

Egy délelőtt a HP-technológiák bűvöletében

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HP IMC avagy multivendor
infrastruktúra menedzsment egy
konzolról



Today's management tools are made for static networks

Complex



Reactive



Manual



Today's management tools are made for static networks

Complex

90%

of the time required to fix a problem just trying to isolate the problem

<http://www.yankeegroup.com/ResearchDocument.do?id=16040>

Reactive

50%

of downtime is due to network outages

*Research carried out by Unisphere, 2012

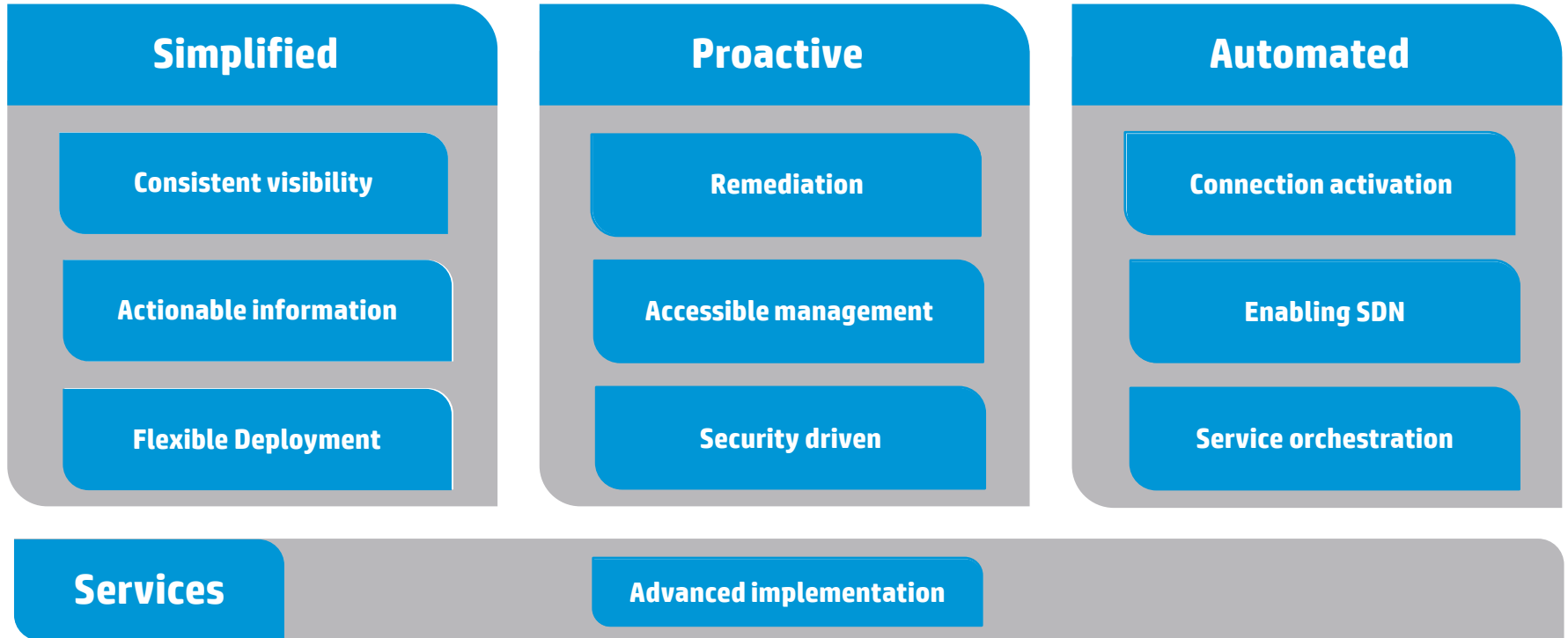
Manual

80%

Through 2015, 80% of outages impacting mission-critical services will be caused by people and process issue

Gartner RAS Core Research Note G00208328, Ronni J. Colville, George Spafford, 27 October 2010, RA6 05012011

IMC delivers management for dynamic, agile networks



Proactive management

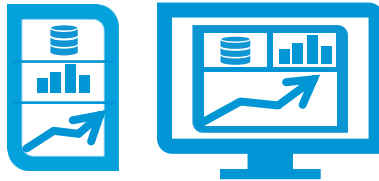
Enabling continuous uptime

Remediation



- Respond dynamically to network environment changes
- Action based on traffic anomalies
- Event-based automated remediation

Accessible management



- Configure and monitor over 6000 devices (3rd party) using 1 tool
- Dynamic content on any device
- Open extensible architecture for external integration

Security driven

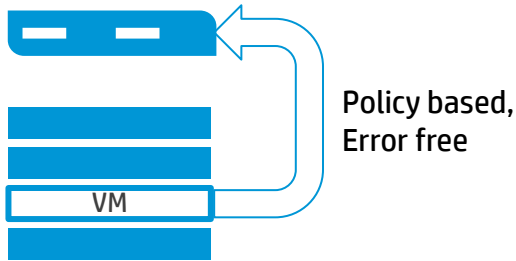


- Unified wired and wireless policies
- Manage infrastructure compliance
- Quarantine non-compliant devices
- Multivendor device and user access enforcement

Infrastructure automation

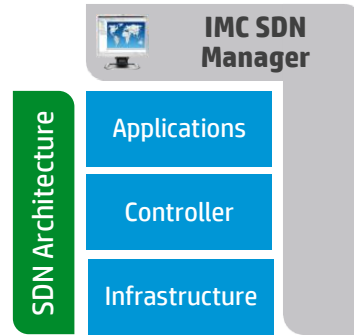
Automates and orchestrates traditional and software defined networks

Connection activation



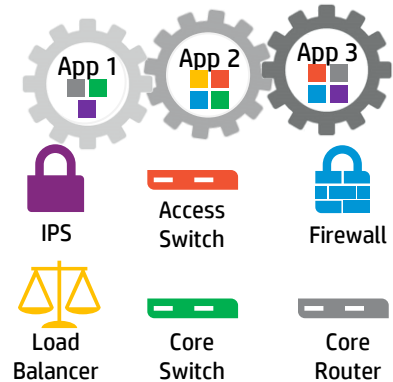
- Accelerates provisioning of apps
- Automates VM connectivity
- Error free configuration
- Supports multi-vendor hypervisor managers

Enabling SDN



- FCAPS for SDN environments
- Manages all layers of SDN
- Completes SDN architecture

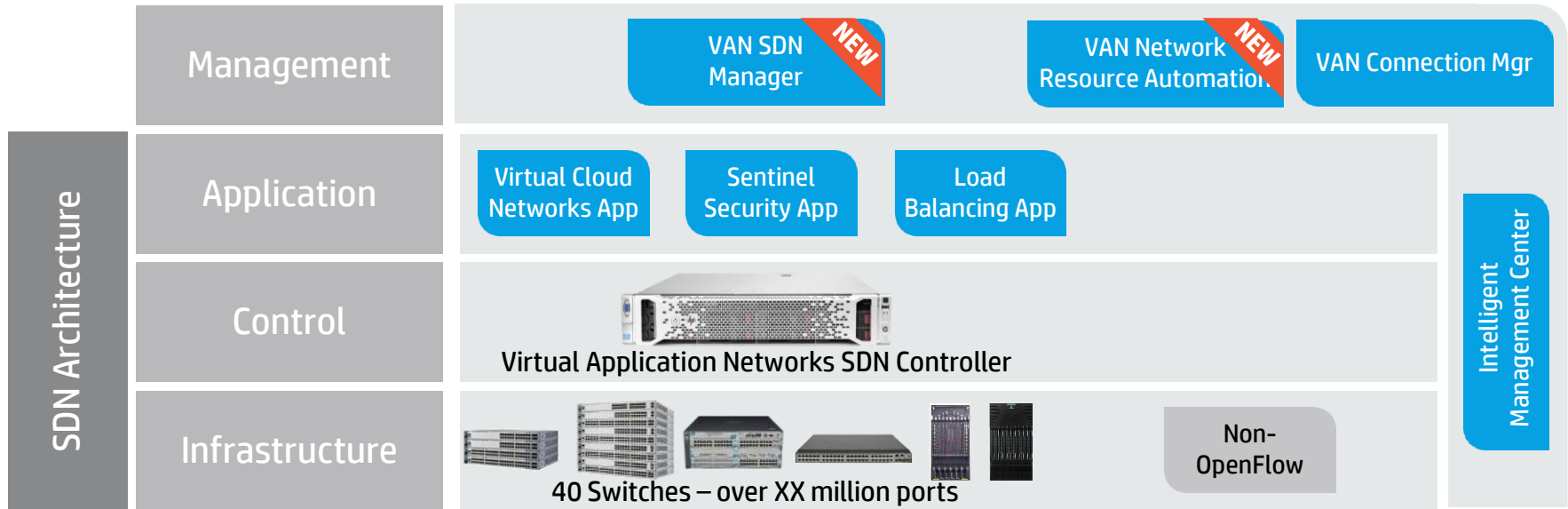
Service orchestration



- Automated service modeling and deployment
- Dynamic configuration of devices
- Service agility for all networks

Virtual Application Networks deliver automation, agility

Industry's most complete software-defined data center network fabric



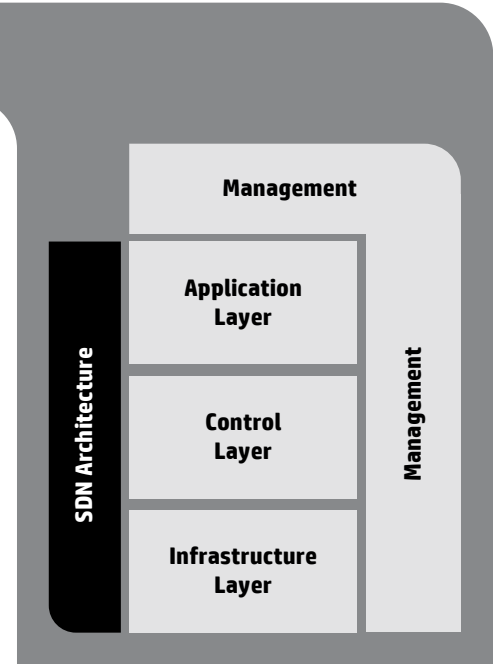
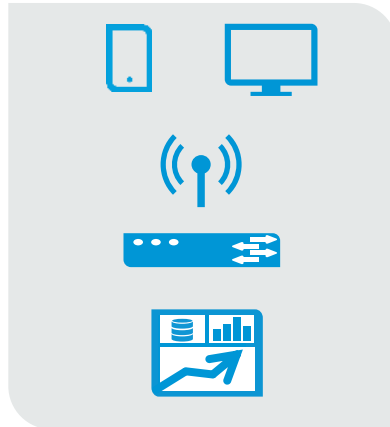
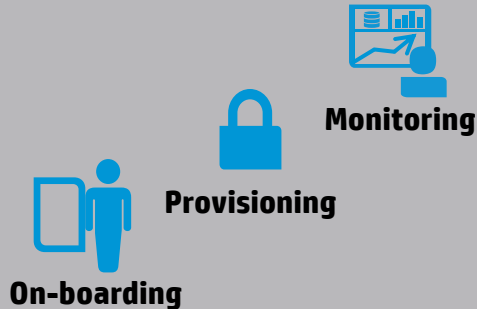
Complete unified Bring Your Own Device (BYOD) solution

Simple, scalable and secure

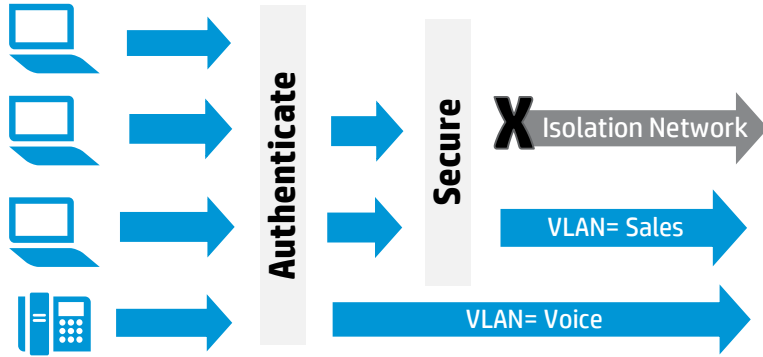
Software-Defined Networking (SDN)

Unified Wired & Wireless Network & Management

Unified BYOD Essentials



Network Access Control (NAC)



Ensure security policy conformance

- “All devices connecting to my network must conform to a security policy I define”
- Security Policy Enforcement with Endpoint Admission Defense (EAD)*
 - AV & Definitions, OS Patches, FW, banned SW
 - Dissolvable & Permanent iNode clients for common OS
- Includes Desktop Asset Manager
 - Device inventory management
 - Data Leakage prevention



* Additional IMC Module



User Behavior Auditor

Know what sites are being accessed from your network



Audit online behavior of internal users

- Provides comprehensive log collection and audit functions
- Scalable network log audit and analysis solution

Real-time visibility in who/what is consuming bandwidth

- Audit on-line behavior by user or IP address
- websites, specific URLs, database access and operations, file transfers, and FTP access

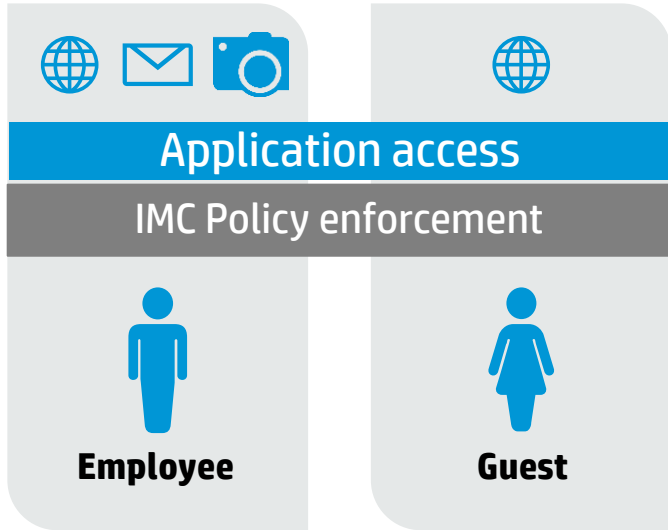
Effectively manage resources and capacity planning

- Understand traffic patterns, application and session performance and trends



Unified wired and wireless access control

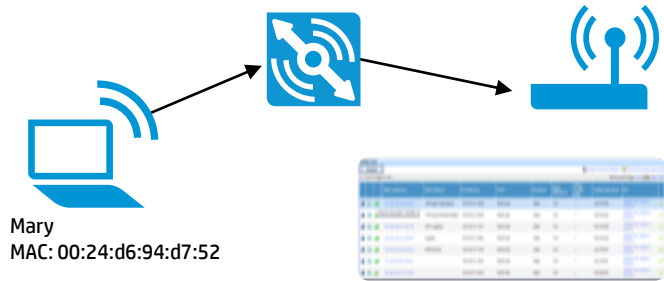
User access manager



Unified access management

- Policy-based user and device authentication and authorization and enforcement
- Access rules based on user role, device type and endpoint integrity
- Advanced Mobile device profiling (fingerprinting)
- 802.1X authentication & simplified self registration portal option
- Traffic shaping for optimal bandwidth allocation
- Integration with HP TippingPoint IPS
- Customizable portal to match customer's brand

IMC Unified wired and wireless management with Wireless Services Manager



Who's connected?

Wired & Wireless network visibility

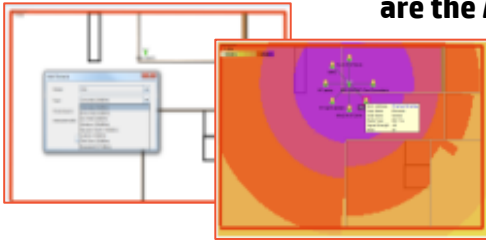
- Status and traffic monitoring of hundreds of wired/wireless devices from a single screen
- Simplified wired/wireless network deployment, management and troubleshooting
- Robust reporting for compliance

IMC Wireless Services Manager (WSM)

- Discover wireless access points (AP) & connected clients
- Track device status, network performance, and user connections
- Ensure consistency with AP configuration backup
- Map your wireless network
- Optimize wireless coverage with heat map
- Location based services

Where are your APs?

How strong are the APs?



Service Operations Manager



Optimize IT responsiveness to end user service requests with ticket integration into IMCs alert and configuration capabilities

IT network flow



Requirement



Fault



Issue



Repository



Configuration

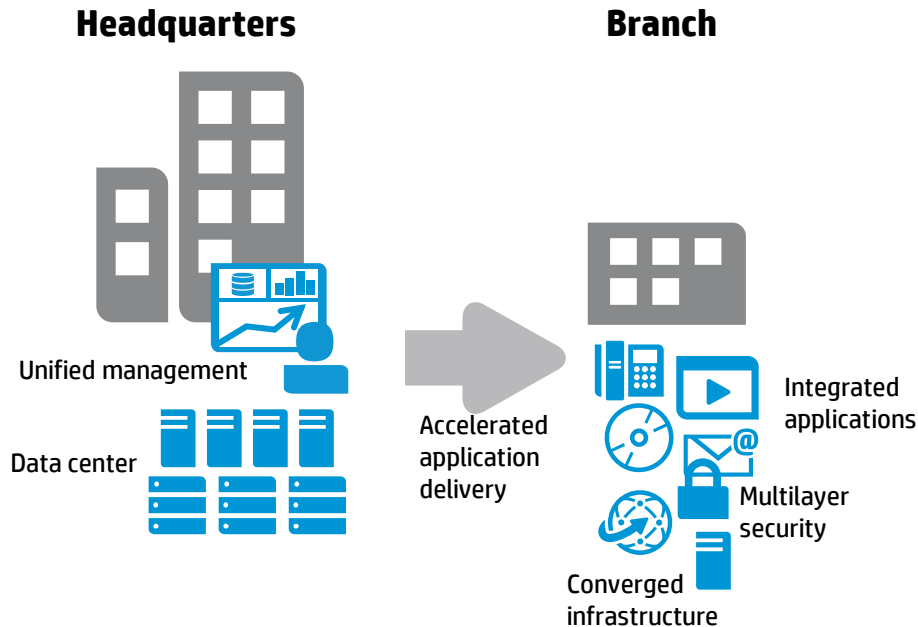


Change



Release

Branch intelligent management system

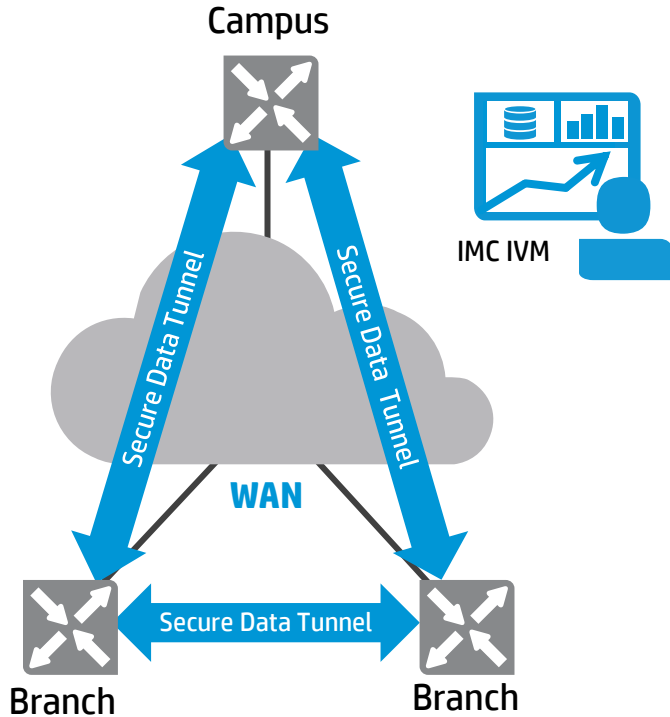


Zero touch configuration for branch devices in batches

- Out of path from DVPN
- Automatic software upgrades
- Branch device zero-touch configuration startup
- Comprehensive monitoring of physical links
- Capable of managing devices in up to 10,000 branches

HP IMC IPsec VPN Manager

Greater visibility and control for DVPN



Comprehensive IPsec VPN management

- Domains
- Device
- Tunnel
- Topology
- Proposal
- IKE security

DVPN support

- Pre-defined DVPN security templates
- DVPN auto discovery
- DVPN management and provisioning

Application Performance Manager (APM)

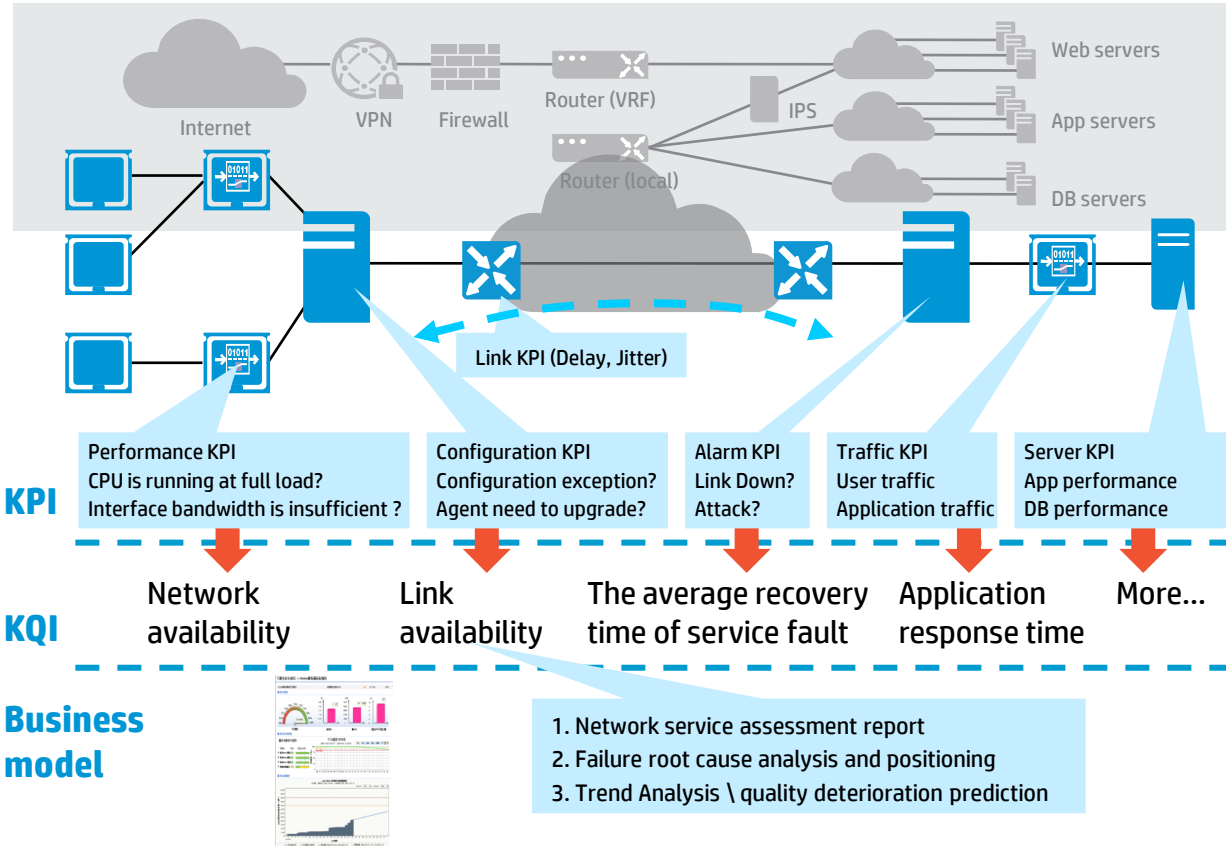


Visualize and measure the health of business applications and the impact to network performance

- Single pane visibility of server, application, performance and infrastructure
 - Monitor performance and health of applications
 - Automatic discovery of applications
 - Fault management for monitored applications
- Comprehensive reporting of monitored objects
- Logical step towards service management, and bridges gap between network ops, server ops and application teams
- Broad range of supported applications



HP IMC Service Health Manager



Provides end-to-end service monitoring and assurance

- Visual service modeling
- Includes predefined and custom key performance indicators (KPIs)
- Complete Network Quality Assurance (NQA) Link Monitoring
- Comprehensive SHM reports



vMon (Virtualization Monitoring Software)

Gather information and monitor traffic between various points on your network

- Customize the collection of traffic between virtual machines running on your network
- For use with NTA/UBA/APM
- Monitor L1 to L7
- OVF template for VMware

The screenshot shows the HP Intelligent Management Center (IMC) interface. The main content area displays a 'Guide to Quick Traffic Analysis And Audit Configuration' with a diagram showing 'Device Management' and 'Server Management' connected by a blue arrow. Below the diagram, there are sections for 'Device Information', 'Probe Information', and 'User Behavior Audit'. The 'Probe Information' table has a row for 'vMON' with a red box around the probe name. The 'User Behavior Audit' table also has a row for 'vMON' with a red box around the probe name. At the bottom of the page, there are 'Deploy' and 'Cancel' buttons.

| Select | Device Name | Device IP | Device Description |
|--------------------------|-------------|-----------|--------------------|
| <input type="checkbox"/> | | | |

| Select | Probe Name | Probe IP | Enable Layer 7 Application Identification |
|-------------------------------------|------------|----------------|---|
| <input checked="" type="checkbox"/> | vMON | 15.234.147.236 | Yes |

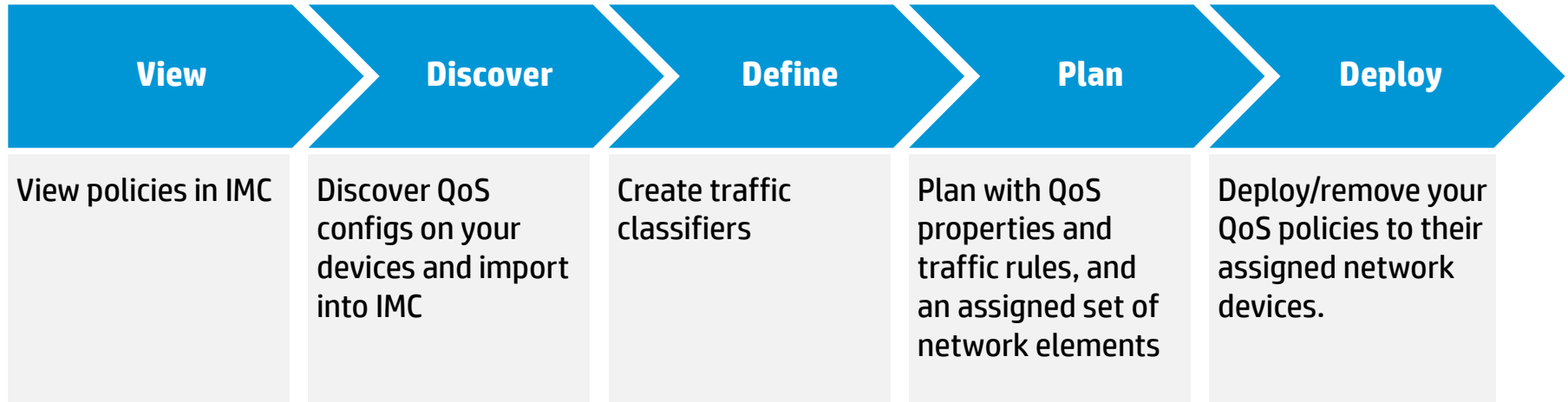
| Select | Probe Name | Probe IP | Enable Layer 7 Application Identification | Enable Special Audit |
|-------------------------------------|------------|----------------|---|---|
| <input checked="" type="checkbox"/> | vMON | 15.234.147.236 | Yes | <input type="checkbox"/> Web <input type="checkbox"/> FTP <input type="checkbox"/> Mail |

| Intranet Information | Delete |
|----------------------|-------------------------------------|
| 10.0.0.0/0 | <input checked="" type="checkbox"/> |
| 15.234.147.0/24 | <input checked="" type="checkbox"/> |



QoS Manager

Platform for defining, applying, and monitoring QoS policies on a system-wide basis for HP Networking routers and switches.



HP IMC platform portfolio

Advanced networks

IMC Standard

- Includes 50 device license
- Hierarchical model support
- Expandable device support*
- Modular

IMC Enterprise

- Full FCAPS
- Includes 50 device license
- Hierarchical model support
- Includes NTA module & eAPI license
- Expandable device support*
- Modular

Small, simple networks

IMC Basic

- Fault, config, and performance
- Fixed 50 device limit
- Fixed functionality

IMC Basic WLAN

- Fault, config and performance
- Unified wired and wireless management
- Fixed functionality
- Fixed 50 device limit
- Includes 50 license of WSM

BYOD specific

IMC Smart Connect

- Virtual appliance w/OS and dB
- IMC Standard w/ 50 device
- User Access Manager with 50 user devices

IMC Smart Connect WLAN

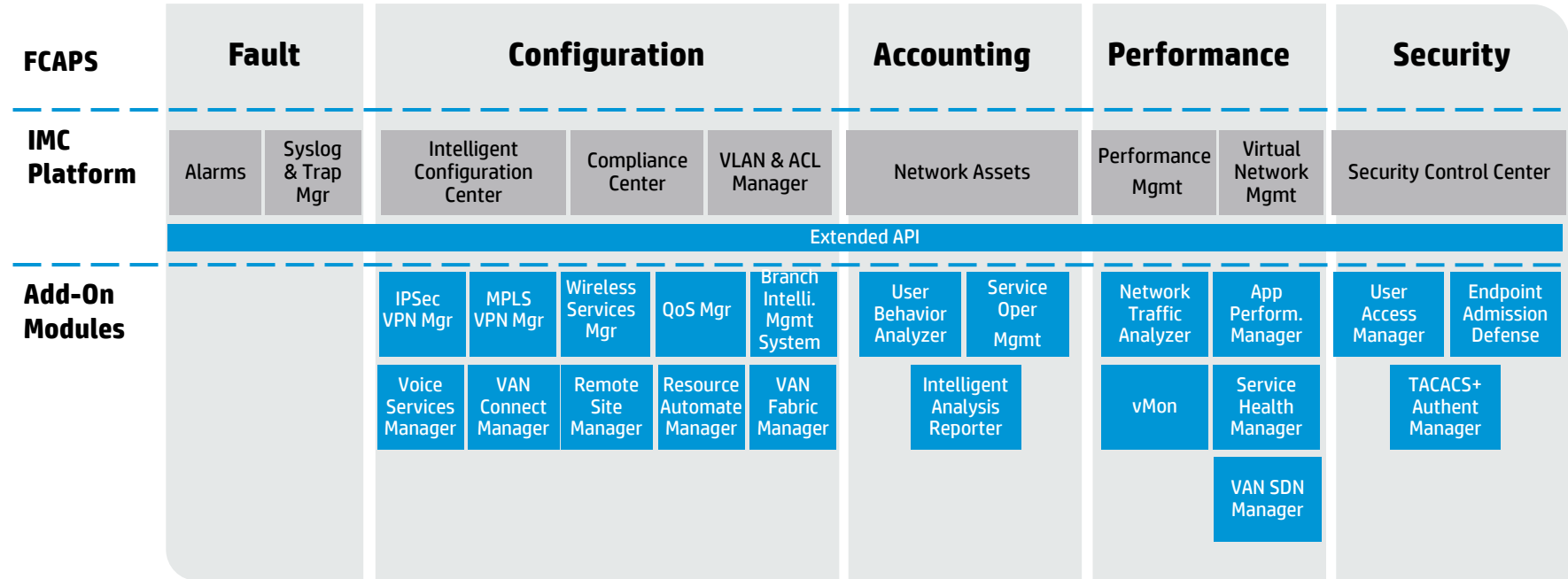
- Virtual appliance w/OS and dB
- IMC Standard w/50 device
- User Access Manager with 50 user devices

* Additional incremental node licenses 100, 500, 1000, 5000 & Unlimited



Comprehensive management capabilities

Single platform built on top of modular, service oriented architecture



Köszönöm a figyelmet!

