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Version 3: March 4 2009

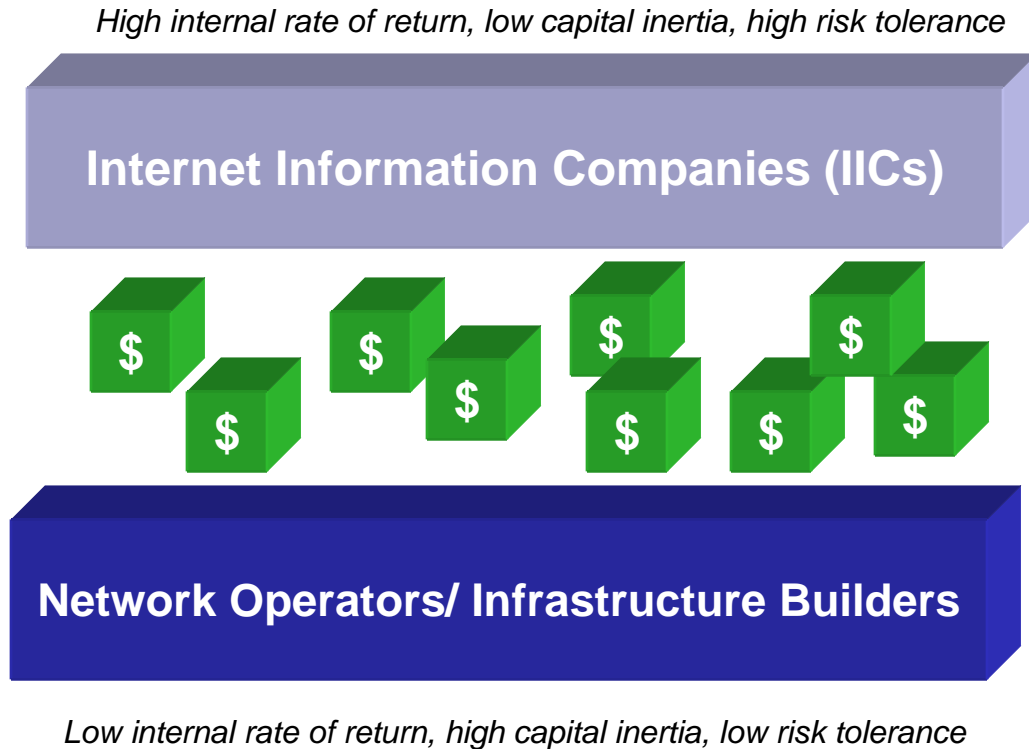


ExperiaSphere Technical Primer



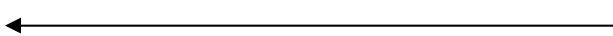


The ROI Dimension

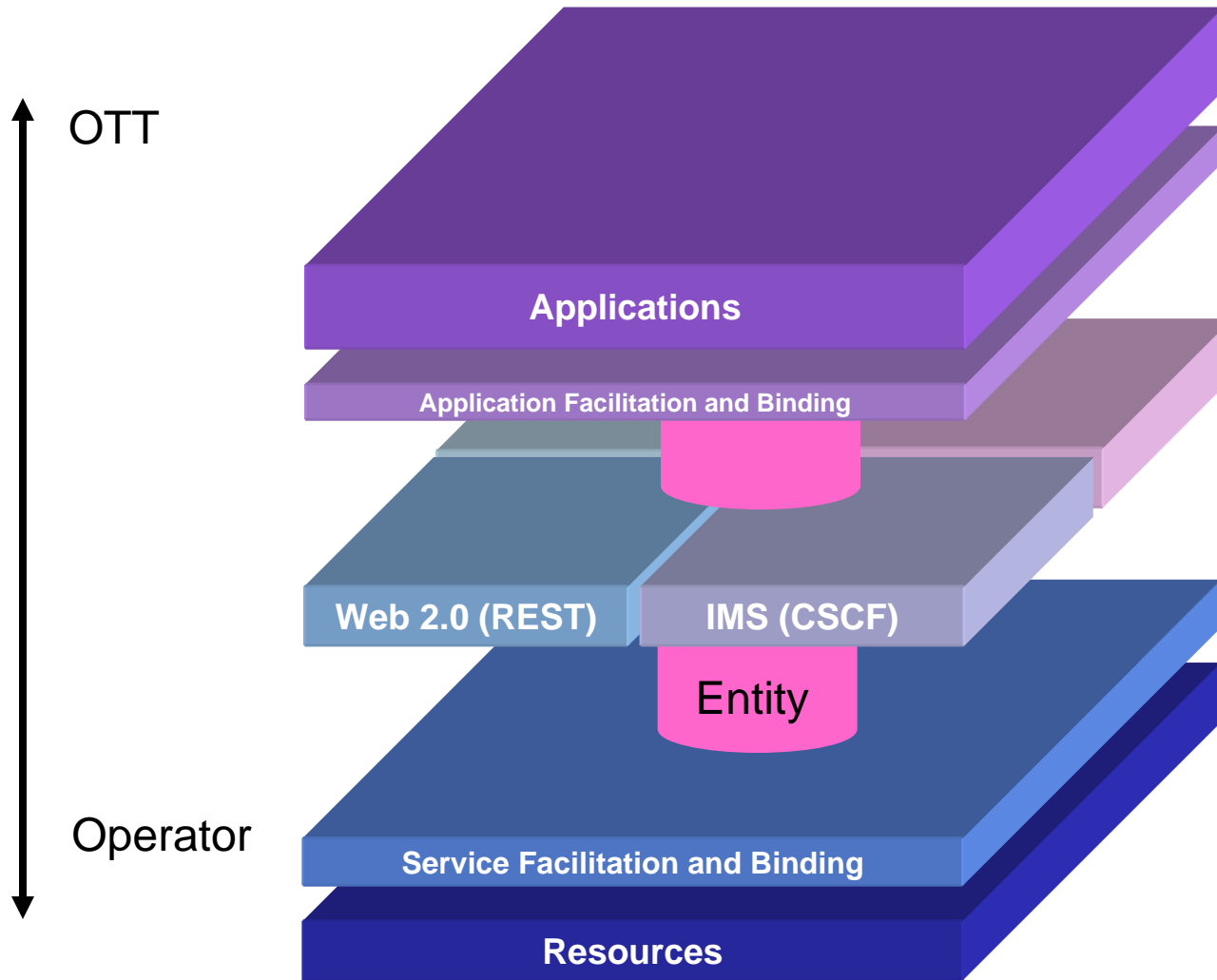


Essential Stuff is falling between the ROI cracks!

Fixing this problem is a key requirement in maximizing network utility and profit for all



An Architecture for NGN Services



A Next-Generation Networks Service Architecture (NGNSA) consists of three primary layers, as IMS does. They are Application, Services, and Resources. The Application and Resources layers are joined to the Service structure through a facilitation process set (Service and Application Facilitation). Any service framework can, through these layers, link resources and applications in a comparable way. IMS is such a framework, based on SIP, but Web 2.0/REST and other frameworks are equally supported, and the concept is rooted in something we call **Entity**.





Converging on an “Experiam”

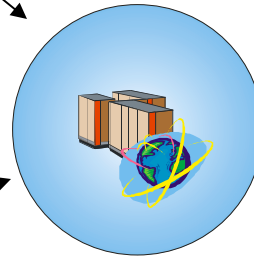
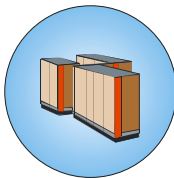


Retail orders are represented as instances of a Service Contract which in turn is a high-level Experiam

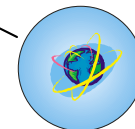
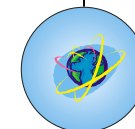
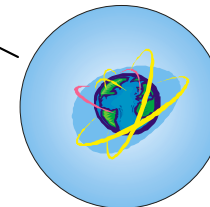
Resource collections are represented as the basis for that Service Contract



Any set of hosted components from processing to content can be represented



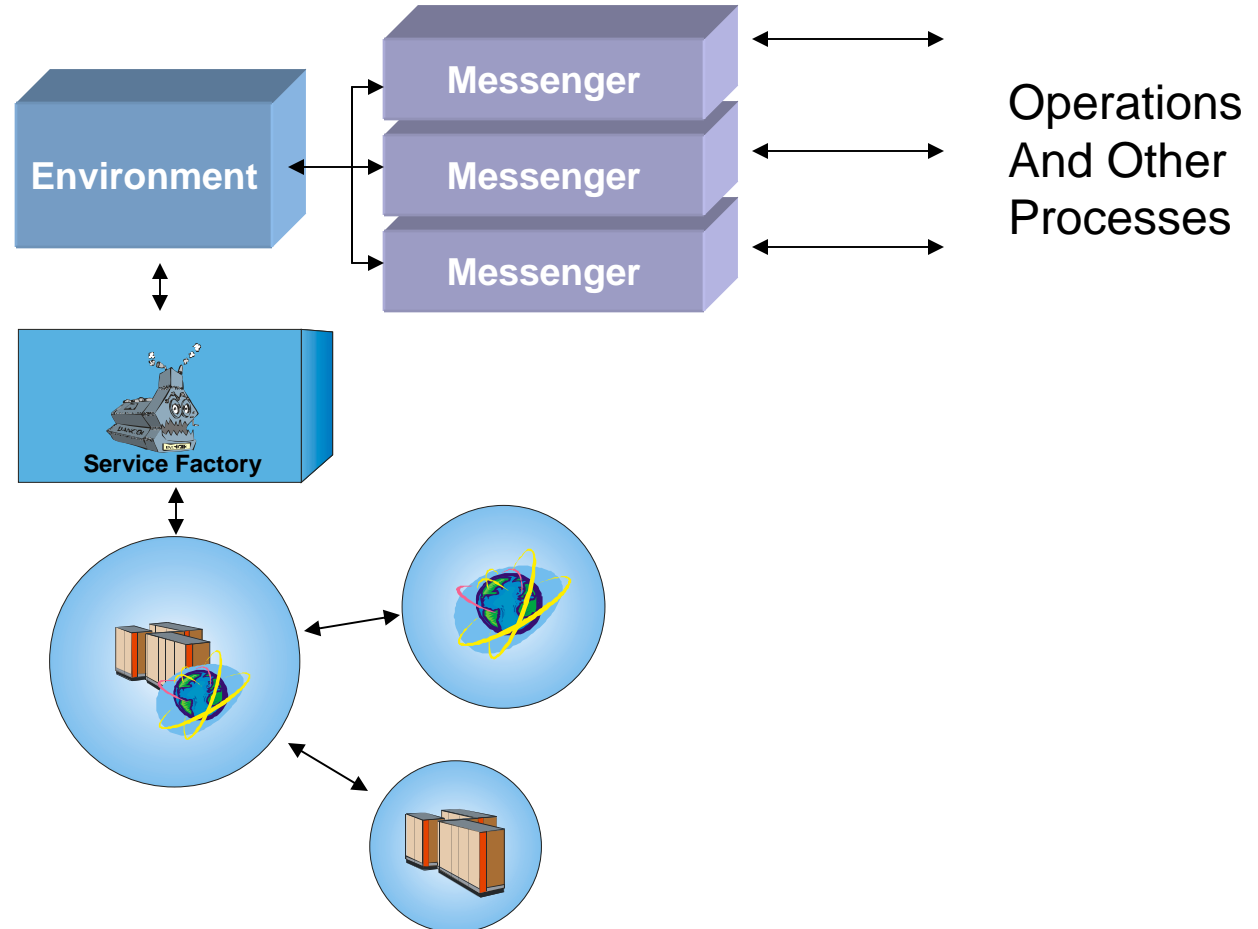
A class of resource (the network) can be subdivided by the administrations that offer pieces of it





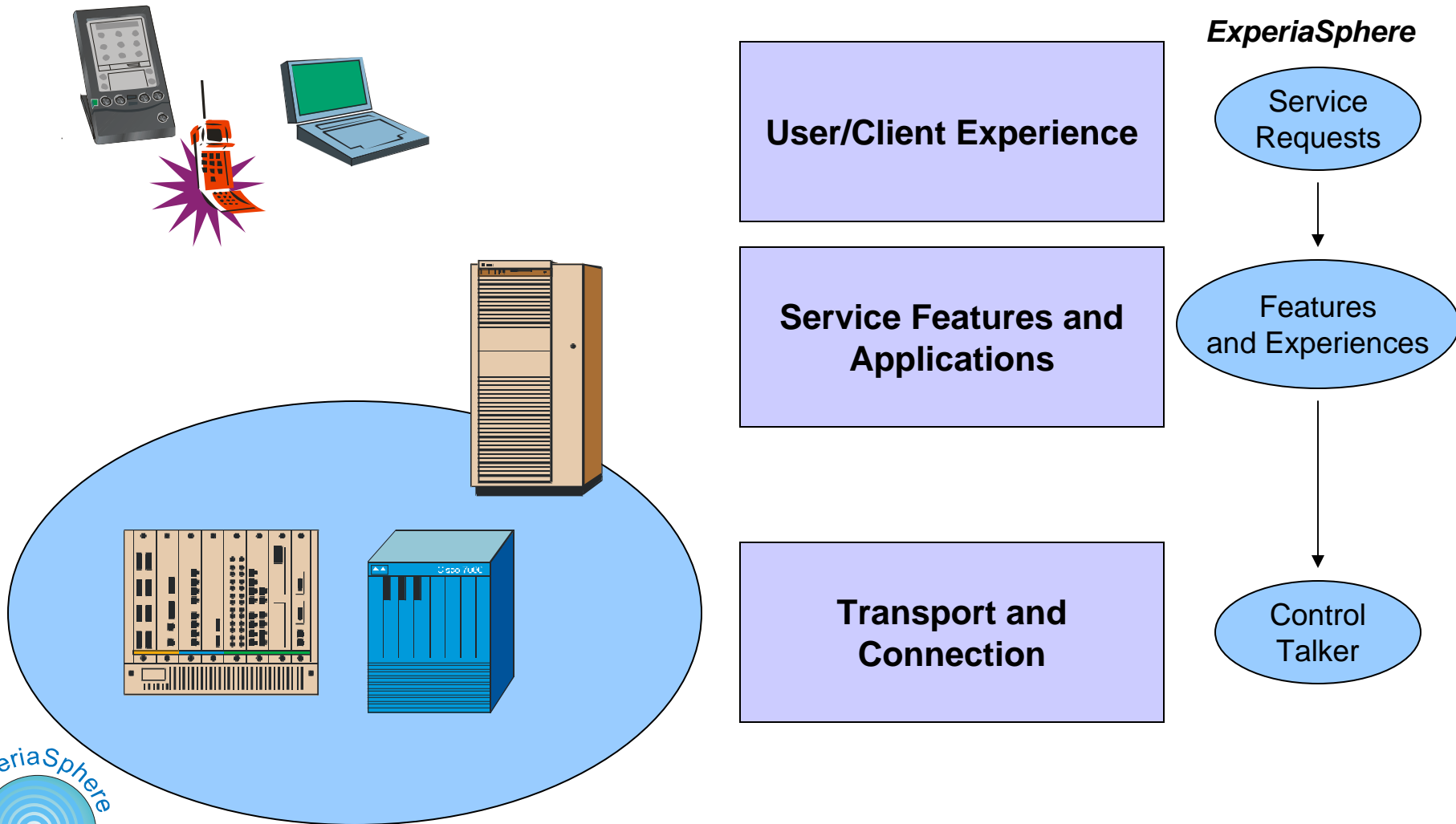
An Experience as a Java Application

*ExperiaSphere is built on Java applications that include one or more Service Factories. Each Factory has a Service Contract specimen that is available to be ordered, and an order will consist of dispatching an instance of that contract to the Factory. There, it is passed down to the subordinate factories that create each component of the service order. The service Order is a persistent artifact that connects the individual Factory contributions and also exposes and/or accesses any operations processes via Messengers. **A Service Factory can take work in any form and deliver it in any form with the proper messenger!***



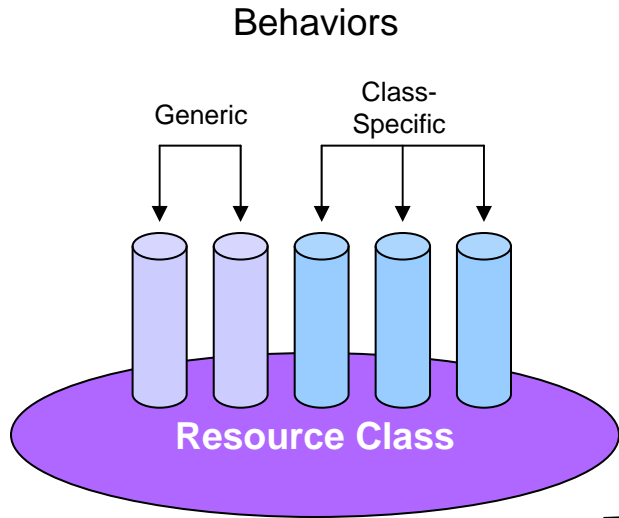


The Basic Service Model



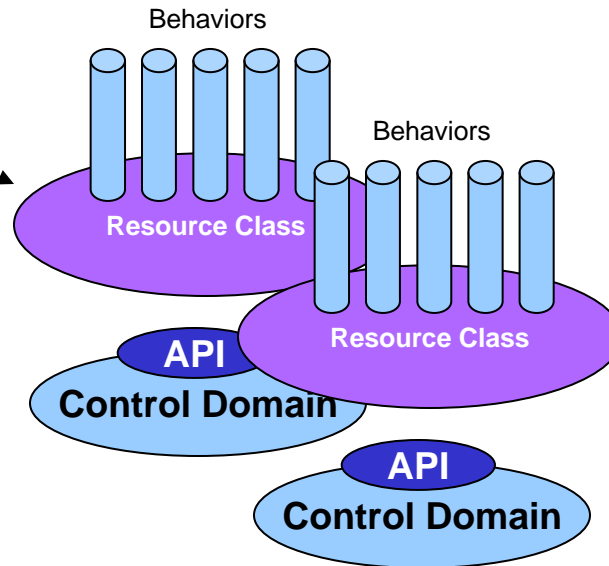


Resource Exposure: The Resource Class



An ExperiaSphere Resource Class is a set of objects that provide comparable behavior. For example, a "Network" resource class exposes the behaviors LINE, LAN, and TREE

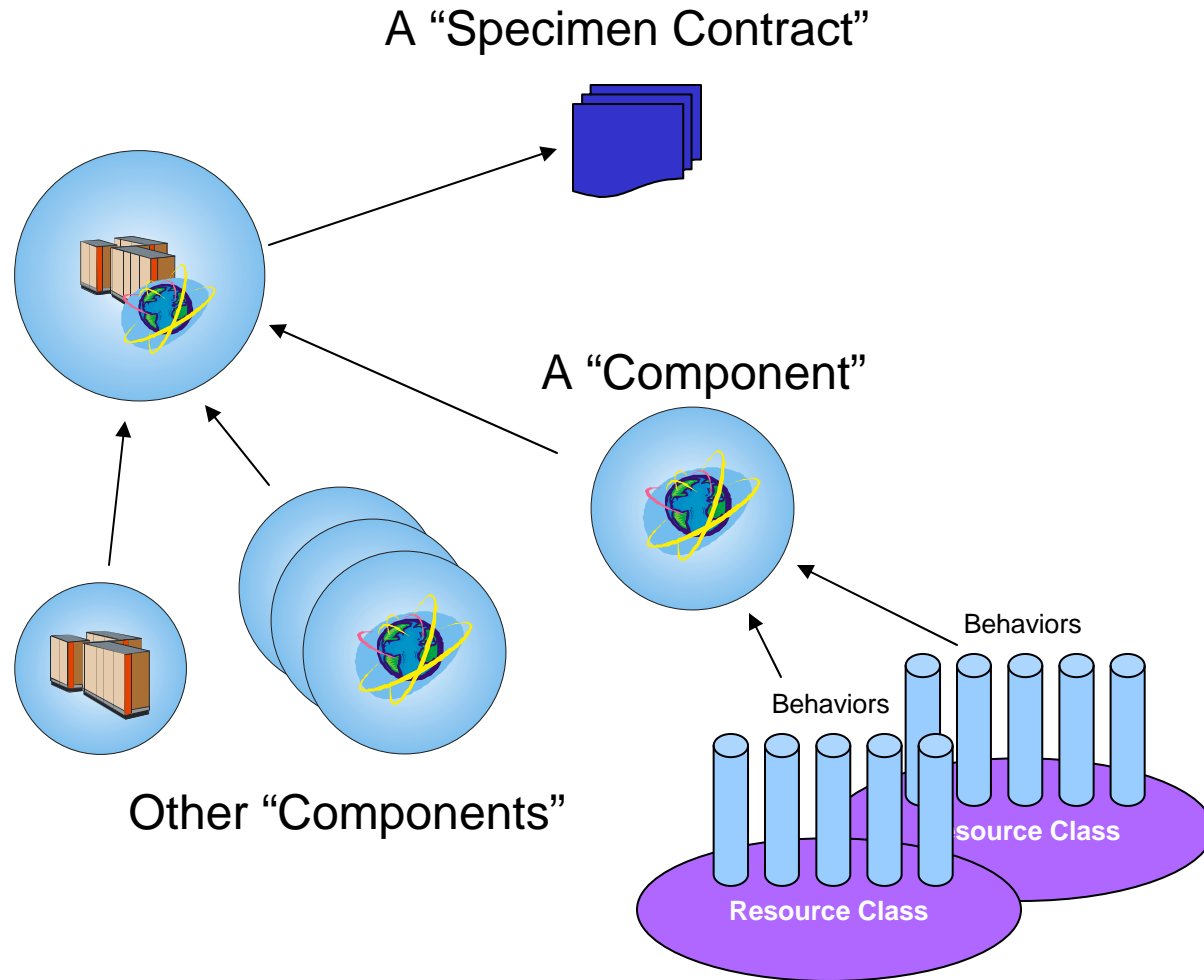
Individual resources form subclasses that can expose any subset of the class behavior and that end up actually controlling the resources they represent through management interfaces





Resource Classes to Services

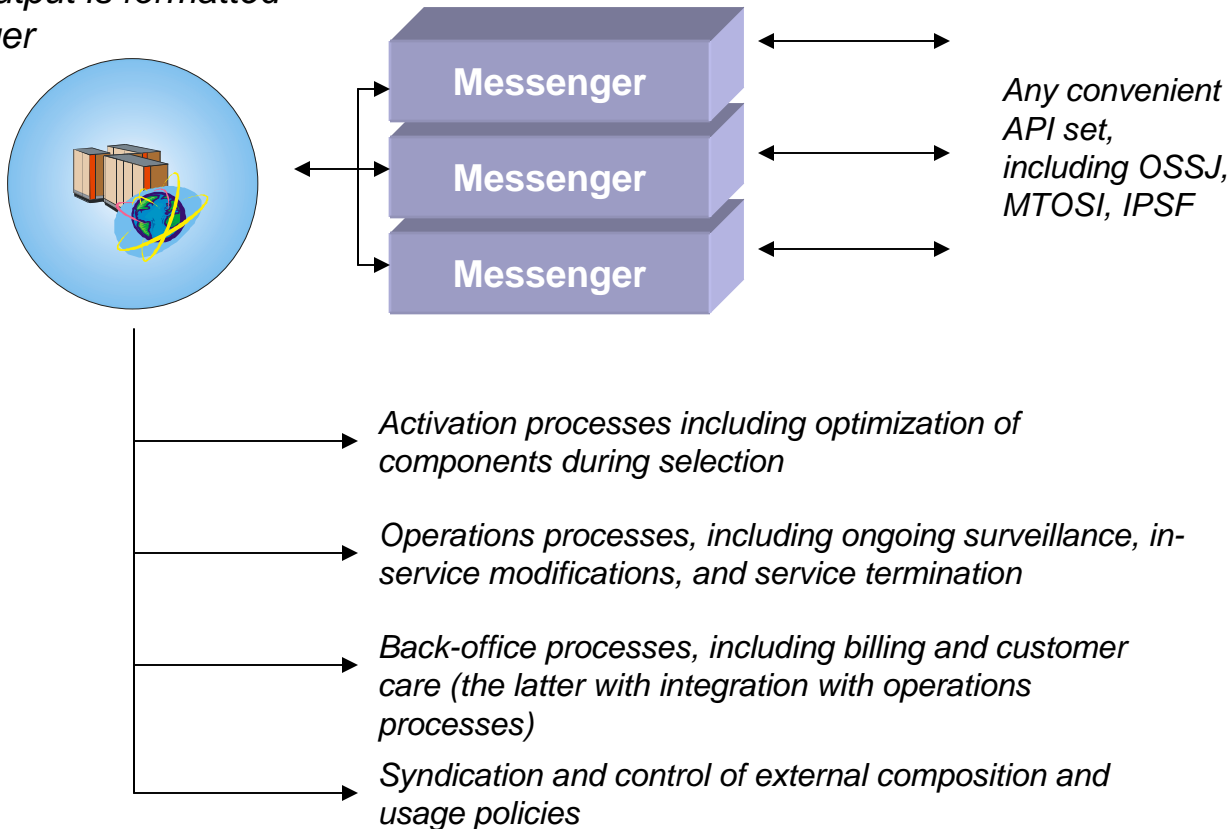
As a Service is assembled from components, the process builds a specimen contract that provides the basis for orders from that factory. Thus, the Factory and not the Contract, is the primary object





Execution Structure

All work is formatted into a work queue and all output is formatted by the messenger

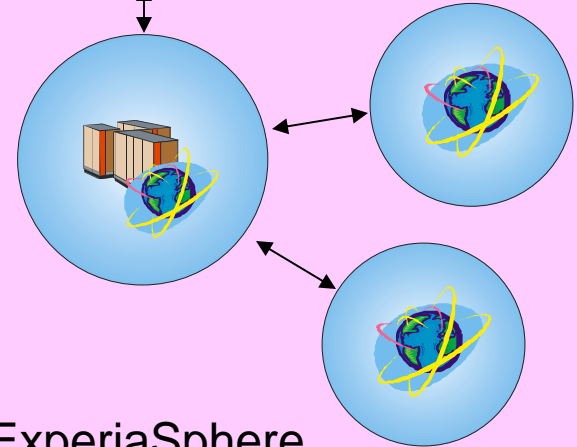
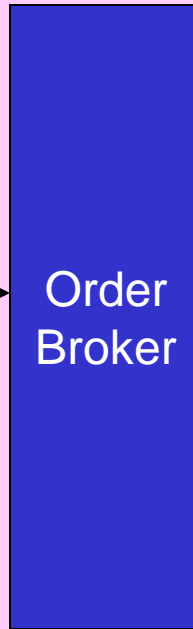
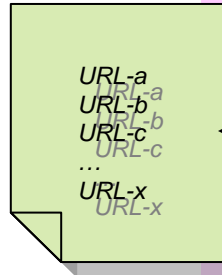




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Any user with web access can go to any website and obtain access to any carrier-facilitated service based on any set of network resources



ExperiaSphere

Any website can be a launch point for services that require provisioning of network resources, partnerships across provider boundaries, or even cooperation between OTT APIs and carrier facilities

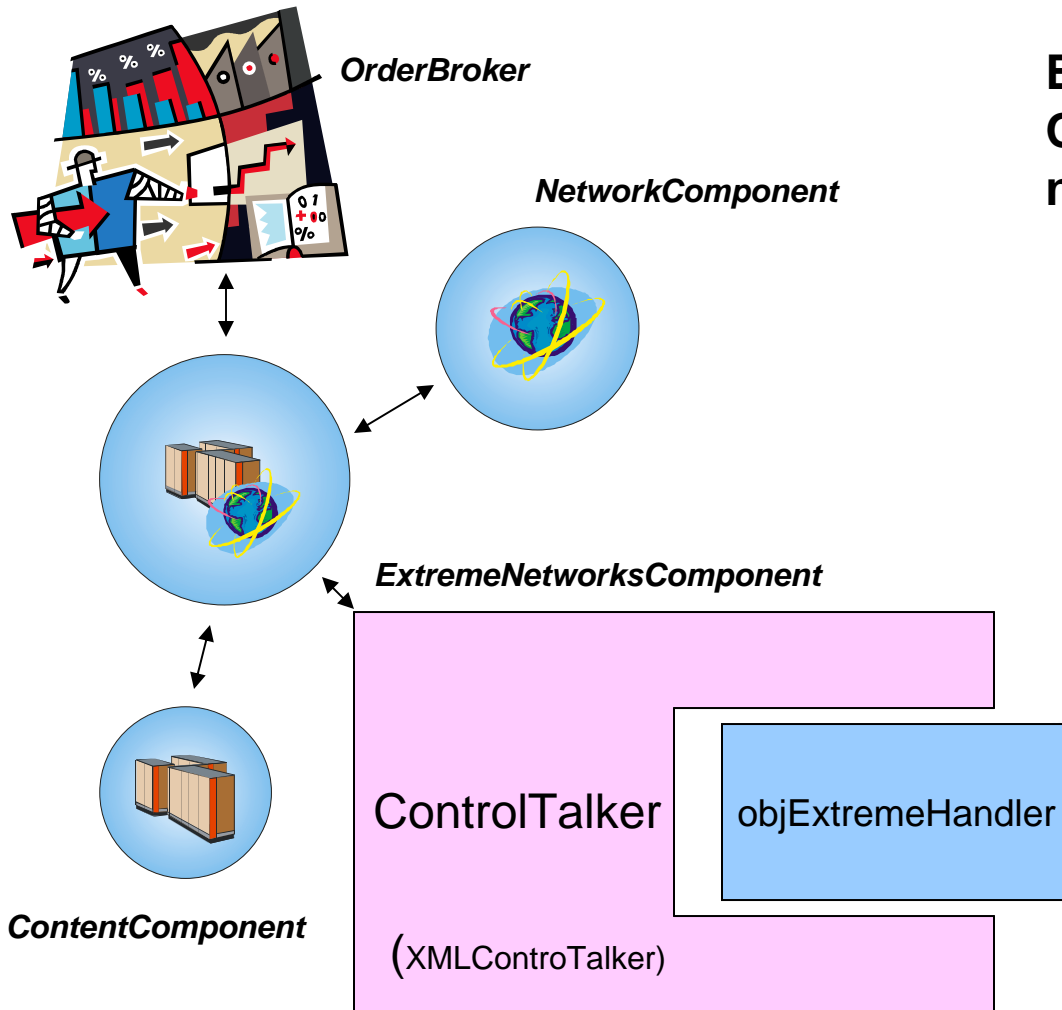
Any service or experience can be represented as a series of abstract objects that manage the entire lifecycle of the service or service/component transparently to those who use it, based on any technology, any vendor, any OSS/BSS, and in conformance to both established and emerging standards



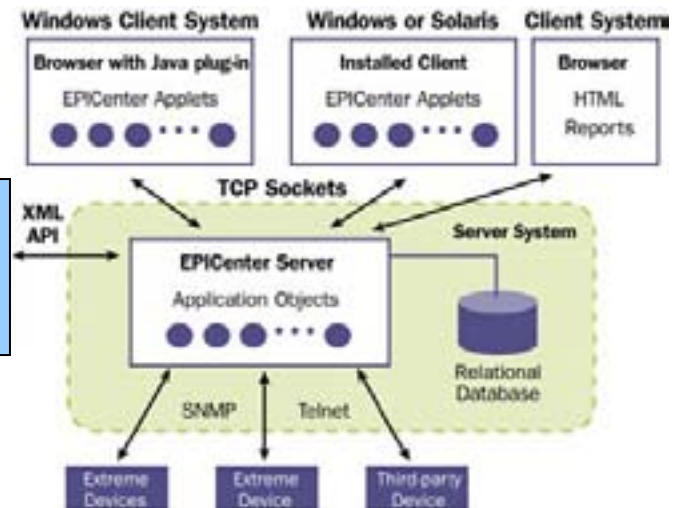


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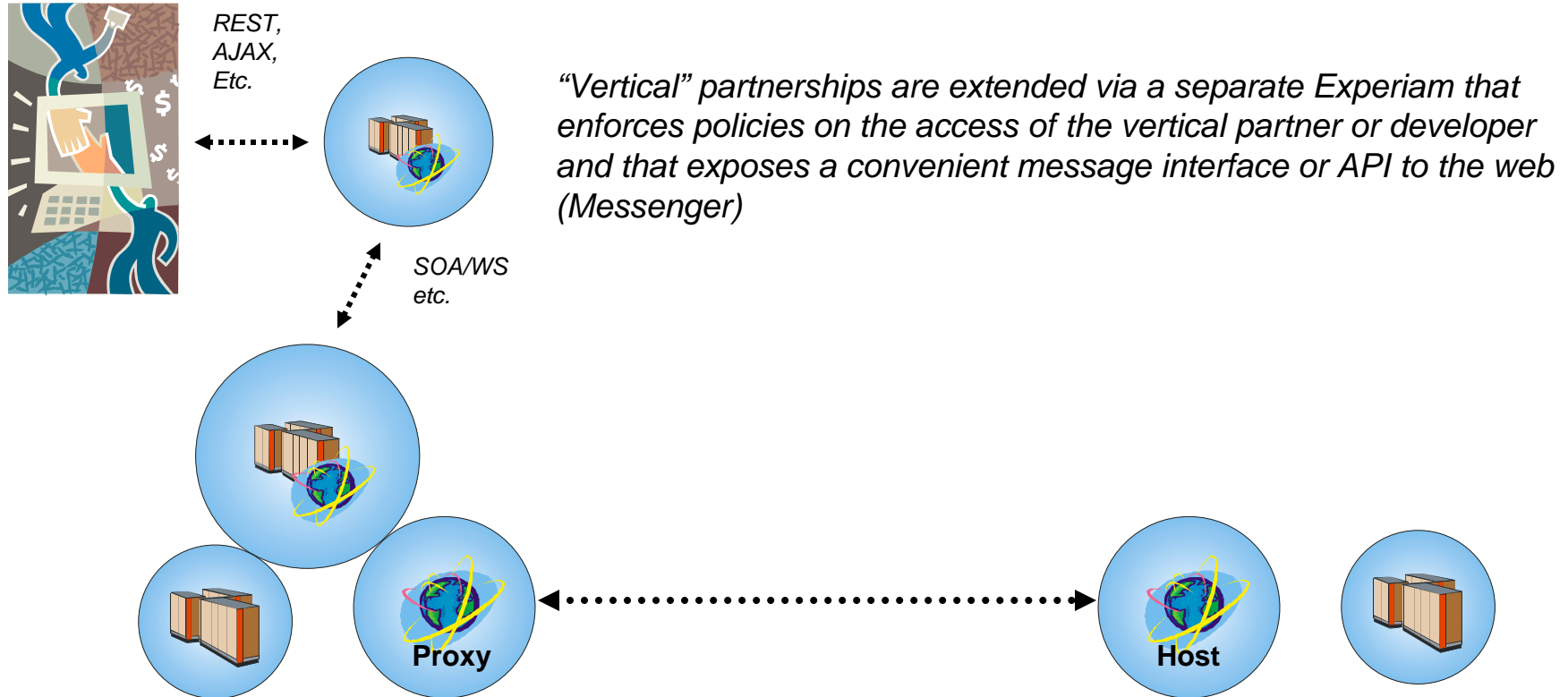


Extreme Networks' EPICenter: Our first ExperiaSphere network partner





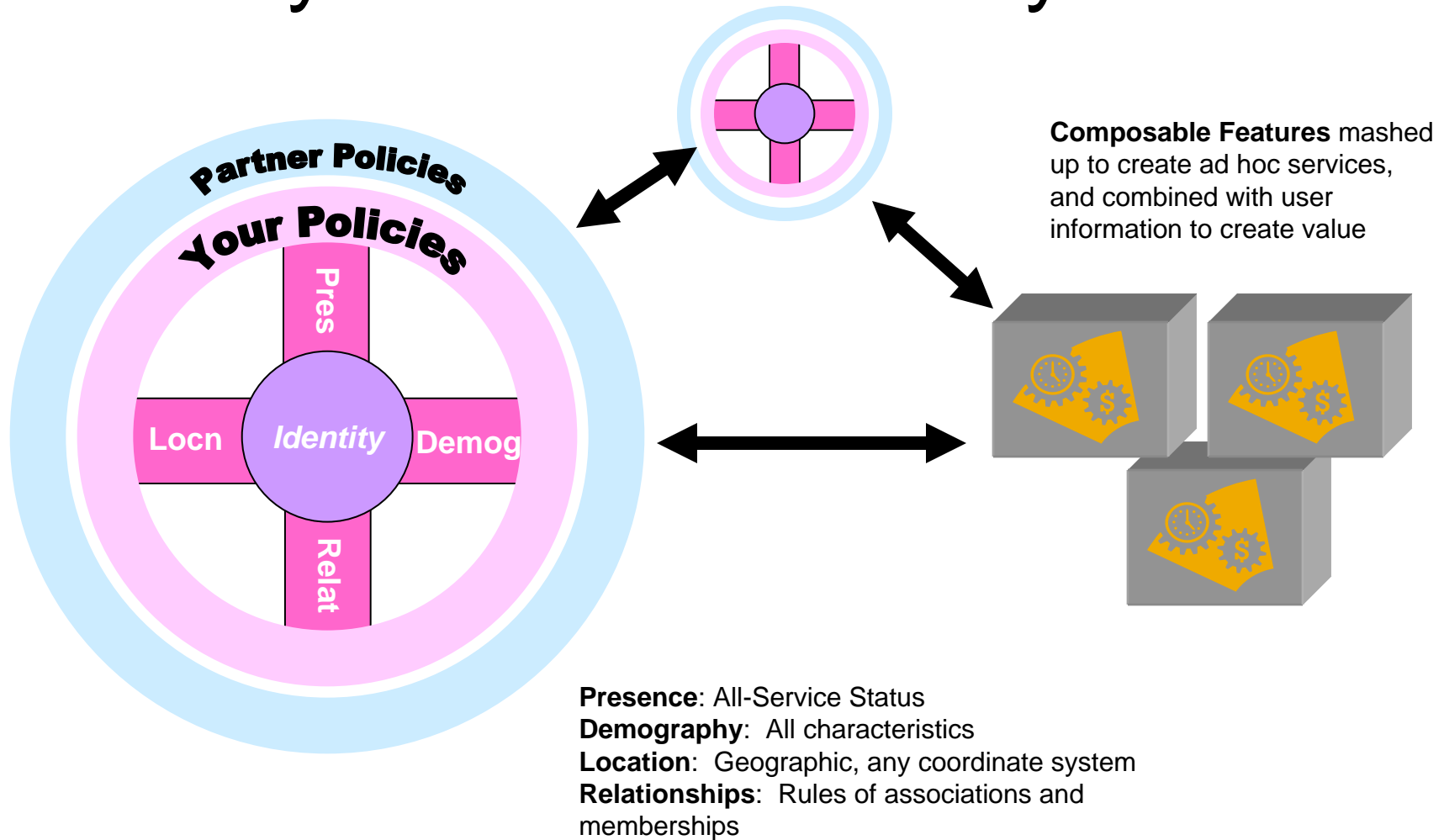
Partnerships and Syndication



"Horizontal" partnerships are extended using a "Proxy" Experiam to represent the component locally, and this links to a "Host" Experiam using any convenient message interface (Messenger)

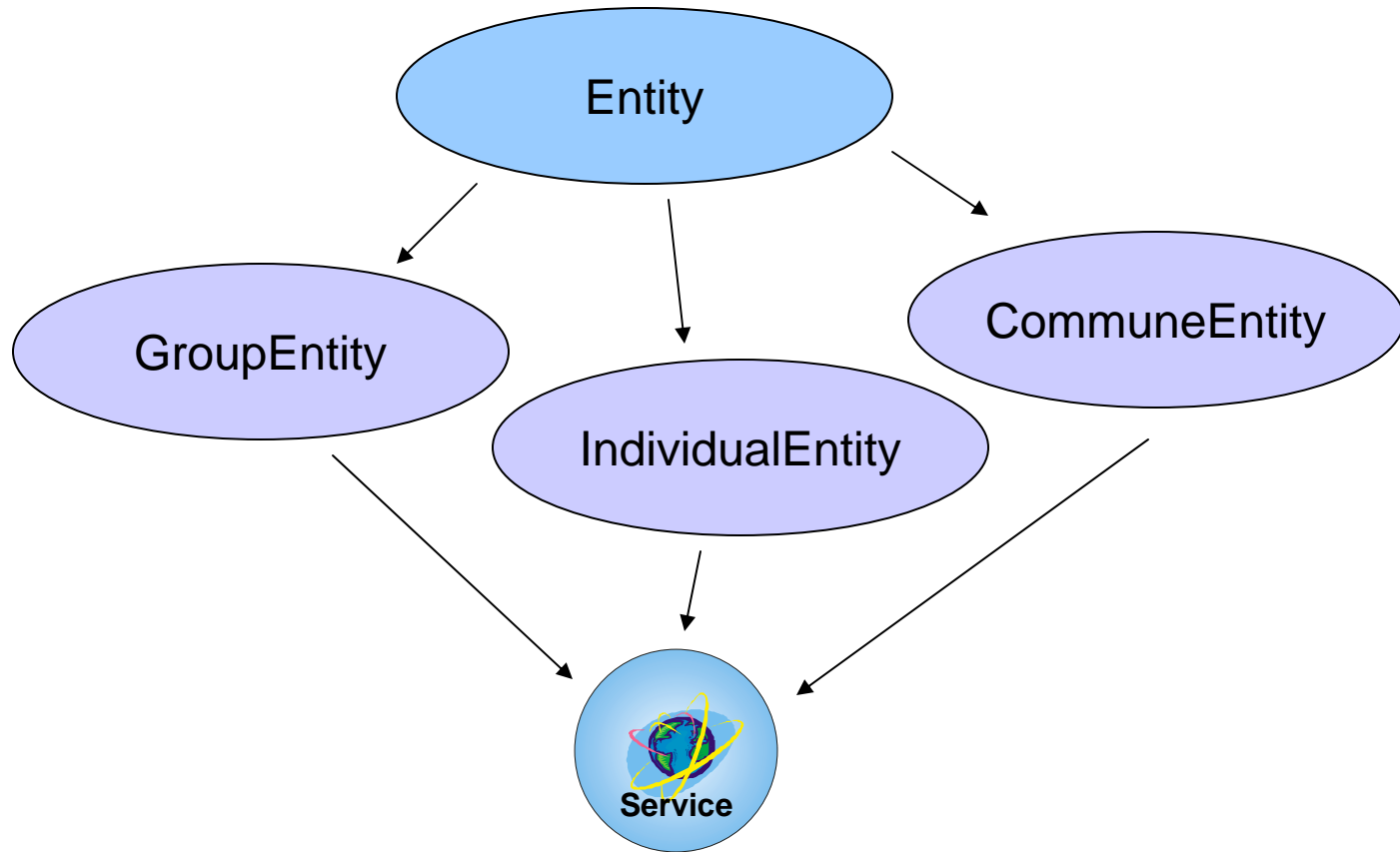


Entity: A New Centricity for NGN





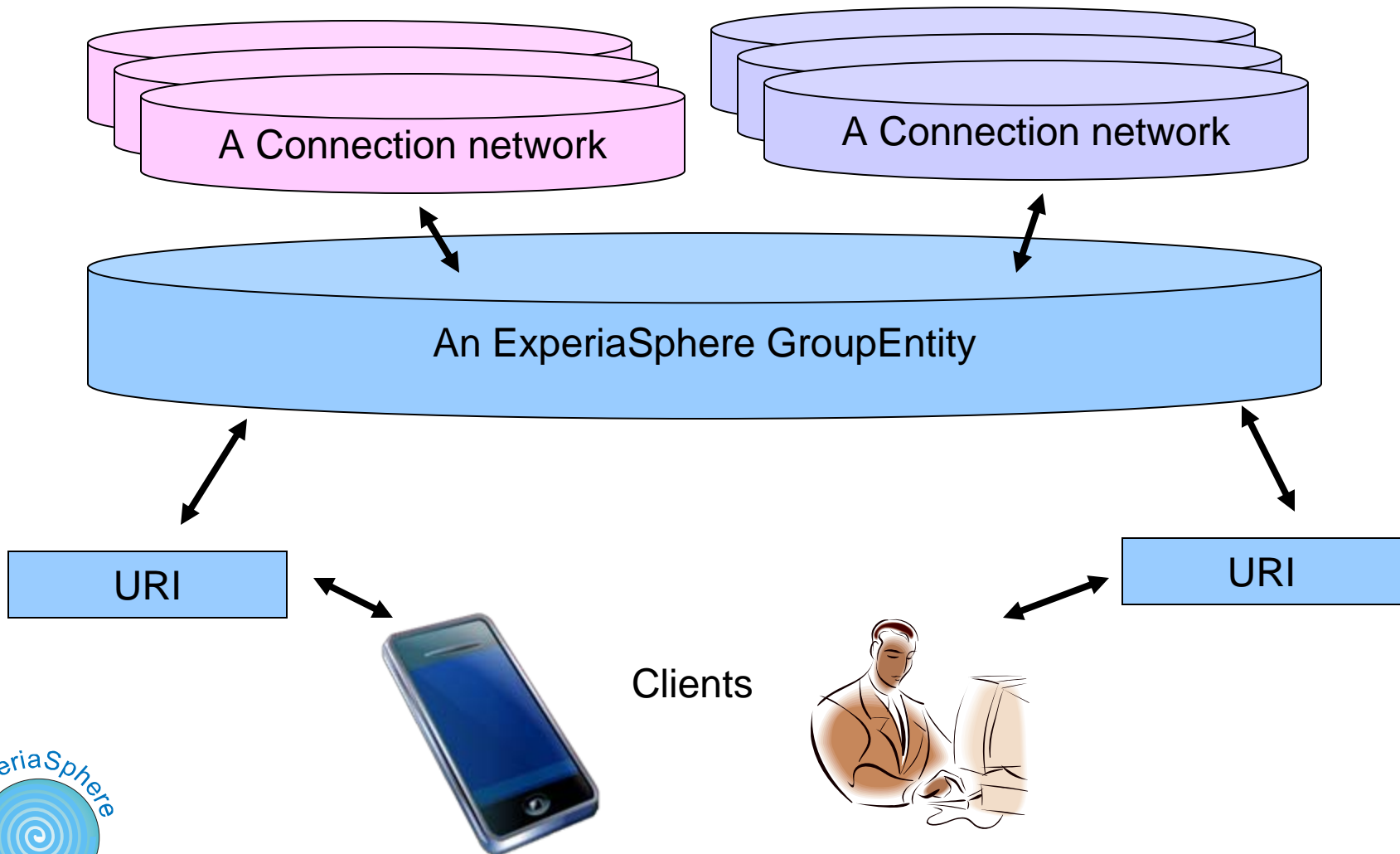
SocioPATH and Entity Taxonomy





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GroupEntities as Connection Communities



So What's This Mean?

- ExperiaSphere is an architecture that answers the two most critical questions of the industry; how do you create and manage componentized, syndicatatable services and what is the new service model for personal communications?
- ExperiaSphere is a simple Java tool set, easily run on anything that has JVM V6 support
- ExperiaSphere is open source, but the CDDL license lets people develop commercial Experiams and bind them with the general tools
- ExperiaSphere is the first open model for NGNSA



How We'll Proceed Technically

- We are now developing Java classes for the primary tools described here; our Alpha-One contains everything but SocioPATH, which will be Alpha-Two
- We will release the source code when we have the Beta version available (likely late spring 2009 subject to resources)
- We'll be a repository for other Java tools and code (A SourceForge project is established already)
- We'll work, subject to obvious resource limits (and financial ones!) with partners to develop open-source Experiams
- We'll work as a paid consultant on development of commercial Experiams linked to ExperiaSphere through its CDDL doorway



Thank you!

