



July 13 2006, 2:40-3:15pm Kevin Dillon Chair IPSF

IPsphere **FORUM**

THE BUSINESS OF IP

Extending IP Services across multiple jurisdictions

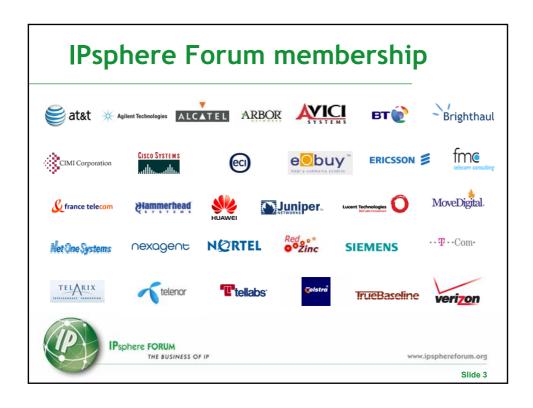
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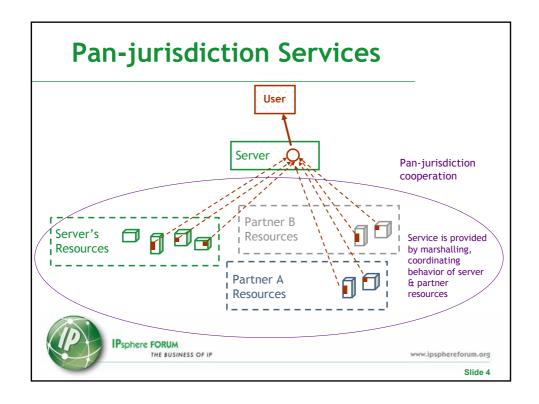
Truisms

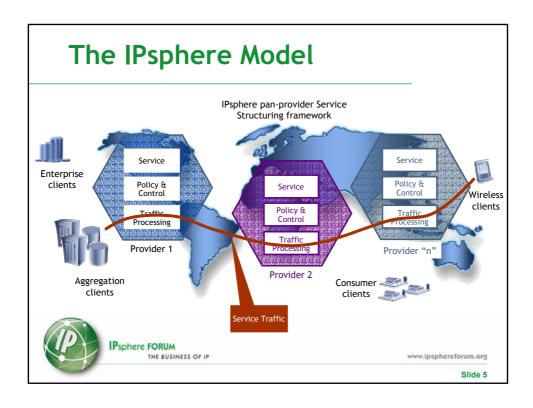
- There will never be one network run by a single operator capable of global (or even national) any-any connectivity
 - Federated model is what we will always have & must make work both technically & commercially
- Internet has delivered an extremely well architected, universally agreed approach to federating connectivity
 - WWW successes demonstrate (powerfully) the benefits of panjurisdiction connectivity
- There is as yet no similar consensus approach to federating service capabilities beyond connectivity
 - · Cross-jurisdiction QoS, trust, SLA etc.
- Agreed framework for offering & invoking of capabilities panjurisdiction is technically achievable
 - Enlightened self-interest is the critical commercial motivator

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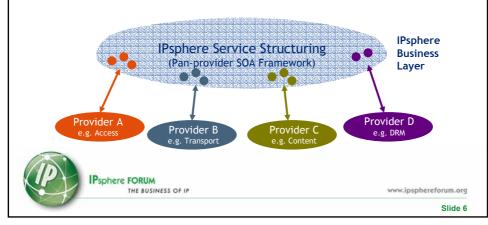






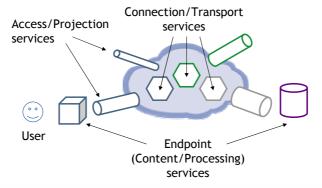
Register, Discover, Select, & Use

- 1. Individual providers register service "element" offers
- 2. "Serving" entity discovers technical service "elements" required of others
- 3. Assess, negotiate commercial terms for use of "element" in the overall service
- 4. Individual providers execute per their "element" offers when invoked by server



Service Elements

Physical View





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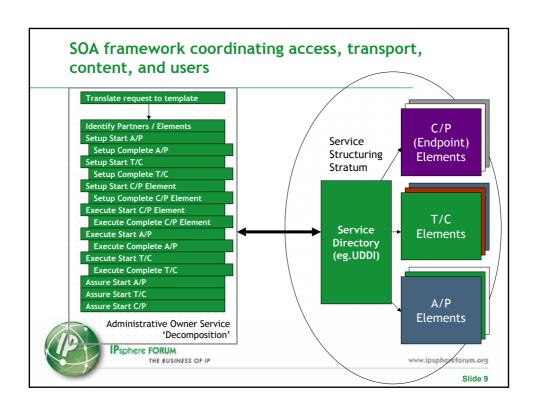
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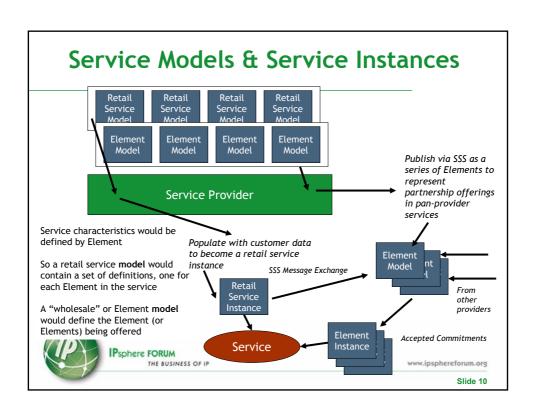
SOA relevance to IPsphere

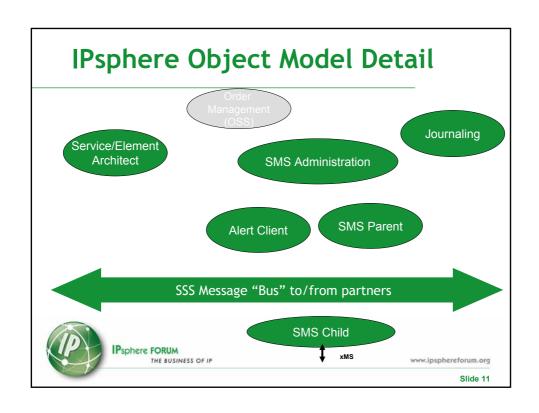
- Composition approach that connects the functional units of an solution, called services, through well-defined interfaces and contracts between these services. SOA also emphasizes loose coupling between services. Loose coupling precludes undocumented interactions between services, for example through shared data, and it also supports the independent evolution of interfaces
- A service's interface is defined in a way that is independent of the hardware
 platform, the operating system, hosting middleware and the programming
 language used to implement the service. This allows services, built on a
 variety of systems, to interact with each other in a uniform and universal
 manner. In addition, the solutions' interfaces and services are expressed using
 business terms and concepts they are not technology focused
- The benefit of a loosely-coupled system is in its agility its ability to
 accommodate changes in the structure and implementation of the internals of
 a service. By contrast, tight coupling means that the interfaces between the
 different components of an application are dependent on the form of
 implementation, making the system brittle when changes are made to
 components
- The agile nature of loosely-coupled systems serves the need of a business to adapt rapidly to changes in policies, business environment, product offerings, partnerships and regulatory requirements

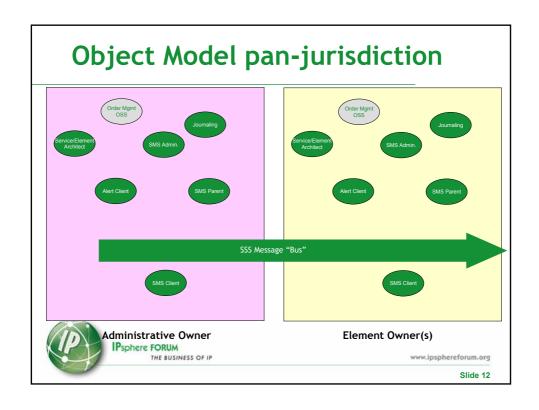


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Object Functions

- Order management (OSS)
- Service / Element Architect
- SMS Administration
- SMS Parent
- SMS Child
- SMS Message Bus
- Alert Client
- Journaling



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IPsphere Activities 2006

	Q1 06	Q2 06	Q	3 06	Q4 06
Workshops	IPSF Burbank Feb 13-15	IMS I Paris IPSF Sophia Object Mo Antipolis Sunnyval May 15-17		IPSF Oslo Sept 12-14	IPSF London Dec 11-13
Publication	IPsphere commercial framework			Release I technical framework	Release II technical framework
Showcasing		Tokyo Reference Implementation			London Showcase I
Liaisons	ІТИ-Т		TBA: HGI IETF LAP 3GPP ETSI GSMA MFA OASIS GGF TMF BSF		
IP	IPsphere FORU	M SINESS OF IP			www.ipsphereforum.org

IPsphere...

- · From misalignment to cooperation
- · Framework supports diverse commercial arrangements
- · Agile and flexible
- · Technology demonstrations have already taken place
- · First release of specifications by end of year
- Supported by leading service providers & suppliers

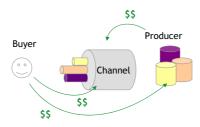


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Channel characteristics determine commercial potential



\$\$ can flow in multiple directions & proportions

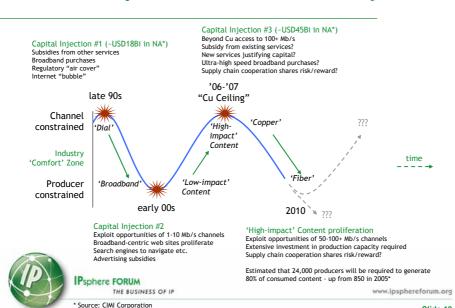


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Inter-dependant investment cycles



Cooperating to reduce risks & accelerate rewards At peaks & troughs the entire supply side (i.e. both channels & producers) are at financial risk; one stakeholder's opportunity is constrained by capital need of the other '06-'07 late 90s "Cu Ceiling" Financial ecosystem in parallel with technical Channel 'Copper' 'Highecosystem constrained 'Dial impact' Content Industry 'Comfort' Zone 'Low-impact' Producer 'Broadband Content constrained early 00s 2010 IPsphere aim is a market-linked mechanism which relieves extremes, mitigates risks to the overall industry IPsphere FORUM

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