



Ciberseguridad SASE para alineamiento con la Directiva NIS2





Alberto Pérez | SASE Business Development South Europe | alberto.perez@hpe.com

context.selected_objects[0]
bjects[one.name].select = 1

x = False

please select exactly two objects,

Today's Common Challenge Business Happening, Everywhere

People & Things

- Home
- Restaurant
- Cameras
- Machines

- Office
- Sensors
- POS
- BYOD

Applications

- SaaS Selectors ► Microsoft 365 ★ 🐈 f ▶ zoom
 IaaS/PaaS 🔥 🐠 G
- Hybrid: staying on-prem in the DC

Connectivity

- Broadband
- FITH
- Satellite
- Cellular
- MPLS



Users think security hinders performance, innovation and productivity

3/4

Business is Throttled

68%

Business leaders feel their security exposure is increasing

Business is at Greater Risk

Employee Challenges – Modern Workplace

Internet Access and SaaS Applications

- Internet access without security or control
- Over 90% of Internet traffic is SSL-encrypted including malware
- Difficult to handle authentication with new generation SaaS applications
- Impossible to control the information stored in SaaS
- Migration to SaaS apps is complex

Internal Applications Access

- Attack Surface
- Least Privilege Access
- Attaching Employees into the network
- VPN issues
- Traffic backhauling suboptimal
- Distribution / Provisioning of applications is laborious and difficult to maintain

Employee Security without a Perimeter

- Users surfing the Internet or accessing applications outside our perimeter are highly exposed
- Difference in security policy in DC/HQ vs. Rest
- Difficult-to-manage personal information policies and complex regulatory compliance
- Need for different layers of security that are not necessarily integrated

User Experience

- Segmented visibility across multiple platforms and possible blind spots
- Complex Troubleshooting
- Differentiated performance Inside vs. Outside HQ/DC
- Difficulty integrating with support tools, experience measurement and nextgeneration APIs
- Multiple user experiences depending on the Device

Multiple devices, IoT, OT...



Enterprise Challenges

Data Security

- Inability to adequately manage all sources containing company data
- Legal issues with respect to security or compliance mandates

Application Provision and Cloud Migration

- Point to multi-point connections required
- Difficulty orchestrating multivendor, multi-region or hybrid applications

Contractor / 3rd Party Access

- Access to corporate applications from nonplatform devices
- Difficulty or impossibility to deploy agents.
- Extranet or point-to-point VPN required

Secure IoT devices

- Highly inefficient network segmentation unable to provide security in connected IoT/OT environments
- Inability to manage differentiated roles for users and IoT/OT

Cost and Architecture

- Complex and inefficient architectures
- The network do not scale adequately, are unable to adapt and rely on protocols not ready for today's env.
- Perimeter and hardwarebased security

Business Agility and Merge & Acquisition

- Need for integration of complex systems
- Working access with overlapping IP space
- Access to infrastructure needed for new employees with non-platformed PCs

Productivity

- Very low capacity to adapt to the business or service.
- Inefficient architectures highly linked to hardware renewal.
- Limited operational efficiency due to difficulties in provision, mgmt. and troubleshooting.

Visibility

- No visibility into network, apps. and user performance
- Lack of vision regarding the use of the applications
- Impossible to understand employee usage patterns to propose improvements



The regulatory landscape has made it harder to protect my business

NIST SOC2

ISO 27001 / 27002

NIS2

ENS

Common Criteria

DORA

NERC-CIP

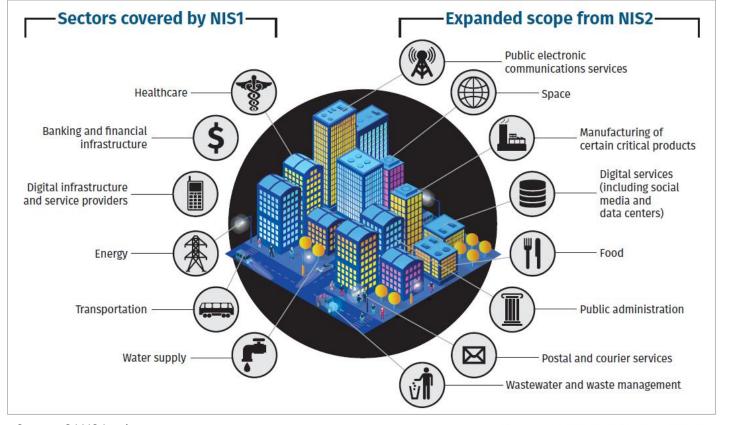
GDPR

FISMA

HIPAA

| EU NIS 2 Scope- Essential and Important Entities – 50+ employees / 10M€+

(1 Million + enterprises and administrations are directly or indirectly are impacted)

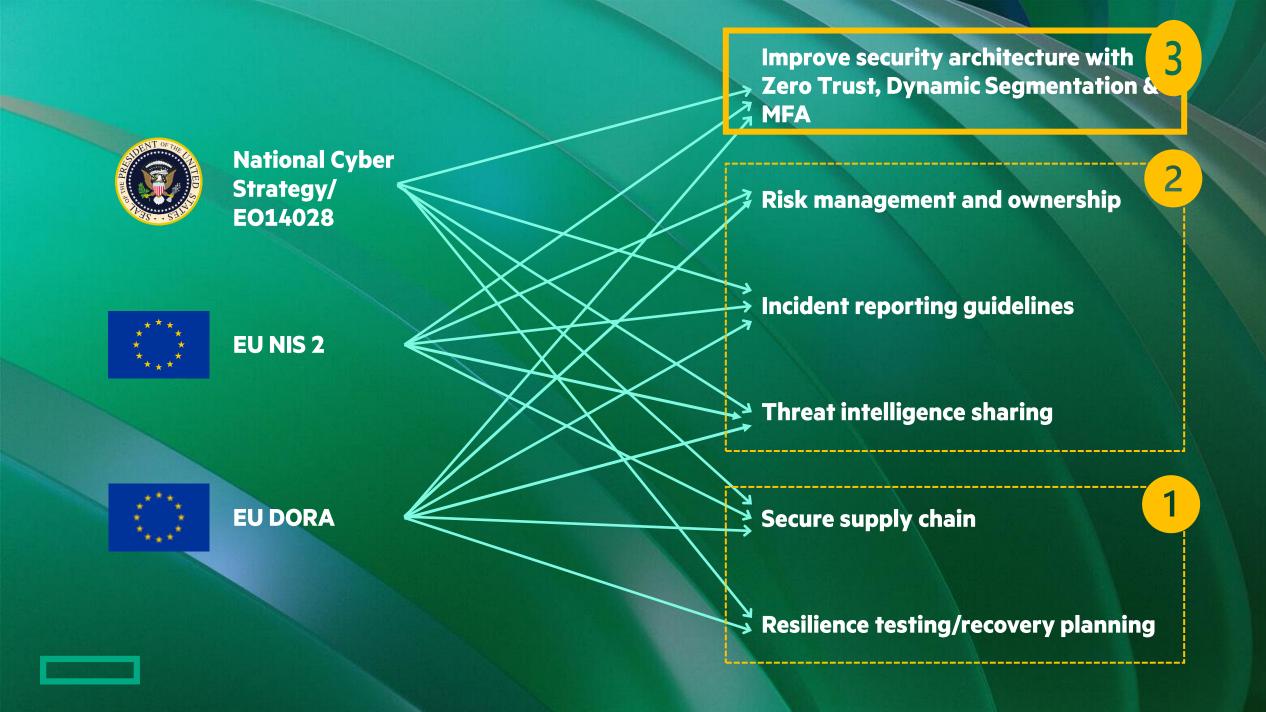


Source: SANS Institute

Figure 4. NIS2 In-Scope Sectors

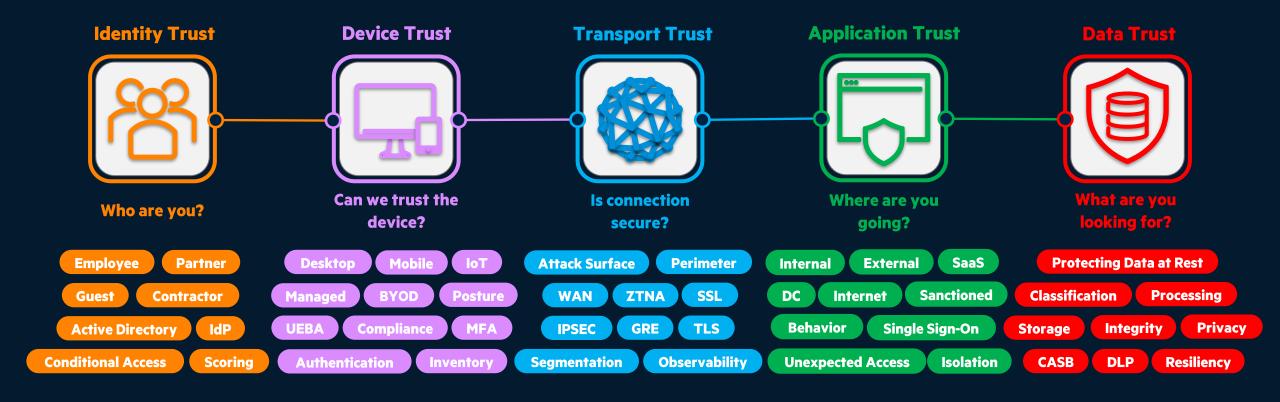
* Fines of a maximum of at least 10 M€ or 2 % of the total worldwide annual turnover = GDPR





Activating Zero Trust principles intrinsically across all networking

Zero-trust security is a framework built around the concept of least-privileged access, in which no user or application should be inherently trusted.



Zero Trust Security

Zero Trust principles cannot be applied to islands of innovation. A holistic approach is mandatory

Zero Trust Security

Unified SASE

Multi-Cloud Native SaaS Platform

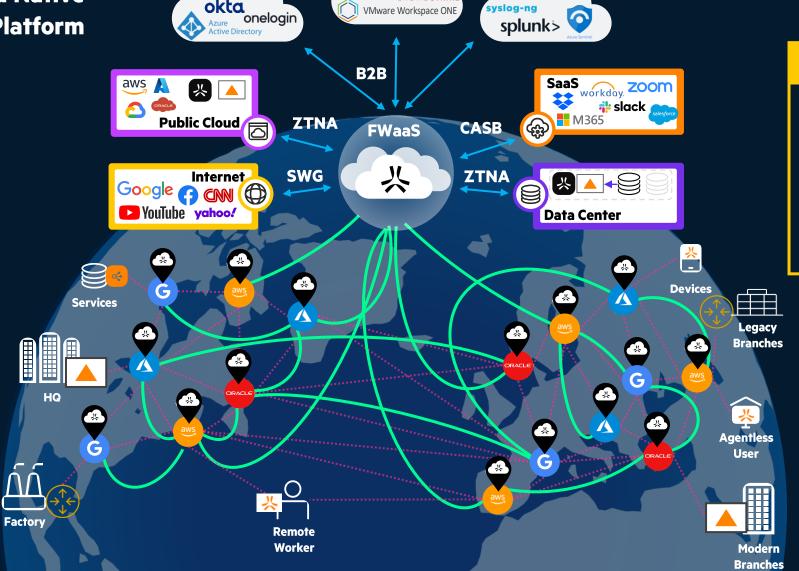
EDR Microsoft SIEM IDP Ping Identity €√7 LogRhythm SentinelOne CROWDSTRIKE okta syslog-ng VMware Workspace ONE splunk> 💿 onelogin

Remote Worker

Agent / Agentless All OS Supported **Unlimited Traffic Unlimited Devices** SDWAN Embedded All PoPs Included

SDWAN

Business Intent Overlays SD-WAN Fabric Orch. Path Conditioning and QoS App visibility and control Zero Trust segmentation Advanced crypto Zero Touch Configuration



Legacy Branch

Legacy Router / FW Onramp **IPsec Integration** ZTNA / SWG / CASB Services

Transformation Journey with HPE or ubon hetworking

Stream 1:

Smart Digital Workplace



Stream 2:

Zero Trust Remote Access



Stream 3:

Twist Security to Employee Focus



Stream 4:

Network Modernization Multi-Cloud, Branch & Edge



Stream 5:

Reimagine Desktops & Apps with RBI



Stream 6:

Expanding Security
Capabilities



Stream 7:

CI/CD, AlOps, Automations and Integrations



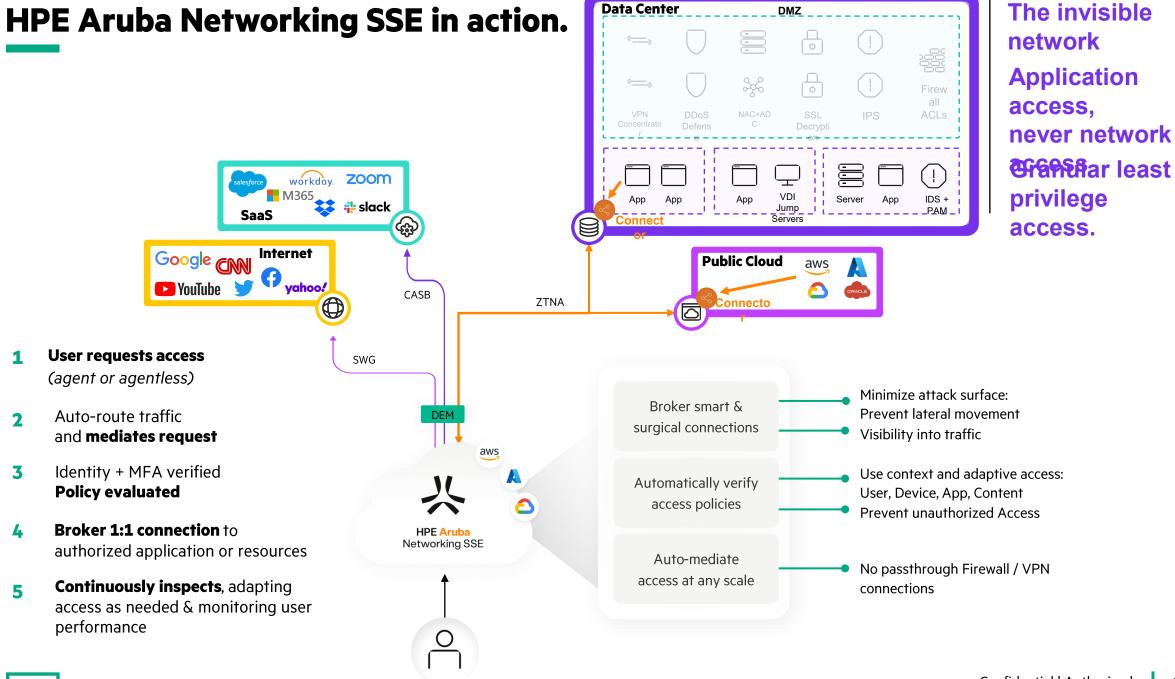
Stream 8:

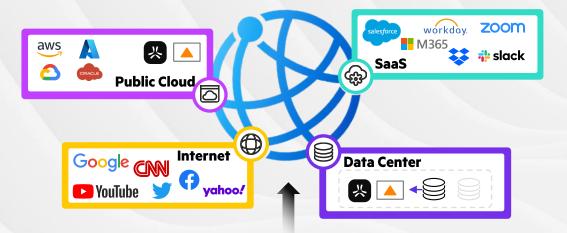
Improving the User Experience in 360°

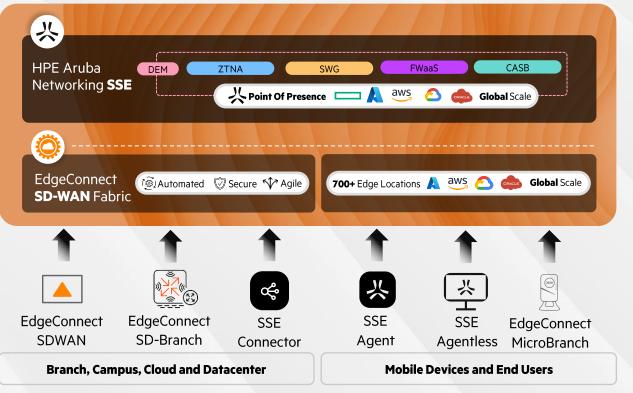


Select where your journey begins

	VPNs	ZTNA 1.0	Aruba ZTNA
Keep Users Off The Network		+	•
Reduce attack surface of infrastructure		+	+
DDoS proof Private Apps		+	•
Application Discovery		+	•
Agentless Web, SSH, RDP, Git, DB, VNC Access			•
• Full SSE Inspection/ Continuous Authorization / Visibility			•
Per app segments, User group pairing			+
Any Port / Protocol (P2P / VOIP, AS400, etc.)			•
Server Initiated Flows / Push Patching			•
Multi-cloud PoP resilience			•
Smart Routing for ZTNA Connectors			•
IPsec Tunnels for ZTNA			•
Local Edge Private POP			•









Multi-Cloud Native SaaS Platform

+Secure

360° Security

+Simple

Easier to Deploy & Operate

+Productivity

Frictionless User Experience in any Use Case













SDWAN

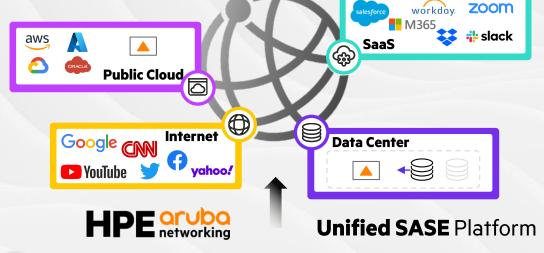
- ✓ Virtual Overlay Architecture (BIOs) ((NIS2
- **Per Packet Traffic Management**
- **Path Conditioning**
- High Scalability & Resiliency
- ✓ Cloud Native Integration (laaS/PaaS)
- SaaS Performance Enhancement
- ✓ Real Time Visibility
- ✓ Advanced Routing (BGP, OSPF)
- **✓** ZTP

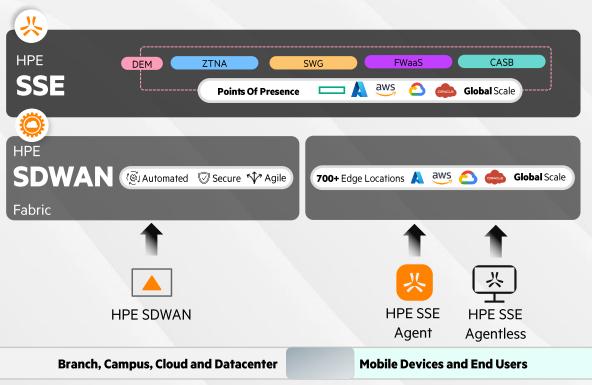
Security

- ✓ Certified Stateful Firewall (L3-L7) ((VIS2
- **DDoS defense**
- ✓ Zero Trust Segmentation
- ✓ VRF Segmentation
- Automated SSE Orchestration

Add-On

- ✓ WAN Optimization
- (((NIS2 Dynamic Threat Defense
- **Multitenant Orchestrator**
- ✓ On-prem Airgap Solution





Private Data

- ✓ Zero Trust Network Access
- Agentless



✓ Discovery

External Data

- ✓ FWaaS
- ✓ Secure Web Gateway
- ✓ CASB
- ✓ Advanced DLP
- ✓ Malware Scan



Operations

- ✓ Dashboard
- ✓ Agent
- **✓** IDP
- ✓ MCN
- ✓ Digital Experience Monitoring
- ✓ Local Edge



✓ Server to Server

Add-On

✓ Sandbox Security Package











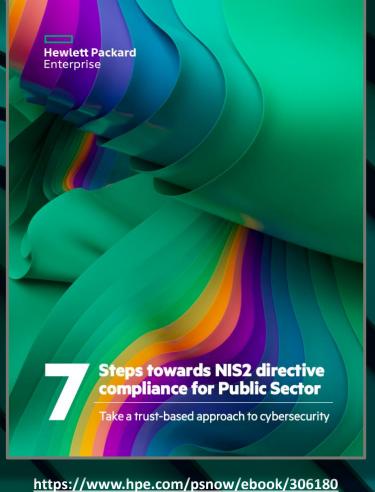








Helpful documents



https://www.hpe.com/psnow/ebook/306180 d2-4609-4110-b476-b7beb01f3677





Thank you

```
x = False
  d.use_y = True
  1.use_z = False
  on == "MIRROR_Z":
 od.use_x = False
 od.use_y = False
 od.use_z = True
 on at the end -add back the desel
 lect= 1
select=1
"Scene.objects.active = modifier_
 ted" + str(modifier_ob)) # modifier
 ob.select = 0
 ontext.selected objects[0]
 lects[one.name].select = 1
please select exactly two objects,
ERATOR CLASSES
```