

The Aruba logo is displayed in a white, lowercase, sans-serif font. The background of the slide is a blurred office scene with three people in business attire standing near a large window. The overall color palette is dark blue and grey.

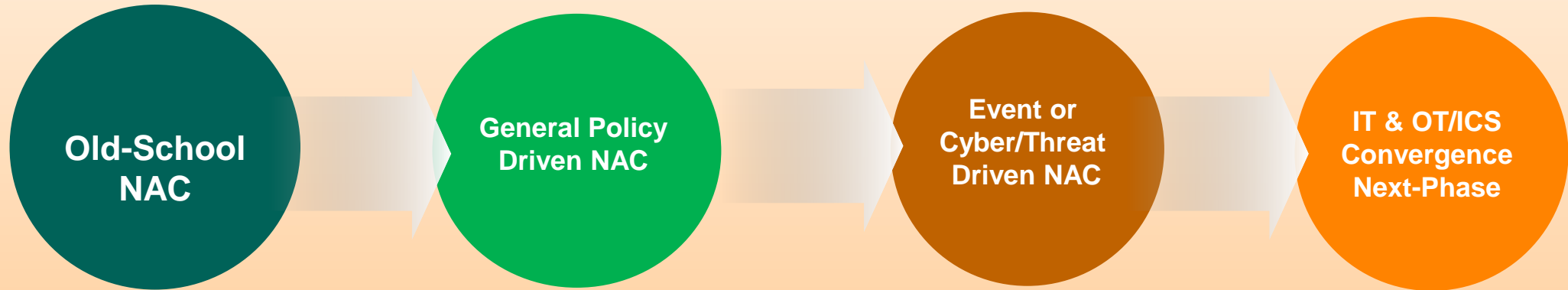
aruba

a Hewlett Packard
Enterprise company

ClearPass Identity and Policy Access

Danny Jump – Product Manager

What's your "NAC" journey looking like?



Danny's three+ 'trimesters' of NAC

You won't find this in Gartner, Forrester, IDC, Ovum....

ClearPass at a Glance



VISIBILITY

- Know what's connected, connecting in your wired & wireless multivendor environment



CONTROL

- Reduce risk and workload through Automation
- All devices are Authenticated or Authorized – NO UNKNOWN DEVICES



RESPONSE

- Adaptive response brokering best of breed security solutions



ClearPass Policy Manager Platform

Guest

Onboard

OnGuard



Hardware, Virtual or Cloud
Deployment
(1,000, 10,000, 50,000)



ClearPass Policy Manager

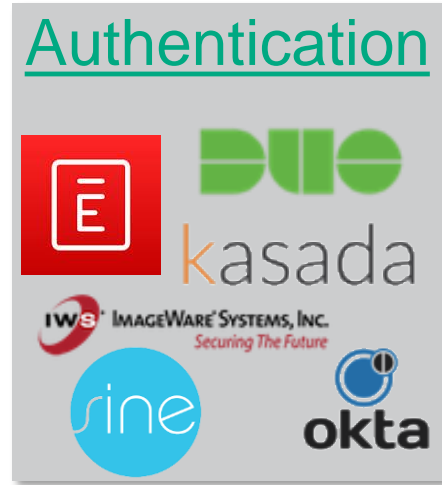
3rd party integrations – why they matter to us...

Firewall



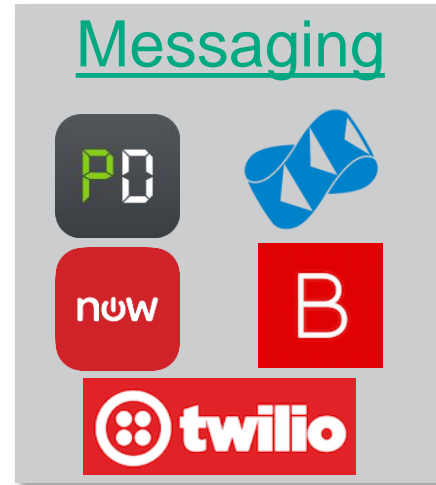
Logos for Palo Alto Networks, Juniper Networks, SonicWall, Forcepoint, Fortinet, and Check Point Software Technologies Ltd.

Authentication



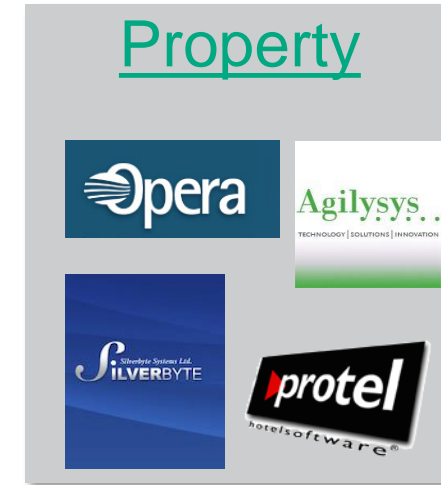
Logos for Duo, Kasada, IWS ImageWare Systems, Inc., Sine, and Okta.

Messaging



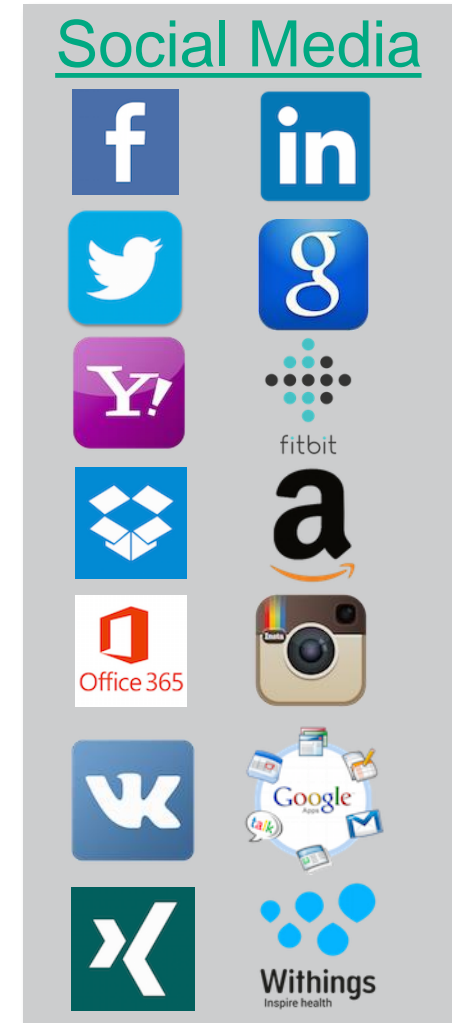
Logos for PD, Now, Twilio, and B.

Property



Logos for Opera, Agilysys, Silverbyte Systems Ltd., and Protel Hotels Software.

Social Media



Logos for Facebook, LinkedIn, Twitter, Google, YouTube, Fitbit, Amazon, Instagram, Office 365, VK, Google+, and Withings.

Logging



Logos for McAfee Enterprise Security Manager, LogRhythm, ArcSight, Splunk, Loggly, and IBM Radar.

MDM



Logos for MobileIron, Citrix, Workspace ONE, Microsoft, Google, Mosyle Manager, IBM MaaS360, SOTI, JAMF Software, and SAP.

Network



Logos for Infoblox, Intel Security, Aruba, Brocade, Tellabs, Alcatel-Lucent, Siemens, and Cisco.

Hotspot



Logos for PayPal, Eway, Authorize.Net, and a globe icon.

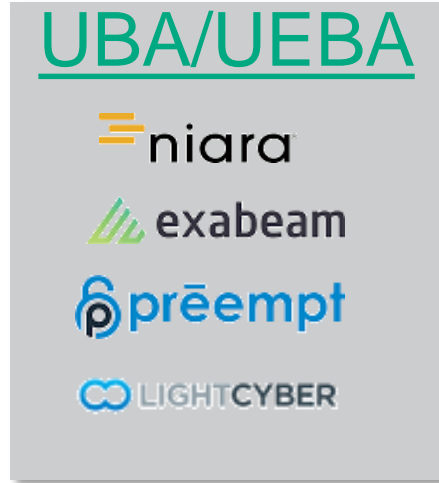
more 3rd party integrations.....let's focus on Infoblox

Services



Envoy rine JIRA
bmc tesm
servicenow
Infoblox
NEXT LEVEL NETWORKING

UBA/UEBA



niara
exabeam
preempt
LIGHTCYBER

Deception



Attivo
NETWORKS
TRAPX
SECURITY

IIoT



CLAROTY
Clarity for OT Networks
CYBERX
BATTLE-TESTED INDUSTRIAL CYBERSECURITY
Indegy
NOZOMI
NETWORKS

'Other'



FireEye
iboss
CYBERHOUND

MFA



okta
IWS
IMAGEWARE SYSTEMS, INC.
kasada

Endpoint



CYLANCE
McAfee CROWDSTRIKE
Nessus
vulnerability scanner
Cb
ENTERPRISE RESPONSE
BIGFIX
RAPID7 Symantec
Endpoint Protection

SQL



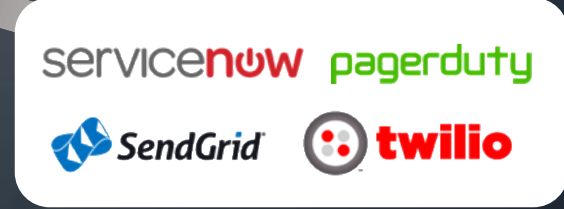
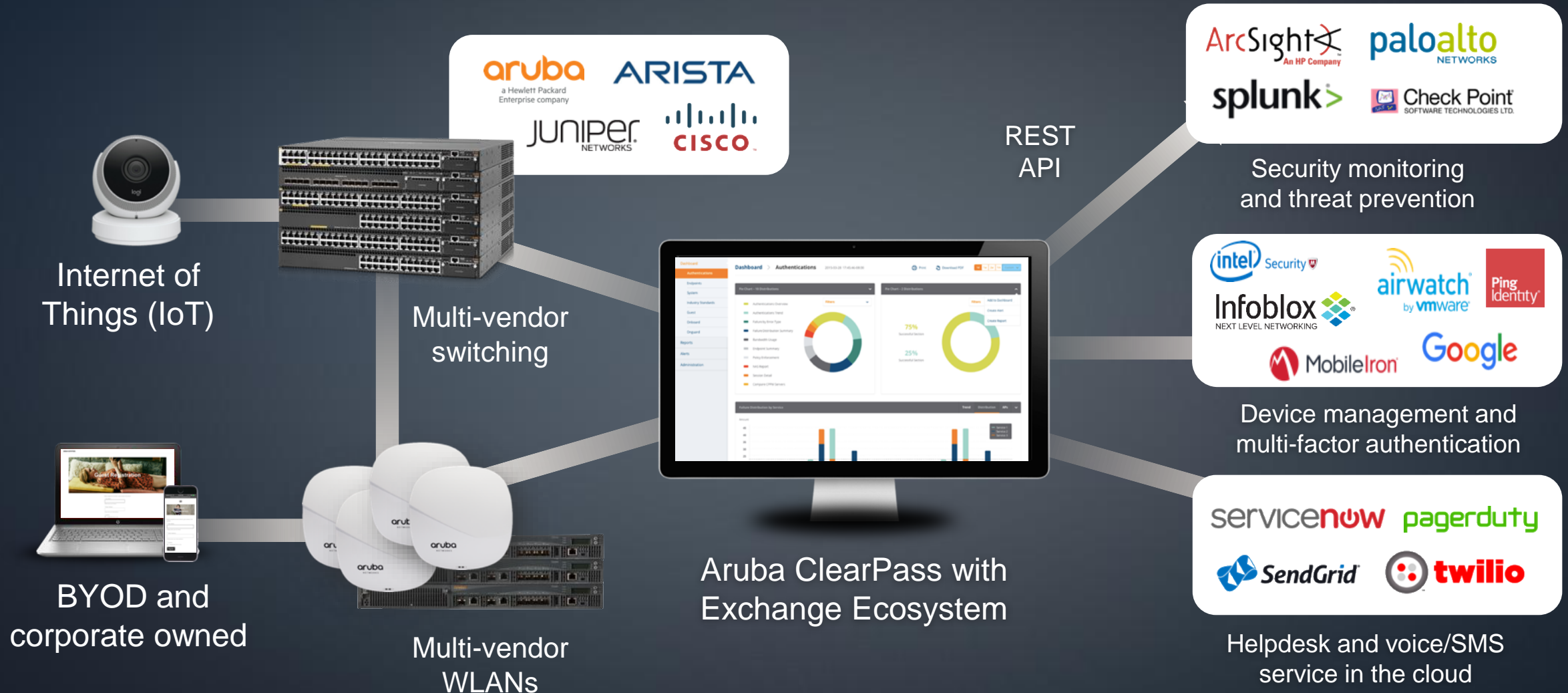
MySQL ORACLE DATABASE 11g
Microsoft SQL Server
PostgreSQL

MIoT

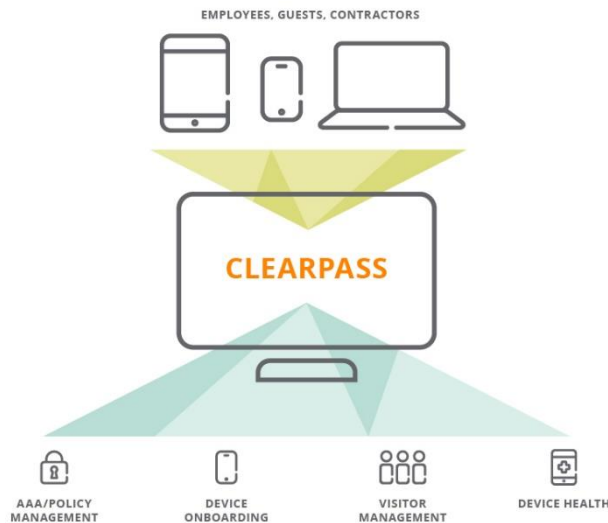


Zingbox
MEDIGATE
CyberMDX
Security & Visibility for Medical Devices
CYLERA

CPPM Exchange/Extensions: End to End Control

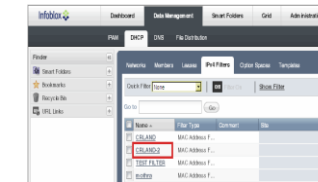


ClearPass Exchange Integration with Infoblox



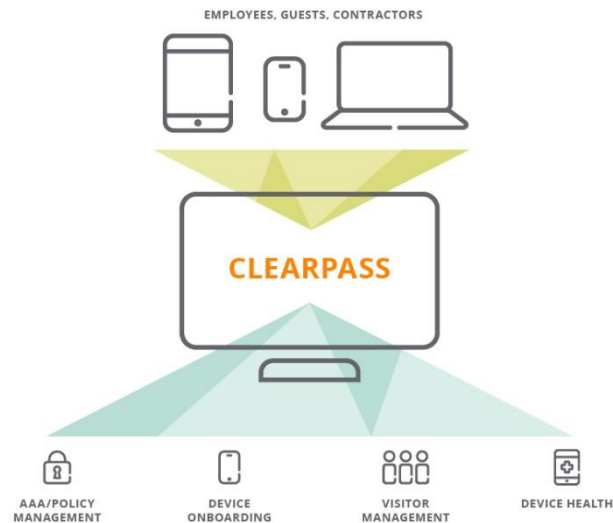
ClearPass acts as a single point of policy control across all wired, wireless and remote infrastructure.

ClearPass Exchange sends Username to MAC Address mapping information to Infoblox's MAC Address Filters

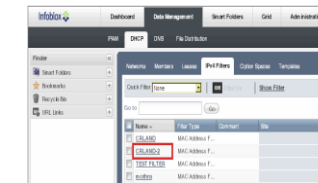


Infoblox appliances will only provide a DHCP IP address to device that is listed in the MAC filter, preventing unauthorized devices from connecting to wired/wireless networks.
Can also return context like VLAN #

ClearPass Exchange Integration with Infoblox



ClearPass acts as a single point of policy control across all wired, wireless and remote infrastructure.



Infoblox
NEXT LEVEL NETWORKING

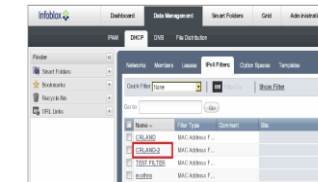


Infoblox provides enhanced visibility into connected devices on the network supplementing and enhancing CPPM's own visibility, becomes a source of truth.

ClearPass Exchange Integration with Infoblox



ClearPass acts as a single point of policy control across all wired, wireless and remote infrastructure.



Infoblox
NEXT LEVEL NETWORKING



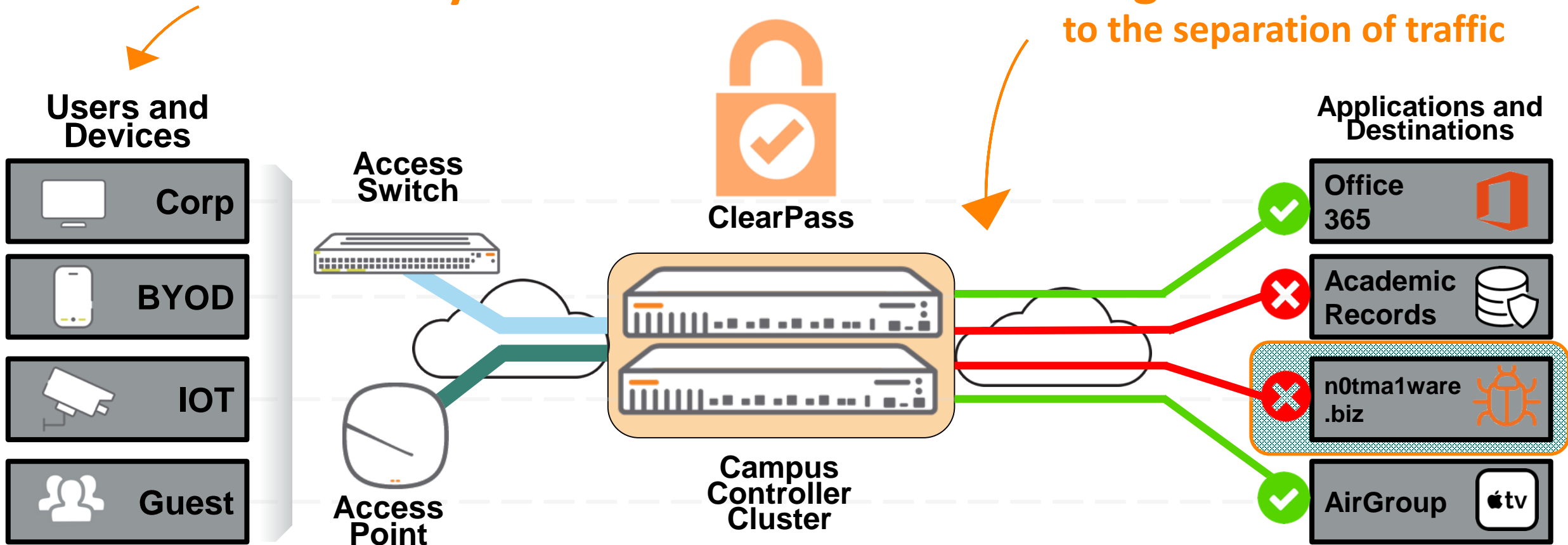
Infoblox provides visibility into endpoint domain usage, bad domain e.g. CnC server could trigger disconnect/quarantine actions

Example of technology integrations where Infoblox contextual data drives additional value

DYNAMIC SEGMENTATION: FAST AND SIMPLE

Roles are **“Dynamic”**

“Segmentation” refers to the separation of traffic



✗
...is something we
just invented

✗
...is just for wired
users and devices

✗
...always requires
tunneling of traffic

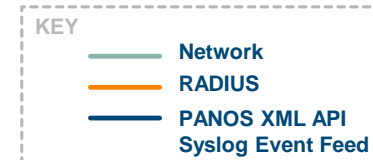
Palo Alto/Checkpoint and 'other' NGFW vendors



1. Client device attaches to the network, is profiled and health assessed by ClearPass Policy Manager

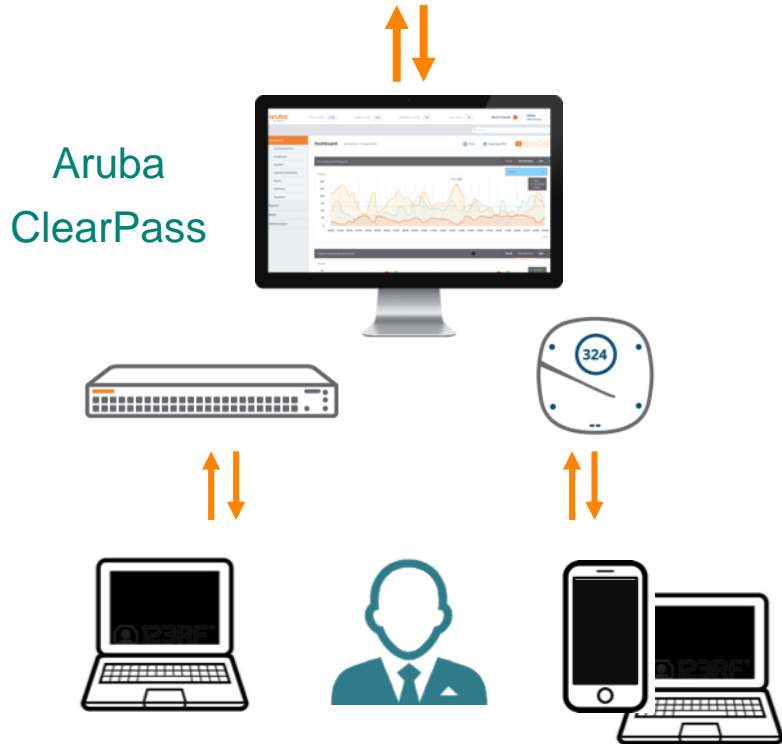
2. Detailed user, device, and health data are sent to Palo Alto Firewall via API

3. Firewall uses the user, device, and health data to permit/deny and log applicable traffic



Open and Nimble

ClearPass Extensions - New 3rd Party Integration Option



- Opens doors for new Exchange partnerships
 - Device authorization, MFA, visitor registration, EMM/MDM and more...
- Extends use of existing security, productivity solutions
- Fast, no heavy lifting integration model.

More Ways to Talk To ClearPass

ClearPass continues the process of enabling automation and orchestration

ClearPass API Explorer		
API	Services	Versions
ApiFramework	ApiAuthentication, ApiClient	v1
Authentication	AuthMethod	v1
Certificates	CertSignRequest, CertTrustList, CertTrustListDetails, ClientCert, RevocationList, SelfSignedCert, ServerCert, ServiceCert	v1
ClearPassPortal	ClearPassPortal	v1
Configuration	NetworkScan, Services	v1
Dictionaries	Attribute, ContextServerAction, Fingerprint	
DigitalPass	DigitalPass	
Events	LoginAudit, SystemEvents	
Extension	Instance, InstanceConfig, InstanceLog, InstanceReinstall, InstanceRestart, InstanceStart, InstanceStop, Store	
ExternalServers	EndpointContextServer, FileBackupServer, SnmpTrapReceiver, SyslogExportFilter, SyslogTarget	
GuestManager	ActiveSession, ActiveSessionDisconnect, ActiveSessionReauthorize, Configuration, Device, Guest, GuestDigitalPas, GuestReceipt, GuestSponsor, PrintTemplate, RandomMpsk, RandomPassword, SMSReceipt, SMTPReceipt, WebLog	
Identity	Endpoint, LocalUser, LocalUserPasswordPolicy, Role, RoleMapping, StaticHostList	
Insight	Endpoint	
Licensing	ApplicationLicense	
MessagingServices	EmailSend, MessagingSetup	
Network	EventSources, NetworkDevice, NetworkDeviceGroup, ProxyTarget	
Onboard	Certificate, CertificateChain, CertificateExport, CertificateImport, CertificateNew, CertificateReject, CertificateReq, CertificateRevoke, CertificateSign, Device, User	
OnGuard	GlobalSettings, Settings	
OperatorLogins	GetAccount, GetPrivileges, ListAllPrivileges, OperatorProfile	
Platform	AccessControl, ClusterDbSync, ClusterWideParameter, CppmVersion, ServerConfiguration, ServerFips, ServerSnmp, ServerVersion, Service, ServiceParameter	v1
SmsServices	SmsSend	v1
UsersAndPrivileges	AdminPrivilege, AdminUser, AdminUserPasswordPolicy	v1

AuthMethod : Manage authentication methods Show/Hide List Operations Expand Operations

GET	/auth-method	Get a list of authentication methods
POST	/auth-method	Create a new authentication method
GET	/auth-method/{auth_method_id}	Get an authentication method
PATCH	/auth-method/{auth_method_id}	Update some fields of an authentication method
PUT	/auth-method/{auth_method_id}	Replace an authentication method
DELETE	/auth-method/{auth_method_id}	Delete an authentication method
GET	/auth-method/name/{name}	Get an authentication method by name
PATCH	/auth-method/name/{name}	Update some fields of an authentication method by name
PUT	/auth-method/name/{name}	Replace an authentication method by name
DELETE	/auth-method/name/{name}	Delete an authentication method by name

Global Wins

ACS Replacement for Policy Mgmt, NAC, & BYOD



Leveraged ArcSight Installation to drive AAA replacement



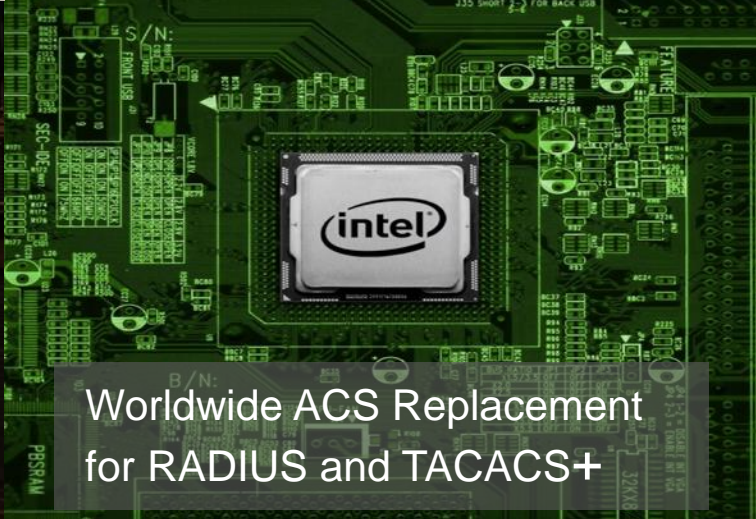
ACS replacement for Policy Mgmt & Guest



Worldwide Guest and Device Auth in Cisco / Juniper network



Worldwide ACS Replacement for RADIUS and TACACS+



Increased security & simplified BYOD onboarding



aruba

a Hewlett Packard
Enterprise company

Thank You

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