

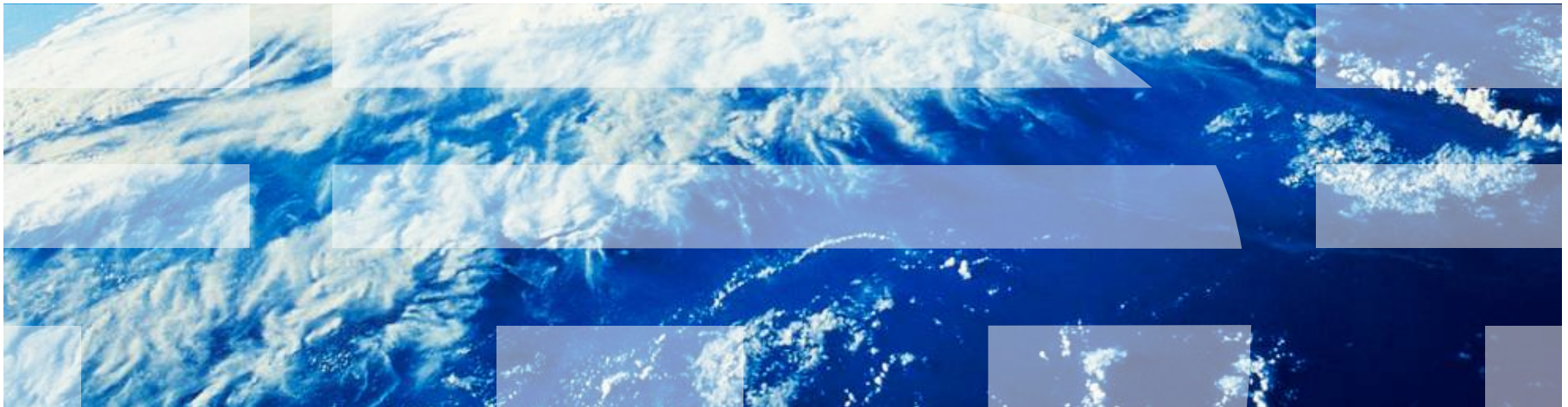
Jim Hendrickson, Program Director, IBM Sterling B2B Services

September 29, 2011



# B2B Cloud Services

## Tailoring Process Solutions with Web Services



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## Agenda

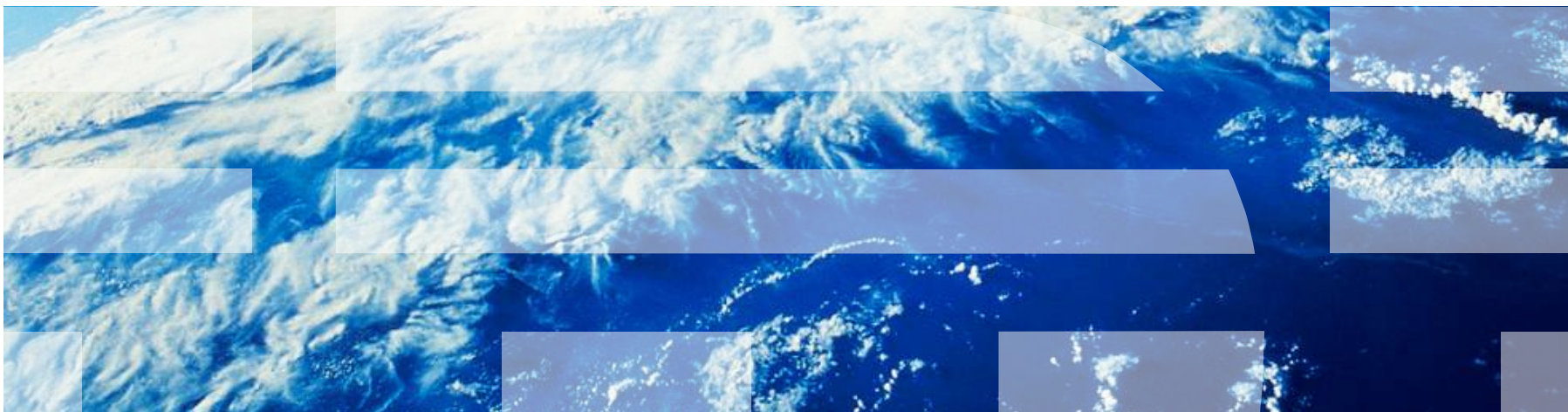
- **The Evolution of the Network Effect**
- **The Process Solutions Context in the Cloud**
- **The Web Services Context in the Cloud**
- **Web Services: 3 Use Case Examples**

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# B2B and the Cloud



## Cloud is a natural evolution of the of B2B model



- **A B2B Cloud is:**

- A new consumption and delivery model that will likely evolve from B2B services capabilities in the market today

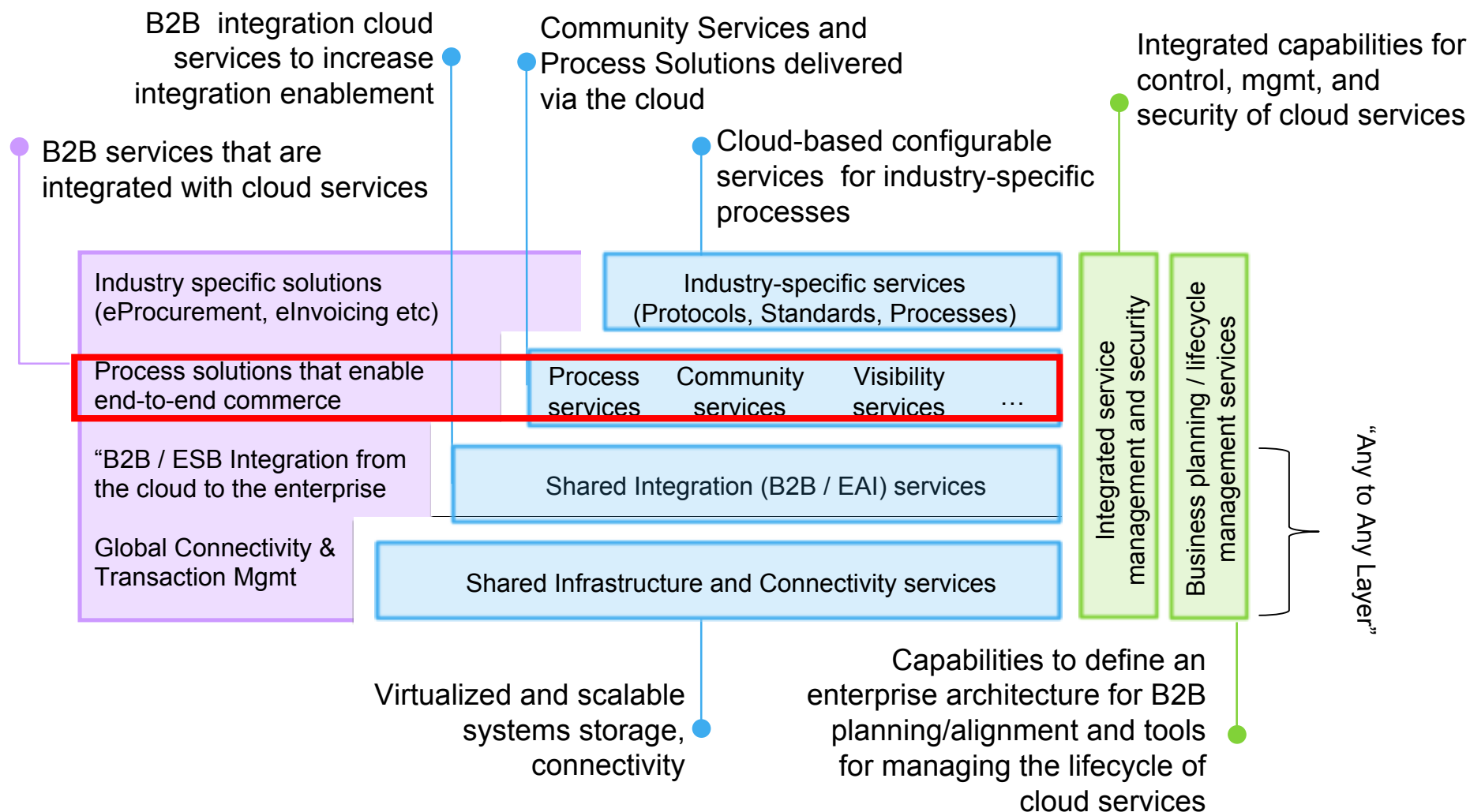
- **A B2B Cloud has the potential to address:**

- **Integration:** Simplified and extended integration models
- **Community:** Greater ease and control of the community and community development
- **Process Management:** De-construction of applications capabilities to the process essence needed in the moment
- **Visibility / Analytics:** Beyond the capabilities of today, Cloud could enable increased demand and event-based capabilities

- **A B2B Cloud is envisioned to be:**

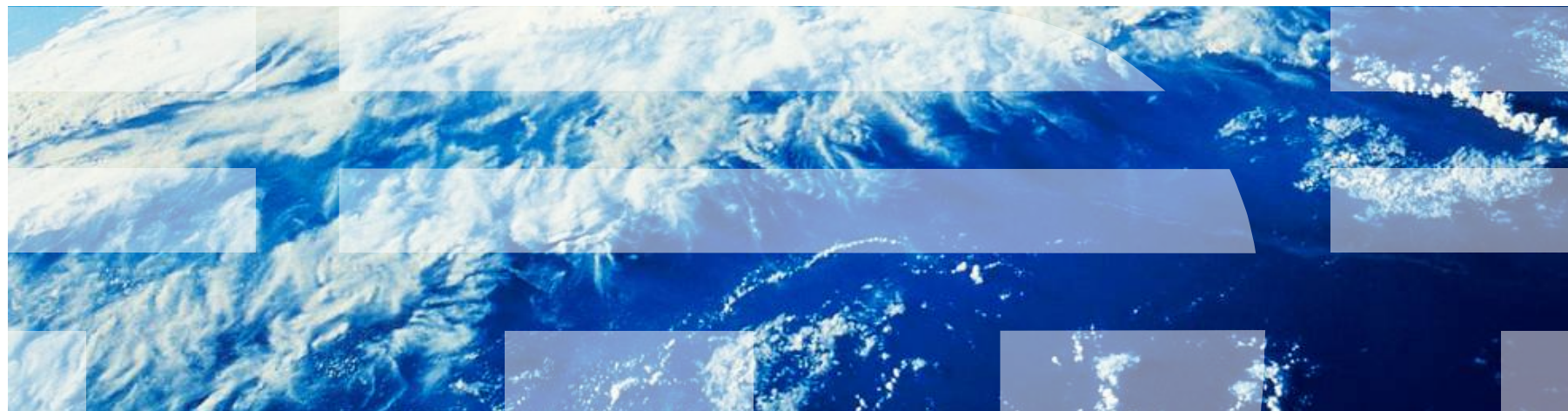
- A unification of Integration, Community and Process, and Visibility / Analytics in a Cloud Service model
- A service deployment model as a brokered, public cloud
- Brokered capabilities enable a B2B services hybrid between public and private clouds

# A framework for a B2B Cloud Services Broker



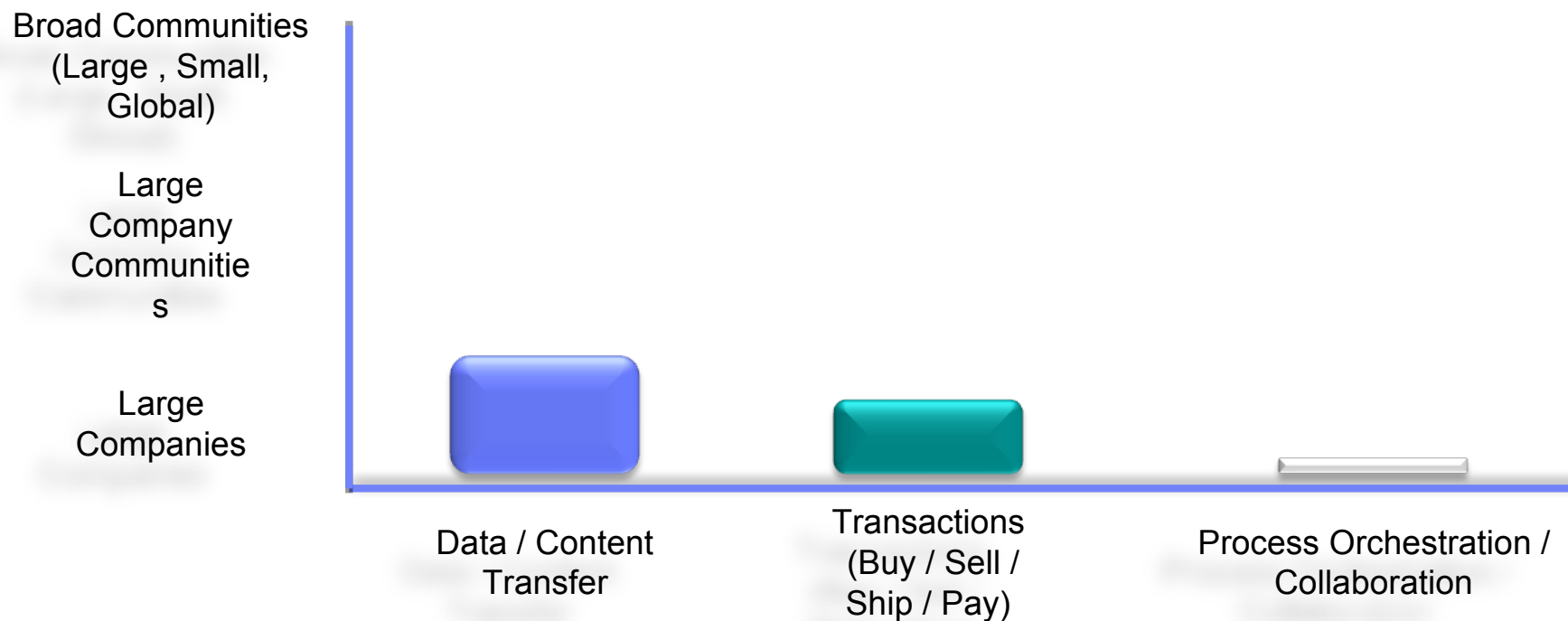


# The Evolution of the Network Effect



## The Evolution of the Network Effect

### 1970 – 1980: Mainframe Era

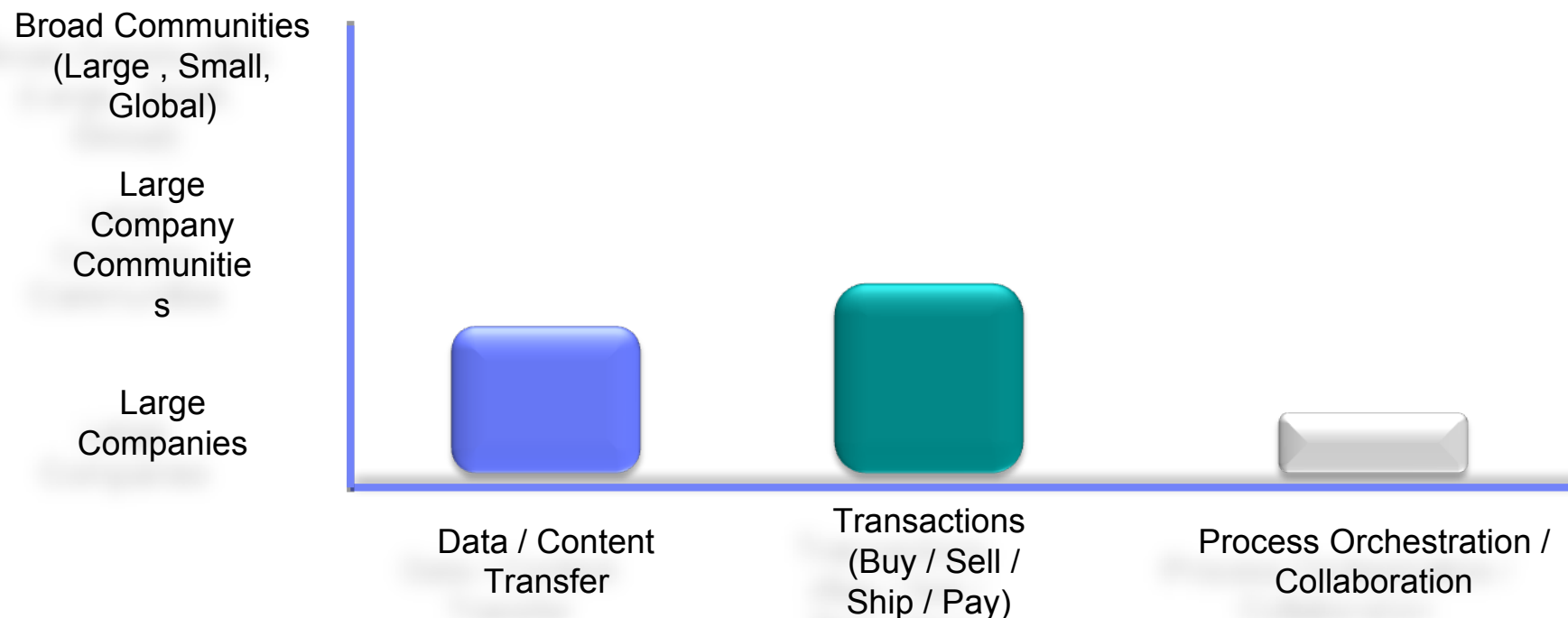


- Point-to-Point Communities
- Mainframe Centric
- Data transfer based on point-to-point communities and tape sharing
- Process Orchestration based on manual processes and paper



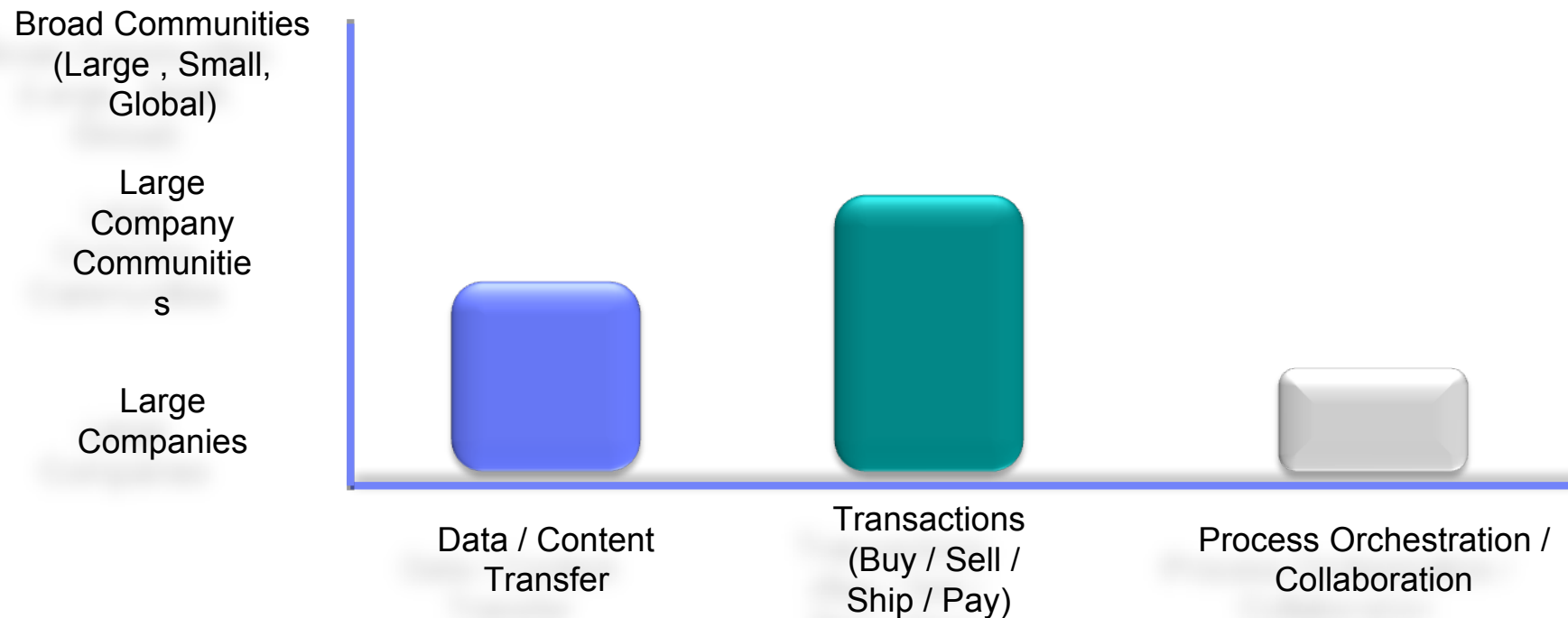
## The Evolution of the Network Effect

### 1980 – 1990: Mini Computer Era



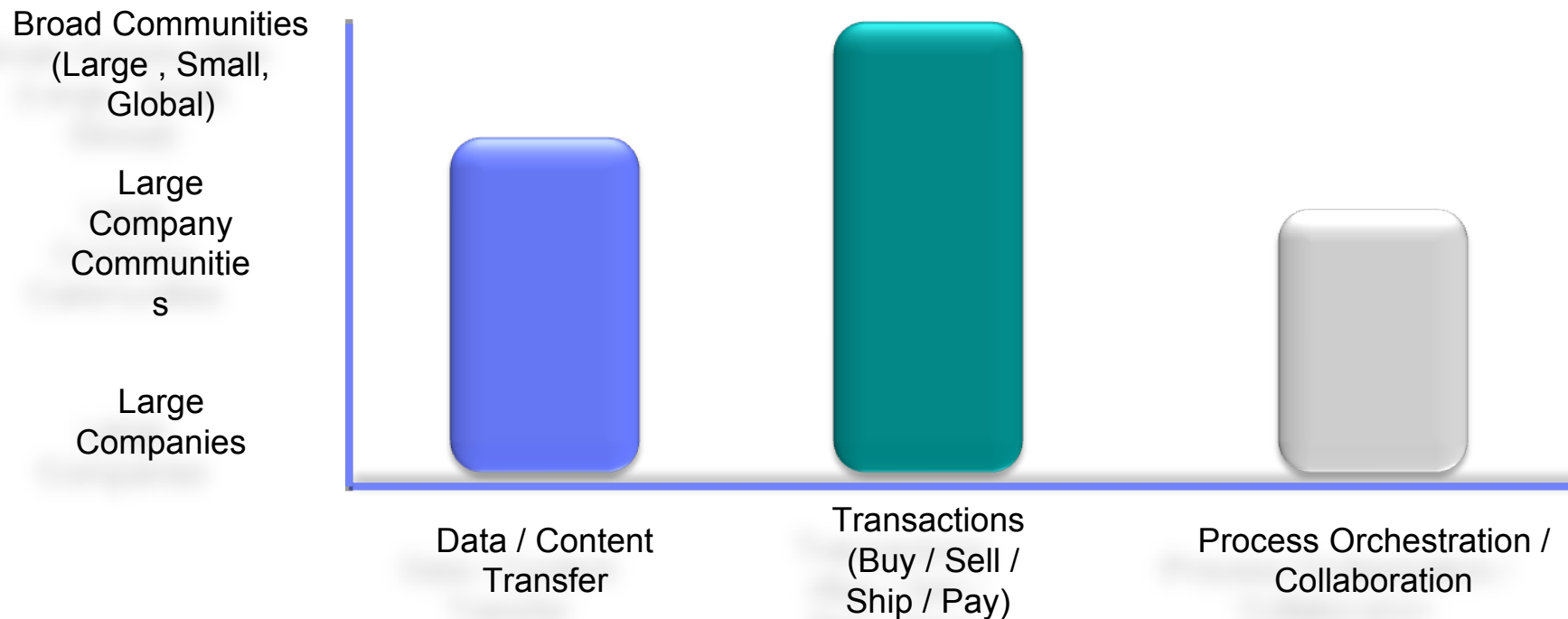
- EDI standard defined and implemented in largest companies
- Distribution of mini-computers create early distributed systems environments
- Data transfer via point-to-point grows incrementally with more mature network protocols
- Process orchestration still manual and paper-based with early innovation in “MRP”

## The Evolution of the Network Effect 1990 – 2000: ERP Era



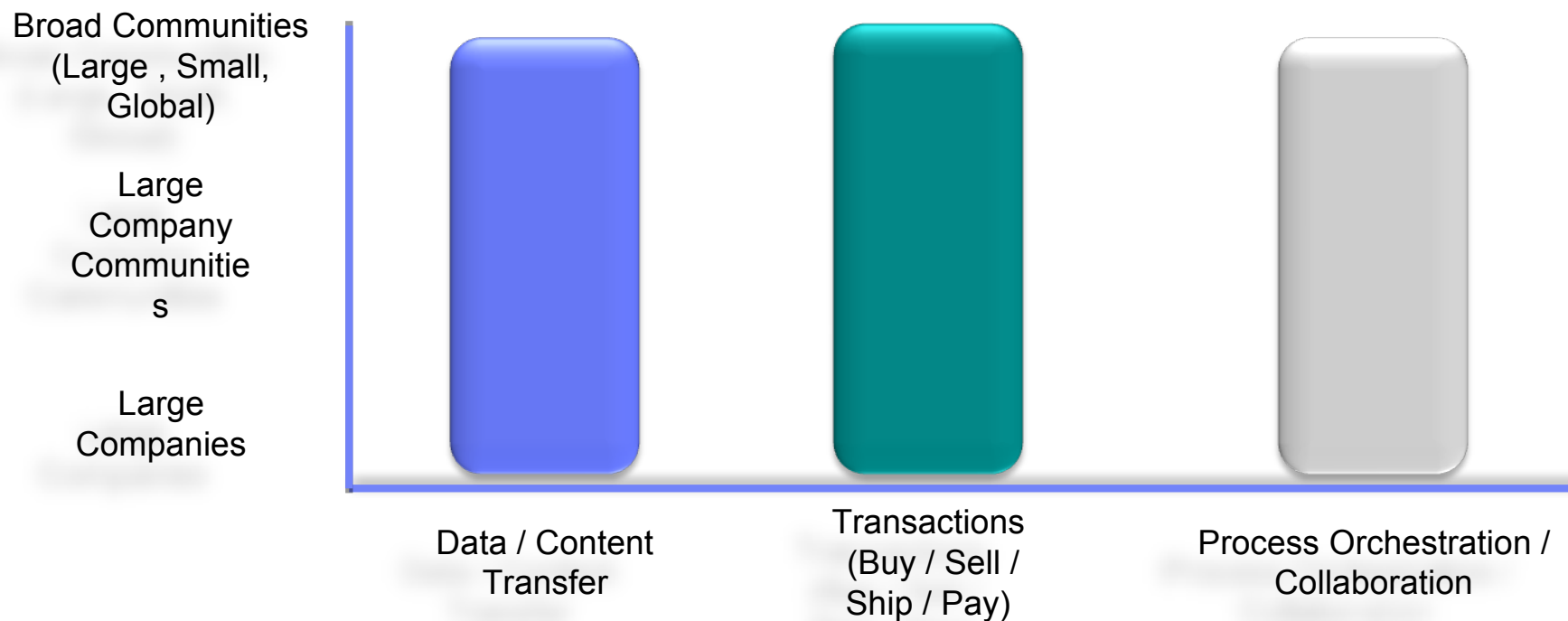
- EDI communities benefit from rapid growth of ERP systems and EDI VAN growth
- Client server (tier II and III) begin to proliferate fueling growth of the “ERP Era”
- ERP Data Integration used as an early system-to-system integration strategy
- Process orchestration within the enterprise-based on growing just in time strategies

## The Evolution of the Network Effect 2000 - 2008: Integration Era



- Integration (EAI and B2B) becomes common to tie disparate systems together
- Internet (Post Bust) plays an increasing role in extending to small communities
- Multi-enterprise communities become priority for data and transactions
- Process orchestration and collaboration extend to multi-enterprise communities
- Process orchestration and collaboration hindered by fragmented functions / systems

## The Evolution of the Network Effect 2008 - Present: Cloud Era

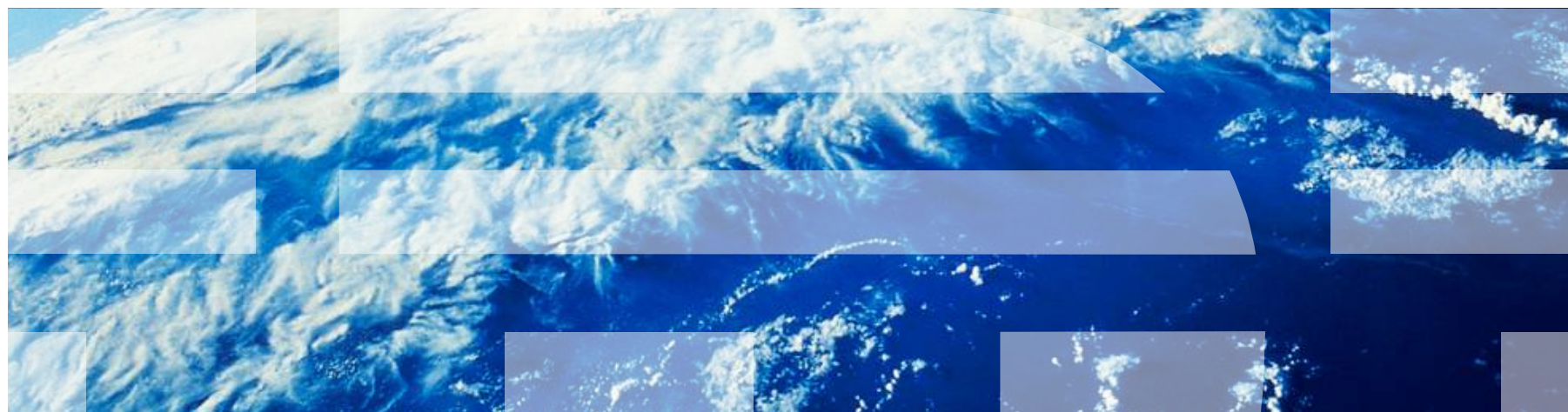


- Matured protocols enable ubiquitous connectivity and messaging capabilities
- Integration available to virtually all communities
- Cloud services enable an extended broker model creating deeper enterprise integration
- Process orchestration and collaboration enabled through cloud integration

## Summary

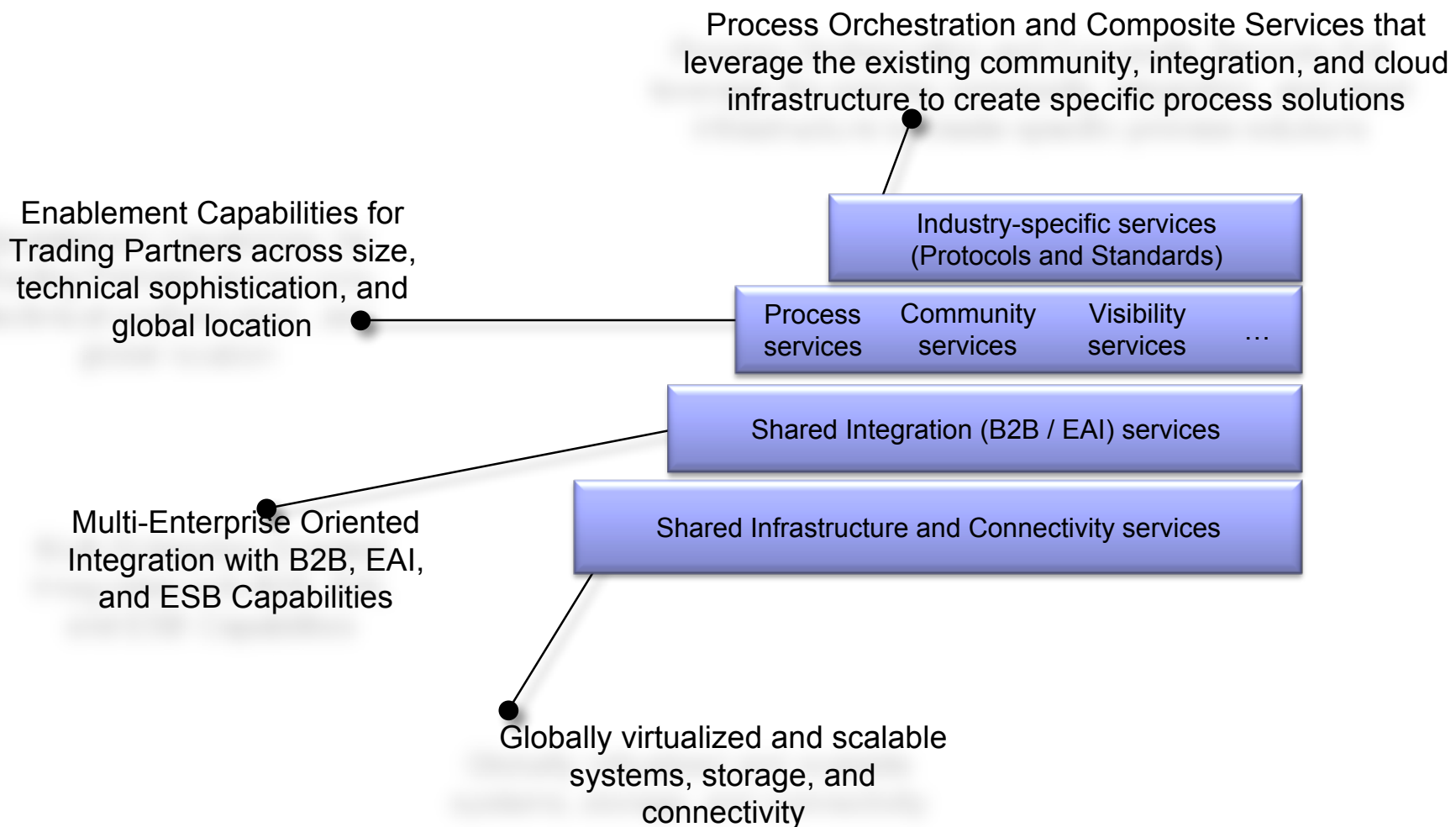
- Advances over the last 30 years in network protocols, messaging standards, and computing technologies have had a significant impact on the network capabilities and affects in commerce
- The Cloud Network is rapidly becoming the “one stop shop” for data and file transfer, transactions and transaction management, and process solutions (process orchestration and collaboration)

# Process Solutions Context In the Cloud

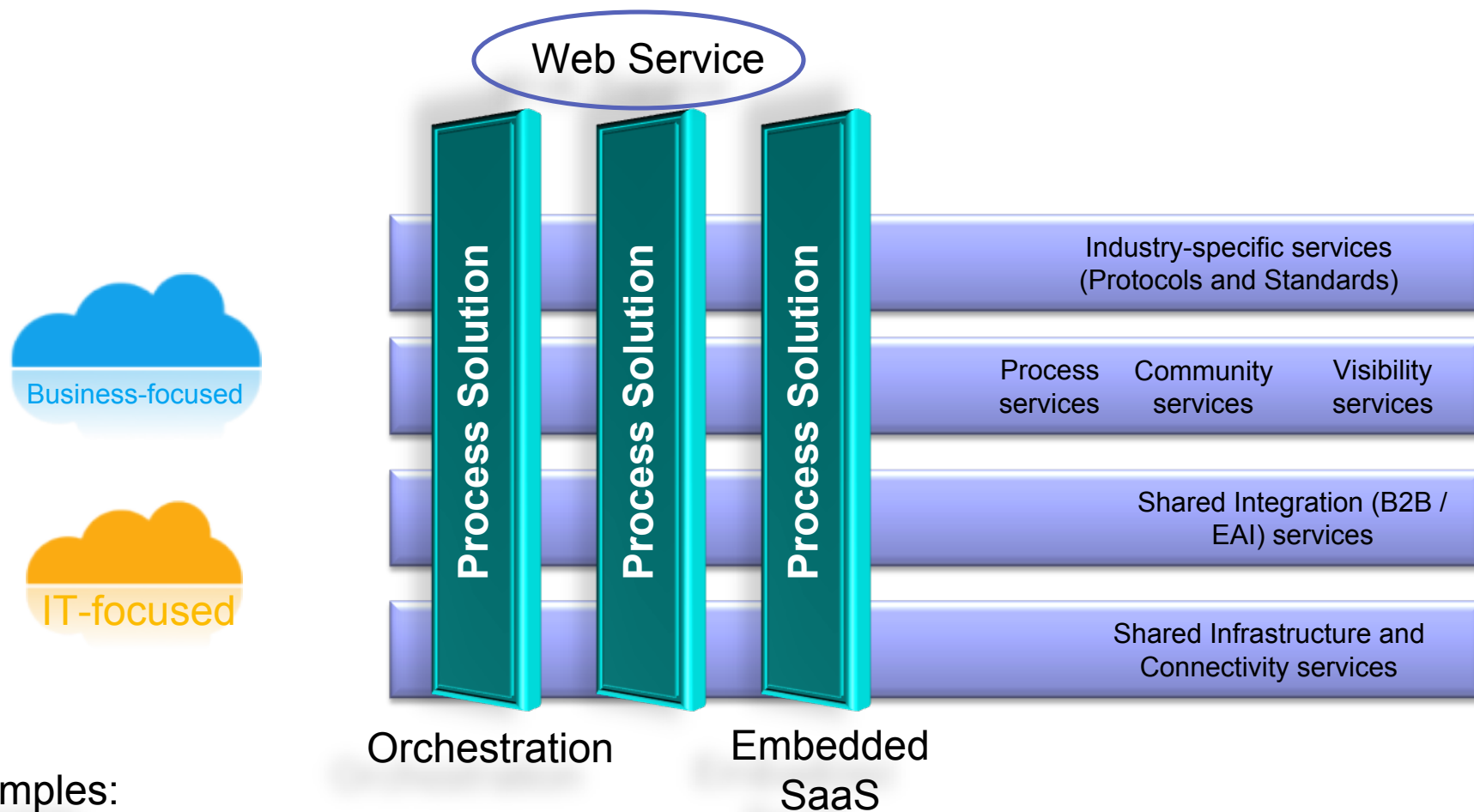




# The Cloud Services “Hierarchy of Need”



# Applying Cloud Services Process Solutions

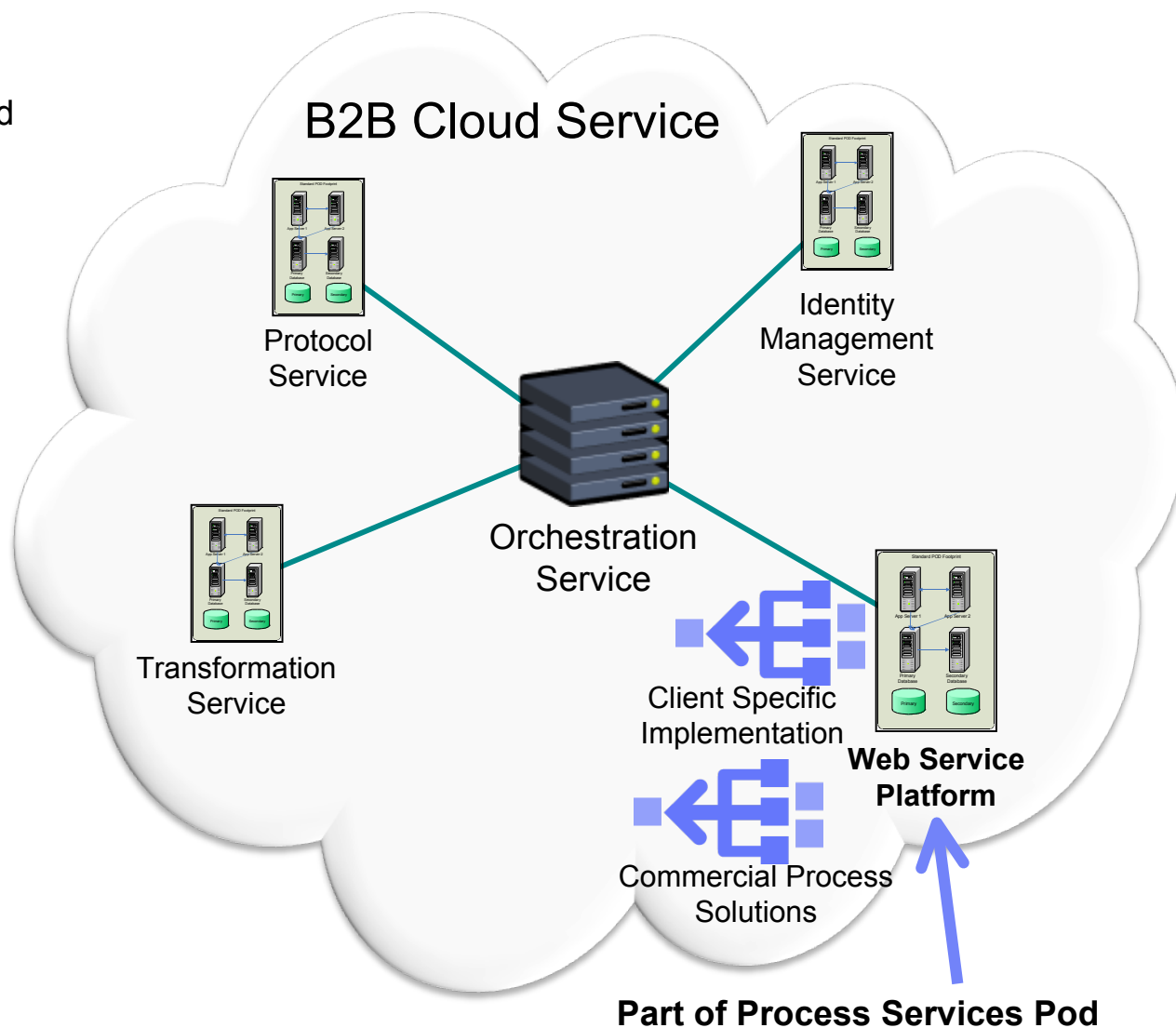


## Examples:

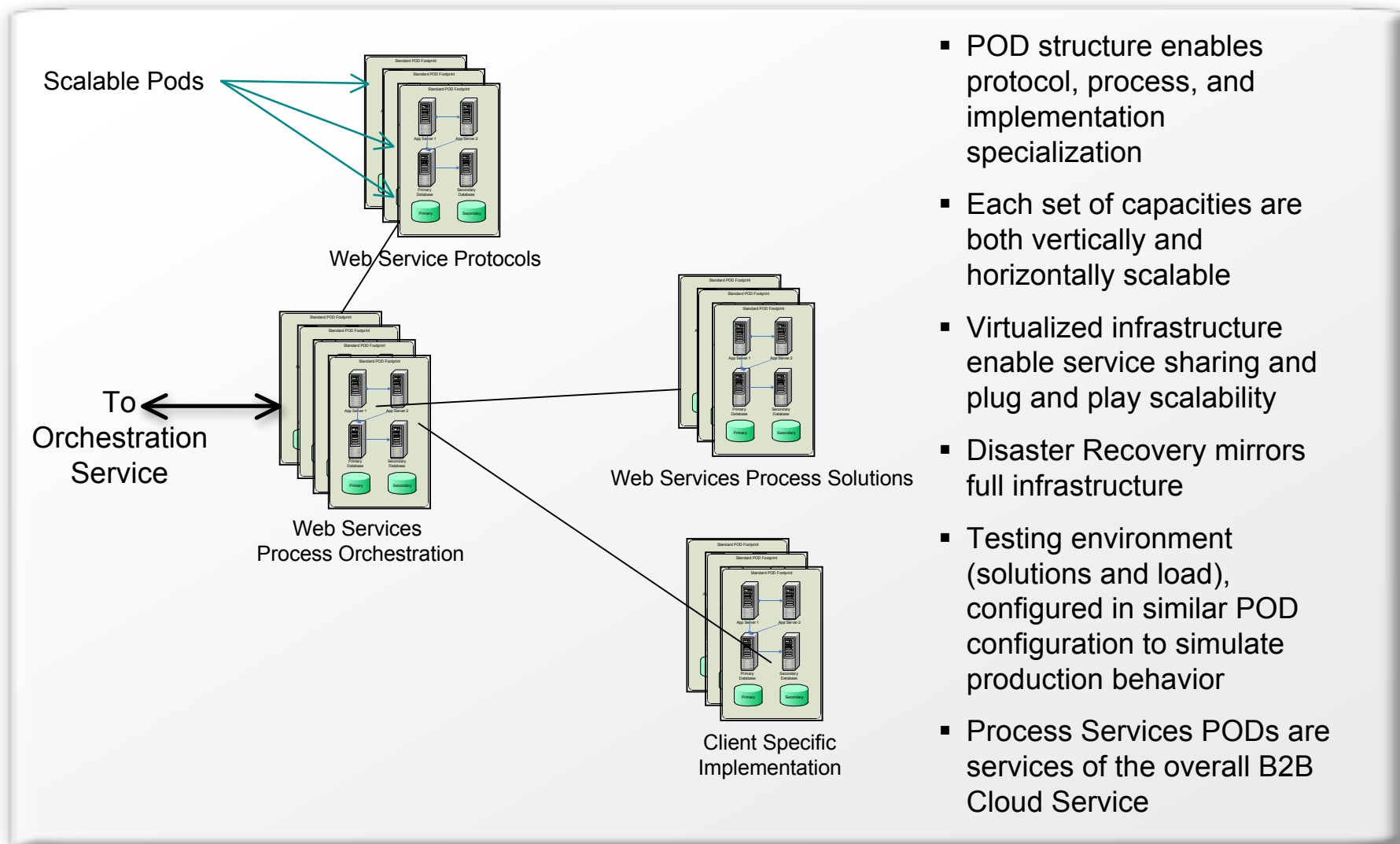
- Community Process Hub
- Field Services Coordination
- eInvoicing

# Web Services in the Cloud

- Leverages services architecture
- Web Services specific service and architecture
- Implementation options:
  - Client specific:
    - Enables client specific solutions
    - Tailored to client specifications
    - Commercial grade
  - Web Service specific:
    - Protocol Service
    - Process Integration Service
    - Process Application

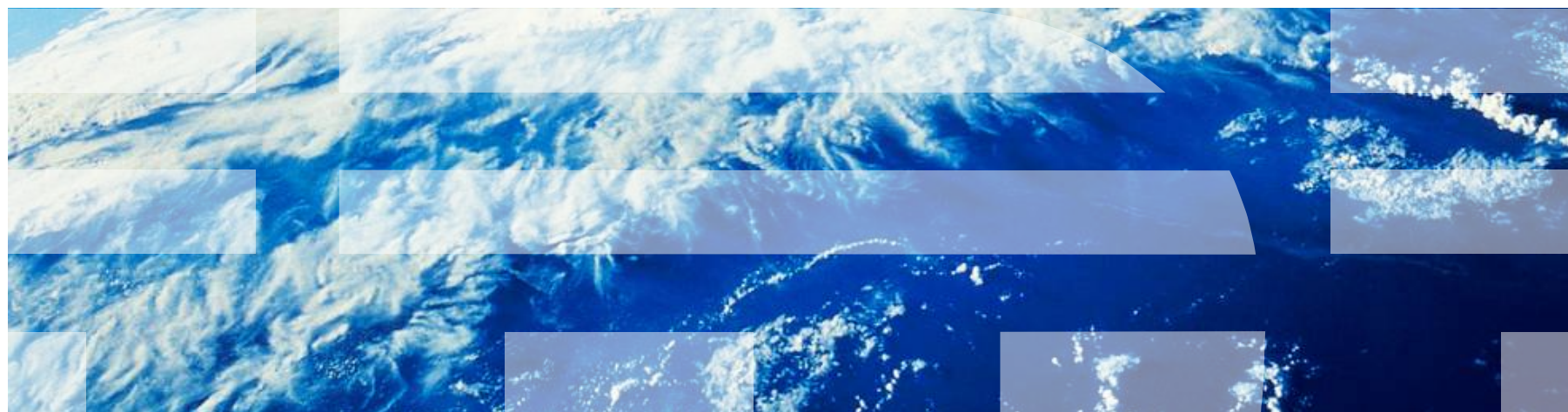


# Process Services POD



- POD structure enables protocol, process, and implementation specialization
- Each set of capacities are both vertically and horizontally scalable
- Virtualized infrastructure enable service sharing and plug and play scalability
- Disaster Recovery mirrors full infrastructure
- Testing environment (solutions and load), configured in similar POD configuration to simulate production behavior
- Process Services PODs are services of the overall B2B Cloud Service

# Web Services Context in the Cloud



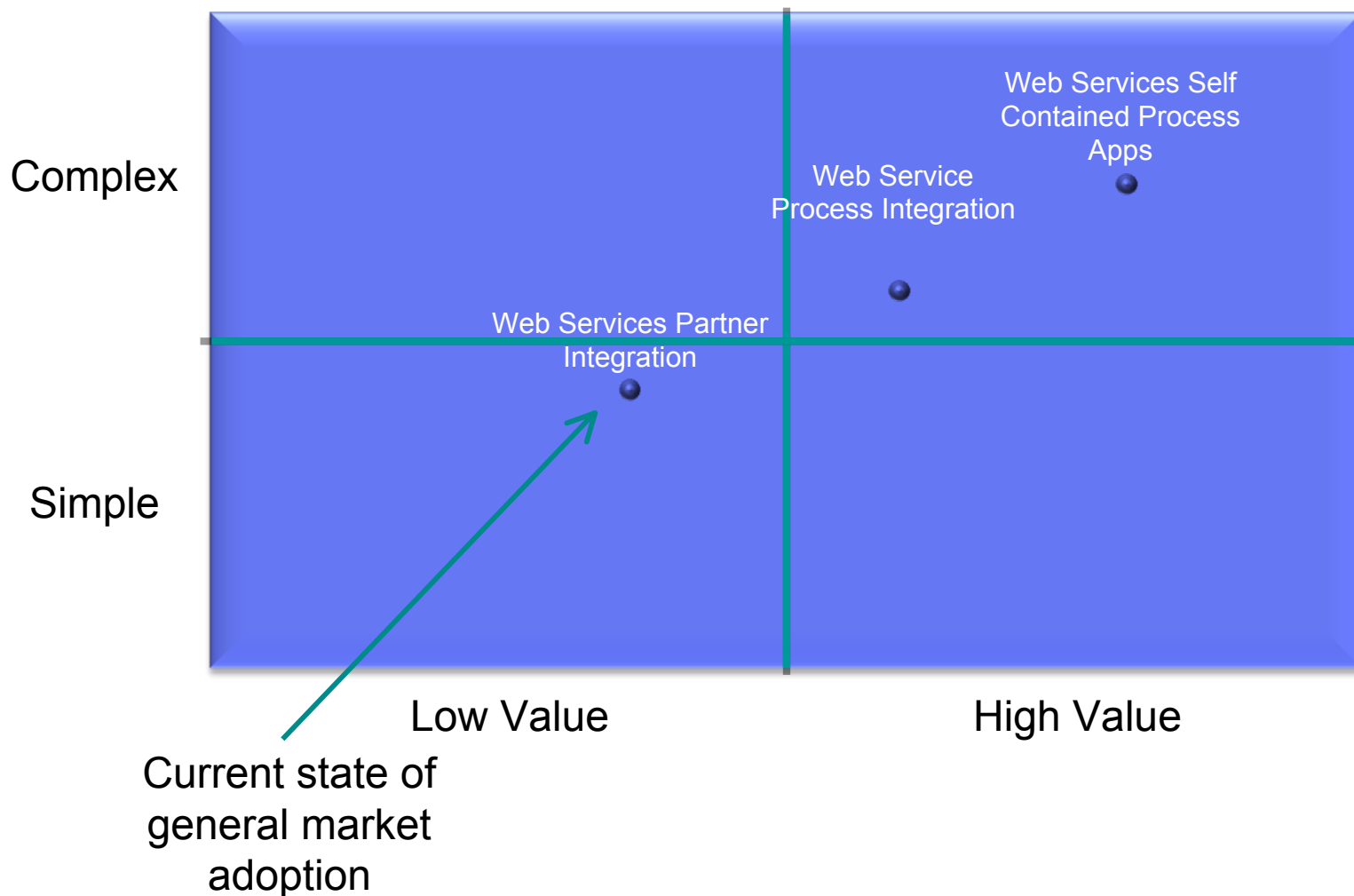
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## Web Services: How Relevant?

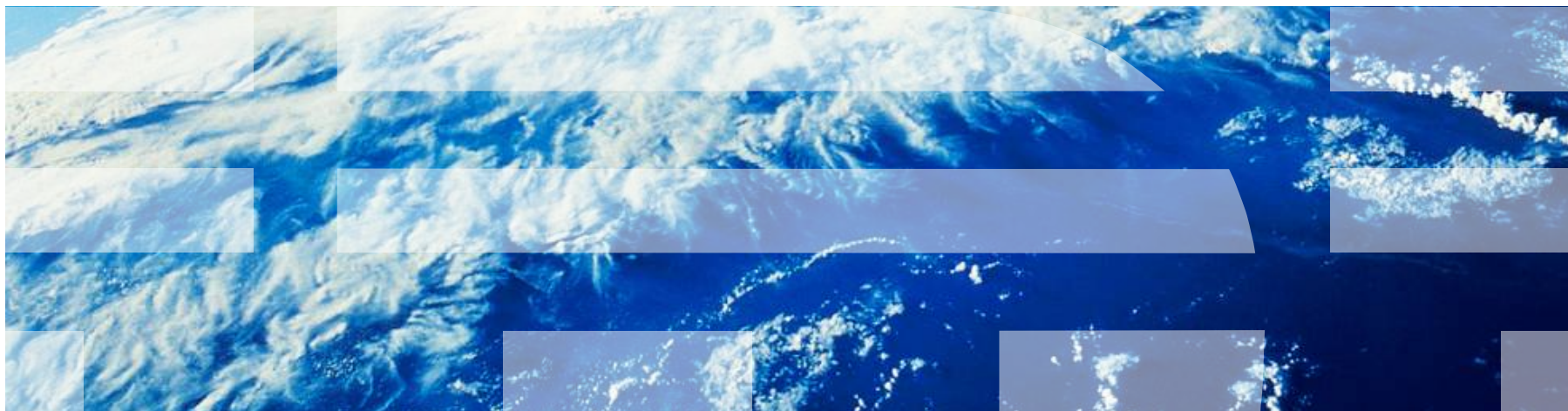
- Web Services can go well beyond their normal use today:
  - Often used as a messaging and connection protocol
  - “SOAP” = Web Services way too often
  - Often a substitute for other connectivity because it’s more “modern”
- Web Services relevancy is directly related to their use:
  - Web Service protocols for partner integration
  - Web Services capabilities for process integration
  - Web Services as a self-contained process application



# Web Services: How Relevant?



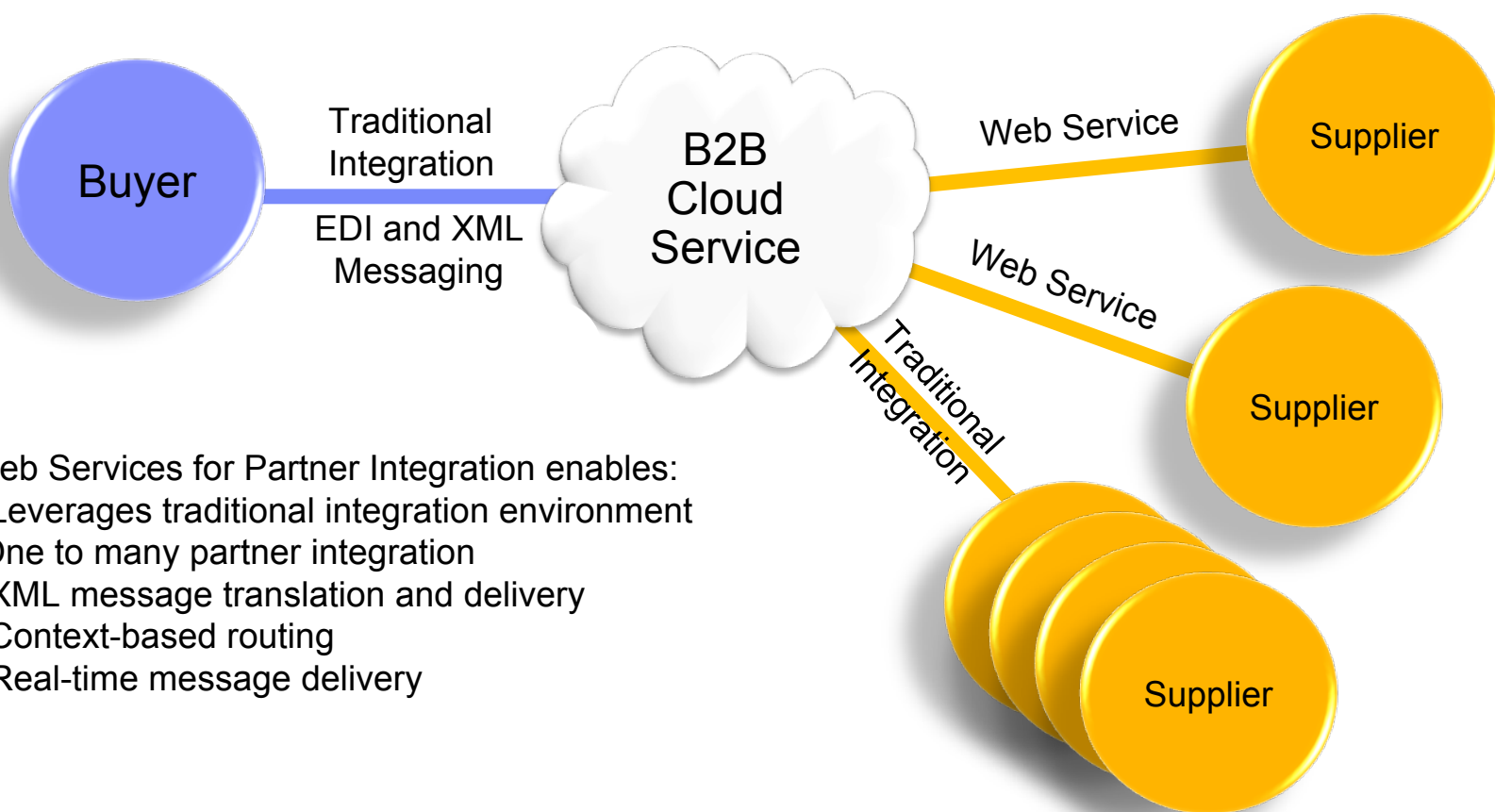
# Web Services: 3 Use Case Examples



## Web Services Partner Integration

### Scenario

Client needs real-time XML-based integration to two priority shipping companies so they can provide shipping orders in real-time



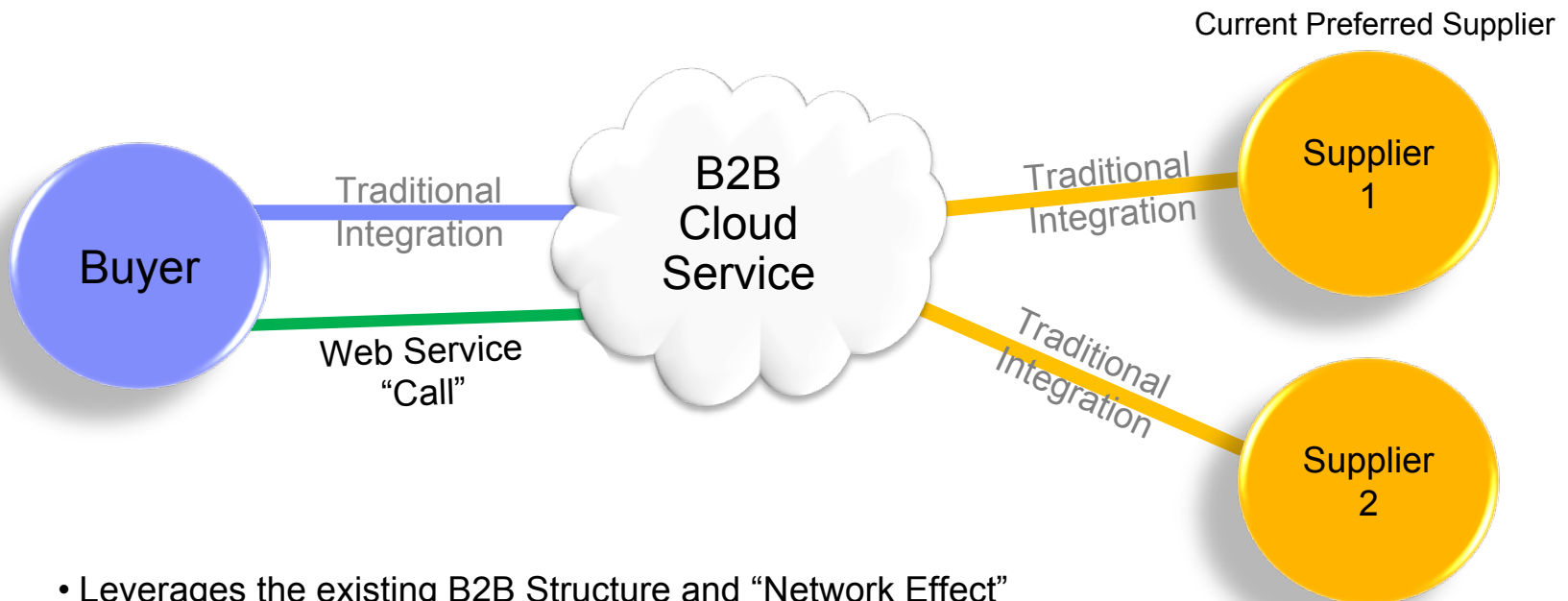
Web Services for Partner Integration enables:

- Leverages traditional integration environment
- One to many partner integration
- XML message translation and delivery
- Context-based routing
- Real-time message delivery

## Web Services Process Integration

### Scenario

For a specific type of order, the client wants to ensure they have the highest priority supplier, based on an enterprise supplier scorecard system that is updated regularly

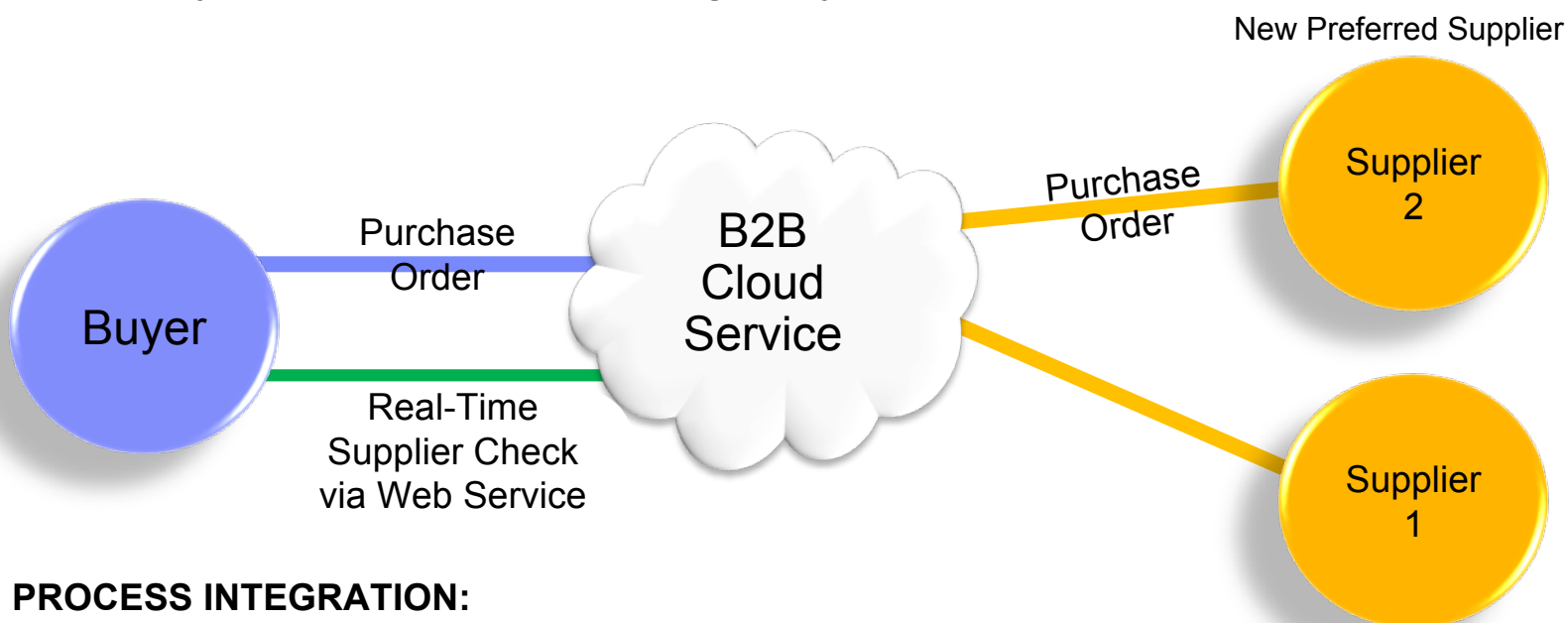


- Leverages the existing B2B Structure and “Network Effect”
- Provides dynamic data integration for Real-Time Processes
- Enable Web-Services-based Real-Time Data Update / Interaction

## Web Services Process Integration

### Scenario

For a specific type of order, the client wants to ensure they have the highest priority supplier based on an enterprise supplier scorecard system that is updated regularly



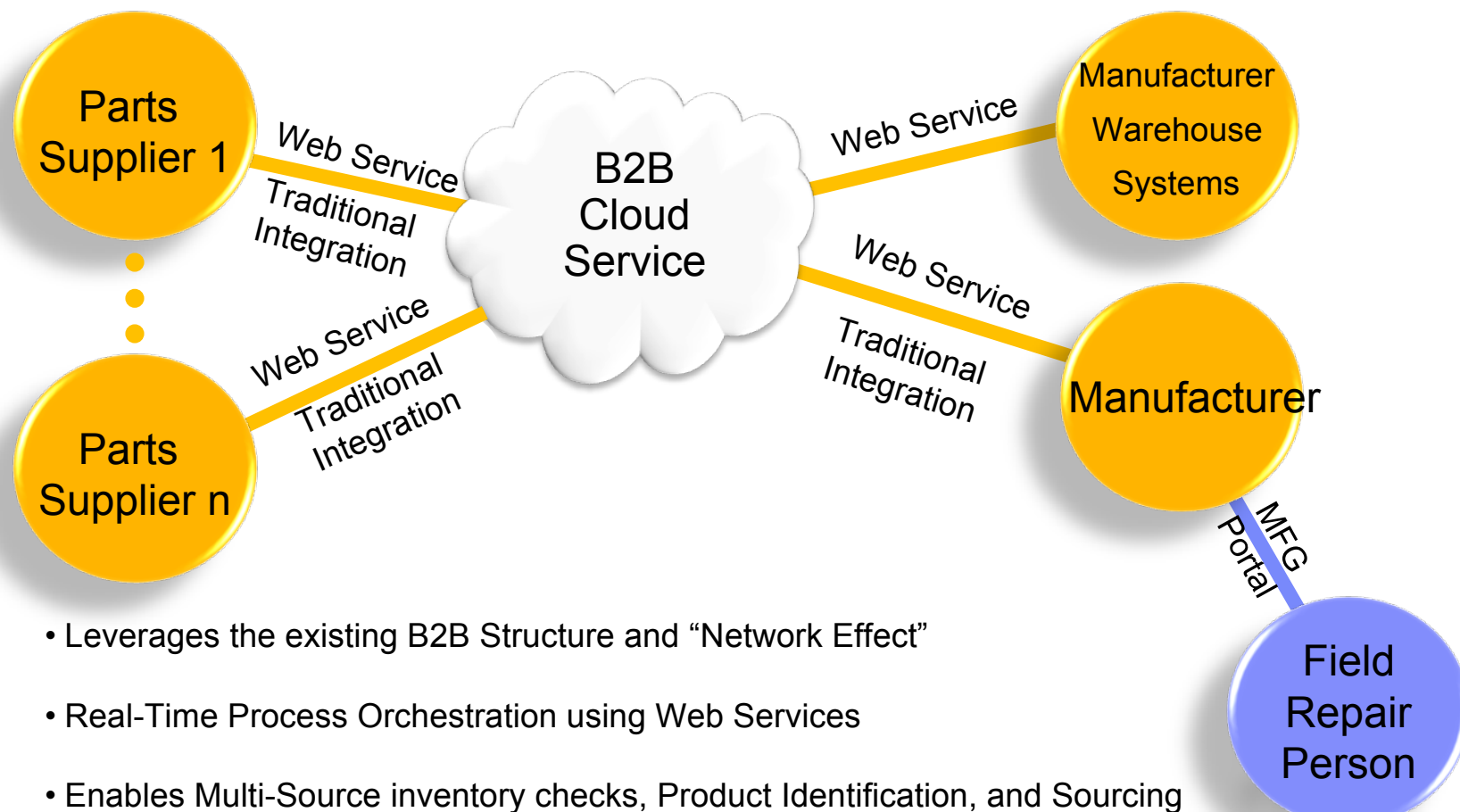
### PROCESS INTEGRATION:

- PO is received and translated
- Determines PO has items that are in a specific category identified as “Dynamic Supplier”
- Constructs a Web Service Call to the Client’s ERP
- Identifies Current Preferred Supplier
- Updates Purchase Order with Preferred Supplier and sends

## Web Services Process Application

### Scenario

Repair person needs to quickly identify and procure repair part to service client repair from the most reliable supplier local to the repair location



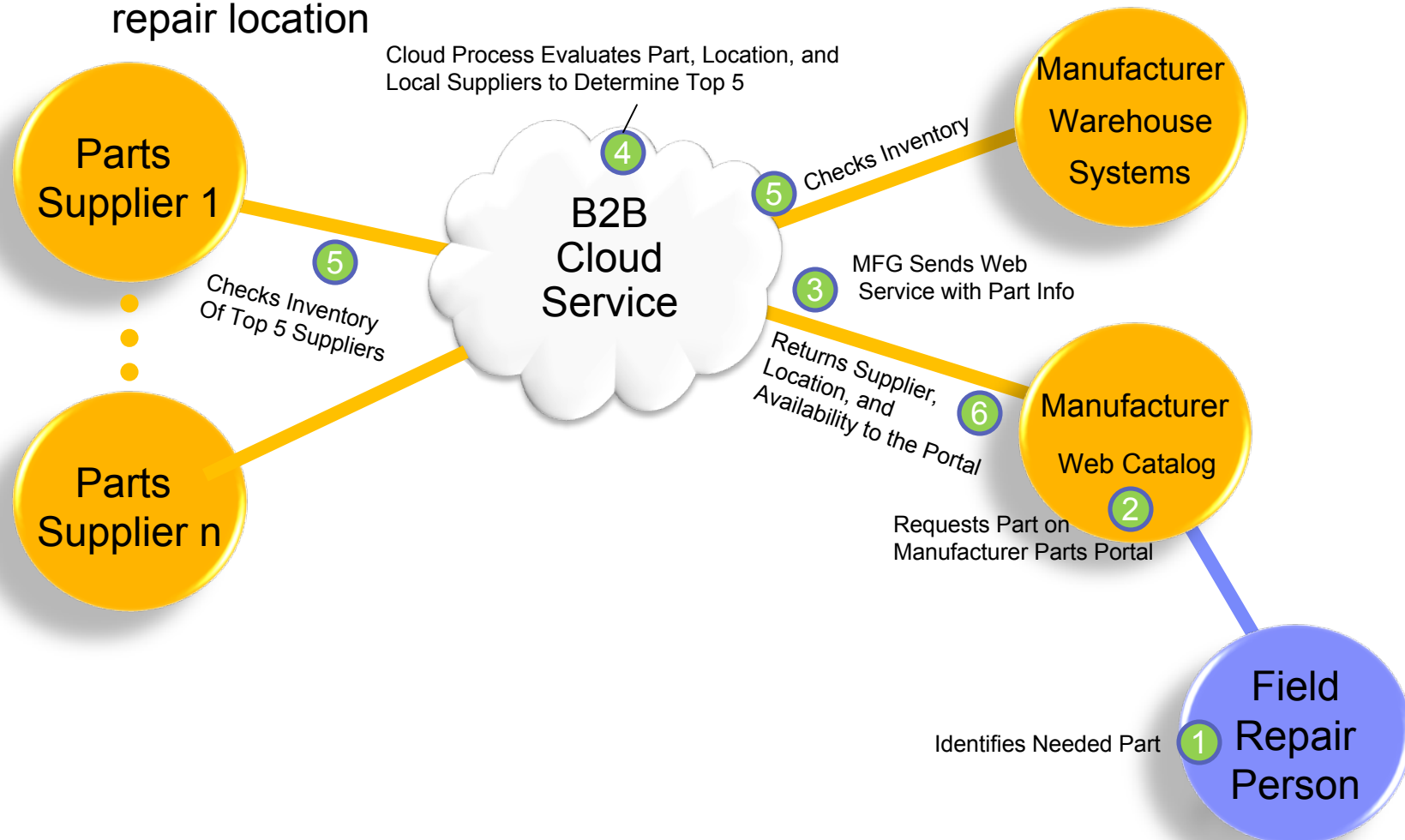
- Leverages the existing B2B Structure and “Network Effect”
- Real-Time Process Orchestration using Web Services
- Enables Multi-Source inventory checks, Product Identification, and Sourcing



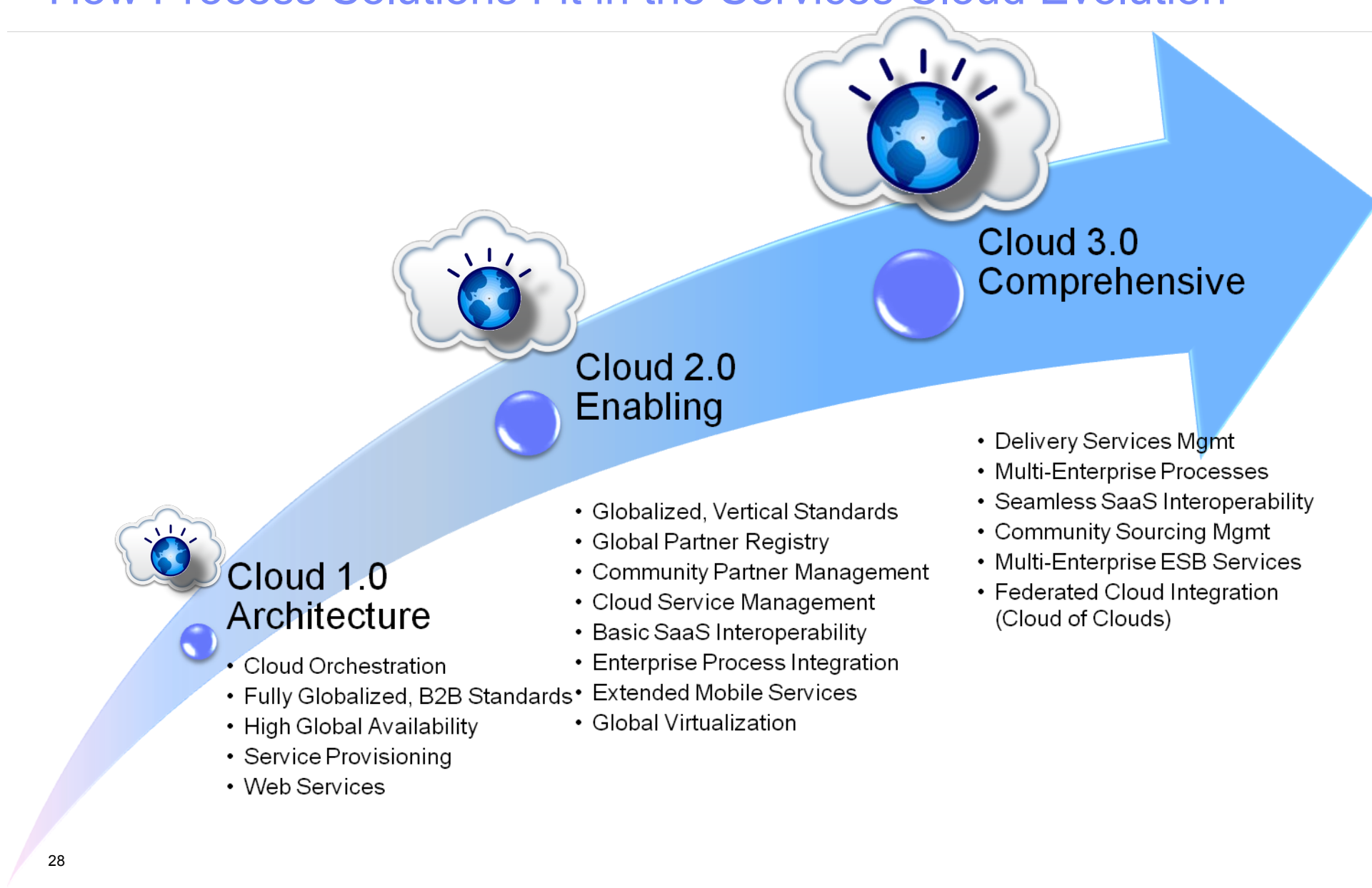
# Web Services Process Application

## Scenario

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# How Process Solutions Fit in the Services Cloud Evolution



**Next up in the B2B Cloud Services series...**

# Questions?

