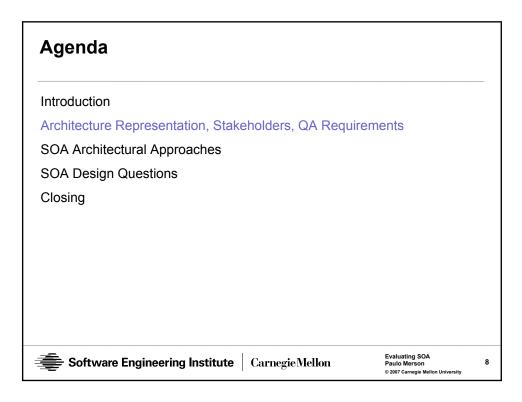
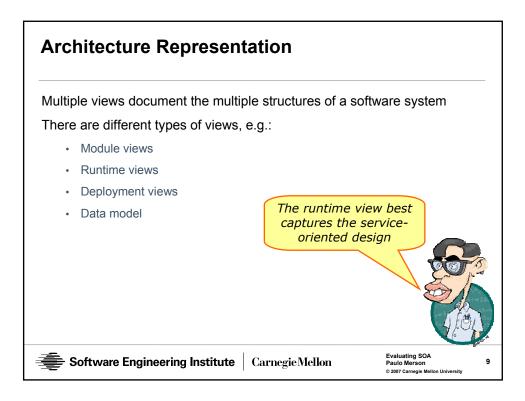


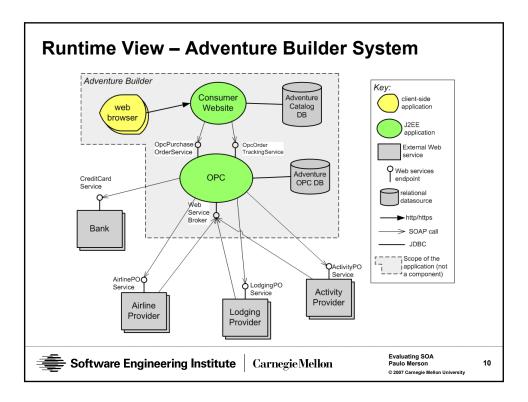


Drivers for SOA		
Better reuse of IT assets		
Corporate mergers and acquisitions		
Changing business partnerships (e.g., a new supplier)		
Modernization of obsolete systems for financial, function reasons	nal or technical	
Integration with legacy systems		
Software Engineering Institute CarnegieMellon	Evaluating SOA Paulo Merson	7

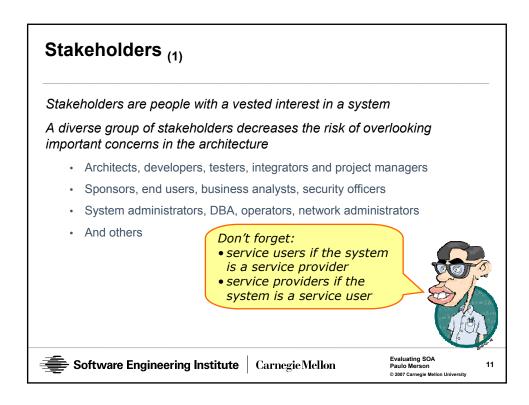


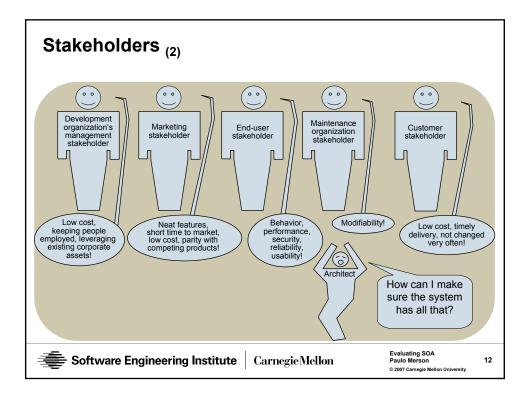




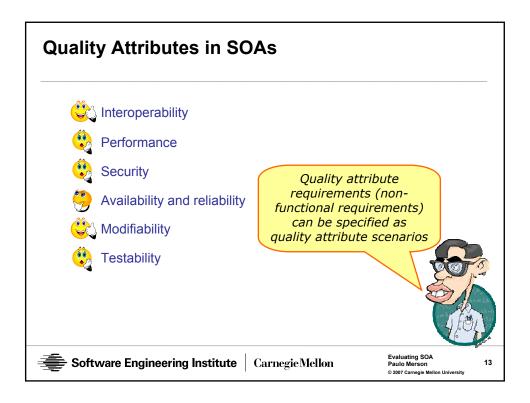


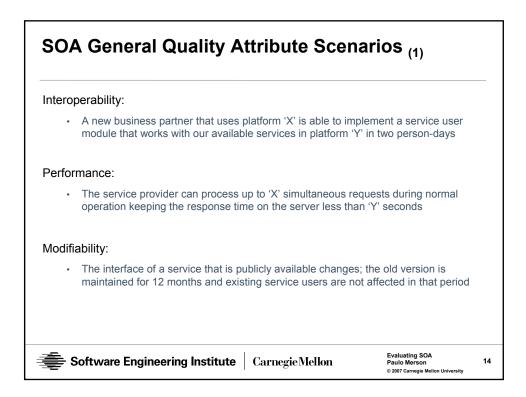




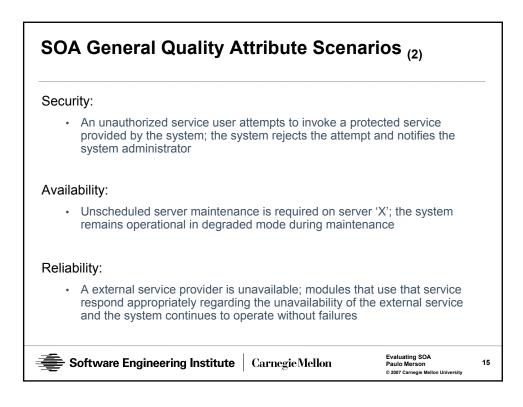


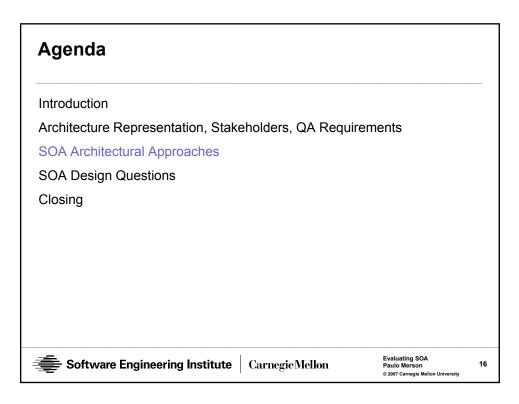




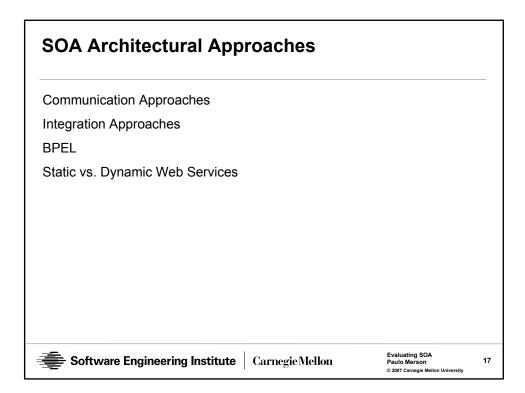


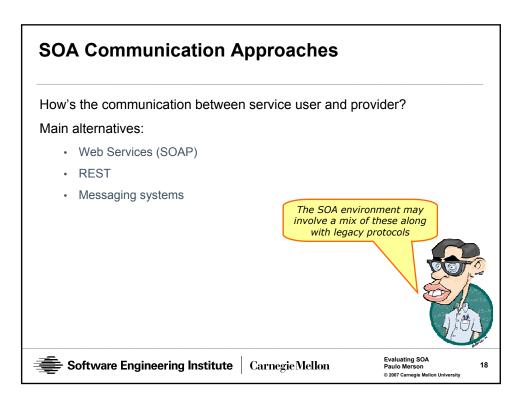




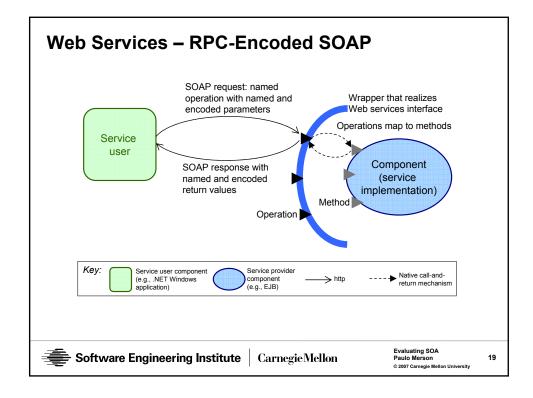


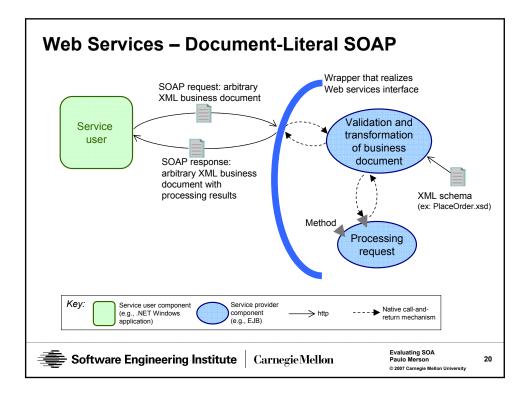






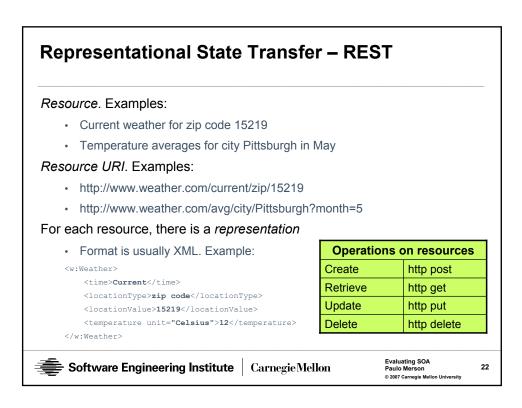




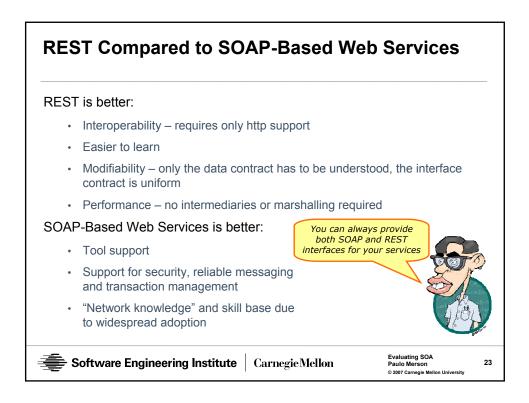


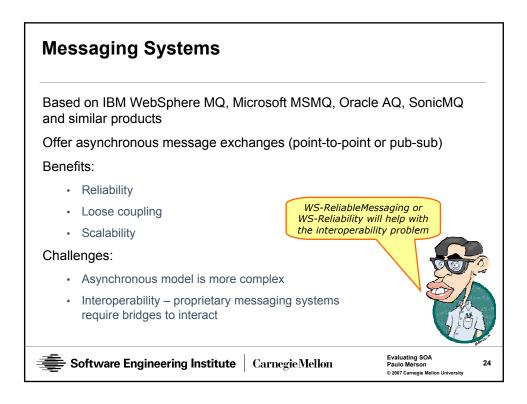


SOAP encoding         Performance <sup>®</sup> Processing overhead to encode payloads <sup>®</sup> Requires DOM parsing <sup>®</sup> Allows other parsing technologie         Modifiability <sup>©</sup> Service interfaces closer to programming language <sup>®</sup> Clients more susceptible to <sup>®</sup> More flexibility in changing <sup>®</sup>		RPC-Encoded	Document Literal
encode payloads       Image: Second payloads         Image: Second payloads	Interoperability		Recommended by WS-I
Modifiability       Image: Service interfaces closer to programming language       Image: Service interfaces closer to progra	Performance	, and the second s	No encoding overhead
programming language       XML schemas, processing and transformation code         Image: Clients more susceptible to       Image: More flexibility in changing		8 Requires DOM parsing	O Allows other parsing technologies
	Modifiability	-	XML schemas, processing and
interface changes definition of business documents		<ul> <li>Clients more susceptible to interface changes</li> </ul>	Of the second

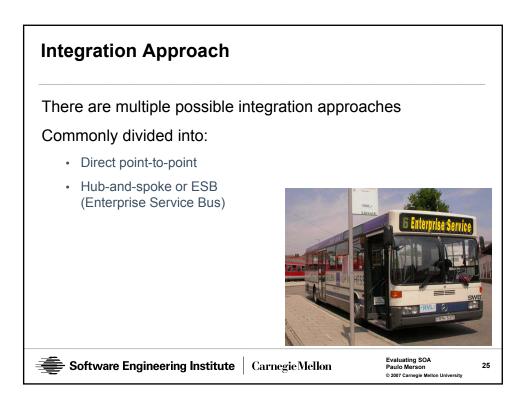


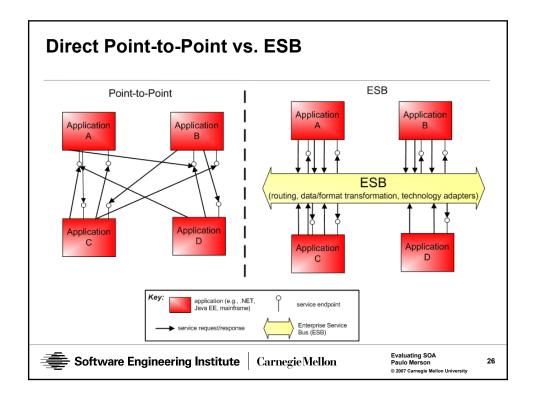




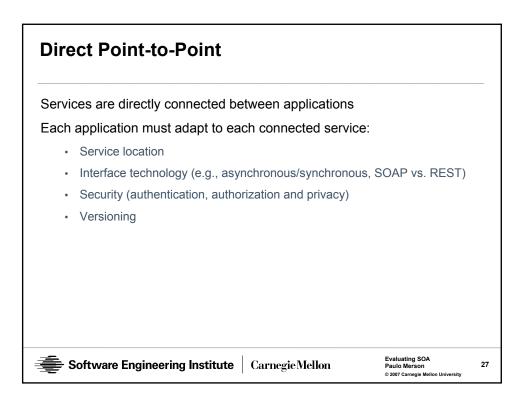


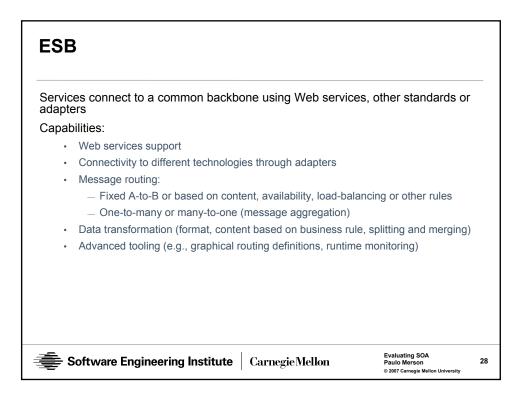














## Point-to-Point and ESB Tradeoffs

Security <sup>®</sup> Authentication and authorization managed case- by-case by each service <sup>®</sup> Allows independent management of security for each service          Interoperability <sup>®</sup> No special support for interoperability between service users and providers <sup>©</sup> Supports integration of diverse platforms		Point-to-Point	ESB
Security <ul> <li>Authentication and authorization managed case- by-case by each service</li> <li>Allows independent management of security for each service</li> </ul> Interoperability <ul> <li>No special support for interoperability between service users and providers</li> <li>Cost</li> <li>No extra cost</li> <li>Higher cost and complexity of</li> <li>Authorization of and routing overhead</li> <li>Supports integration of diverse platforms</li> <li>Supports and complexity of</li> </ul>	Modifiability	interface induces change to	and compatibility is managed in
Interoperability <sup>®</sup> Nutricitization managed case- by-case by each service <sup>®</sup> Nutricitization managed case- by-case by each service          Interoperability <sup>®</sup> No special support for interoperability between service users and providers <sup>©</sup> Supports integration of diverse platforms          Cost <sup>©</sup> No extra cost <sup>®</sup> Higher cost and complexity of	Performance	- ····································	-
interoperability between service users and providers     platforms       Cost     ③ No extra cost     ⑧ Higher cost and complexity of	Security	authorization managed case-	management of security for
Inglier cost and complexity of	Interoperability	interoperability between	• • • • • • • • • • • • • • • • • • •
	Cost	O extra cost	

