





SOA with Web Services	josuttis l eckstein	
SOA Key Concepts		
 Loose Coupling Decouple dependencies to gain flexibility and fail 	ault tolerance	
 Services Integrate business' language into IT 		
 High interoperability Make it easy to connect and reorganize system 	s and capabilities	
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SOA with Web Services	communication			
Web Services				
 SOA infrastructure using Internet technology Web Servers provide services XML as interface language 				
 Driven by Microsoft and IBM and others 				
 Core Standards: WSDL (Web Services Description Language) as service interface description SOAP (Simple Object Access Protocol) as message format UDDI (Universal Description, Discovery and Integration) as registry/broker ("yellow pages") 	on)			
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Problems with Web Services			
 Open Standardization Leads to Standards that are not interoperable 			
 Low-level infrastructure For intelligent routing and management of services you need more 			
 Focus on technical aspects 			
 No inherent support for non-functional attributes 			
 Danger of harmonization trap 			
 There will be other infrastructures 			
 There will be multiple repositories 			
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Web Services FAQ		
 Should we use Web Services? What else: nothing (if you can avoid distribution, avoid it) proprietary solution self made 		
 What should we bear in mind using Web Service Follow WS-I Basic Profile 1.1 Use SOAP protocol "document/literal wrapped" Don't expect everything to work, so be careful with new/special features provide resources to solve certain problems Don't use WSDL to specify service contracts 	s?	
 Are we doing SOA when we use Web Services? You might only do "JaBoWS" (Just a Bunch of Web Servi 	CES)	



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Q&A			
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