

Pulse2011



Integrated Service Management Strategy

Jamie Thomas, VP Tivoli Strategy and Development

What's Keeping You "Awake at Night"?

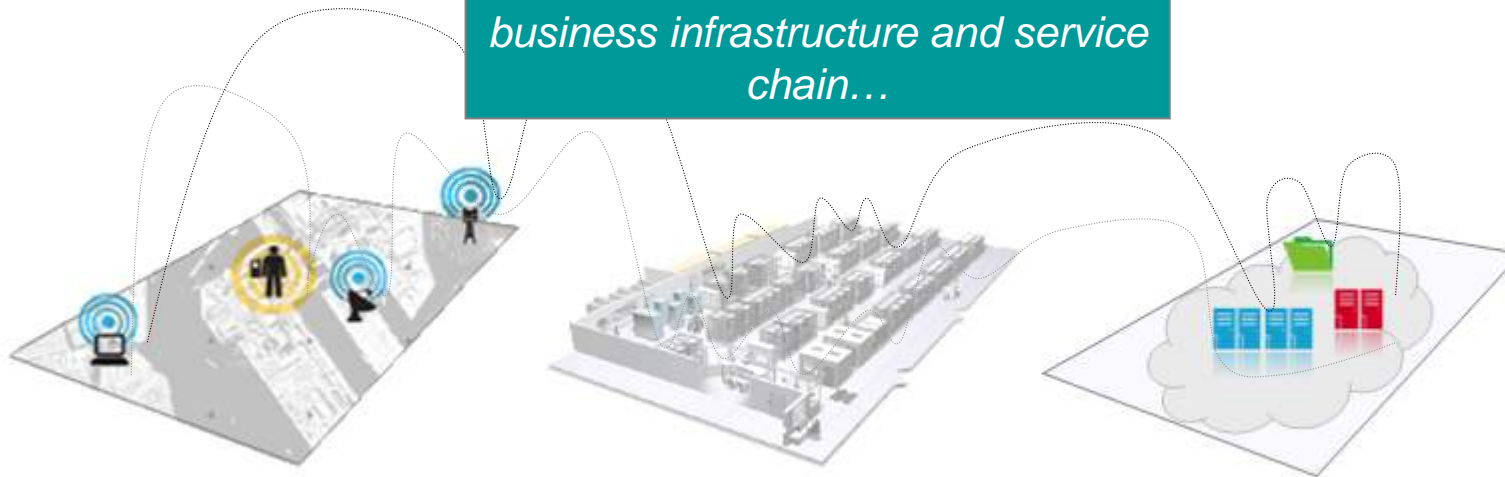
- What are my top business services, processes & transactions?
- What are the expectations for service innovation, speed and quality?
- What does it cost to deliver them?
- Are there any regulatory or compliance mandates?



Integrated Service Management provides a holistic approach to designing, delivery & managing innovative services...



Across the interconnected business infrastructure and service chain...



Interconnected users and smart devices

Highly virtualized, service-oriented architectures

Private & public delivery options, like Cloud & SaaS

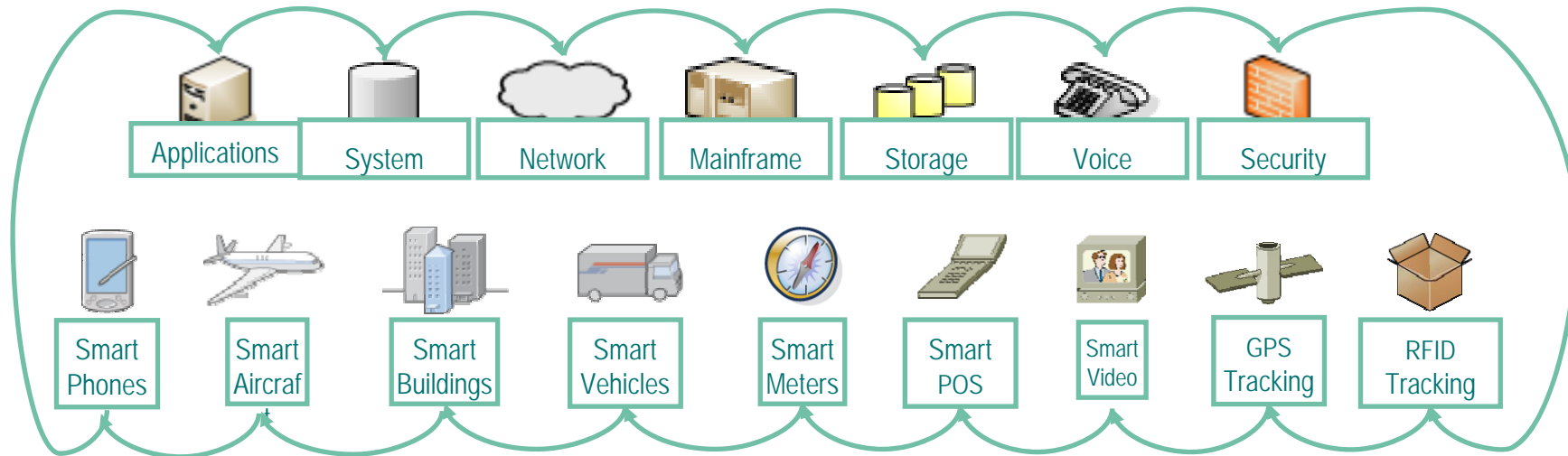


To Be Successful We Must Challenge IT To Think Differently

- From ***silos and point solutions:***



- To ***service chain:***



Tivoli Integrated Service Management

Service Availability & Assurance

- Business Service Management
- Event Management
- Monitoring
- High Availability
- Backup & Recovery

Service Planning, Support & Maintenance

- Incident Management
- Change & Configuration Management
- Asset Management
- Licensing
- Metering

Virtualized & Heterogeneous Infrastructure

Diverse Assets

Service Deployment & Optimization

- Automation
- Provisioning
- Configuration
- Workload Optimization

Service Security

- Identity and Access Management
- Server and Endpoint Security
- Network Security
- Security GRC
- Security Intelligence

Resource Reconciliation & Naming | Security | Service Registration | Central Administration | Audit and Logging | Analytics Hub Reporting



Open interfaces. Open possibilities.

- ✓ Open infrastructure
- ✓ Federated Data
- ✓ Dynamic interaction
- ✓ Common Services

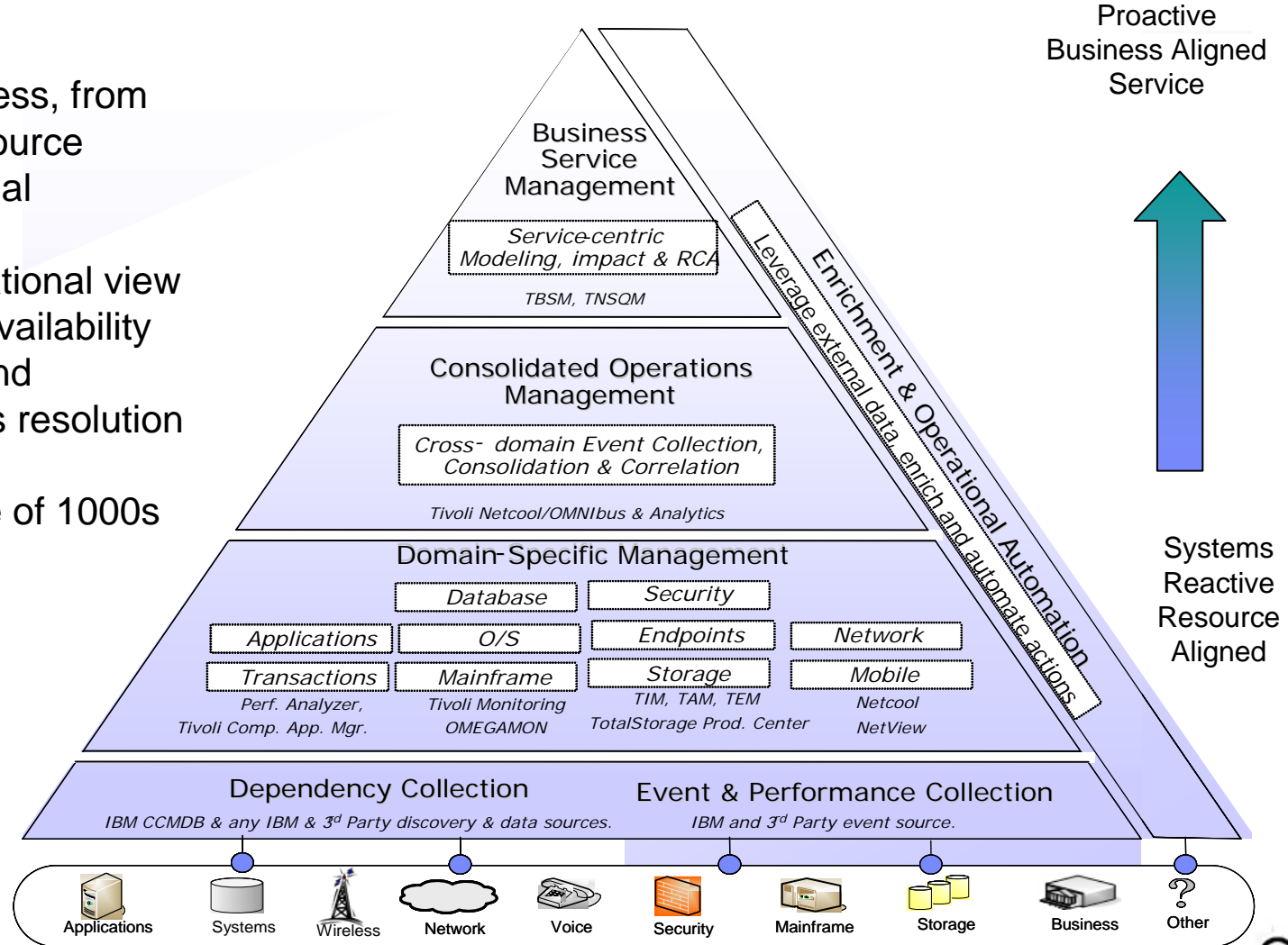


Service Availability & Assurance

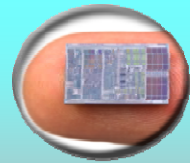
Enable Service Management through Consolidation and Integration

Meet the needs of the business with Quality, Scale, Flexibility, Compliance & Resiliency

- Real-time data access, from virtually any data source across organizational boundaries
- Consolidated operational view of performance & availability
- Event correlation and automation reduces resolution time
- Complete coverage of 1000s of device types



Tivoli Provides Comprehensive Domain Coverage



Digital-Physical Convergence



Virtualization and cloud



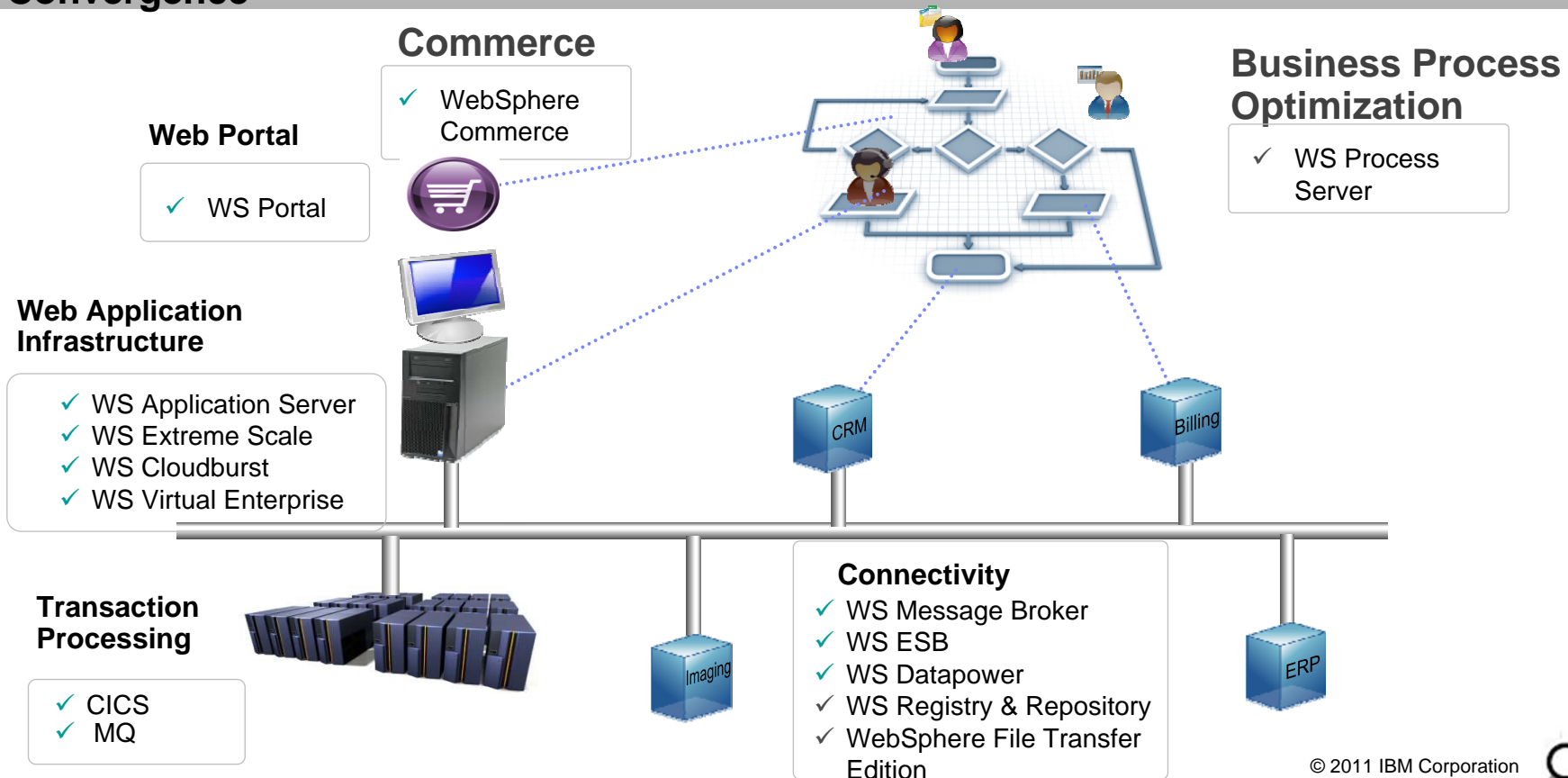
Mobile Everything



Predictive Intelligence



Optimization



Application Performance Management Improved integration and upgrade

WebSphere Appliance Management Center

- Multi-box DataPower appliance management
- Enhanced monitoring with more KPIs
- Seamless integration into the Tivoli Monitoring infrastructure

ITCAM for WebSphere Application Server

- Data Collector available in WebSphere Application Server
- More robust deep dive capabilities available in ITCAM for Application Diagnostics

MQ Performance Monitor

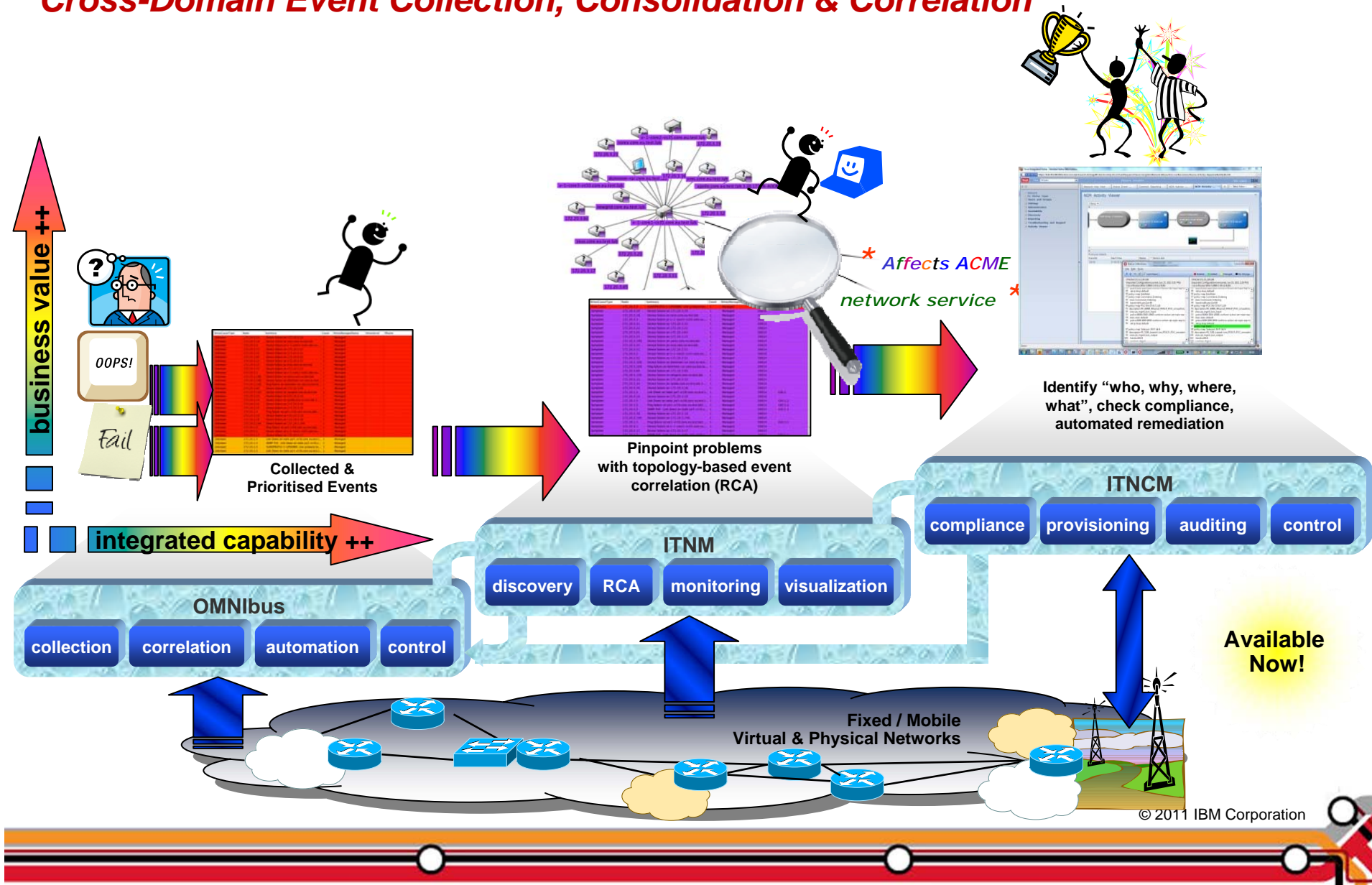
- Available as a downloadable support pack
- Decrease WebSphere MQ downtime & Proactively prevent problems
- Upgrade is simple to ITCAM for Applications

**Available
Now!**



Consolidated Operations Management

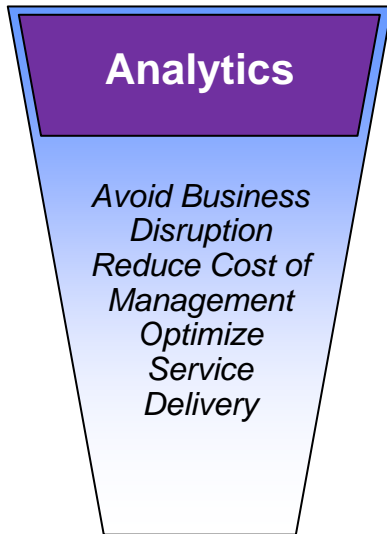
Cross-Domain Event Collection, Consolidation & Correlation



Analytics to Radically Change Management

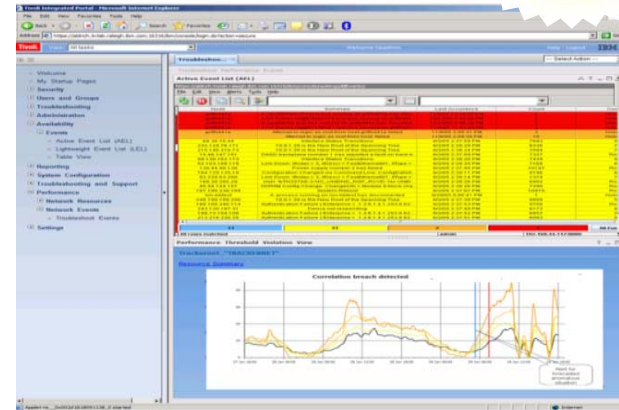
Improved visibility keeps inbound shipments on their intended paths

Available
in Beta



Avoid Service Disruption

- Identify emerging problems in application and infrastructure using streaming analysis and innovative learning technologies for maximum lead time.
- Provides alert on problems the **first time** they occur, not the second.



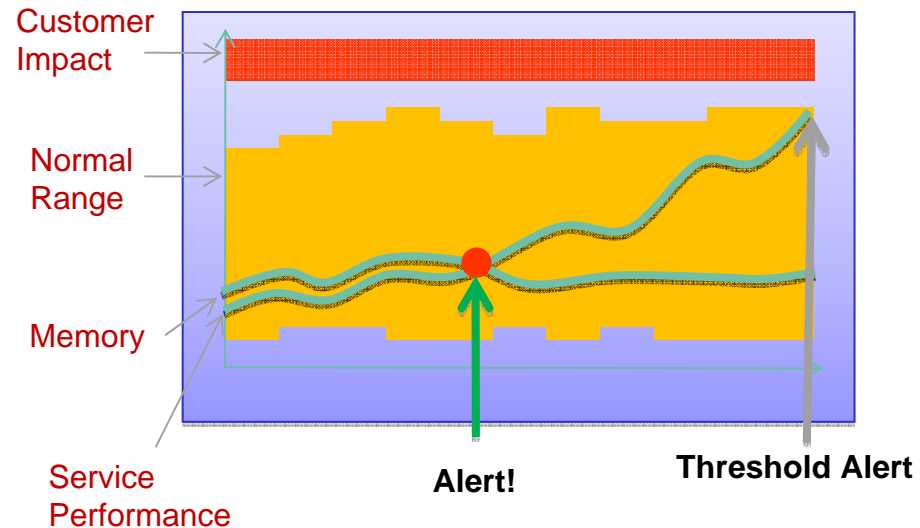
Detect Problem before
Thresholds are Breached

Reduce Total Cost of Ownership

Provides trending and dynamic threshold management for all resources

Optimize Service Delivery

Mine real time and historical performance information for insights improving efficiency without sacrificing customer responsiveness



Business Service Dashboard: Integrated Visibility & Context

Role-based dashboards:

- LoB, Operations Mgmt, Operators.
- Customizable/sharing common context
- Launch in context views & automations.
- Realtime & Historical reporting across KPIs, event & performance.
- Web & Mobile Support

Visibility across:

- Services, Processes, Transactions
- Distributed & Mainframe
- Traditional and virtualized environments

The screenshot shows the Tivoli Business Service Dashboard interface. It includes several key components:

- Service Tree:** A hierarchical tree view on the left showing service categories like Customer Service, Mobile Integration, and Online Ordering, with status indicators (green, yellow, red).
- Service Maps:** A map of the United States showing service locations and connections.
- Urgent Services:** A table listing services with critical status (red) and their last change times.

Service	State	Last Change
CICS-TORS	Red	5/2/08 10:20 AM
RefreshALot	Red	5/2/08 10:20 AM
Broker Wealth Management	Red	5/2/08 10:20 AM
Production CICS Regions	Red	5/2/08 10:20 AM
IA - Image Archive	Red	5/2/08 10:20 AM
Production Mainframe Systems	Red	5/2/08 10:20 AM
Mainframe Operating	Red	5/2/08 10:20 AM
- Service Model:** A diagram showing the relationships between various services and components.
- Event Summary:** A grid of KPI cards showing event counts and trends.

Category	Total
All Events	1084
Assigned	1
Escalated	2
Unack'd	1
Maintenance	0
Ticketed	0
- Mobile Access:** A BlackBerry smartphone displaying the dashboard interface, indicating mobile support.

Depository Trust & Clearing Corporation

Keeps up with growth and keeps the markets on firm ground

Improved visibility keeps inbound shipments on their intended paths

Business Challenges

- Dominant provider of investment processing services in U.S. Sought to parlay its record of service innovation and cost leadership by expanding globally.
- Needed scalability, reliability and flexibility in its processing platform to meet the additional processing demands and new service development requirements for these new markets

Solution

- Teamed with IBM to re-architect its core processing infrastructure to
- Leverage a service-oriented architecture.
- Enable it's world-leading transaction capabilities to accommodate global growth vision.
- Provide monitoring solution to increase the performance and availability.

Benefits

- 77% increase in overall transaction processing capacity; handling 3 times the highest volume ever recorded
- 100% rate of reliability, with US\$1.5 quadrillion in trades settled annually
- 25% reduction in cost per transaction to the lowest cost per transaction in the world.

Our ability to expand capacity demonstrates our commitment to prepare for unprecedented growth and other risk factors affecting the global marketplace. IBM's technology and vision have been essential to our success in doing this.

**William B. Aimetti, President
and COO, DTCC**

Solution components:

- IBM WebSphere Application Server
- IBM WebSphere MQ
- IBM Tivoli Composite Application Manager
- IBM DB2



The Depository Trust &
Clearing Corporation



Tivoli Integrated Service Management

Service Availability & Assurance

Business Service Management

Event Management

Monitoring

High Availability

Backup & Recovery

Service Planning, Support & Maintenance

Incident Management

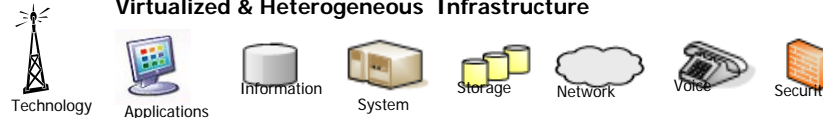
Change & Configuration Management

Asset Management

Licensing

Metering

Virtualized & Heterogeneous Infrastructure



Diverse Assets



Service Deployment & Optimization

Automation

Provisioning

Configuration

Workload Optimization

Service Security

Identity and Access Management

Server and Endpoint Security

Network Security

Security GRC

Security Intelligence

Resource Reconciliation & Naming

Security

Service Registration

Central Administration

Audit and Logging

Analytics Hub Reporting



Open Services for Lifecycle Collaboration

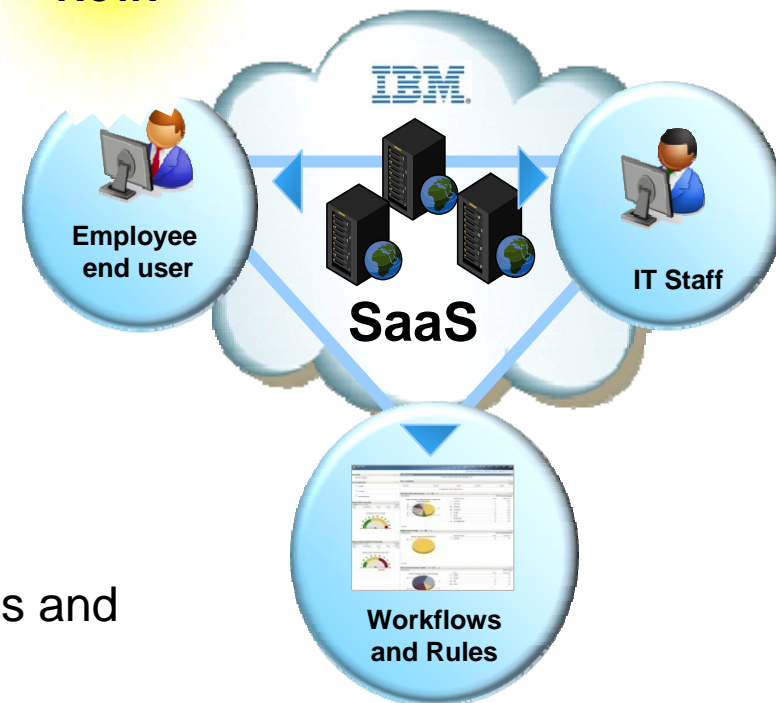
Open interfaces. Open possibilities.

- ✓ Open infrastructure
- ✓ Federated Data
- ✓ Dynamic interaction
- ✓ Common Services

Flexible and Affordable Service Management Software as a Service *Tivoli Live – Service Manager*

- Integrated Service Management capabilities
 - Problem and incident Management
 - Change and Release Management
 - Configuration Management
 - IT Asset Management
 - Service Catalog
- Radically improves Time to Value
 - Get started in hours and days instead of weeks
- Simplifies support and provides flexibility
- Reduces complexity
- Self service, standardization and simplified roles and workflows
- Leverages existing software
- Based on enterprise-class software

Available
Now!



- 80% reduction in help desk calls and a 22% reduction in service tickets for a leading IT Service Provider

IBM Global Technical Services Helpdesk Overview

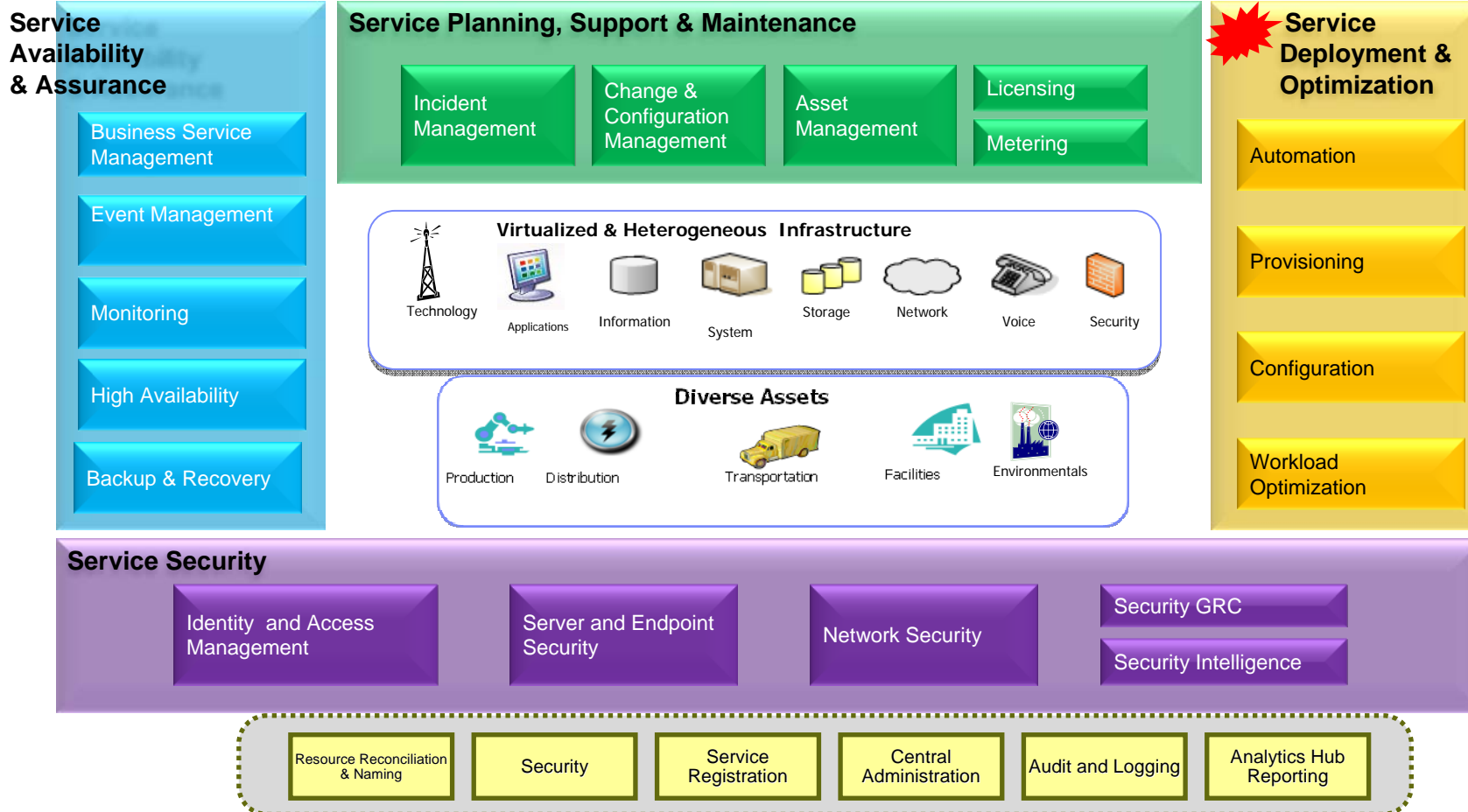
- Software-as-a-Service offering available on-demand, over the Internet
- Hosted by IBM, administered by client
- Web-enabled service request, release manager, service catalog, and asset management capabilities
- Innovative, role-based pricing allows clients to pay only for what they need



- Supports 400,000 IBM Employees
- 24/7 Support Worldwide
- 14 million service tickets processed
- 24 million projected in 2011
- 900 IBM GTS clients worldwide



Tivoli Integrated Service Management



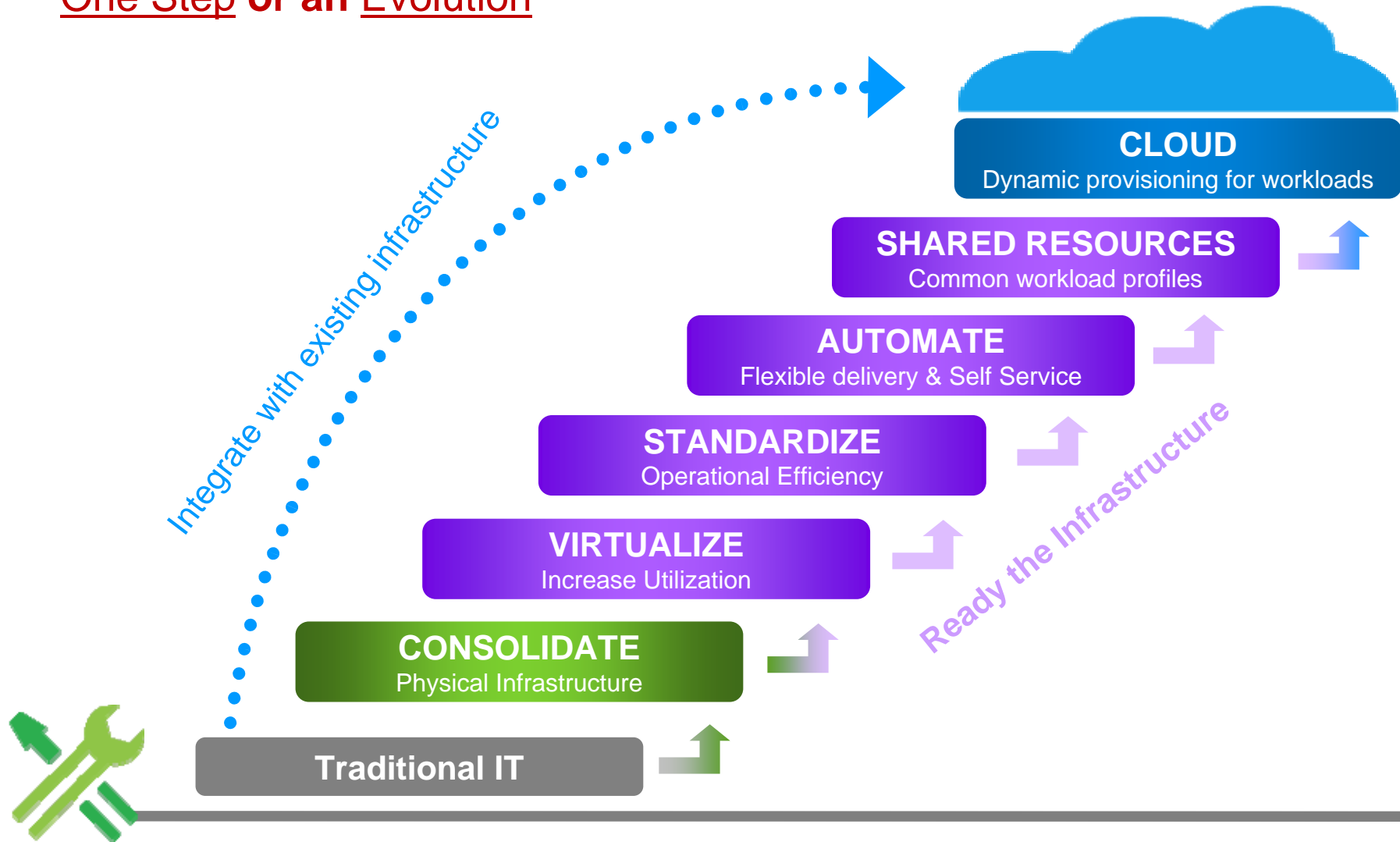
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Movement from traditional environments to Cloud

One Step or an Evolution



Cloud Capabilities



Virtualize

Server, storage & Network devices to increase utilization



Provision & Secure

Automate provisioning of resources



Monitor & Manage

Provide visibility of Performance of virtual machines



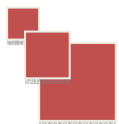
Orchestrate Workflow

Manage multi-step service tasks



Meter & Rate

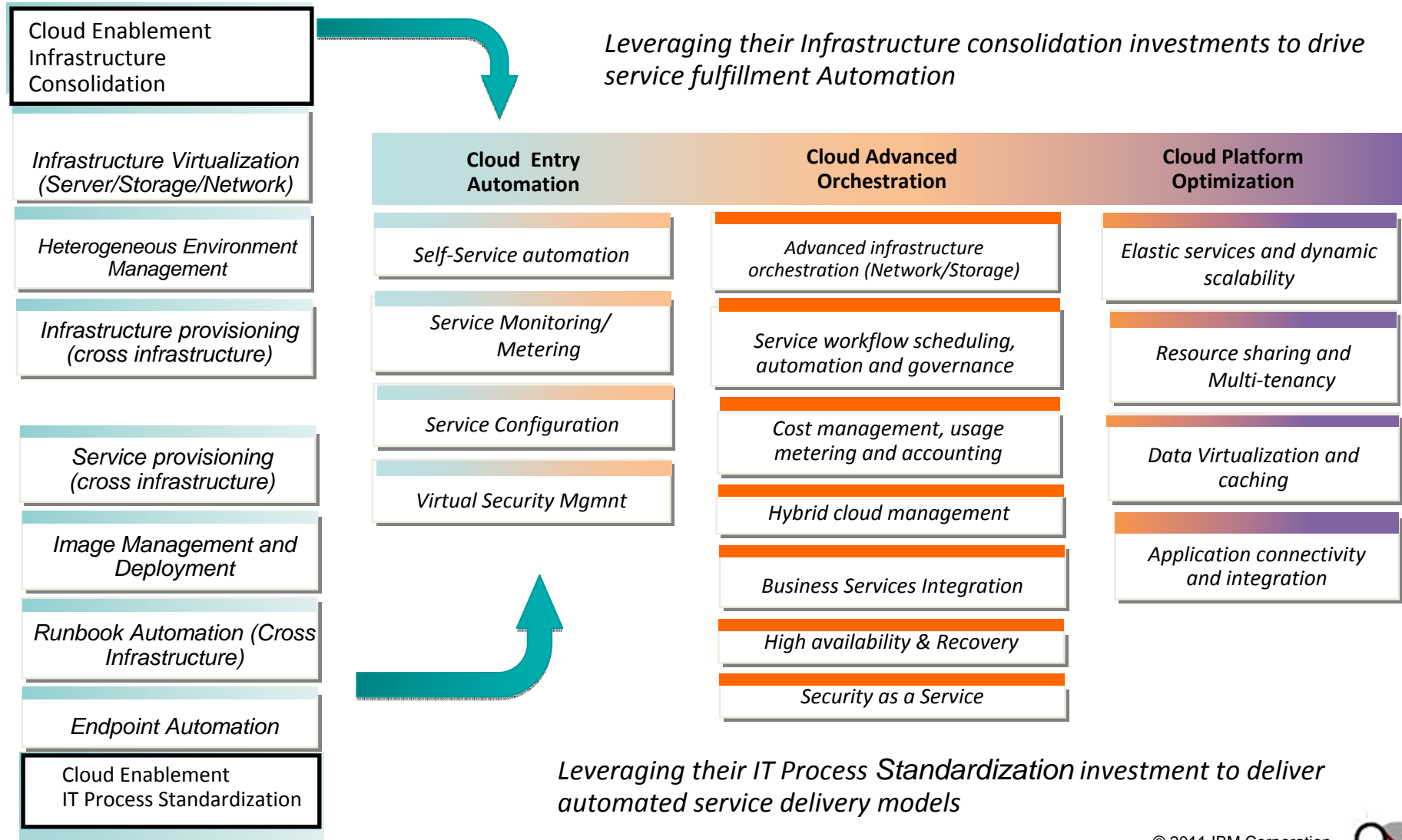
Track usage of resources



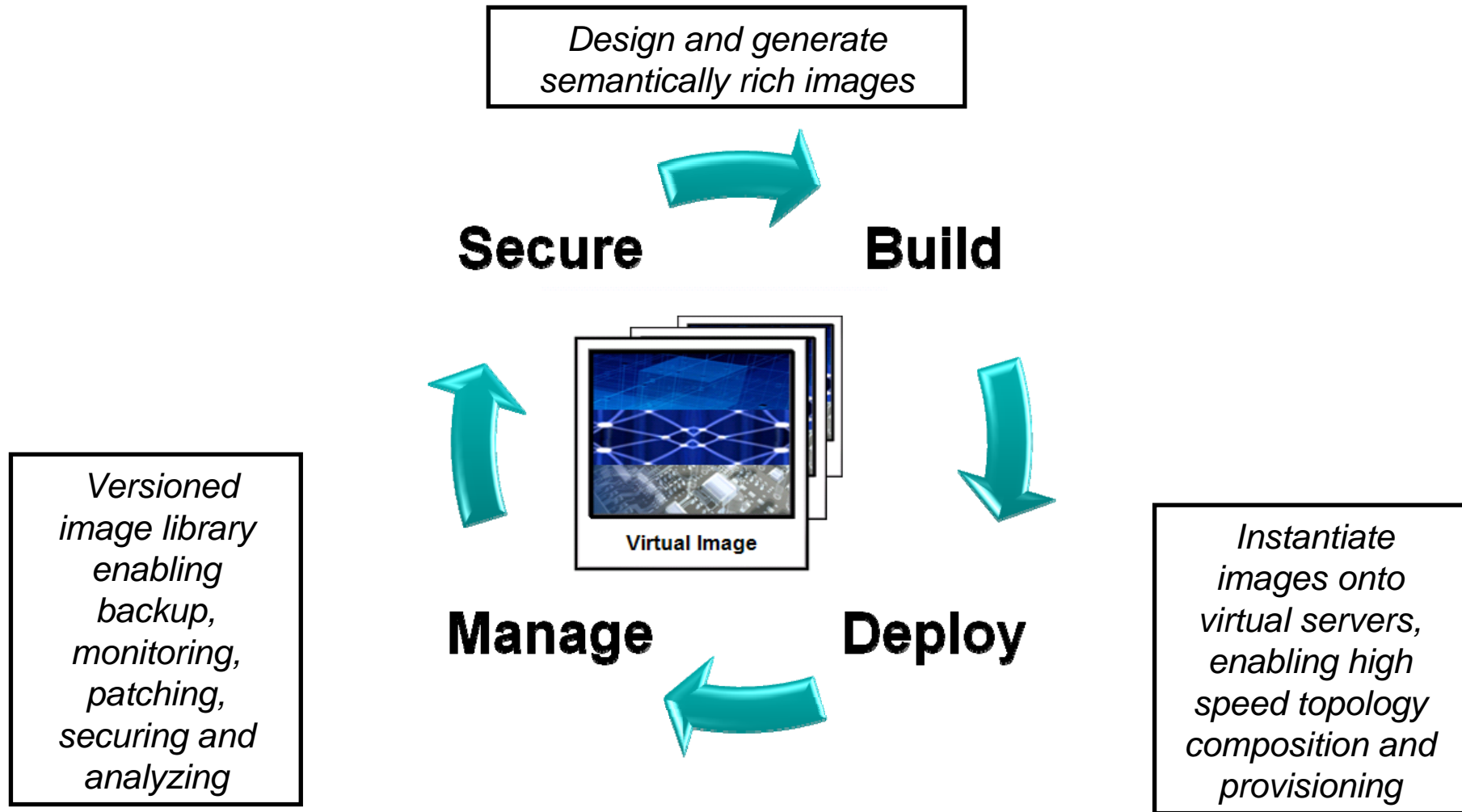
Integrate and Connect

Integrate and connect across cloud environments

Clients are approaching cloud from two key entry points



Provision, Manage and Secure Image lifecycle

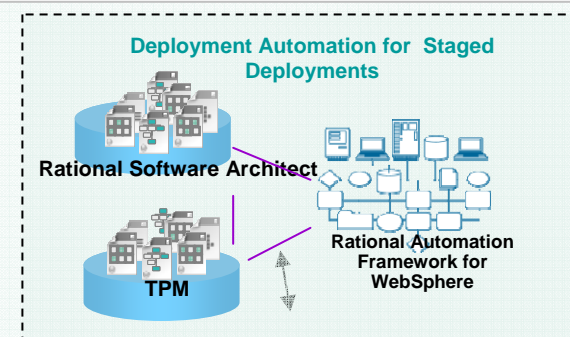


Provision, secure and manage Image lifecycle automation



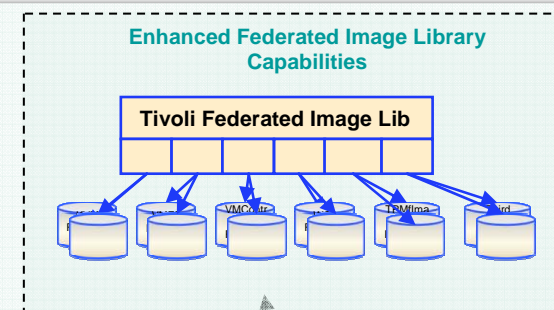
How can I automate and expedite deployment of my dev/test topology?

- Plan, automate, and govern deployment of composite applications as part of the application life cycle.
- Capture running composite services and build golden images



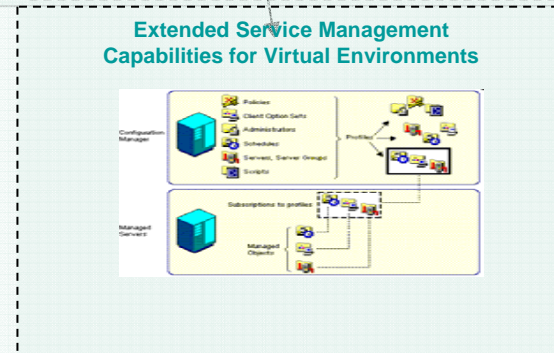
How to govern proliferation and deployment of images?

- Catalog & Index images with content across many repositories.
- Versioning, change management, provenance of images.
- Update and Patch images



How do I monitor, backup and secure my Virtual Environment? and link it to my mgmnt system

- High availability of applications through proactive monitoring, reduced labor cost for problem isolation
- Flexible, faster and frequent backups - granular, near-instant restore
- Multilayered intrusion prevention and firewall

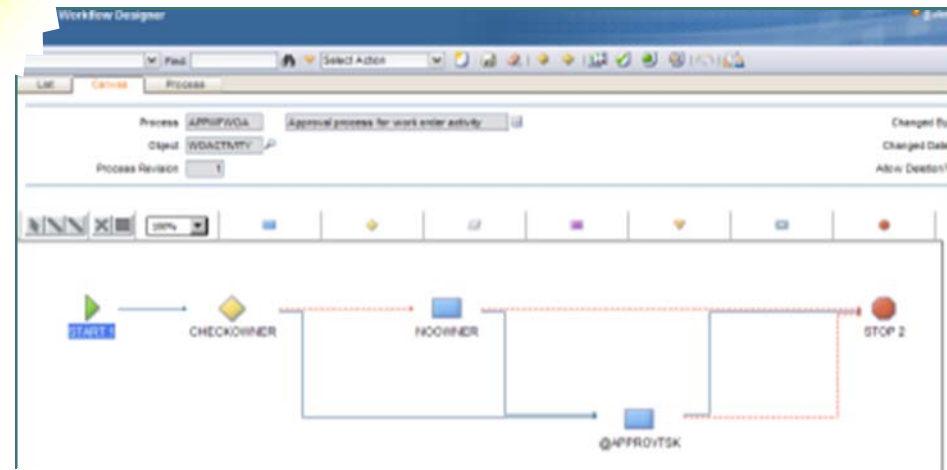


Orchestrate Workflow Runbooks Automation

**Available
Now!**

Integrate task automation!

- Unified Graphical Orchestration Tool
- Over 1,100 out-of-the-box automation tasks
 - Virtualization automation libraries
 - Software deployment and management
 - Network management
 - Storage management
- Re-useable automation between data center and cloud
- One-click task automation
- Essential sample process flows out of the box
- Performance and scalability improvements
- Platform and Hypervisor currency



Standing up a cloud rapidly

Tivoli Virtual Deployment Engine

Available
in Beta

- Hours/days to install instead of weeks/months
- Deploy a running VM in less than 30 seconds
- Handle high volumes of VM requests -- over 4,000 per hour
- Update/Upgrades with zero downtime

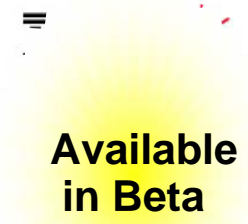


NC STATE UNIVERSITY

Virtual Computing Lab (VCL)

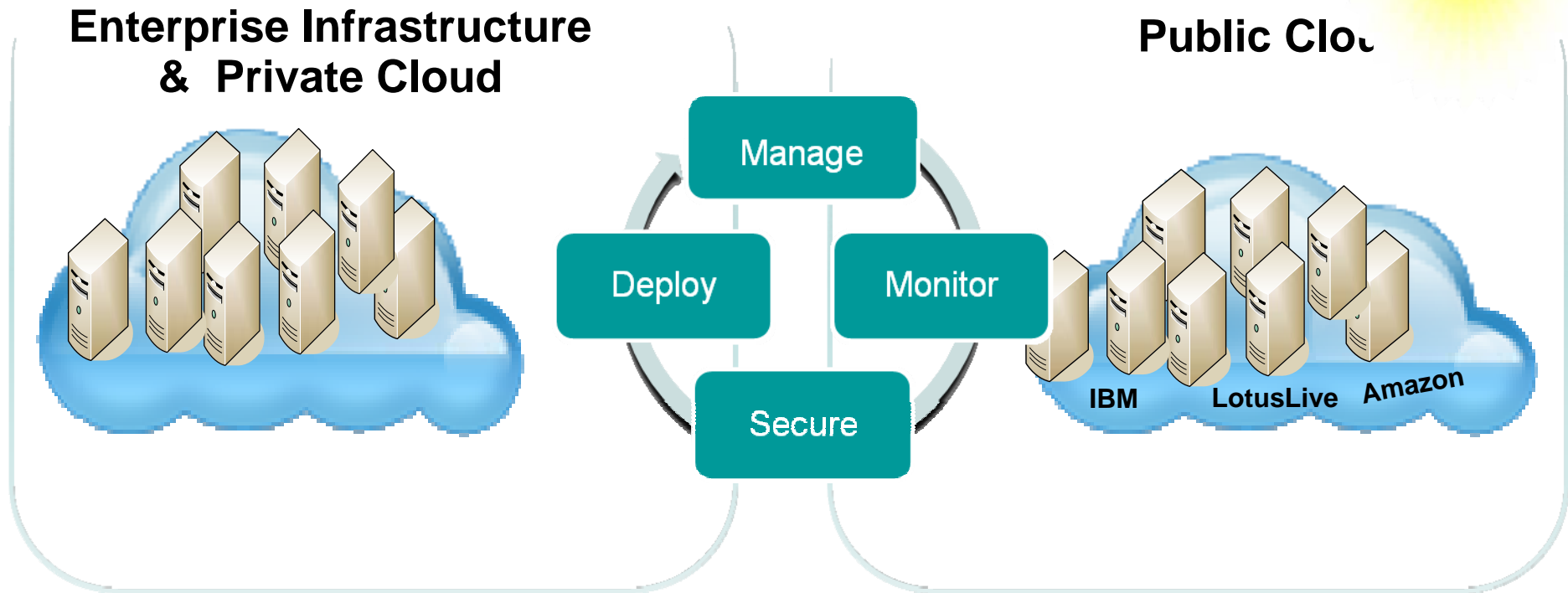
- Currently over 1000 images
- Supports approximately 250,000 students and faculty
- System availability: exceeds 99.9%
- Image reservation reliability > 99%
- Provides up to 120k image reservations per semester
- Reservation times range from 30 min to open-ended
- Extremely fast load times





Integrate and Connect -- Hybrid Cloud Integration

Available in Beta



Secure
Protect your virtual environment



Provisioning
Automate provisioning of resources



Monitoring
Provide visibility performance of virtual machines



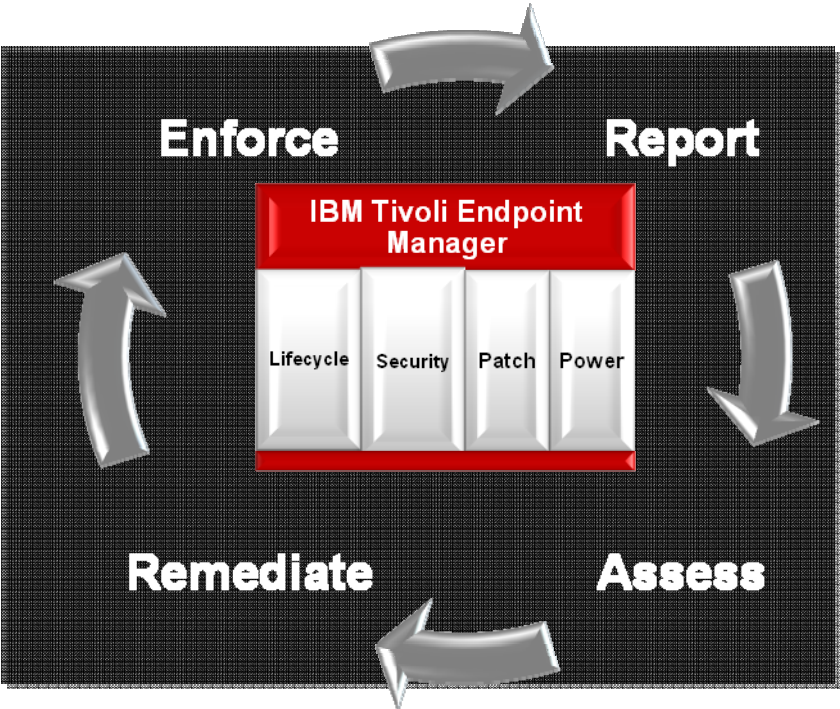
Tivoli Endpoint Manager

Built on BigFix Technology

Discover 10% - 30% more assets than previously reported

Library of 5,000+ compliance settings

- Patch Management
- Security Configuration Management
- Vulnerability Management
- Asset Management
- Network Self Quarantine
- Multi-Vendor Endpoint Protection Management
- Anti-Malware & Web Reputation
- Service

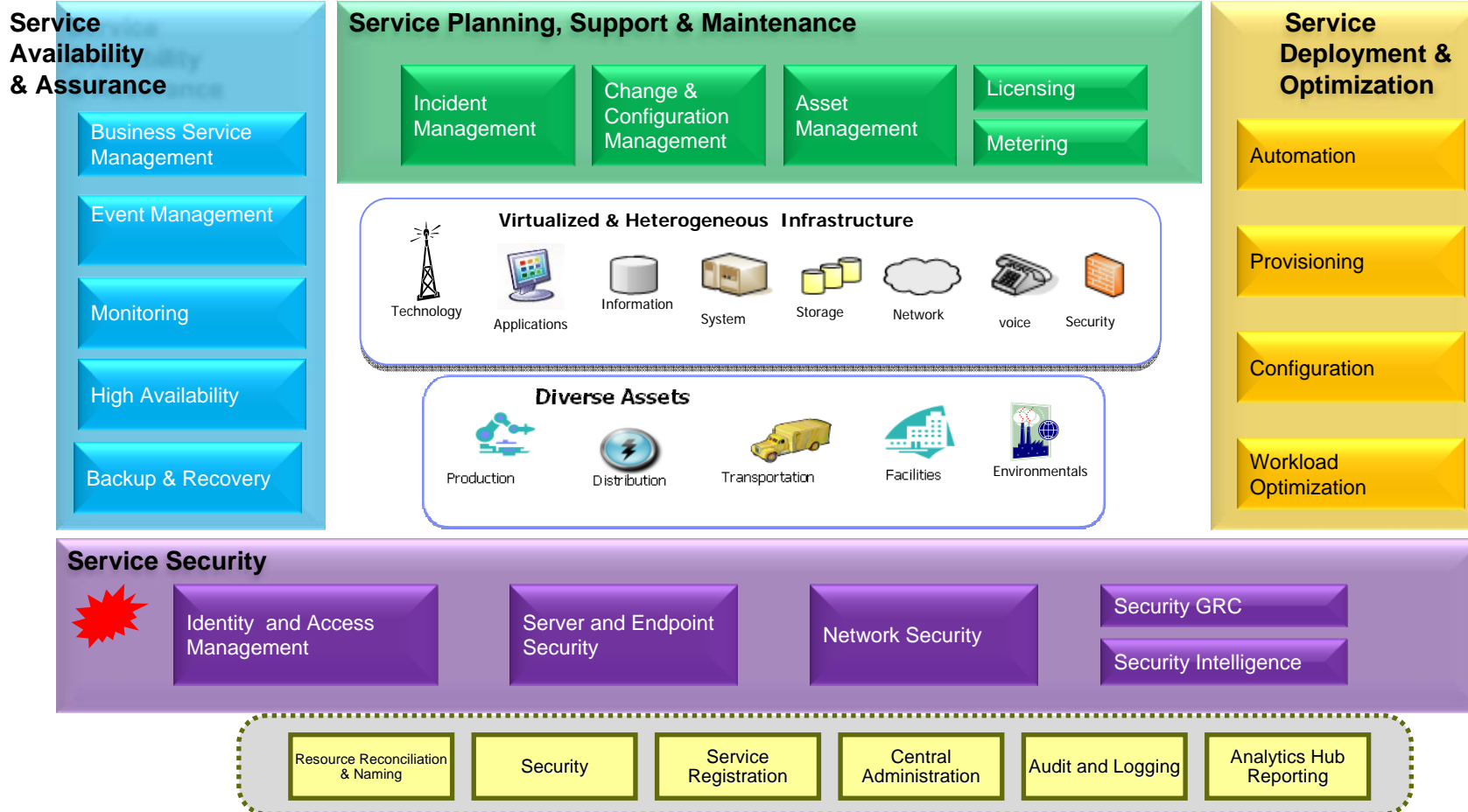


Automatically and continuously enforce endpoint policy

Achieve 95%+ first-pass success rates within hours of policy or patch deployment



Tivoli Integrated Service Management



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Secure and protect your network *Security Network Intrusion Prevention System GX7800*

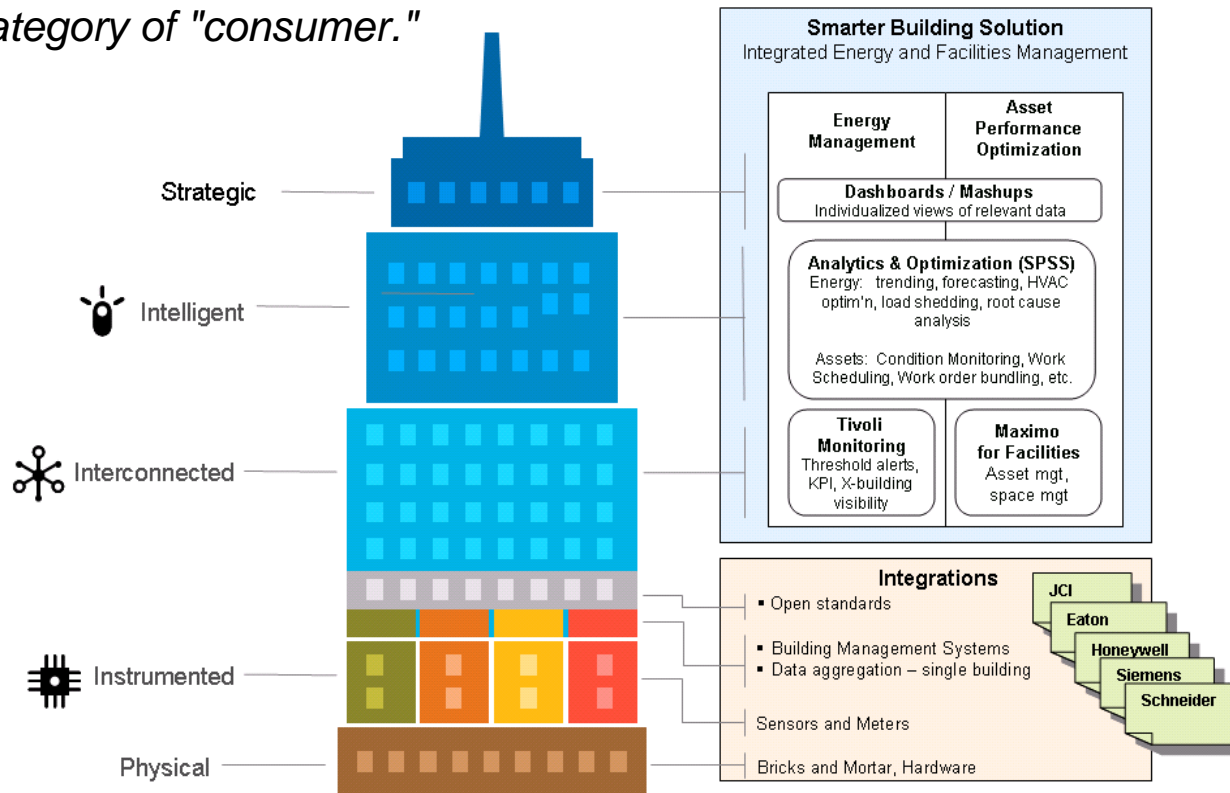
- Block threats before they impact your network
- Reclaim network capacity lost to threats or noise
- Broader security coverage over 10GbE networks
- Fast security inspection
- Integrated Data Loss Prevention (DLP) capabilities
- Web application protection (utilizing the IBM Injection Logic Engine)
- Eliminate the need for a stand-alone web application firewall
- Plug-and-protect easy deployments



Secure appliance for ultra fast
inspection for today's 10GbE
networks

IBM Smarter Building Solution

....by 2025, buildings will use more energy than any other category of "consumer."



- Aggregate, normalize, optimize across portfolio of buildings, across BMS brands
- Industry-leading analytics, proven 8% savings at mature IBM facility
- The only integrated energy mgt and facilities mgt solution



IBM acquires TRIRIGA

Providing unique capabilities that are essential to Tivoli's strategy

- Dashboards for Key Stakeholders
- Real-time visibility to events: weather, utility pricing, consumption
- Converge Energy and Business Data
- Energy data, space utilization, occupancy, financial (leases, bills), building ops
- Industry-specific Analytics
- Predict and correct equipment performance along with root cause analysis
- Control Mechanisms
- Automate building controls
- Optimal equipment scheduling

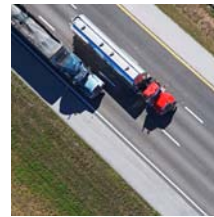
Production
Infrastructure



Facilities
Infrastructure



Transportation
Infrastructure



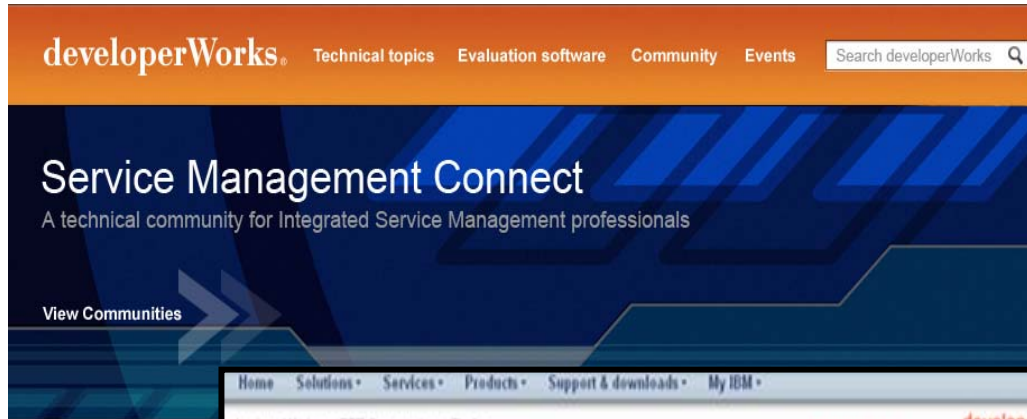
Technology
Infrastructure



Communications
Infrastructure



New Communities!



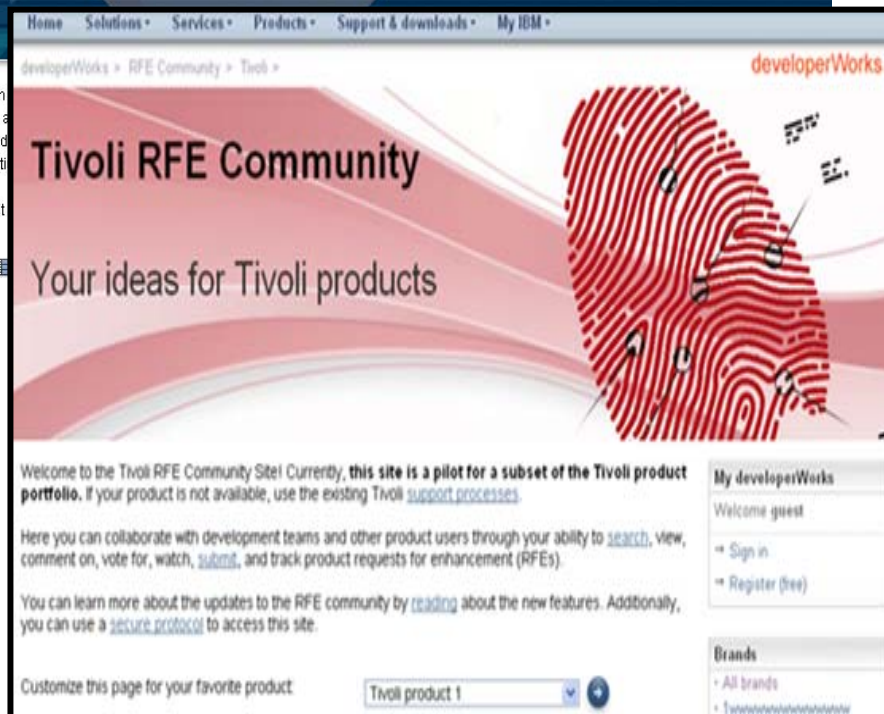
Service Management Connect

- New community for Integrated Service management practitioners
- Connects you with the technical experts
- Provides best practices for using service management products
- Now supporting 1,500+ members
- Over 200,000 active pages views

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Nunc lobortis convallis erat. Ut pretium nunc.

Meet the Expert



RFE Community

- New tool for requesting product enhancements
- Interact directly with product management
- Improved ability to manage and monitor requirements
- View and vote on other enhancement submissions



Questions





Thank You

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