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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)

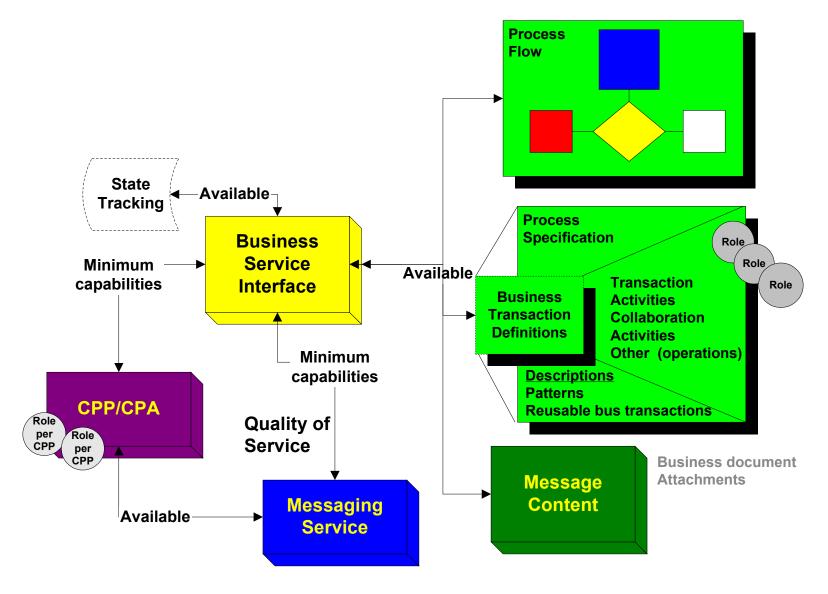


#### BPSS and A Reliable Infrastructure (1)

- 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.

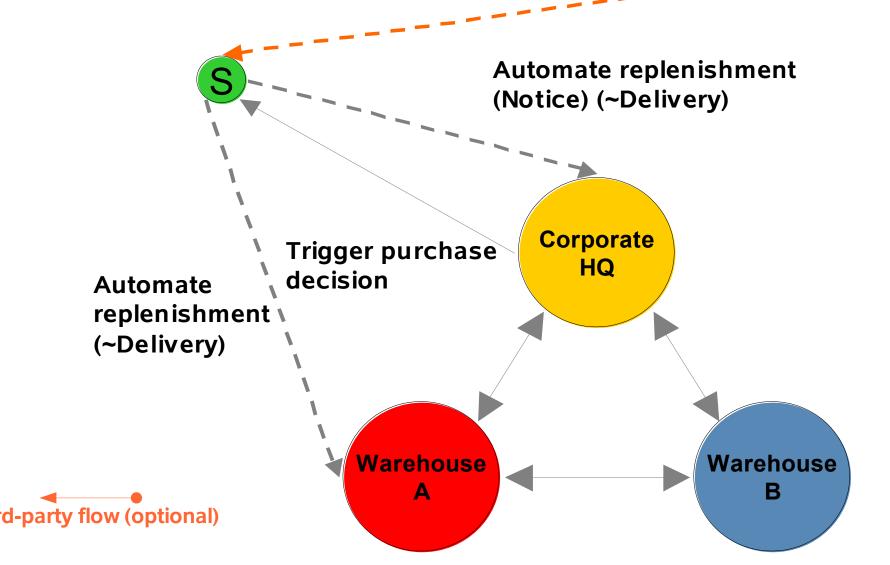
## Business Collaboration Using a Reliable Infrastructure [2]

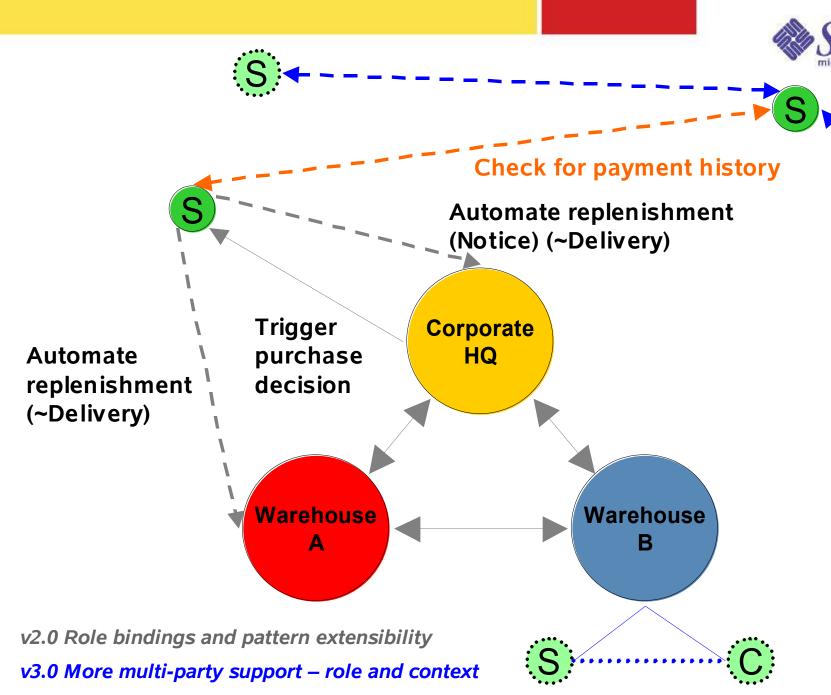
- Case Study: Auto supply chain
  - As Buyer, Corporate HQ uses warehouse and forecast data to drive buying decisions.
  - Supplier receives purchase requests.
    - Supplier acts as Distributor.
    - Supplier may act as Buyer for verification of payment history before product/item delivery.
    - Supplier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





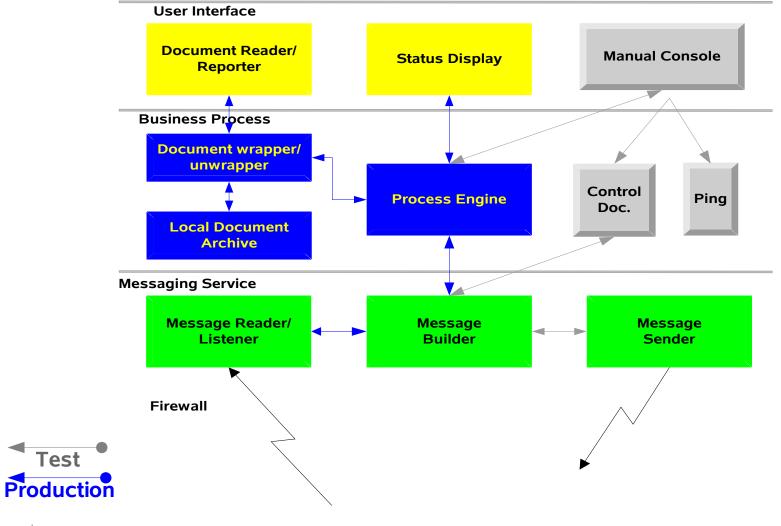






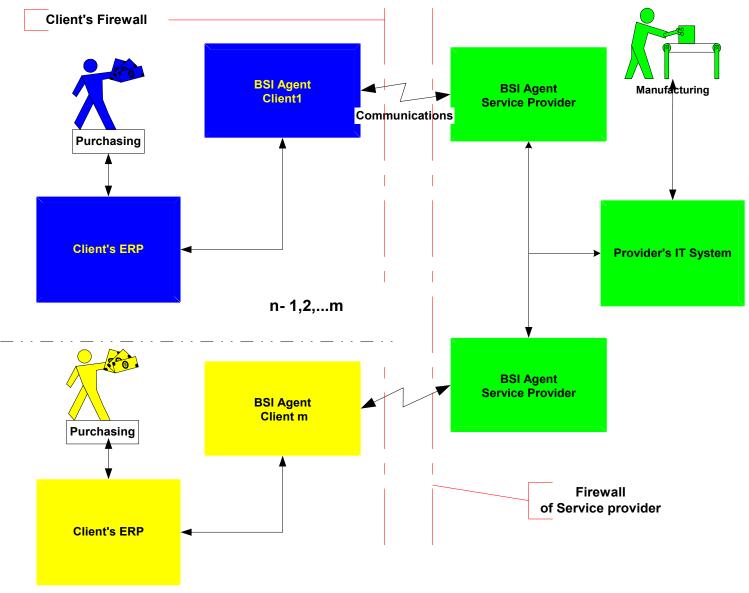


# Business Collaboration Using a Reliable Infrastructure [5]





#### **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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and the OASIS ebBP Team!

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