



Issue 34 – Proprietary Dependencies

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1 April 2004

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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

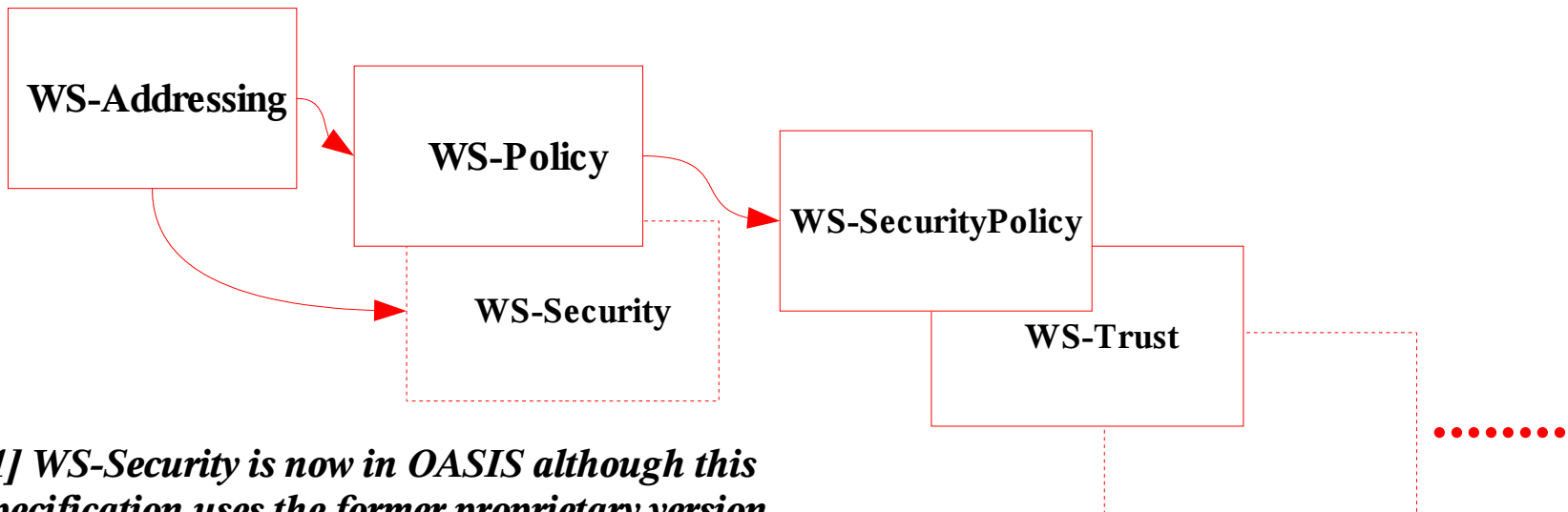
- Correlation
 - Express service references and make available to WS-BPEL process.
 - Associate correlation tokens with service references to support association of WS-BPEL processes.
 - Enable a process to determine an unique value to instantiate a correlation set.
 - Resolve which correlation set value 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).
 - Issue 4 Dynamic parallel processing – New requirements identified 1 April 2004

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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