

CSF Analysis

WS-CHOR

Goals

- Capture the interaction of a set of web services ...
from a global perspective
 - Promote interoperability
- Software engineering
 - A product we can be proud of
- Effective Business Scope
 - Reach a wide audience
 - Obvious business case
- Community
 - W3C, external standards

Critical Success Factors

- Support for independence
 - Peer to peer, not tied to B2B
 - Deal with mixed security environments
- Sound semantics
 - Declarative global model
 - Verifiable at run-time and statically
 - Guarantees of state alignment
 - Composable

More CSFs

- Software engineering
 - Reusable, Scalable, Secure,
 - Gradual Complexification,
 - Simple foundation
- Tooling
 - Easy for tool vendors to leverage
 - Graphical presentation

Yet More CSFs

- Time to market
 - Not dependant on ‘future’ specs
 - Must support WSDL 1.2
 - Zero cost of entry for existing Web services
- Fit in the Web service landscape
 - Based on XML technologies
 - Clear relationship with BPEL, Semantic Web, ebXML, etc.

Requirements

- Be distinct from programming languages
- Machine readable/processable
- Expressible in terms of externally observable behavior
- Must support QoS specification
- Should not attempt business semantics
- Should support testing
 - External observers, test case generation

Technical requirements

- Enable recovery from exceptional situations
- Express conditional paths
- Conditional start, end points
- Must be possible to chain choreographies
- Support concurrent execution
- Support message correlation
- Atomic and composite interactions