

A man and a woman in business attire are sitting at a desk, looking at a tablet together. The man is wearing glasses and a suit, and the woman is also wearing a suit. They are both smiling and appear to be in a collaborative work environment. A laptop and a glass of water are visible on the desk.

aruba

a Hewlett Packard
Enterprise company

ClearPass Policy Manager Automated Network Access Control

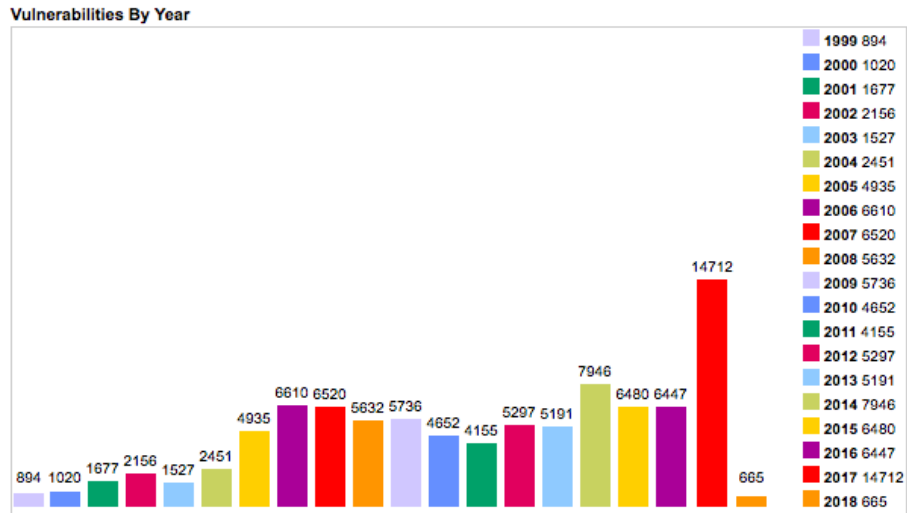
Agenda

- Cyber Security Threats
- Security Challenges
- ClearPass Overview
- Integrated Security Response
- Aruba 360 Secure Fabric



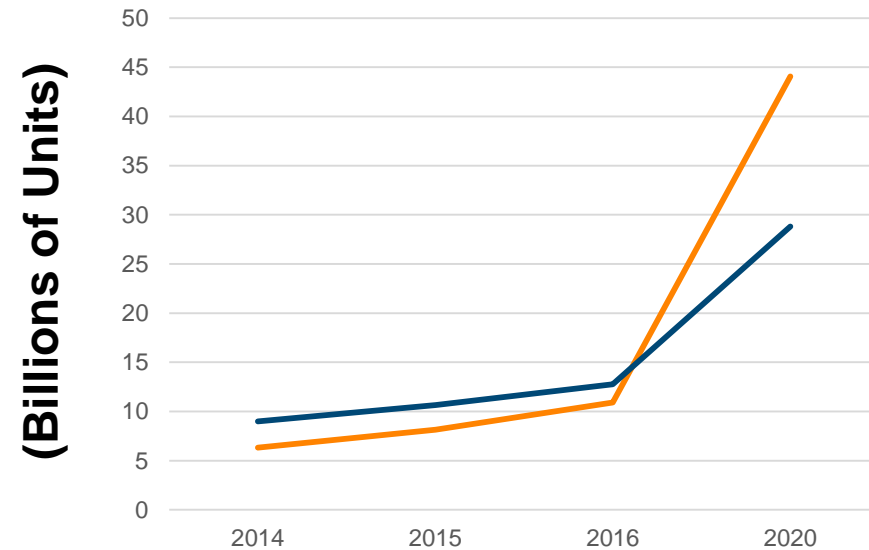
Security Challenges – IoT & Vulnerabilities

Vulnerabilities Identified per year



Source : MITRE CVE

Internet of Things Units Installed Base by Category



Source : Gartner 2016

Fish tank Story



ClearPass Solution



VISIBILITY

- Know what's connected on your wired & wireless multivendor environment
- See who is authenticated by role



CONTROL

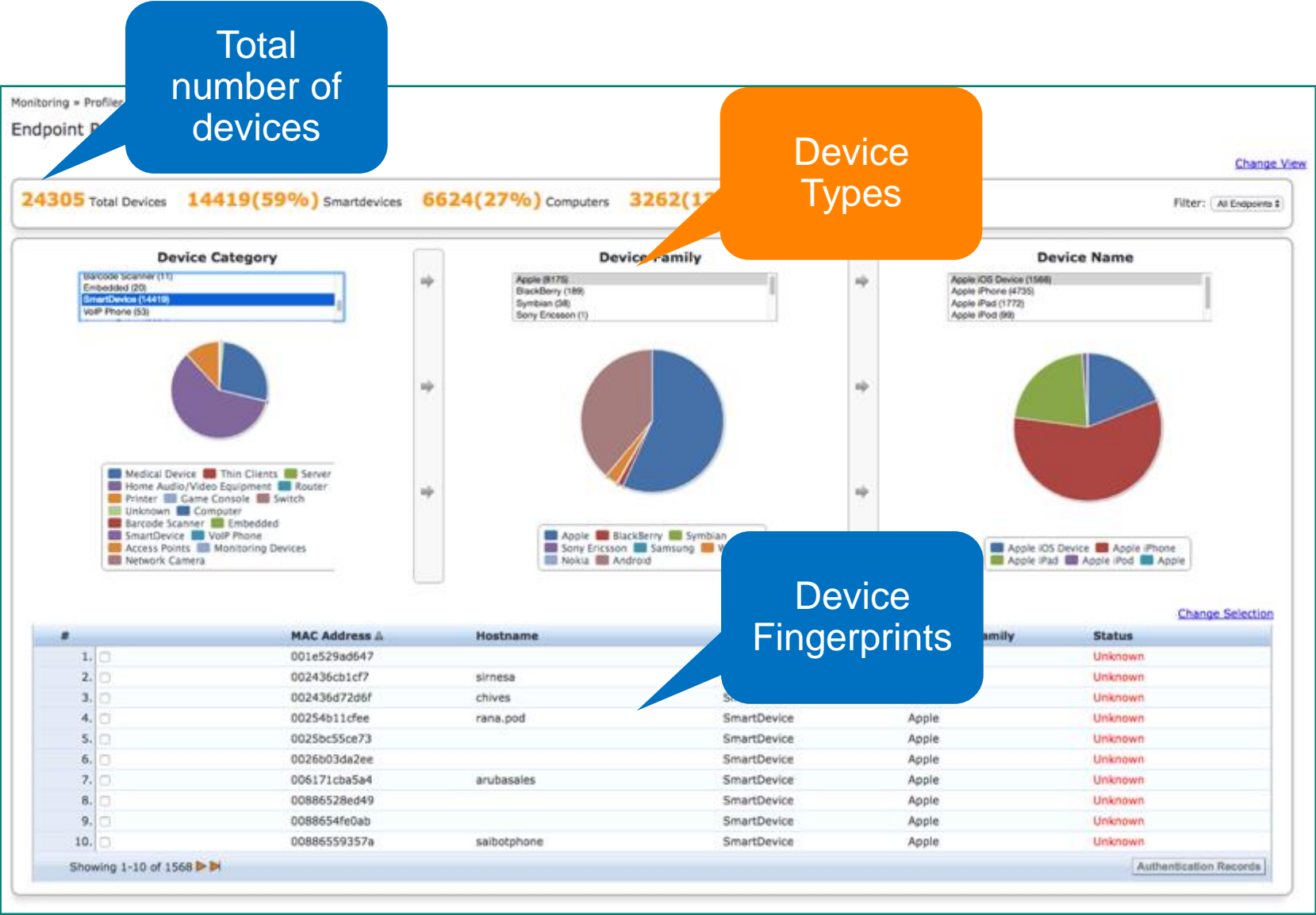
- Reduce risk and workload through Automation – All devices Authenticated or Authorized – NO UNKNOWN DEVICES



RESPONSE

- Change rules for users and devices based on behavior
- Adaptive response brokering with best of breed security solutions

Visibility - What's on your network ?



Visibility – Profile Everything

Contractor



IoT



Headless



Employee BYOD



Infrastructure



Visitor



Servers



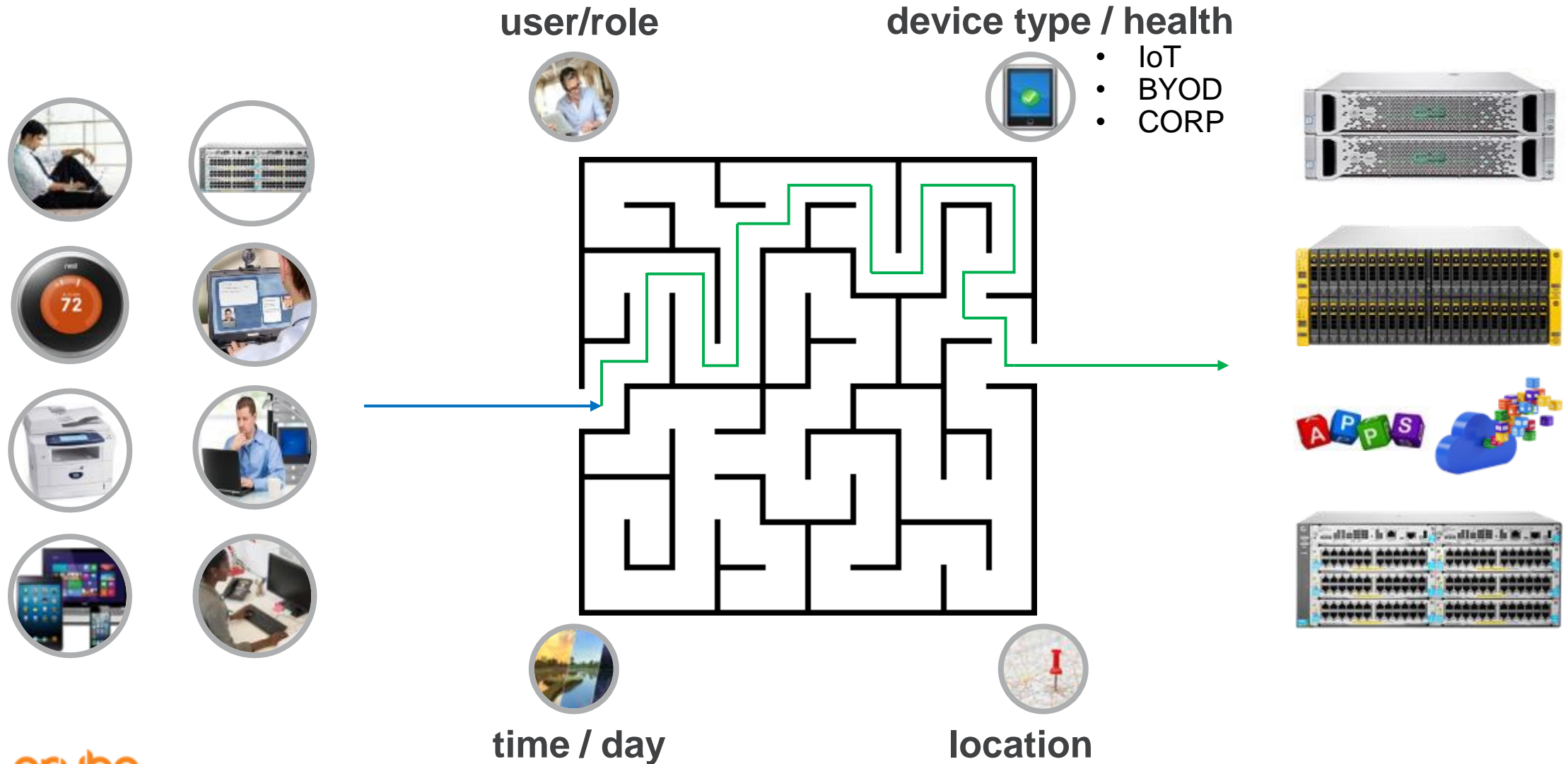
Data & Storage



**KNOW WHATS
CONNECTED**

- REALTIME 24x7
- AGENTLESS

Control – AUTOMATED AUTHENTICATION & AUTHORIZATION



Control – REMOVING UNCERTAINTY

- Enterprises define who can access
 - Files
 - Applications
- ClearPass extends that capability



Defines **WHO** and **WHAT DEVICES** can connect to:

Which
DEVICES

Which
DATA

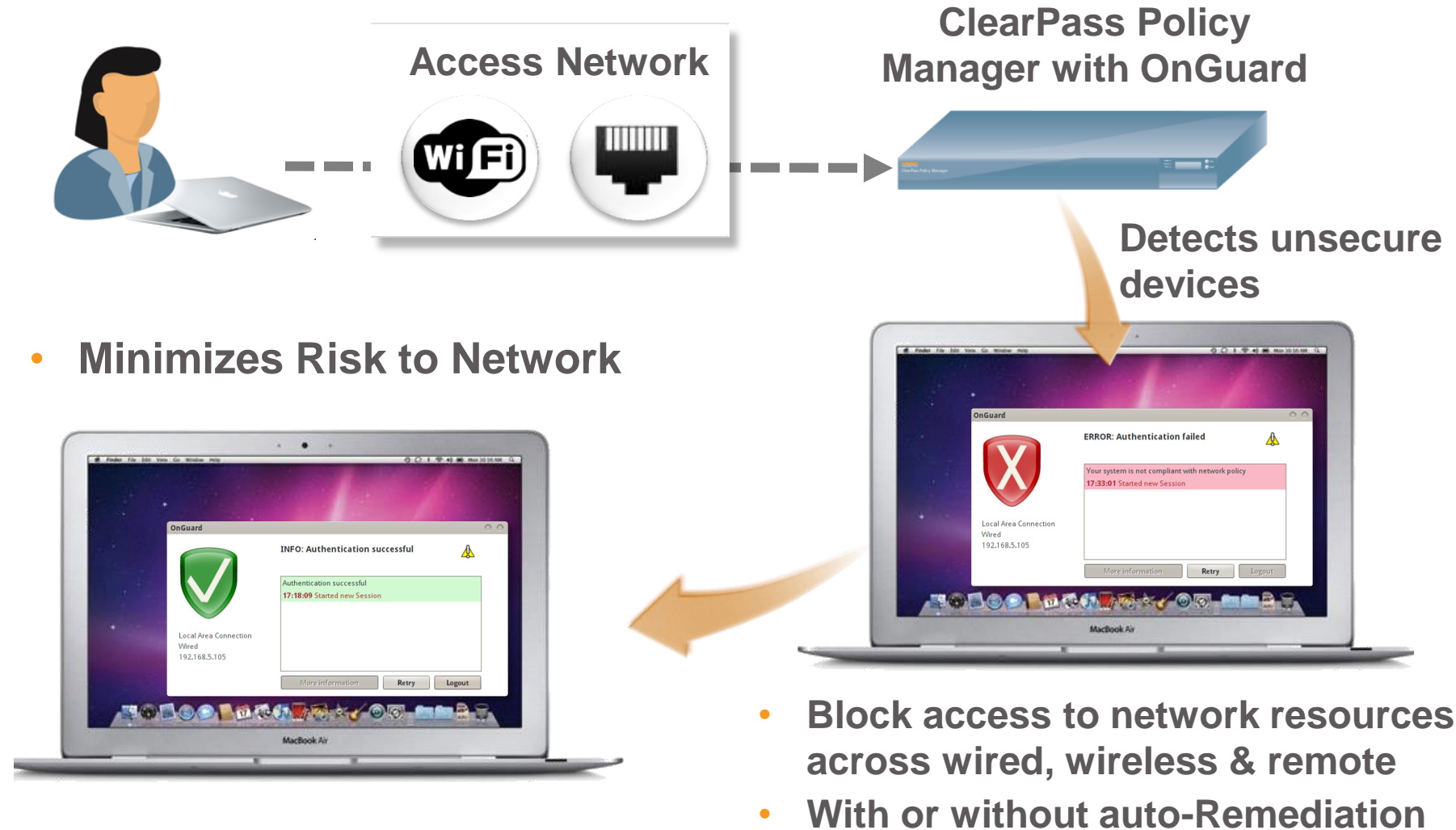
Which
INFRASTRUCTURE

Which
APPLICATIONS

ClearPass OnGuard

Posture Workflow

Control Compromised Devices



Supported Endpoint Computers

Persistent and Dissolvable Agents



- All Windows Versions
- Checks for A/V, A/S, FW, registry keys, services, patch mgmt, processes, peer-to-peer apps, USB storage devices, Hot Fixes, VMs, network interfaces, and more...



- Red Hat, CentOS, Fedora, SUSE
- Status of services, anti-virus and firewall
- Persistent agent only



- Mac OS X
- Status of anti-virus, anti-spyware and firewall

Example: ClearPass OnGuard Configuration

ClearPass Windows Universal System Health Validator

Windows 2000 **Windows Server 2003** **Windows XP** **Windows Vista** **Windows 7** **Windows Server 2008**

- Registry Keys
- AntiVirus**
- AntiSpyware
- Firewall
- Peer To Peer
- Patch Management
- Windows Hotfixes

☒ Enable checks for Windows 7

Select the antivirus product: 360 Antivirus

Product version check: No Check

Engine version check: No Check

Data file version check: No Check

Data file has been updated in: [] Hour(s)

Last scan has been done before: [] Hour(s)

Real-time Protection Status Check: ☒ No Check ☐ On ☐ Off

Quarantine Message: []

Buttons: Save, Cancel, Reset, Save, Cancel

Over 150 supported Antivirus products

Granular Posture Rules

Configuration » Posture » Posture Policies » Add

Posture Policies

Service → Authentication → Authorization → Roles → **Posture** → Audit → Enforcement

Policy | **Posture Plugins** | **Rules** | Summary

Rules Evaluation Algorithm: First applicable

Conditions

Add Rule Move Up

Posture Token

Edit Rule Remove Rule

Rules Editor

Conditions

Select Plugin Checks: Fails one or more SHV checks

Select Plugins: ☒ ClearPass Windows Universal System Health Validator

Actions

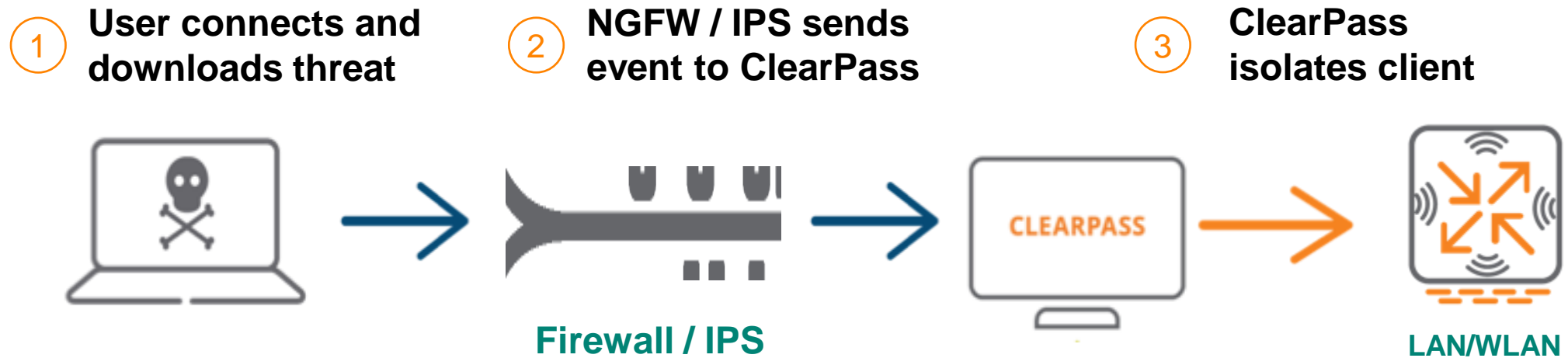
Posture Token: QUARANTINE (20)

Save Cancel

- Passes All Checks
- Passes One Check
- Fails All Checks
- Fails One Check

- Healthy
- Quarantine
- Infected

RESPOND - Automated Defense



ClearPass Exchange: End to End Control



ClearPass Benefits

– Real-time Visibility, Control and Responses

- NO GAPS
- NO AGENTS
- Multivendor Wired and Wireless Security Solution



– Fully Featured

- Built in Fingerprinting and Profiling
- Automated BYOD solution
- Built in Secure and Public Guest Solution
- Concurrent User Licensing
- Over 120 Security Vendor Partners



– Automates Secure Connectivity

- Reduces fragmentation
- Speeds up incident response



Thank You