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Presentation Outline

- What is ebXML BPSS?
 - BPSS and the ebXML Architecture
 - Current Status and Plans
- BPSS and a Reliable Infrastructure
 - Transactions and Quality of Service
 - BSI Process Execution
- Business Collaboration Using a Reliable Infrastructure
 - Case Study
- Summary and Questions



BPSS and the ebXML Architecture

- BPSS facilitates shared collaboration between partners
 - Choreography
 - State alignment
 - Partner roles
 - Conditions and constraints
 - Expectations on the infrastructure
- Defines the BSI conceptual model
 - Defines BSI role and functionality



ebBP Current Status and Plans

- v2.0 well underway New and improved functions
 - Explicit and extendable business transaction patterns
 - Conditional changes on process characteristics (late binding)
 - Abstract integration using interface definition language (i.e. WSDL)
 - Improved packaging and reusability
 - Flexible role bindings
 - Draft schema in final stages; next is technical spec.
- v3.0 potential plans
 - Business entities, validation, and late binding
 - Additional multi-party support (role and context)

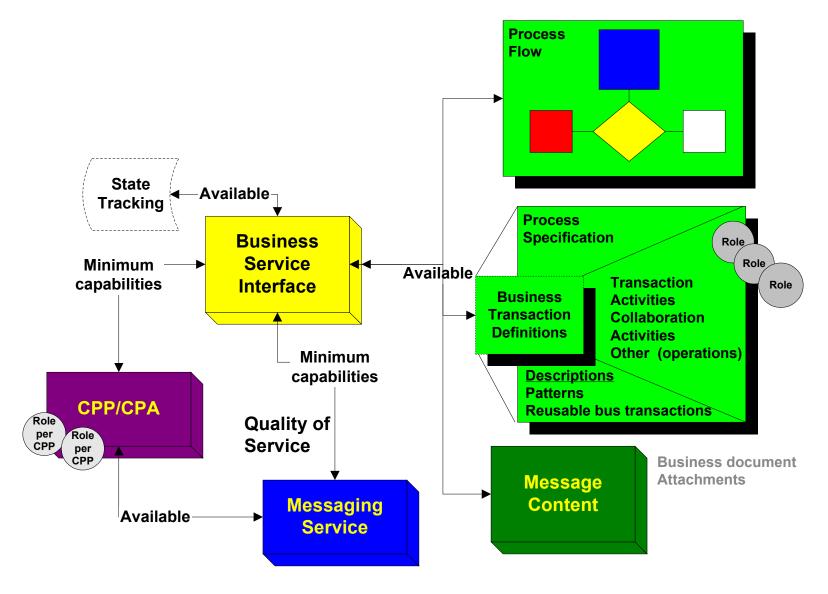


BPSS and A Reliable Infrastructure (1)

- Business transaction activities
 - Present sufficient info for messaging service to exchange messages.
 - Aid in business collaboration composition.
 - For roles and partners
 - With state, transitions and guards
 - Bolstered by Quality of Service expectations
- Quality of Service (QoS)
 - Business focused
 - Interaction predictability, non-repudiation, document security
 - Reliability, authorization



ebBP Functional View



BPSS and A Reliable Infrastructure (2)

- BSI process execution
 - BSI understands business semantics
 - Initiating and accepting business activities and business signals
 - State transitions
 - Quality of Service (QoS) aspects
 - Provides interfaces to participants' systems.
 - Prepares business transaction payload and provides it to the messaging service.
- BSI operational requirements
 - Exists behind partner firewalls.
 - Available and maintains active state.



BPSS and A Reliable Infrastructure (3)

- Provide an automated interface to business systems.
 - Able to recognize and monitor processes.
- Fits behind a reliable infrastructure.
 - Doesn't specify how transactional semantics implemented.
- BSI implements a role in collaboration.
 - Detection of transaction open/close
 - Transfer of control
 - Detection of failures, timeouts, and exceptions

Business Collaboration Using a Reliable Infrastructure [1]

- Case Study: Auto supply chain
 - Large auto manufacturer uses many small production suppliers.
 - Goals:
 - Automate purchase decisions.
 - Achieve confidence in infrastructure.
 - Non-repudiation, security, persistence, reliability
 - Enable delegation of underlying functions to other systems where required.
 - Ensure quality measures achieved.

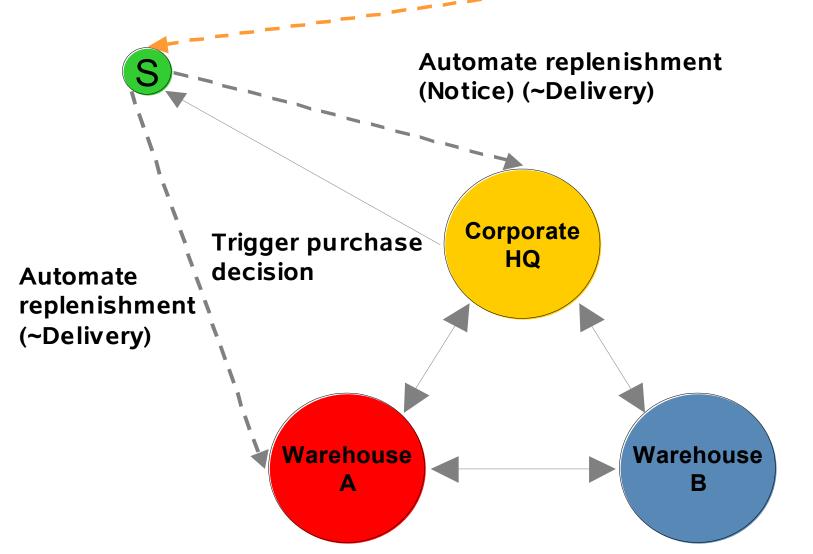
Business Collaboration Using a Reliable Infrastructure [2]

- Case Study: Auto supply chain
 - As Buyer, Corporate HQ uses warehouse and forecast data to drive buying decisions.
 - Supplier receives purchase requests.
 - Supplier acts as Distributor.
 - Supplier may act as Buyer for verification of payment history before product/item delivery.
 - Supplier notifies Corporate HQ of delivery intent.
 - Supplier, as Distributor, delivers product
 - Corporate HQ or designee Warehouse, as Buyer, receives product.

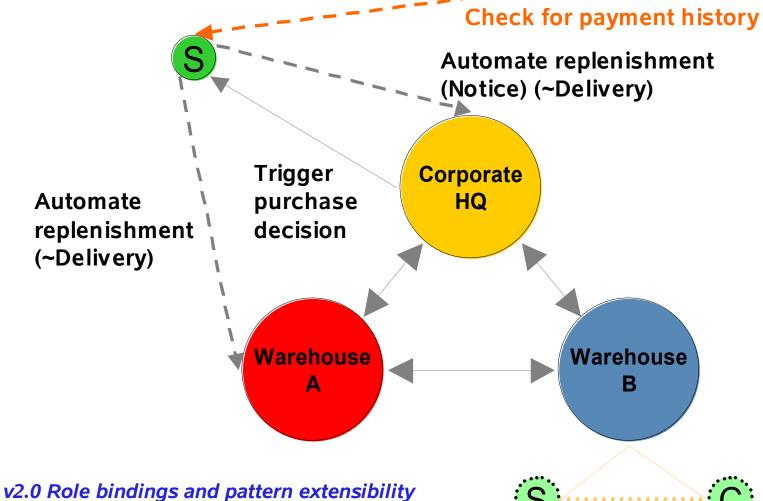


Check for payment history





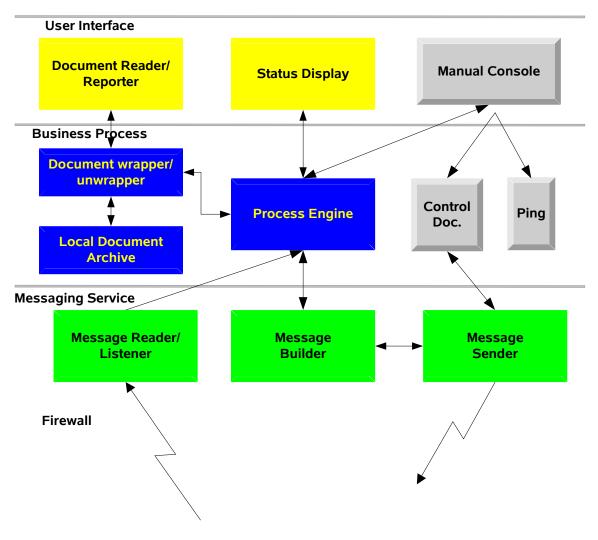




v3.0 More multi-party support – role and context

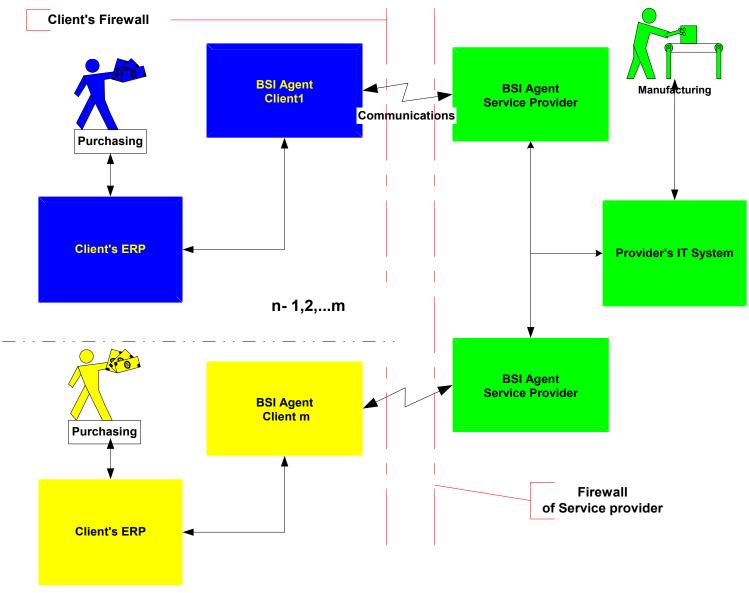
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Business Collaboration Using a Reliable Infrastructure [5]





BSI Technical View





Summary

- Business process is more than a process description.
- Provides guidelines for directing underlying infrastructure.
- Transforms the business semantics into composable business process flows to marry business-technical capabilities.
- Stay tuned for ebBP v2.0 this summer.



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