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