

Collaborative Business Infrastructure Initiative

Objectives, Milestones, Lessons Learned

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Today's Topics



Drivers for the initiative

Team Objectives

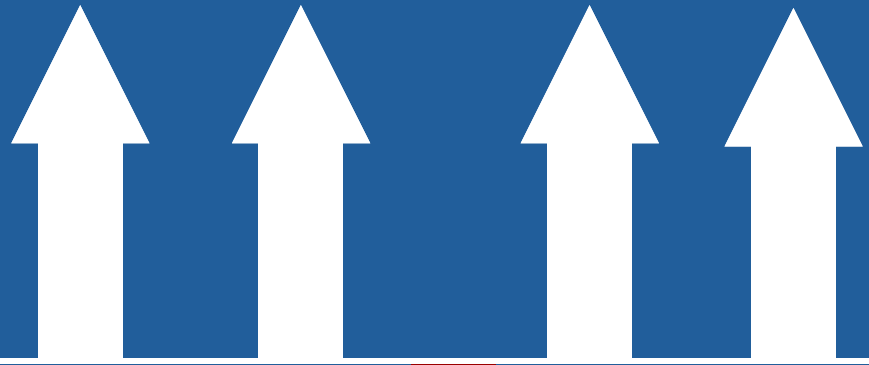
Architecture Deliverables

Benefits & Value

Key Learnings

Initiative Driver One: Industry KPI's, Goals & Strategies

Revenue Operational
Effectiveness Value Customer
Satisfaction



reduce material costs by 10-20%
within the supply chain

reduce product innovation
cycles by 30-50%

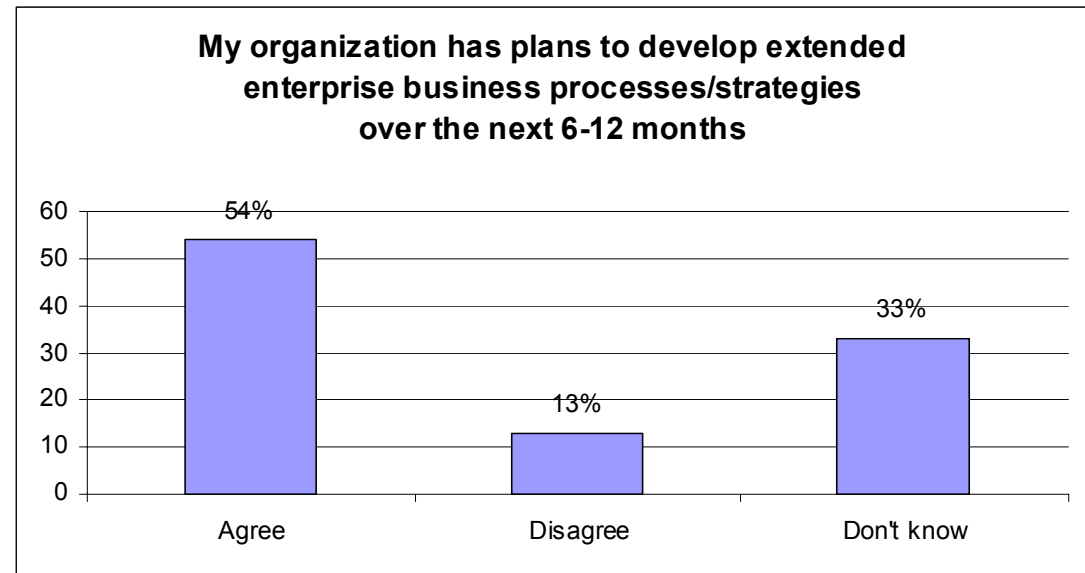
Strategies & Tools

- Supply Chain Collaboration
- Re-use initiatives
- Lean manufacturing
- Trading partner enablement
- Vendor Managed Inventory

Initiative Driver Two: What executives are saying...

(Larstan Publishing survey of 103 business executives)

- Standardized business processes provide strategic benefit (**>85%**)
- Business initiatives such as web based procurement and vendor managed inventories provide strategic value and advantage (**>90%**)
- The move to extended enterprises continues (**95%**)
- Web services will be part of the business infrastructure moving forward (**>50%**)

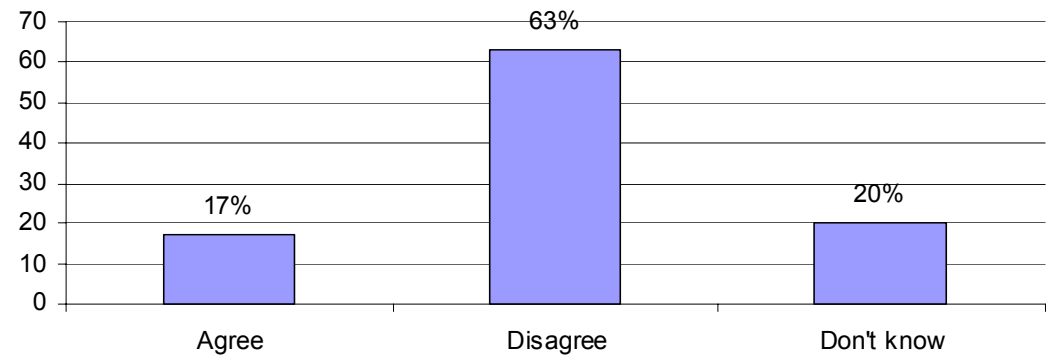


...there is a business-to-IT gap



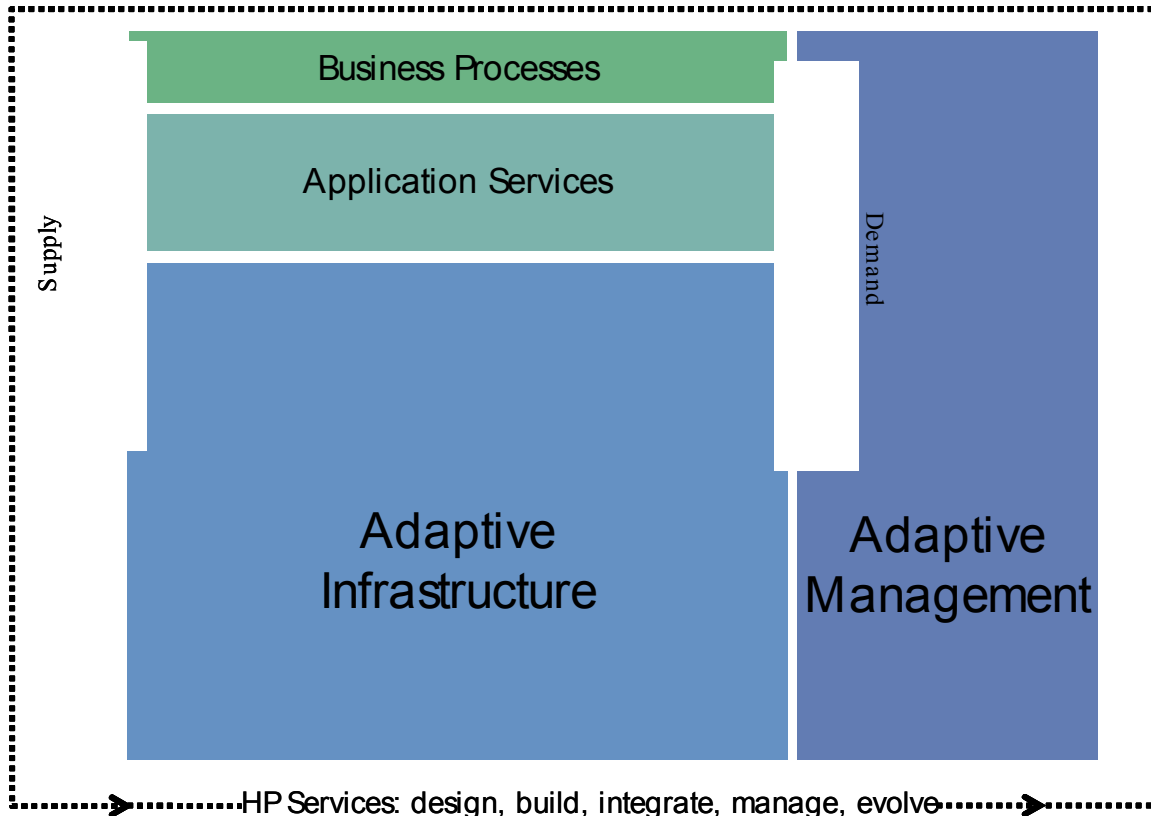
Existing (legacy) platforms are not currently optimized to effectively enable extended enterprise operations

Existing enterprise systems in my organization are currently optimized to manage an extended enterprise effectively.



Initiative Driver 3:

On May 3rd, HP announced the Adaptive Enterprise strategy



Tight linkage between **IT and business strategy** & extension to suppliers, customers.

Improved service levels through **tighter integration**.

Maximized utilization of available resources through sharing and synchronization across all business functions.

Simplified top to bottom **management and control**.

An IT foundation that dynamically adapts to rapidly changing business conditions

Initiative Driver 4: Customer and partner mandates

- Customers (rightfully) expect industry “business infrastructure” requirements to drive the technology vendor infrastructure response

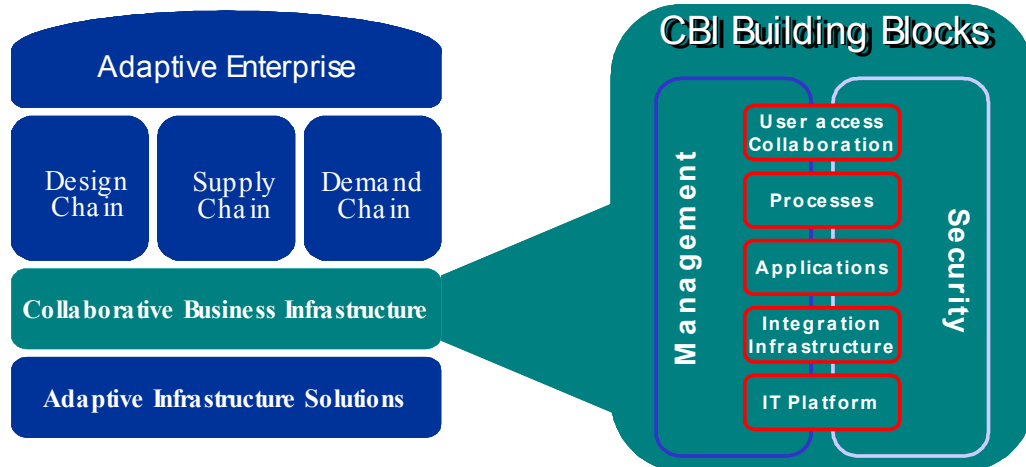
- We are infrastructure & technology vendors and should be able to:
 - Suggest 70/30 reference baselines (**repeatability**)
 - Build velocity into deployment (**templates**)
 - Take out complexity (**modular packaging**)
 - Take out risk (**CBI partnerships**)

Manufacturing Industry Team Response

A CBI

An Adaptive Infrastructure that provides an anchor point for key strategic initiatives with suppliers and partners in the Design, Supply, and Demand chains.

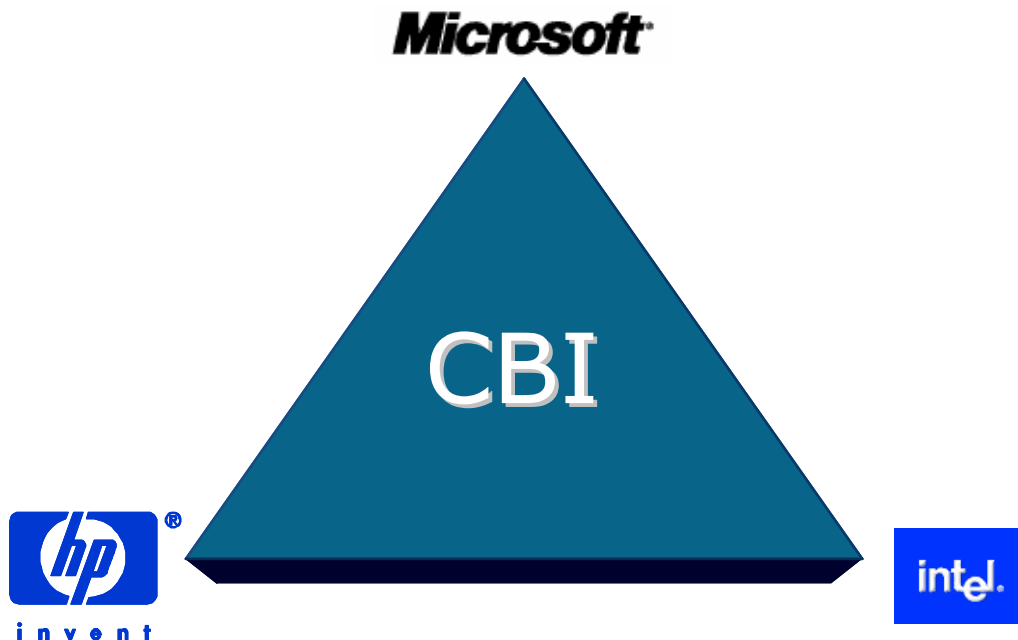
It helps to manage change in technologies, partners, or business models by providing a consolidated platform for **integration, collaboration, and process standardization.**



- An integration and collaboration framework built on a web-services ready technology platform
- A security architecture and tools designed by HP Labs for extended enterprise operations
- A management console to monitor business as well as infrastructure elements
- A set of reference I.T. architectures for common Design and Supply Chain needs.
- A library of deployment accelerator templates to speed time-to-value.

Project Objectives

First Gate: Build the Project team



- Formed in January 03
- Each company invests
 - Architects
 - Technology
 - Labs access/time
 - Field resources
- Overriding goal
 - Three technology leaders focused on one core offering
 - Risk mitigation through brand(s) partnership

Project Objective 1

- Focus on the five “C’s”
 - Customer
 - Connectivity
 - Communication with Confidence
 - Collaboration
 - Consolidation

Objective 2

- Deliver business value as an **enabling foundation** for process and workflow templates that drive industry KPIs
 - Design Chain
 - Collaborative Product Development
 - Design Re-use
 - Configuration Management (CMII)
 - Supply Chain
 - Vendor Managed Inventory
 - Real Time Services Management

Scoping Method: Industry BSP's & analyst interviews

Objective 3

- Accelerate customer KPI/ROI advantage with modular design that enables short duration/accelerated ROI increments to an enterprise framework.
 - Blueprint for a Collaborative Solutions Framework
 - Leverage/extend rather than rip/replace
 - Packaged/integrated building blocks
 - Incrementally funded, incrementally implemented, incrementally measured

Design Scoping: Set horizon strategically, provide package to implement (LOB) tactically

Objective 4

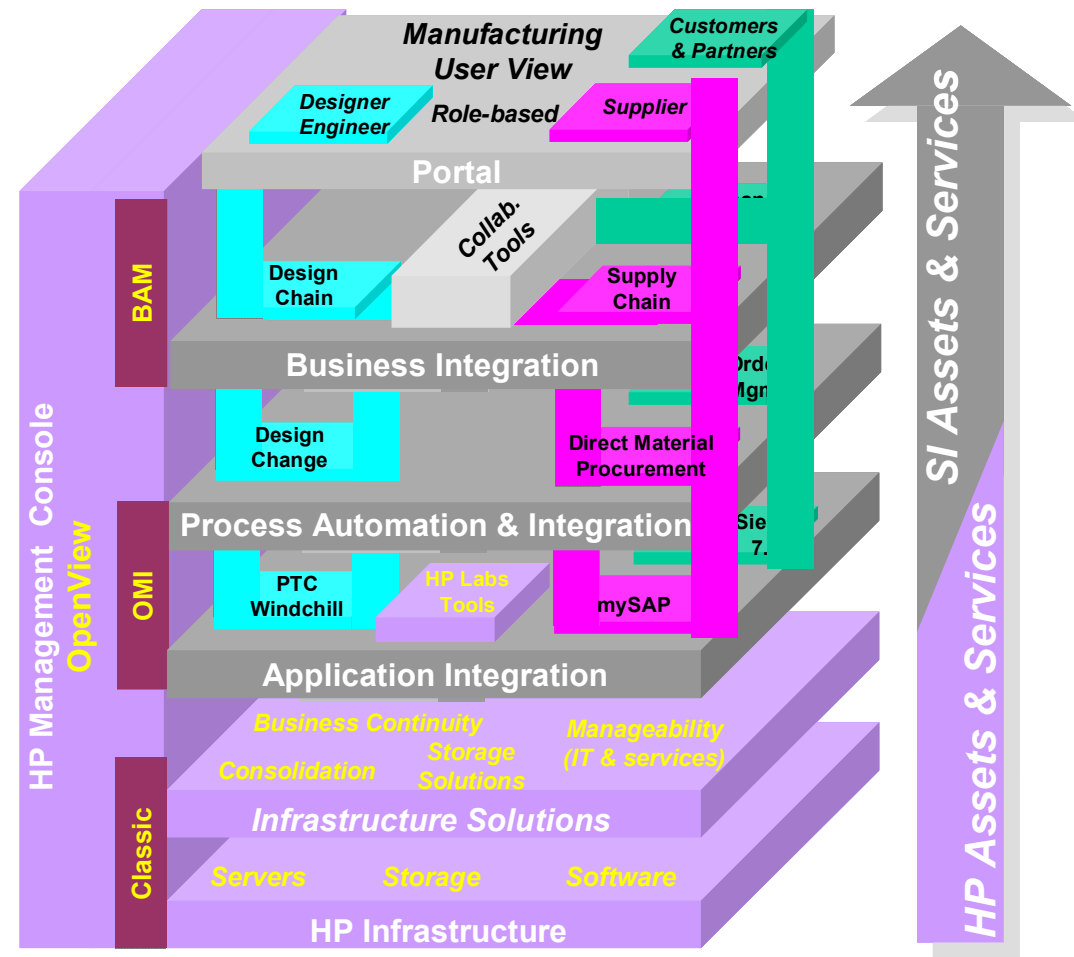
- Improve pace of achieving process-driven KPI's by reducing time-to-deploy and increment the infrastructure supporting the collaborative processes.
 - Deployment accelerators
 - Packaging
 - Repeatability
 - Bi-directional scalability

Measure: Time or cost reduction at each step

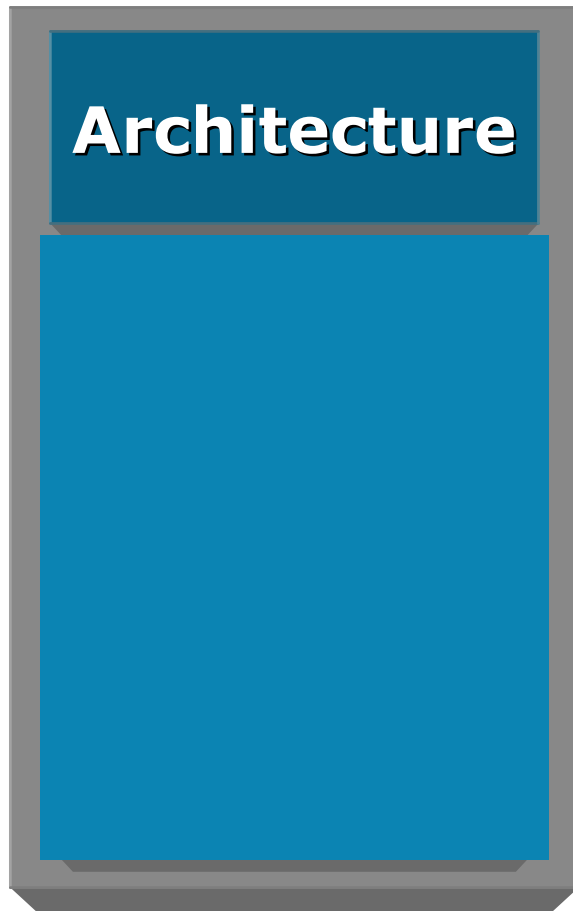
Architecture and Deliverables

Initial Architecture Objectives

- Integration platform
 - ERP
 - B2B
- Collaboration zones
 - People
 - Process
- Security/audit
 - Through firewall
 - End-to-End
- Monitored/metered
 - Infrastructure
 - Process
 - Service

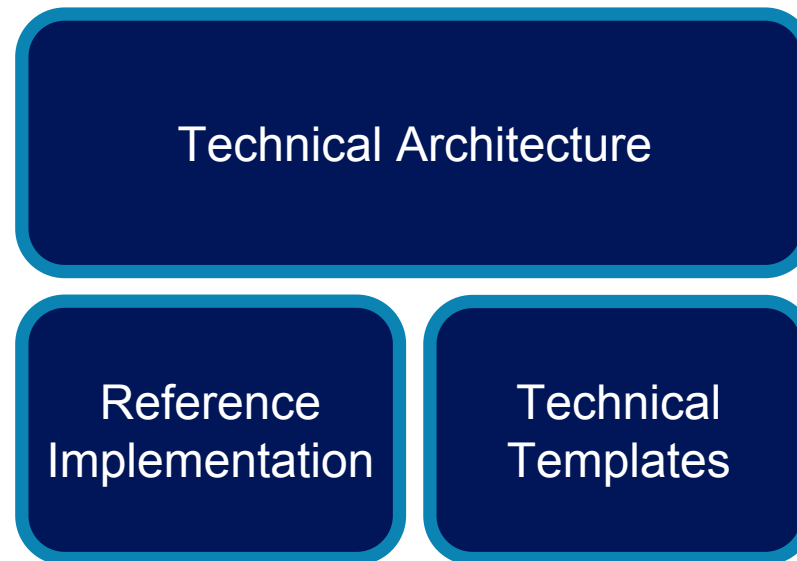


Workstreams

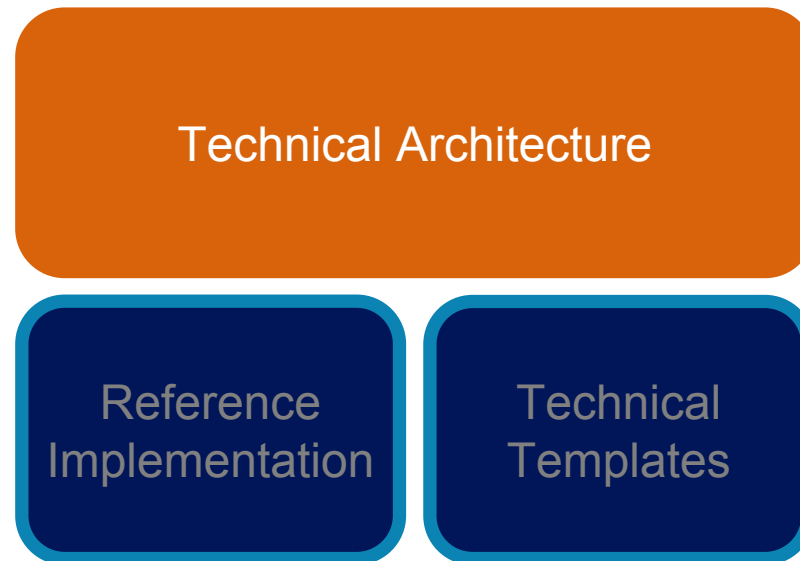


- Comprehensive program from requirements through delivery
- Overall program management provided by HP Consulting
- Global distribution of teams and workstream management and execution centers

Architecture Workstream: Preliminary Scoping



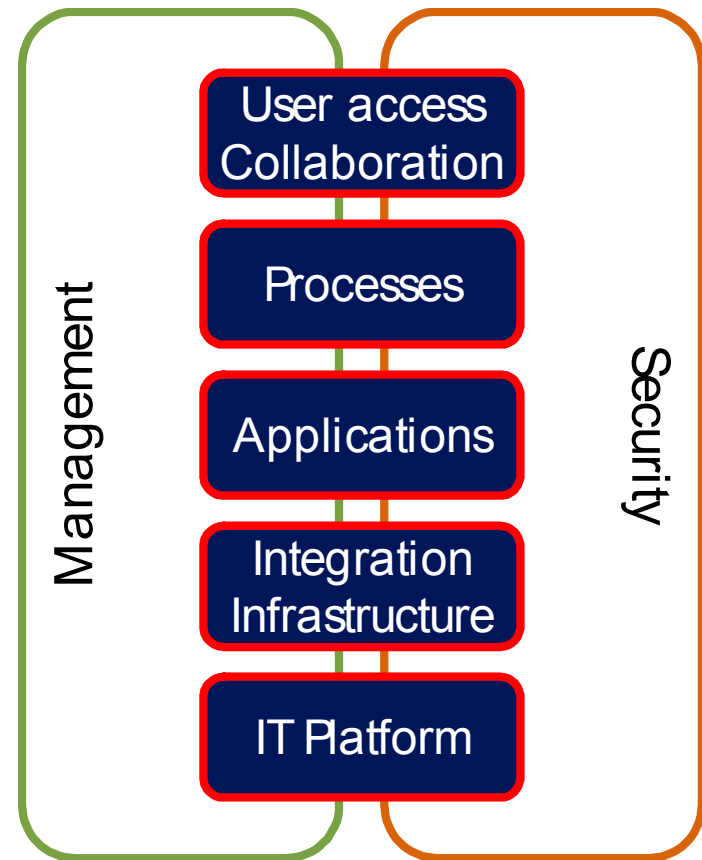
Milestone One: Technical Architecture



Principles: Technical Architecture

■ Elements

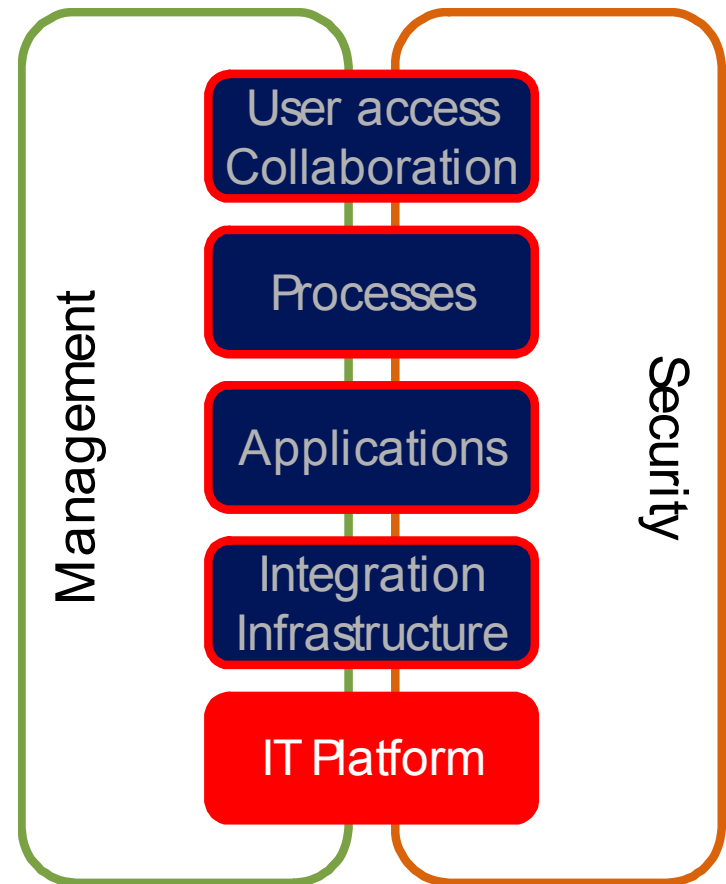
- Ensure client access through interfaces enabling access from a range of internal and external systems
- Select standard core components: system elements that provide basic functionality
- Create CBI extensions that provide enterprise functionality on top of the core components, and target enterprise needs
- Target data adapters to enable connectivity into most commonly deployed industry environments



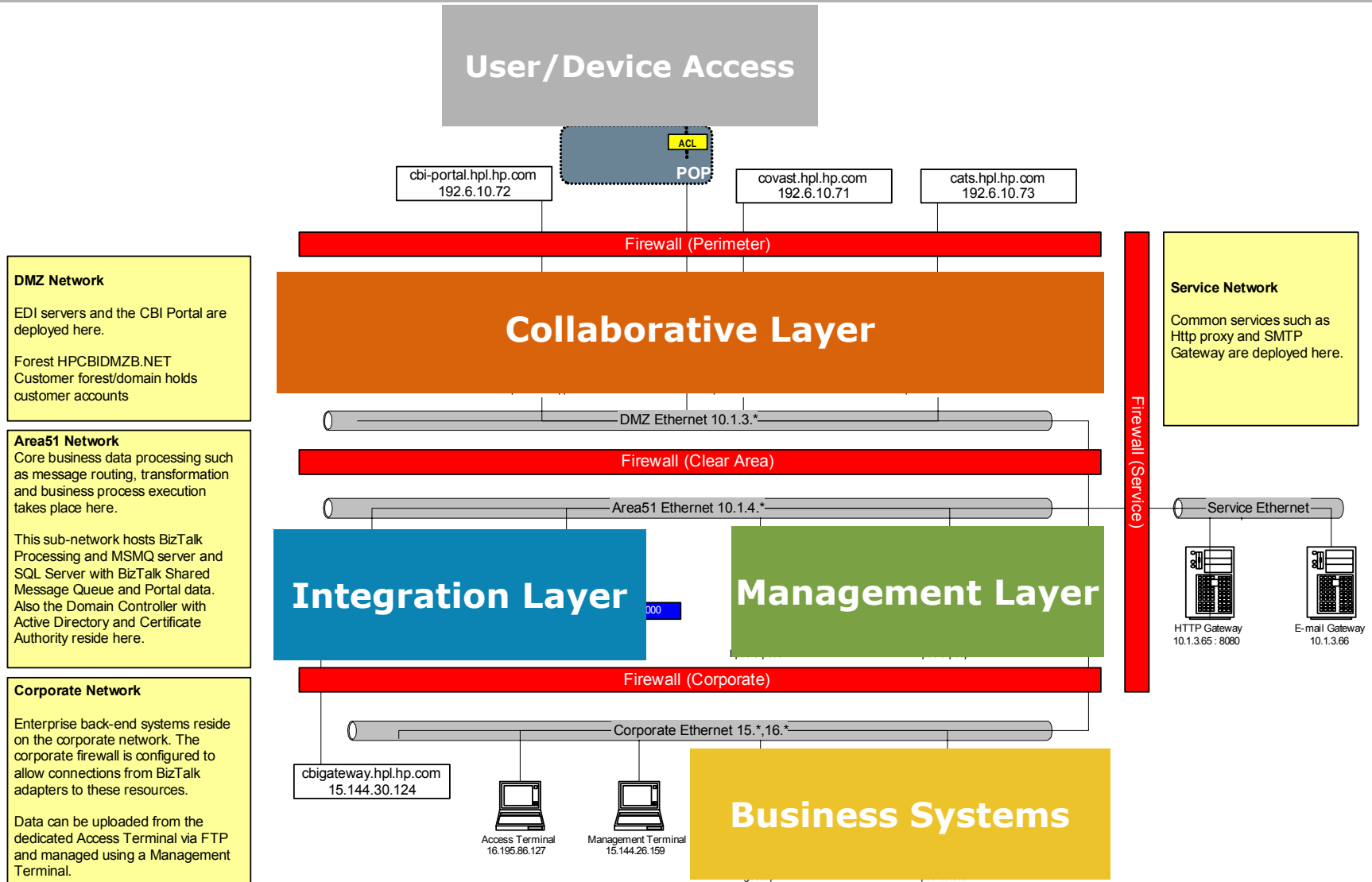
Architecture Element One: IT Platform

■ Objectives

- **Repeatability**: design to requirements that are jointly generated with BSPs for common industry problems
- **Deployability**: document the architecture, orchestrations, and templates to ensure rapid deployment at customer site
- **Scalability**: implementation roadmap calls for modular expansion of the architecture from any business solution starting spot
- **Lowest cost** extended enterprise framework



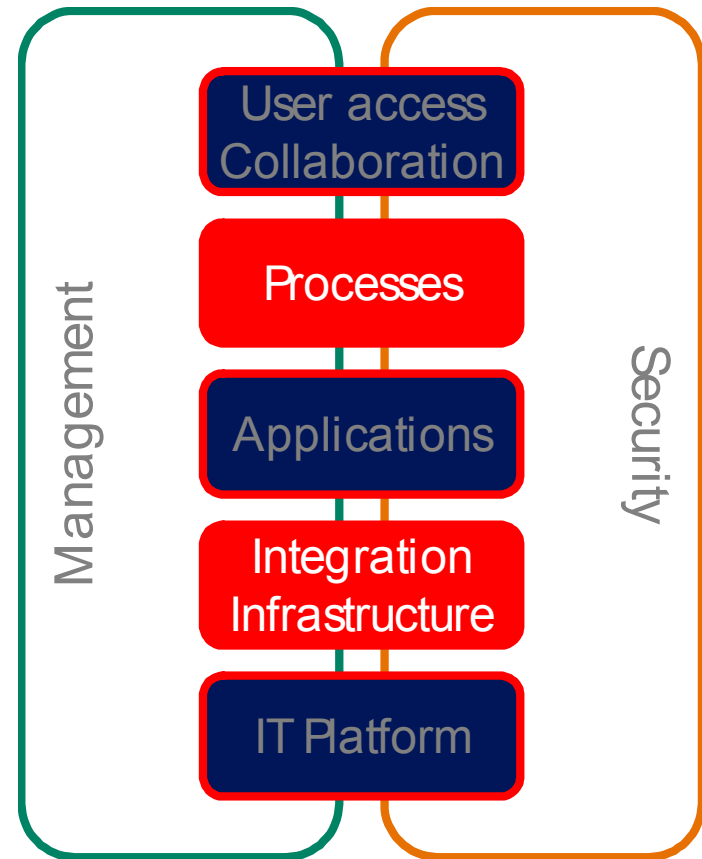
CBI IT Infrastructure



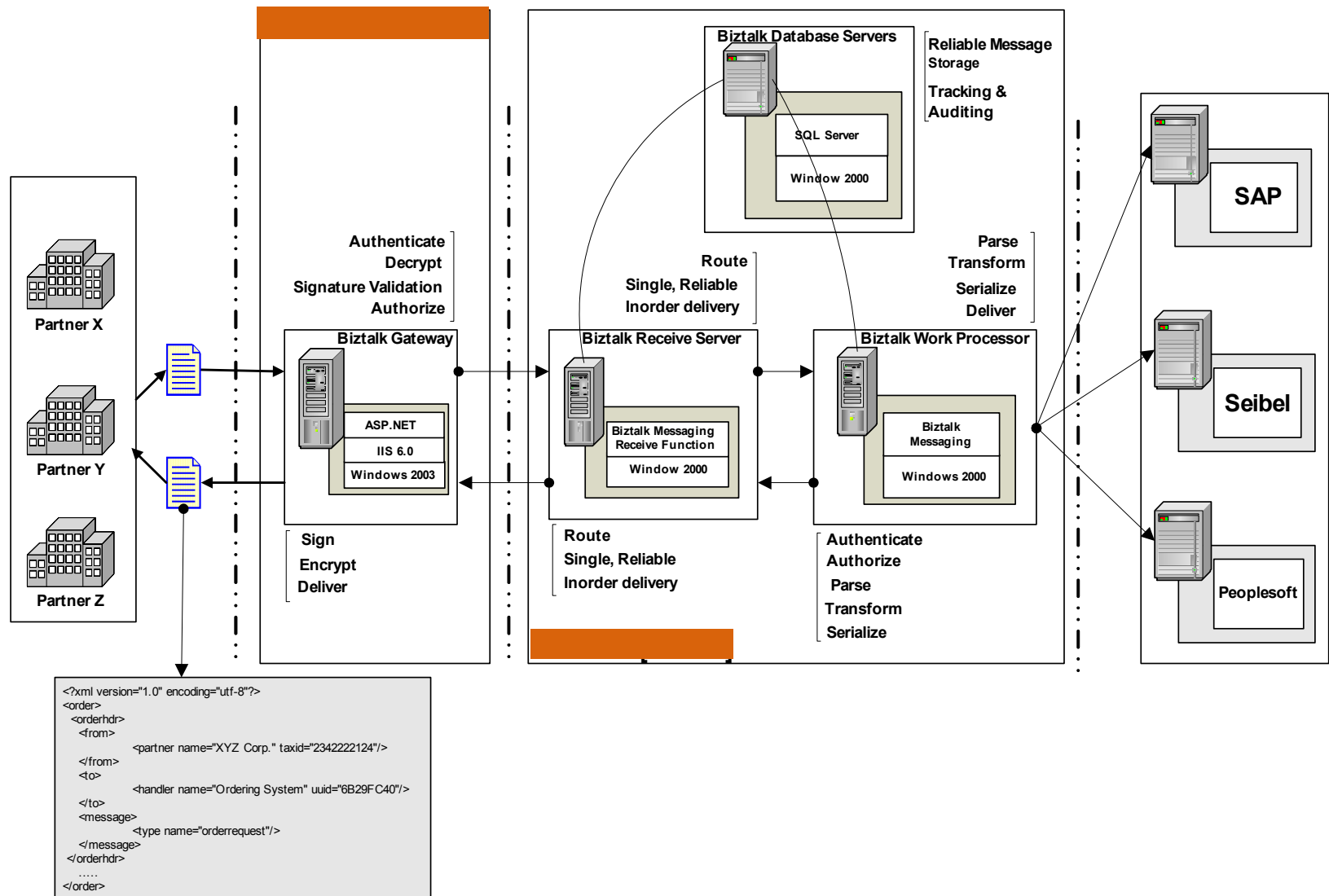
Architecture Element Two: Integration Infrastructure

■ Objectives

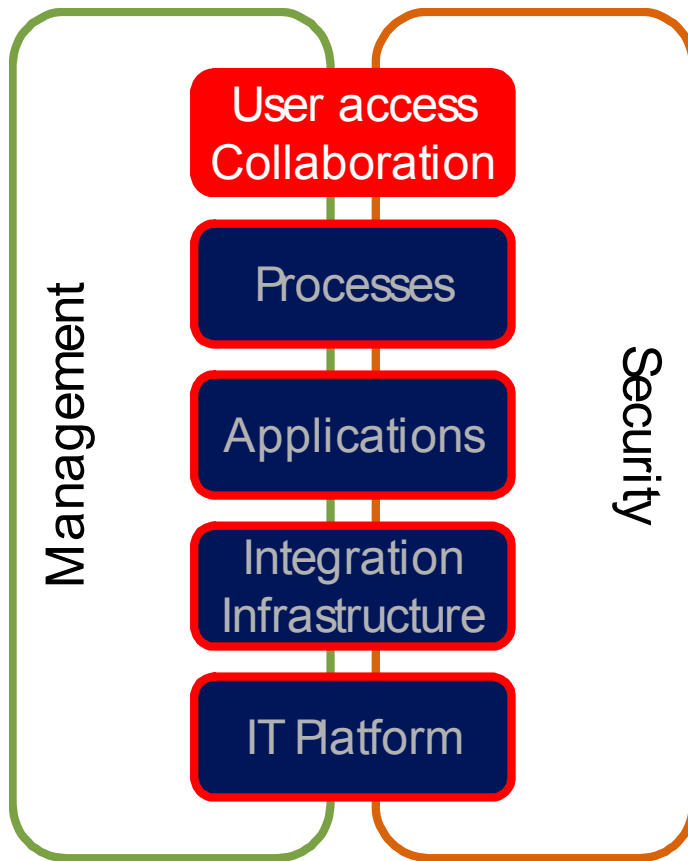
- Synchronization of data between applications as part of business processes such as Bill of Materials management, Supplier Alerts, Design Changes to MFG
- Transformation and routing of data between applications via a message based integration infrastructure
- Scoping, testing and selection of adapters to ensure connectivity into most common Industry environments



CBI Core Integration Architecture

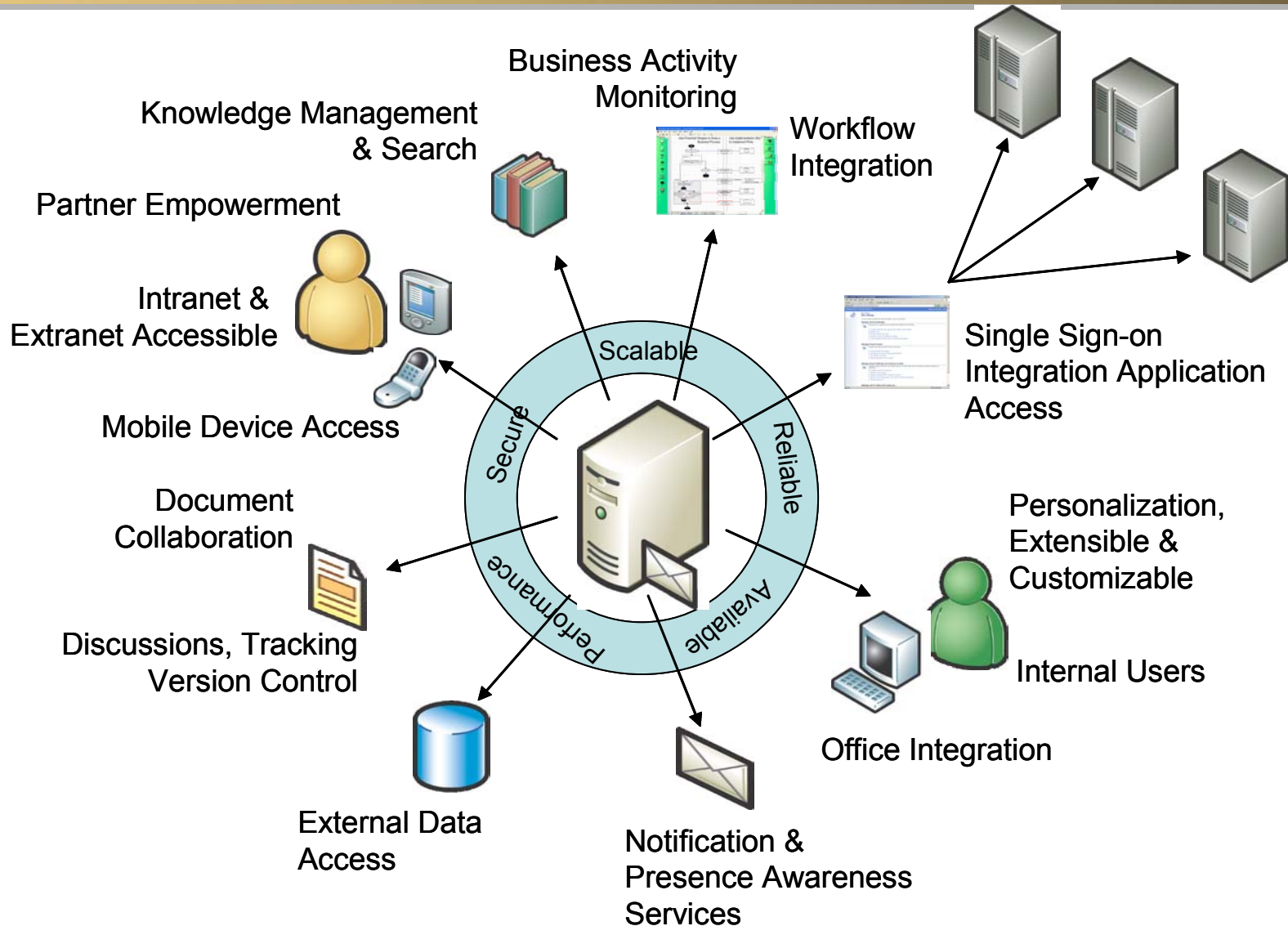


Architecture Element Three: Collaboration Layer



- Connectivity
 - Adapter based connections into integration infrastructure enable process creation
- Collaboration
 - Services delivered by business applications exposed as processes at collaboration layer
- Confidence
 - Security from application through portal, across internet
- Consistency
 - Management layer provides monitoring of infrastructure and select applications

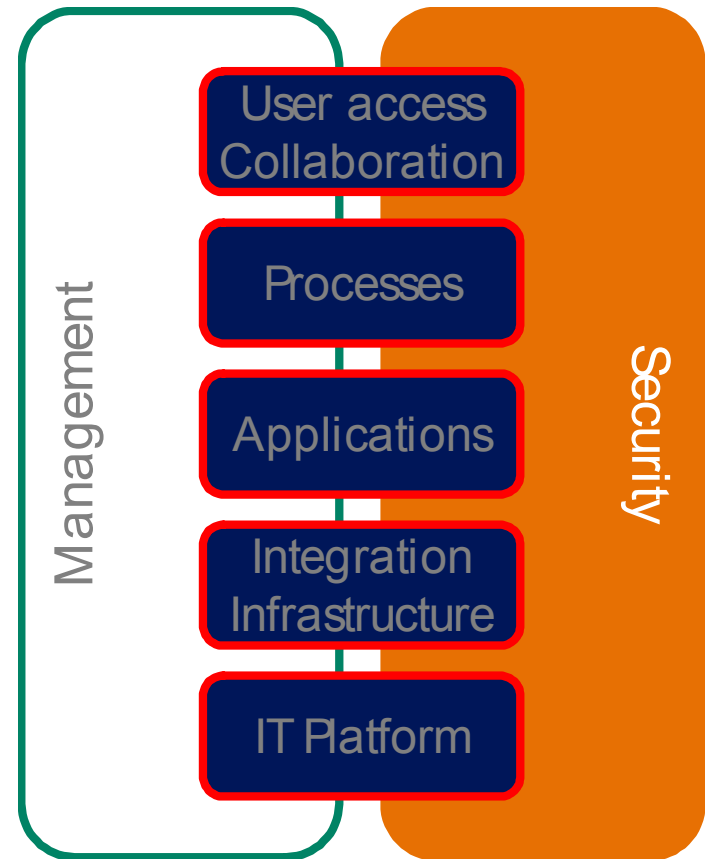
CBI Portal: ubiquitous gateway



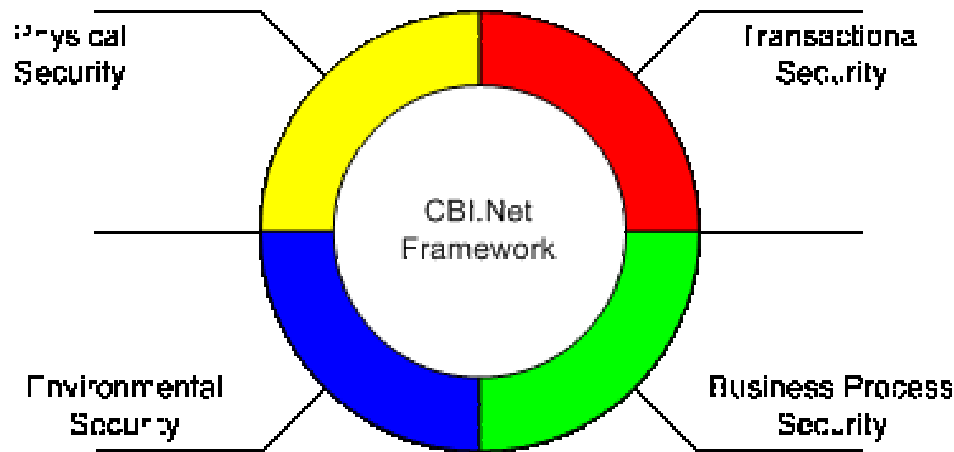
Architecture Element Four: Security

■ Objectives

- Enterprise hardened
- Utilize leading edge models, techniques and tools developed within HP Labs
- Map HP enterprise capabilities to Microsoft technology base
- Ensure End-to-End security to enable the modular implementation & “leverage and go” strategy from EAI to B2B environments



Scope of Security Model



- Multiple mechanisms – the auditing subsystem, the event management subsystem, session management, user management and client interface
- End-to-End
 - Features from the .NET framework
 - COM+ Interface security
 - Database lockdown with defined database security schema
- Session authentication integrated into the client access path, session model and user management objects
- Dynamic role-based access control to enforce limitations on business service access

Architecture Element Five: Management

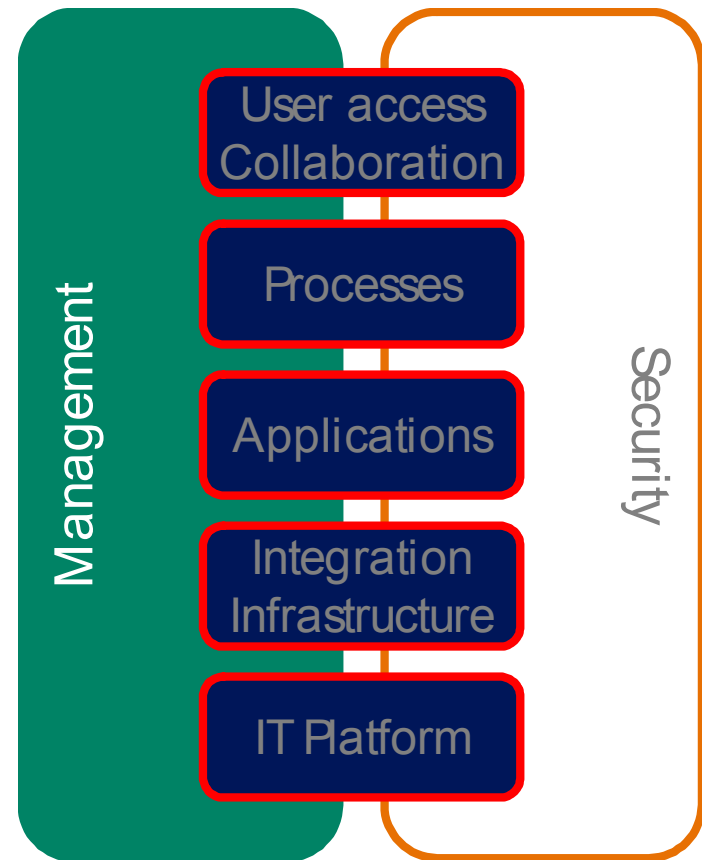
■ Objectives

– Now

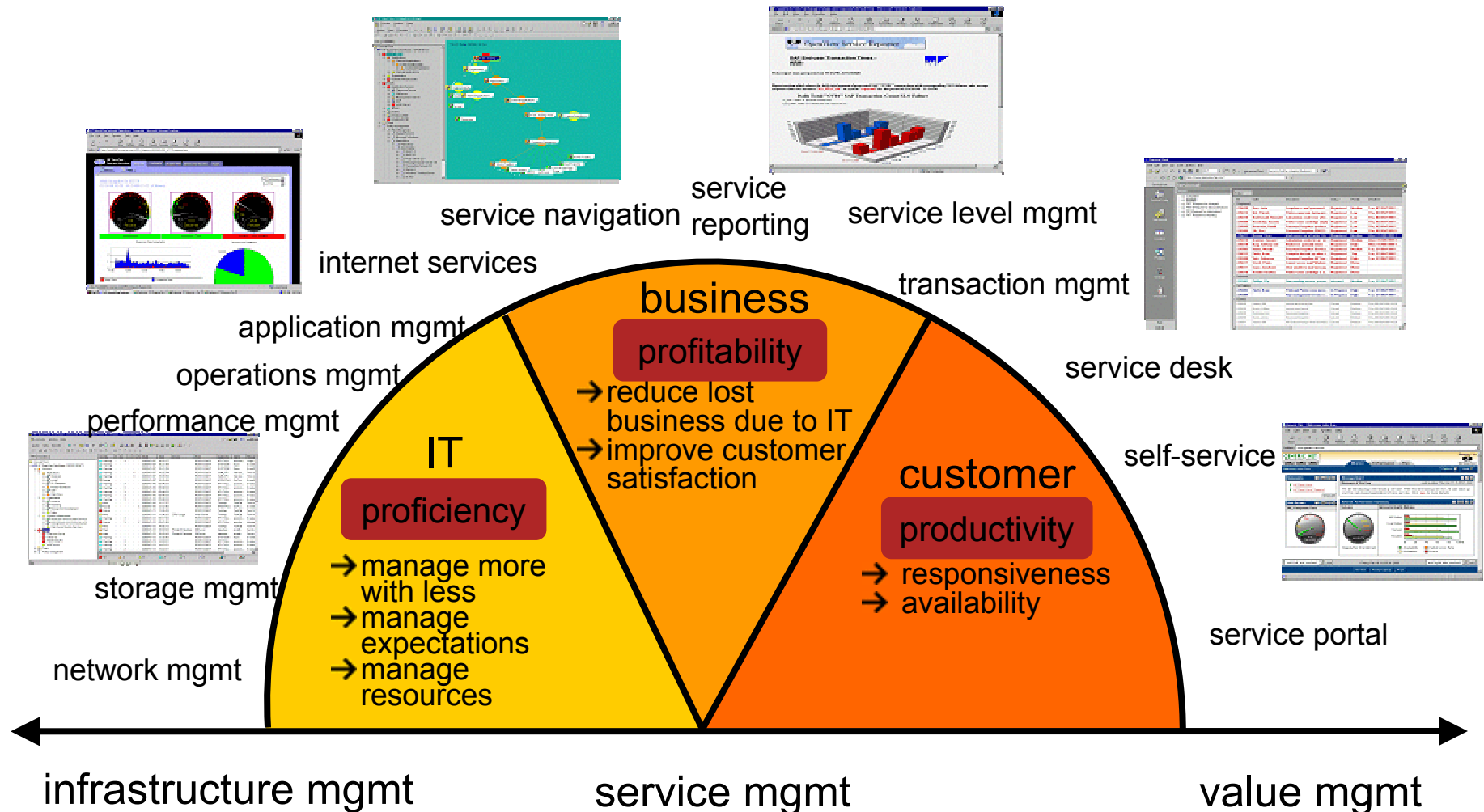
- Provide single console view for EAI/B2B core components
- Where possible, monitor the applications within the CBI

– Targeted

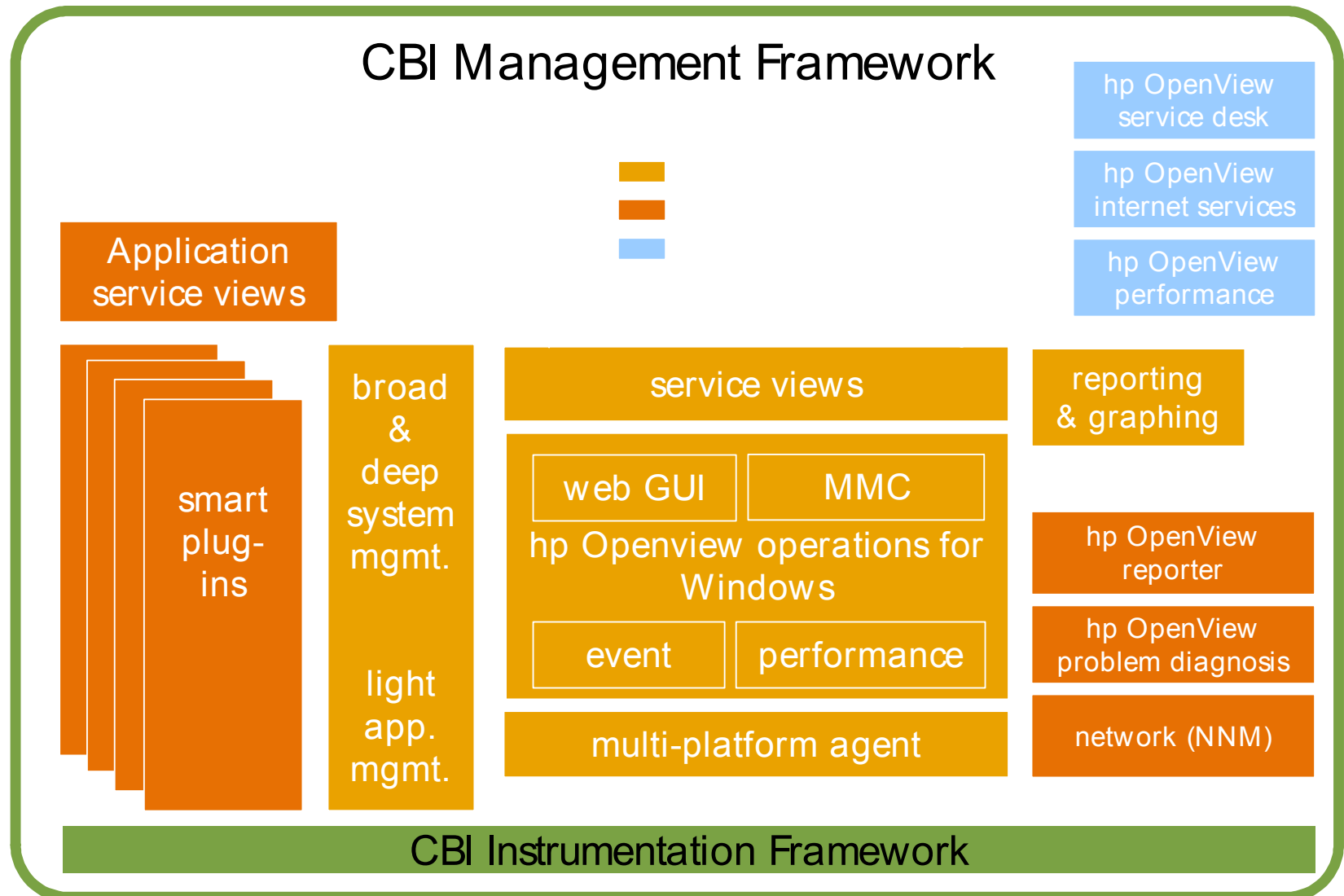
- **Web-services management** around emerging standards (Organization for the Advancement of Structured Information Standards, OASIS)
- **Business Impact Analysis** of IT events (monitor/audit/analyze)
- **Business Activity Management:** on key business metrics via a business dashboard and business driven events for IT management.



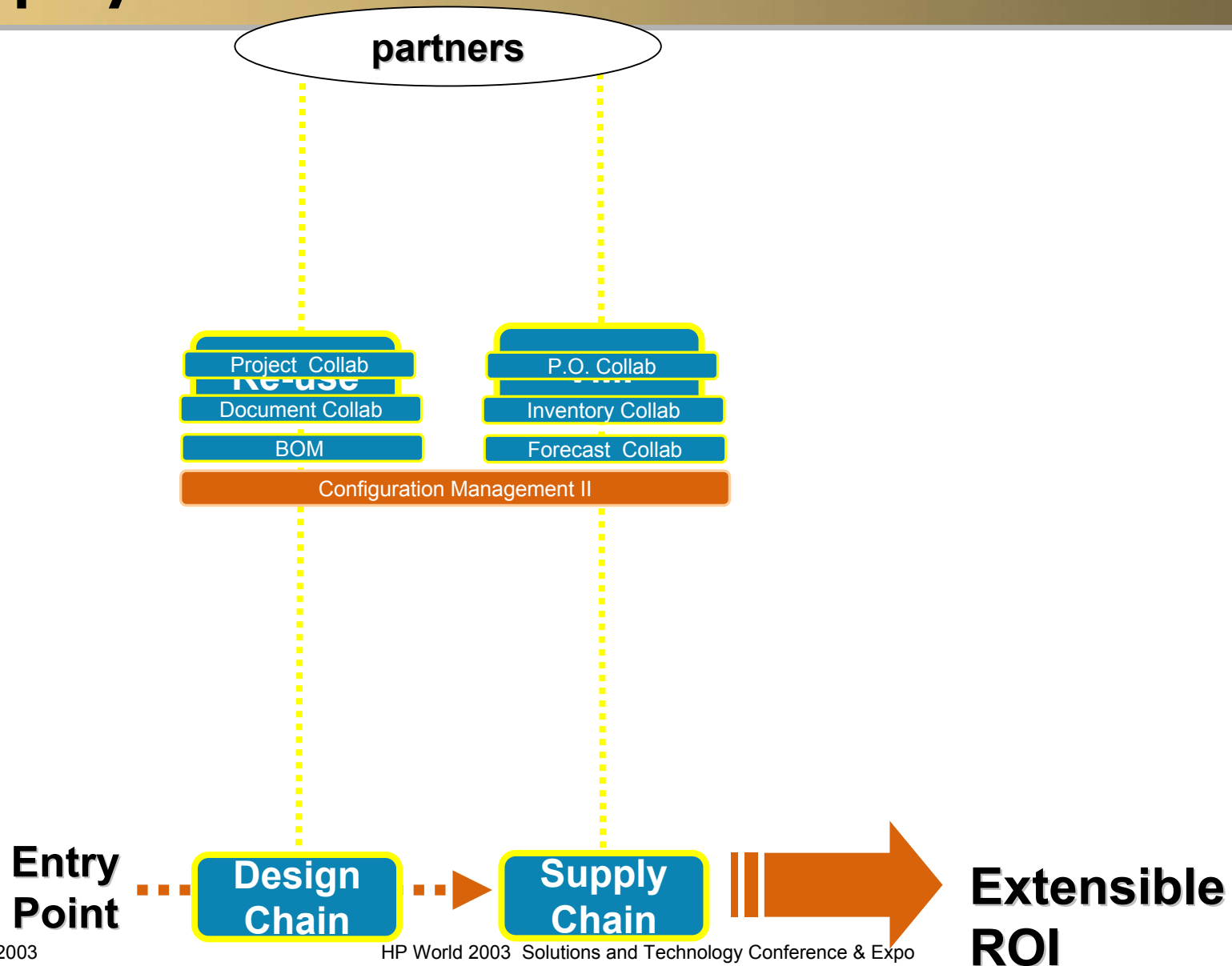
Management Portfolio



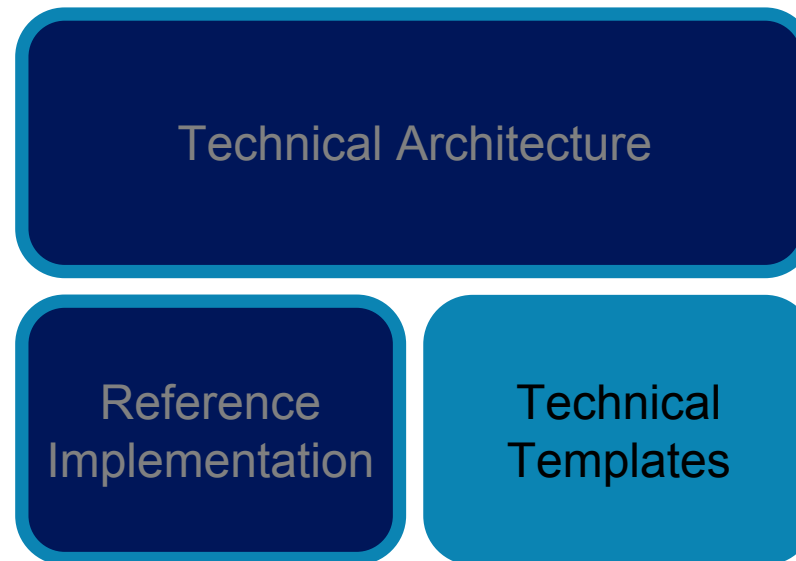
Openview Components



Deployment



Technology framework



Templates: Types and Examples

■ ***CBI Extensions***

- Add functionality to core components/architecture
- Improve “enterprise readiness”

■ ***Developed extensions***

- End to End Security Model
- Management Framework
- Web Service Extensions
- Configuration Management
- Auditing and Event Recording
- Document Routing Management
- Data Services Getaway

■ ***Deployment Accelerators***

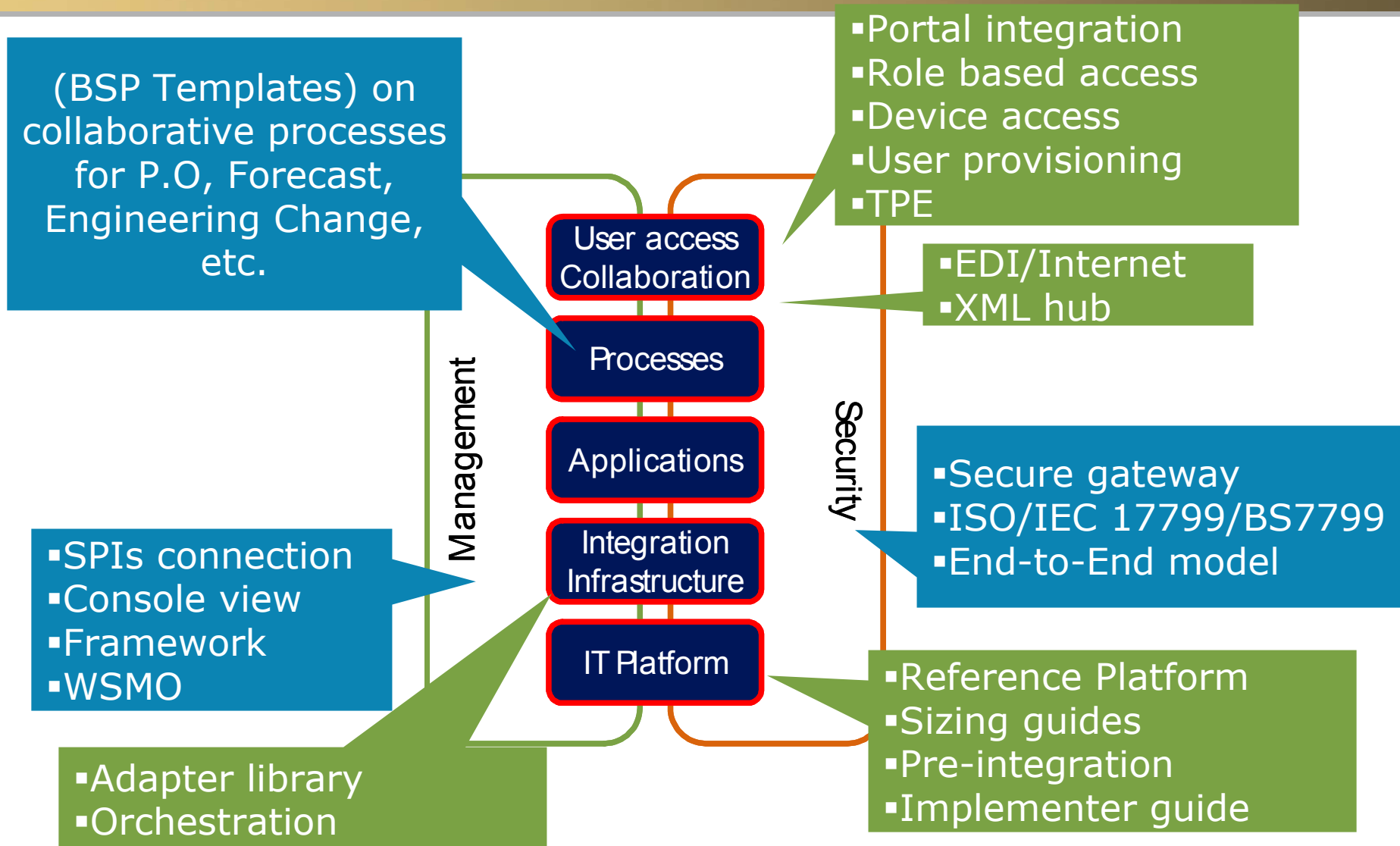
– **I.T. accelerators**

- Secure EDI over the internet
- User Provisioning
- Role Based Access
- Workflow Integration
- Deployment and Revision Management
- Activity Monitoring
- Portal Integration

– **Process templates**

- BSP-provided
- Workflows, process maps

Example Templates



Key Learnings

- The “whole” can be greater than the sum-of-the-parts when technology partnerships are focused on a common, shared objective
- Aligning the technology partnership with business partnerships is in the critical path for success
- Customer Advisory Board will be critical in shaping the CBI offering moving forward: customer/industry driven
- Reference architectures and sample templates drive progress to positive KPI's, accelerate ROI, and should be viewed by the vendor as value-add investments that yield tangible results



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