HP Intelligent Management Center

das „Schweizer Sackmesser“ unter den NM Tools

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Network management tools are not providing solutions

“I have too many tools”
Every vendor, every technology is requiring its own management interface.
There is need to “Do more…with less”

“My network is unstable due to changing configurations”
Change accounts for 69% of network downtime and degradation. How do I handle, secure, and audit change?

“I’ve no visibility or control of what’s happening on my network”
Who is doing what on my network? How are my business critical applications and service? Is my network optimized to deliver services for my users?

“I need to control who has access to what”
Who has access, What and When they have access, but also What are they doing once they have access
HP delivers business-centric network management

Gain business agility through single pane of glass management with IMC

- Gain visibility: Reduce OPEX with network transparency
- Increase efficiency: Achieve enhanced performance and superior reliability across the network
- Integrated security: Preserve network integrity with full featured network access control
- Flexible, modular architecture to provide a tailored customer solution: Common operations view with extensions for IT orchestration
In addition to IMC vs. HP Network Node Manager (former Open View)
HP offers a complete IT portfolio for all customers from SMB to Enterprise and MSP.
HP Network Management Portfolio

**HPSW Network Management Center (NMS)**
Intelligent Automation, High Scale and Low TCO, Industry leading **Multi-vendor Support**, Network Management tightly coupled with Business Management

**HP Intelligent Management Center (EMS)**
Key Differentiator in **HP Network equipment** sales, Integrated Access and User Management, Comprehensive Infrastructure Management for HP Networking

**HP ProCurve / 3Com**

Enterprise Network
Combined Network Management Solution

**Business Services Management**
Operations and Automation

Intelligent Automation, High Scale and Low TCO, Industry leading **Multi-vendor Support**, Network Management tightly coupled with Business Management

Key Differentiator in **HP Network equipment** sales, Integrated Access and User Management, Comprehensive Infrastructure Management for HP Networking
NOW

it's all about IMC
The HP Intelligent Management Center Module Portfolio

- Provides a broad set of features across the FCAPS model to provision, monitor, and manage network elements
- Modular architecture allows deeper functionality to be added where needed, provides a tailored solution for EMS and delivers scalability for growth as management needs change
Comprehensive management of 3rd party devices

**IMC management extends beyond HP**
- Discovery and Topology
- Monitoring and Performance Management
- Data Center Orchestration
- Events and Traps
- Configuration Backup and Restore
  - Configuration comparison
  - Base-lining and change notification
- Bulk Configuration

**Single management solution for mixed HP and Cisco networks**
- Simplifies Cisco/HP interworking and transitions
- Support for >3100 3rd party devices
- New devices can be added by customers
Platform – New features
Key new capabilities – Microsoft Hyper-V support

**Microsoft Hyper-V support**
- Extends server virtualization support
- Synchronizes network configurations based on virtual machine migrations
- Extends visualization beyond physical resources to virtual resources

**HP advantage**
- With the support of Hyper-V, HP now supports the majority of server virtualization platforms
Key new capabilities – Compliance Center

**Compliance Center**
- Allows IT administrators to run compliance checks
  - Supports predefined/custom policies
- Make certain that device configurations comply to policies
- Leads to remediation tactics when devices are not compliant

**Benefits**
- Ensures consistency across network, compliance of infrastructure,
- Allows for pro-active management
Key new capabilities – Enhanced device support

Enhanced support for Campus Edge and Branch devices (CEB)

- Support for Inter Switch-Connection for CEB devices
- Support for configuration and firmware updates for MSM
- Enhanced configuration support for CEB wired devices
- Temperature monitoring
Key new capabilities – IMC mobile application

**IMC mobile application**
- Monitor and see the status of your network from your mobile phone
- Query fault devices
- Display device information
- Receive real-time “Push” alarms
- Supports iOS (iPhone) and Android devices

**Benefits**
- Enables mobility for IT administrators
Other key new platform capabilities

**IMC Extended APIs** (Enterprise version only)
- Includes a set of 200 APIs that provide access to core platform services
- Enable 3rd party solutions to interface with IMC

**Virtual Connect**
- Enhances interoperability between IMC and Virtual connect by pushing connection information into virtual connect manager
- Enables server administrators to expedite creation of server profiles.

**Telnet/SSH Proxy**
- Restricts telnet sessions to initiate only from IMC
- Increases security and reduces downtime by controlling change

**Google Maps**
- Topology background overlay
Simple, comprehensive management environment

IMC + VCM = Complete control of the physical and virtual environment

**Virtual Connect Manager**
- Server provisioning and configuration
- Server profile and address management
- VC fault and performance monitoring
- Management security

**Intelligent Management Center**
- Physical and virtual network provisioning and configuration
- Multi-vendor, single pane visibility across networking
- Physical and virtual network fault and performance monitoring
- Integrated access and user management

Integrated approach to physical and virtual management
Value-add modules
Updated module – Service Operations Manager

Key new capabilities

- Process Designer - tool for creating custom workflows in addition to the predefined workflows
- SOM initiates a review process for configuration tasks or alarm recovery/acknowledgement
- Change will not be executed until all reviewers approve
Updated module – User Access Management

Key new capabilities
• Enhanced support for Active Directory (AD)
  – Support AD groups
• Web portal customization for User Authentication
  – Add customer logo, background color, etc.

iNode
• Customizable posture checking results page
• Single sign on for Vista and Win 7
• URL filtering – restrict URL access defined in EAD
Updated Module – Wireless Service Manager

Key new capabilities in support of MSM wireless devices
• SNMP based support
• Resource management
• Performance monitoring
• Topology
• Reporting
Summary

The business and financial case for unified management systems like IMC is clear:

- Gain Visibility: Achieve network transparency and improve OPEX
- Increase efficiencies across the network: Increase efficiencies across the network and deliver network performance and reliability
- Integrated security: Preserve network integrity with full featured network access control

Network management assists IT, benefits end-users, affects the enterprise and positively impacts the bottom line
THANK YOU
IMC Customers
Scope

Network Management has many facet's and spans all of IT:

**AEK**: Traditional Network Element Management *(cross Technology)*

IMC & VCM

End-End Management
AEK Solothurn

**Managed Elements:**

1. Switches
2. Router
3. WLAN
4. End User Security

**Special Setup:**

1. IMC Enterprise
2. WSM Module
3. UAM (User Access Management)
4. EAD (Endpoint Admission Defense)
Scope

Network Management has many facets and spans all of IT:

- **AEK**: Traditional Network Element Management *(cross Technology)*
- **Rieter**: Traditional Network Element Management *(Global)*

IMC & VCM

End-End Management
Rieter Machine Industries

**Managed Elements:**
1. Switches

**Special Setup:**
1. Global Deployment
2. Cascading Deployment
HP IMC Site Deployments

HP IMC Enterprise deployed at HQ

HP IMC Standard deployed at each remote site

Service Components:
- Intelligent Configuration Center
- Device Manager
- ACL Manager
- Security Control Center

Platform:
- iMC Platform

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- **Rieter**: Traditional Network Element Management *(Global)*
- **KS Graubünden**: Traditional Network Management *(Multi Customer)*
Kantonsspital Graubünden

Managed Elements:
1. Switches
2. WLAN
3. (Servers)

Special Setup:
1. IMC Enterprise
2. WSM Module
3. Support of 8 different customers
4. Over one physical infrastructure
5. (Customer Specific Reporting)
Scope

Network Management has many facet's and spans all of IT:

- **AEK**: Traditional Network Element Management *(cross Technology)*
- **Rieter**: Traditional Network Element Management *(Global)*
- **Swisscom BNN**: Traditional Network Element Management *(Multi Vendor)*
- **KS Graubünden**: Traditional Network Management *(Multi Customer)*
Swisscom BNN

Managed Elements:
1. Switches
2. Routers
3. Cisco Gear
4. (Avocent) KVM boxes

Special Setup:
1. IMC Enterprise
2. Feeds Into HP NNM (former HP OpenView)
3. Used for traditional Network Element tasks:
   I. Configuration
   II. Backup/Restore
   III. Reporting
4. Largest network to date with over 3000 elements under management
Scope

Network Management has many facet's and spans all of IT:

**AEK**: Traditional Network Element Management *(cross Technology)*

**Rieter**: Traditional Network Element Management *(Global)*

**HP ES Outsourcing**: Converged Network Management

**HP Cloud Services**: Converged Network Management

**Swisscom BNN**: Traditional Network Element Management *(Multi Vendor)*

**KS Graubünden**: Traditional Network Management *(Multi Customer)*
HP internal (HP Cloud / HP ES)

**Managed Elements:**
1. Data Center Switches
2. Data Center Routers
3. Firewalls / Load Balancers
4. Server Resources
5. Storage Resources

**Special Setup:**
1. IMC Enterprise
2. HP Network Automation (former Opsware Inc)
3. And a lot of purpose development ..... This is not yet out of the Box
THANK YOU