



# Issue 34 – Proprietary Dependencies

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# Issue Outline

- Issue Description
- Business Requirements
- Deployment Risks
- Recommendation
- Summary

# Issue Description: Issue 34

- Issue 34-Proprietary Dependencies: WS-Addressing
  - Description: Impact of cross-dependencies to proprietary specifications. May limit:
    - Adoption and deployment
    - Interoperability
    - Stability
- Concentrate on core WS-BPEL needs and requirements:
  - Concentrate on defining WS-BPEL requirements (look out rather than forcing proprietary specification in)
  - Enabling adoption and deployment
  - Eliminating risks for user community; provide stability
  - Consider exclusion of normative and non-normative references to proprietary specifications

# Business Requirements

- Assignment and partner links
  - Represent dynamic data that describes an partner service endpoint.
  - Select and assign actual partner services dynamically (stateless and stateful).
  - Allow partnerLinks to be extended whereby their instance information can be set more than once.
  - Provide a mechanism for dynamic communication of port-specific data for services.
  - Enable WS-BPEL to dynamically select a provider for a particular type of service and to invoke their operations.

# Business Requirements

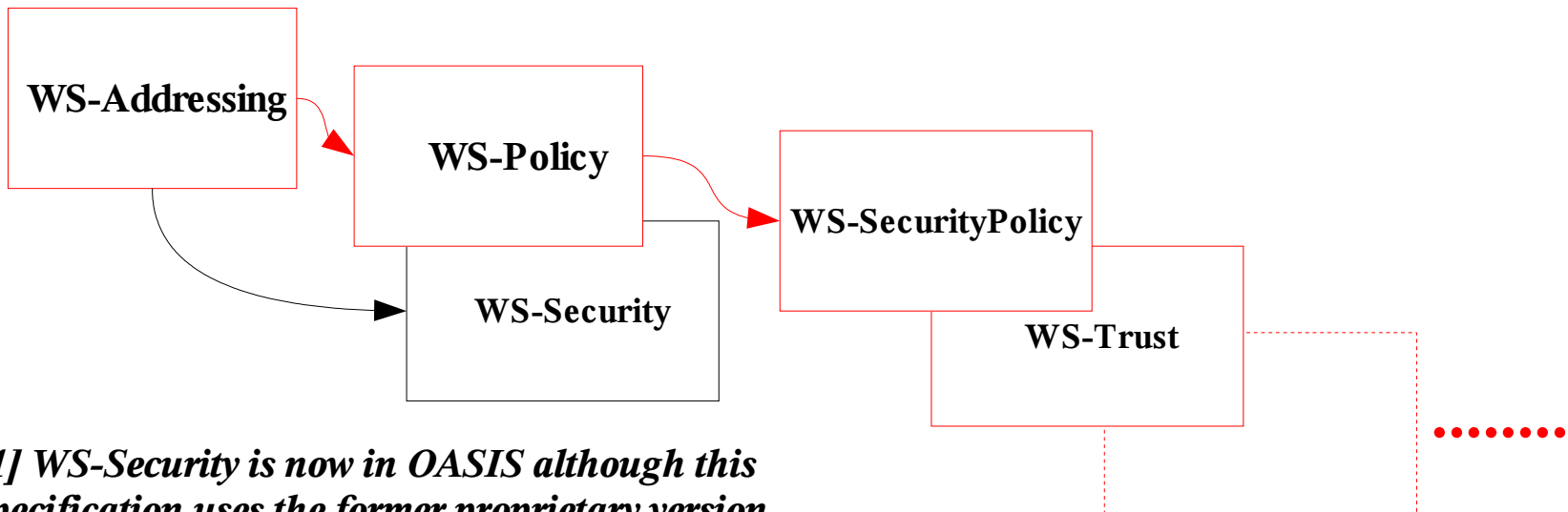
- Correlation
  - Express service references and make available to WS-BPEL process.
  - Associate correlation tokens with service references to support association of WS-BPEL processes.
  - Enable a process to determine an unique value to instantiate a correlation set.
  - Resolve which correlation set value to use when two concurrent receive activities are instantiated.

# Deployment Risks

- Marketplace realities
  - Reference not core to the specification
  - Proprietary development
  - Uncertain change management control and versioning
  - Changes to technical specification and licensing terms
  - Immaturity of specification references
- Focus on business and technical requirements not implementation options
  - Existing technologies within a standards body may provide basic functions.
  - Encourage authors to submit to standards body.
  - Allow space and specifications to evolve/mature while enabling WS-BPEL to lower the barrier to entry.

# Deployment Risks

- Eliminate barriers to entry: WS-Addressing is only the tip of the iceberg
  - WS-Policy reference to....
    - WS-Security [1], WS-SecurityPolicy, and WS-Trust to.....
    - Other WS-\* specifications...



***[1] WS-Security is now in OASIS although this specification uses the former proprietary version***

# Recommendations

- Specify business/technical requirements not specification dependency
  - Abstract away from proprietary specification – just another implementation option.
  - If appropriate, investigate open standards references
    - Consider WSDL service and endpoint references, and extensibility options.
    - May affect future WSDL v2.0 boundaries/usage in WS-BPEL.
- Realize other issues can limit portability and interoperability.
  - Issue 96 Opaque activity: WS-Addressing mentioned.
  - Issue 31 Unique identifier for new correlation
    - Application specific means or message data are being used, which may not insure uniqueness.
    - WS-Addressing cited for session-based communications (as another correlation mechanism)



# Summary

- Concentrate on requirements not implementation options.
- Address in context of other related issues and dependencies.
- Lower barriers to entry.
  - Delete normative WS-Addressing references.
  - Do similar analysis task for WS-Coordination and WS-T.

# Summary

- Concentrate on requirements not implementation options.
- Address in context of other related issues.
- Lower barriers to entry
  - Delete normative WS-Addressing references.
  - Do same analysis task for WS-Coordination (and WS-T).



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