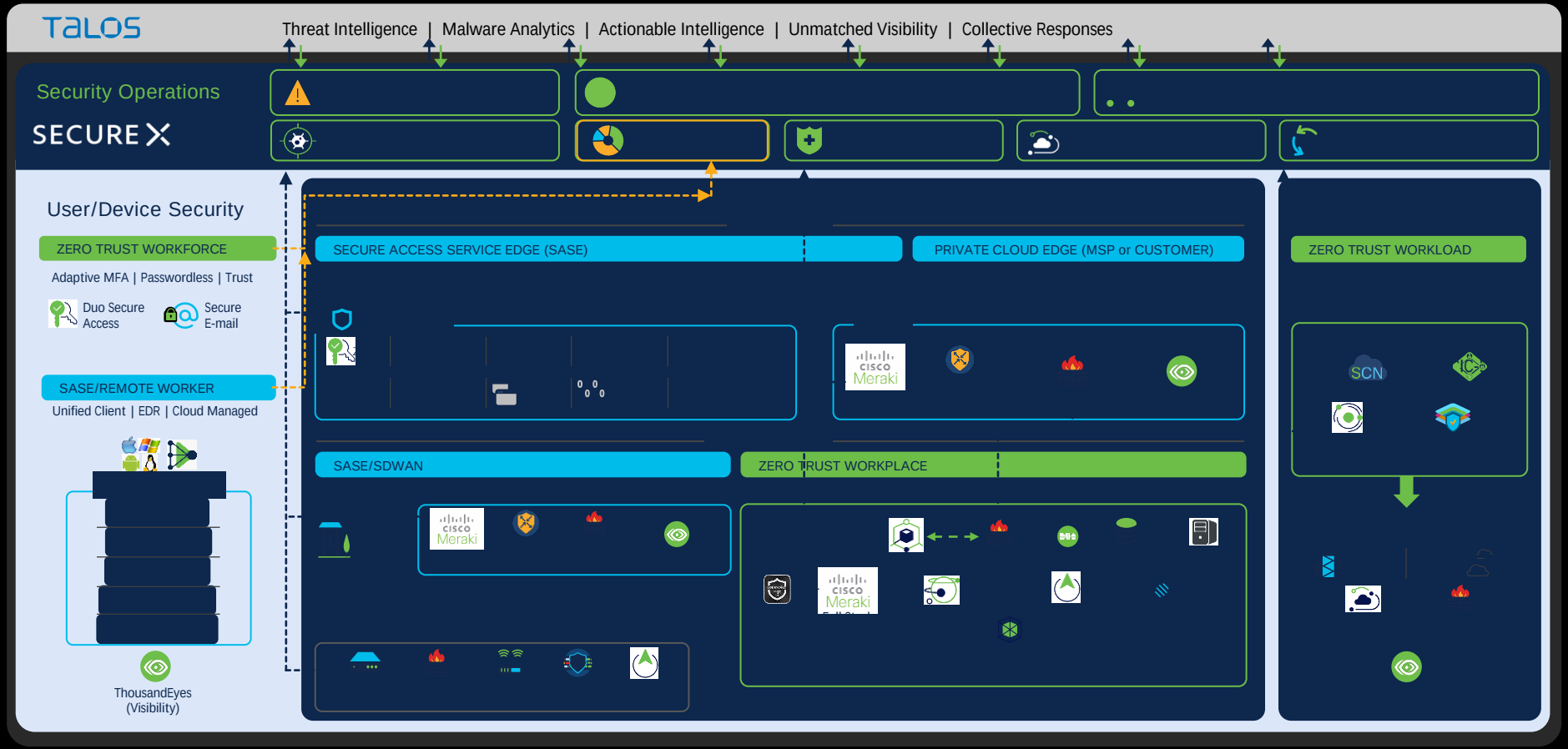
Security Reference Architecture

Use case: SecureX Telemetry



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Security Reference Architecture

Use case: SecureX Orchestration