

# **WSBPEL Technical Committee Update**

# “BPEL4WS in a Nutshell”

- A Turing complete language that can be used to specify behavior of business processes
  - Between Web services...
  - ...and as Web services
- Same language used to define executable processes and business protocols
  - Executable processes
    - Can be performed at all compliant environments
  - Abstract processes
    - Specify constraints of message exchange
    - Exposes only information required by partner

# BPEL4WS

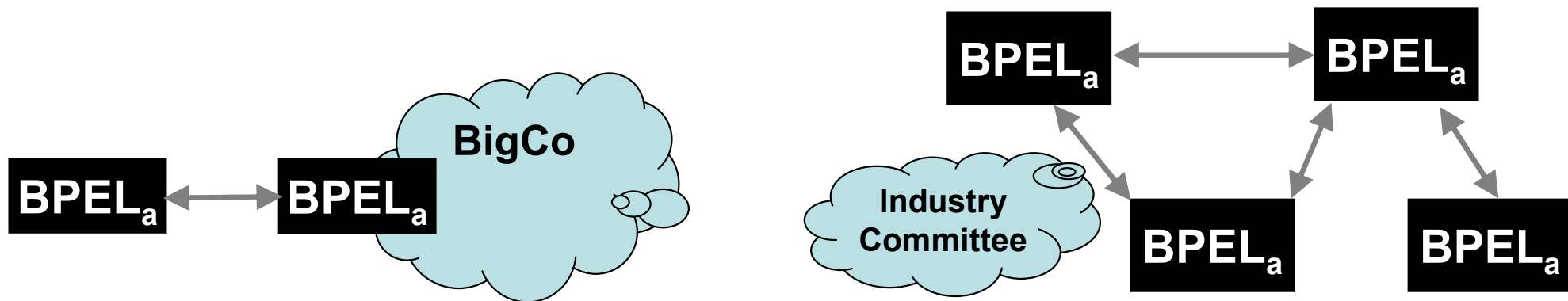
- Extends and subsumes previous specifications in this area published individually by Microsoft XLANG (05/01) and IBM WSFL (05/01)
- A mechanism for addressing business semantics within a Web Services environment
- An XML-based workflow definition language that allows businesses to describe rich business processes that can both consume and provide Web services in a reliable and dependable manner
- Enables portability and interoperability by defining a set of constructs to implement executable business processes and to implement message exchange protocols
- Defines operational semantics to allow the execution of business processes in a well-defined manner for business processes and business partners in heterogeneous environments

# BPEL4WS – Basic Concepts

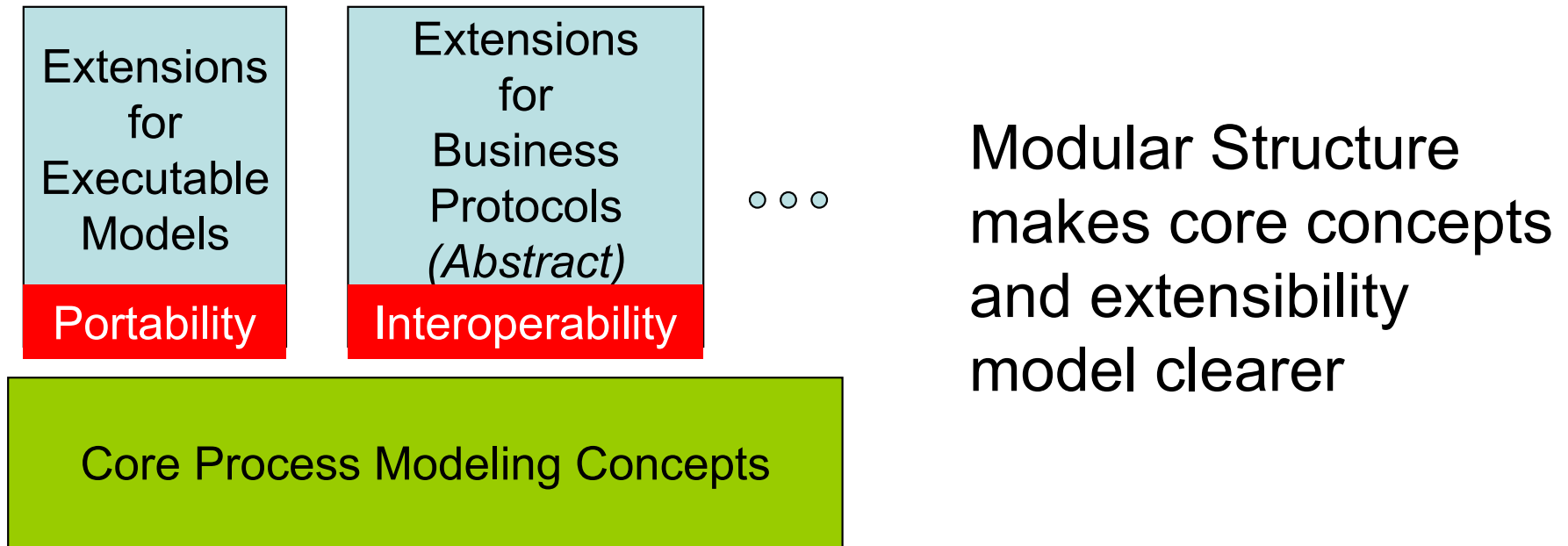
- Peer-to-peer interaction between Web Services described in WSDL
- Process and partners are modeled as WSDL services
- BPEL4WS provides the process definition
- Supports **Abstract** and **Executable** processes

# What is an Abstract Process?

- *Description* of public behavior
  - Public face of private processes
- Independent of implementation
- Scenarios:
  - *BigCo dictates trading partner requirements*
  - *Industry consortia provides guidelines for working together*



# BPEL4WS 1.1



- **Core concept extensions**

- Event handlers (unscheduled alerts and queries)
- Local data and correlation (refined scoping of lifetime)

# About the WSBPEL TC

- **Technical Committee launched 5/15/2003**
  - BEA, IBM, Microsoft, SAP and Siebel submitted BPEL4WS V1.1 with royalty free terms
- **Subcommittees:**
  - Issues
  - Specification Editing
  - Use Cases
  - Liaisons
  - Implementation
- **Publicly available:**
  - Archives
  - Spec, Issues List, Resources
  - Comment “web form” (alas, no publicly available comments list ☹)

# Quick Update

- **Issues Subcommittee:**
  - Reviewing/consolidating outstanding spec issues
- **Specification Editing**
  - Clarification of spec, implementing recommendations of Issues Subcommittee
- **Use Cases**
  - Clarification of issues in spec
  - Identify, model/illustrate BPEL usage in vertical industries
- **Liaisons**
  - W3C Choreography WG
  - Working on mappings to UN/CEFACT BCF
  - Discussions with OASIS BCM
- **Implementation**
  - Vendor demonstrations/interop planned



# Quick Update

- Current Issues List, spec and use cases:
  - [www.oasis-open.org/committees/documents.php?wg\\_abbrev=wsbpel](http://www.oasis-open.org/committees/documents.php?wg_abbrev=wsbpel)
- Expected release of spec: early Summer 2004
- More info:
  - Diane Jordan ([drj@us.ibm.com](mailto:drj@us.ibm.com))
  - John Evdemon ([jevdemon@microsoft.com](mailto:jevdemon@microsoft.com))

# Recommended Reading

([www.oasis-open.org/committees/documents.php?wg\\_abbrev=wsbpel](http://www.oasis-open.org/committees/documents.php?wg_abbrev=wsbpel))

- BPEL 1.1 specification
- Goals of the BPEL4WS Specification
- Abstract Processes in BPEL4WS
- BPEL4WS Issues Tracking
- BPEL4WS Use Cases