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Version 1: March 2009

ExperiaSphere and the GSMA OneAPI

Our support architecture for this emerging service API standard

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A Little Overview Music, Please!

- The GSM Association (GSMA) represents mobile operators worldwide, and it has sponsored work to create an API set to provide uniform developer access to mobile features, called OneAPI
- OneAPI defines an API for each service feature, and generally appears to be working toward two versions of each, one for REST and the other for Web Services
- As of March 2009 there are three APIs defined:
  - SMS
  - Location
  - Data connection profile (type of access available)

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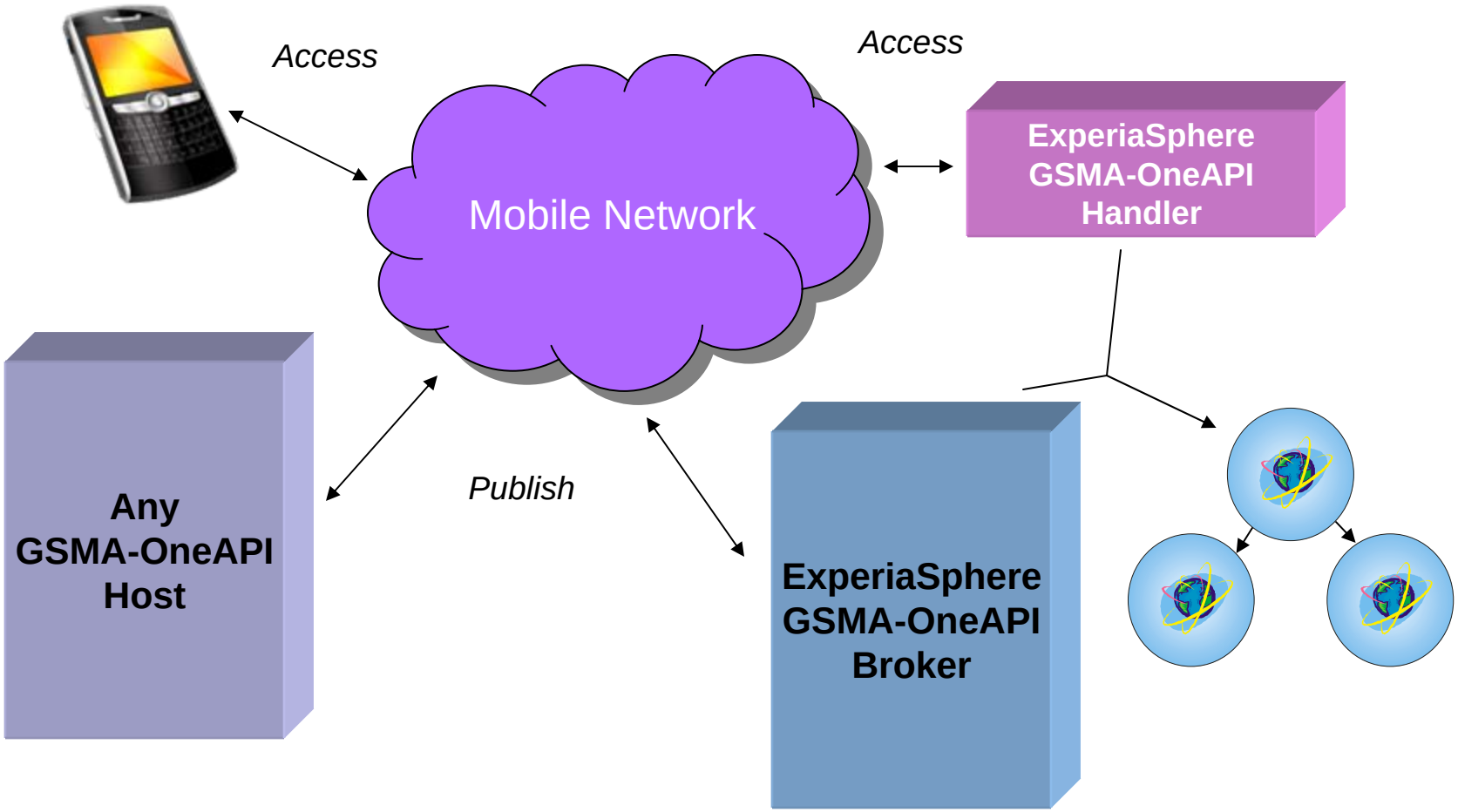
The General Architecture



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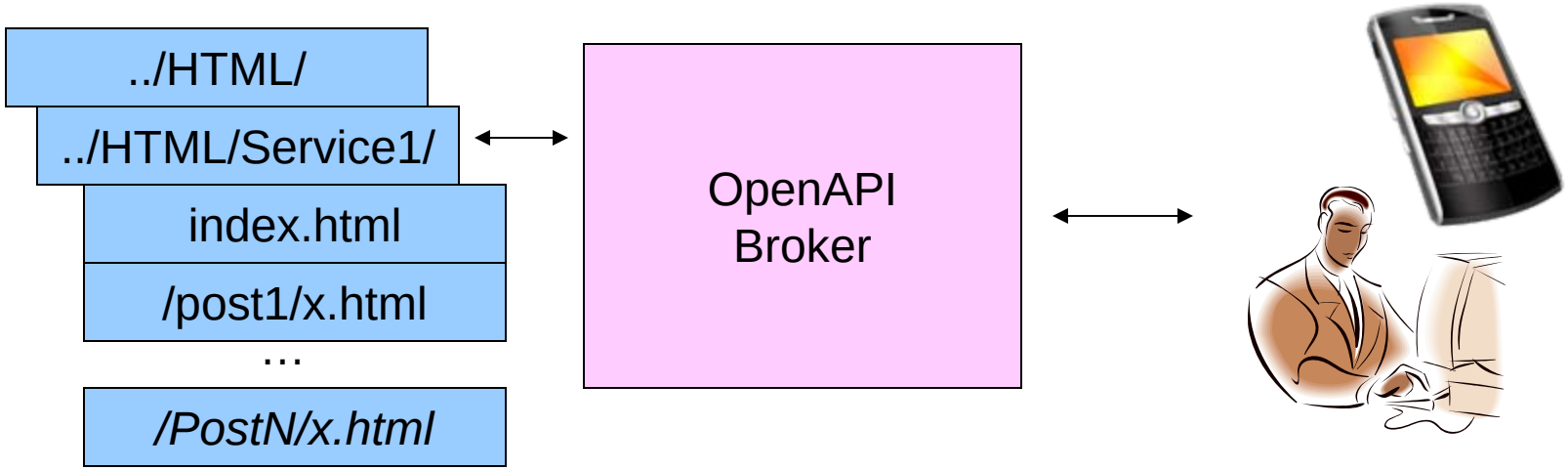
The OpenAPI Broker



The Broker maps requests to a set of service directories under the HTML subdirectory of the ExperiaSphere tree. The request name from the HTML, and whether the transaction is a GET or POST, determines the broker's handling of the process. The Broker can return something to the user, activate an ExperiaSphere Factory process, or both. The logic is very similar to that of an OrderBroker

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Sources of OneAPI Broker Services

- ExperiaSphere can deliver service-order and setup data from the Service Contract using its standard XML translation capabilities
- ExperiaSphere can activate a Messenger to talk to an API to obtain the data
- ExperiaSphere can obtain data from a currently active management interface (used for provisioning or monitoring)

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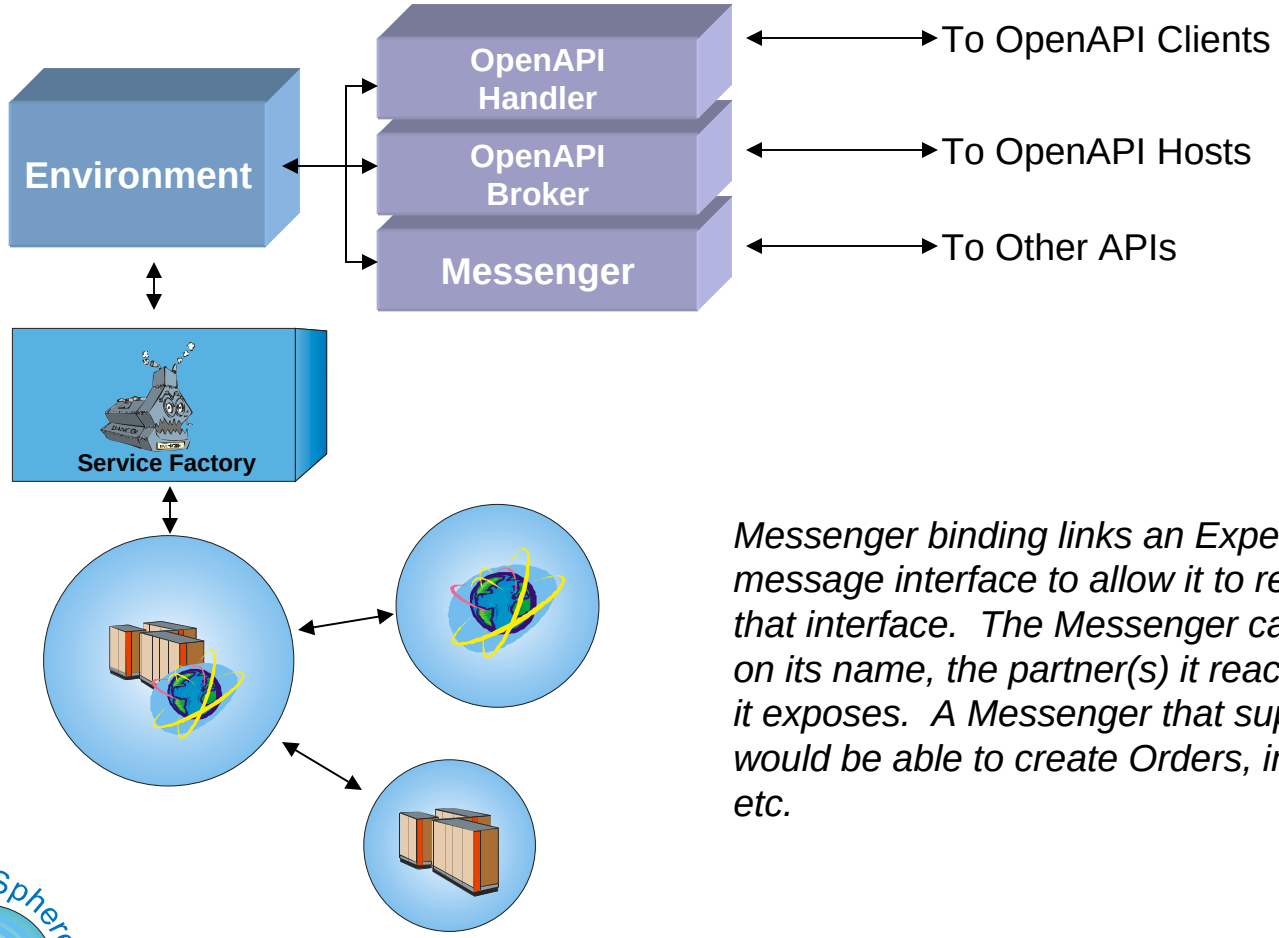
OpenAPI Broker Delivery of Service Information



Messenger binding links an Experiam to an external message interface to allow it to receive events from that interface. The Messenger can be selected based on its name, the partner(s) it reaches, or the behaviors it exposes. A Messenger that supported OneAPI would be able to create Orders, inquire about status, etc.

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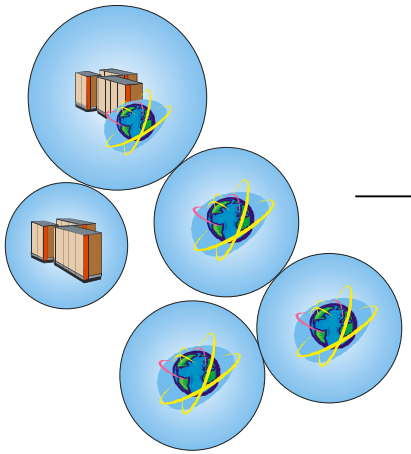
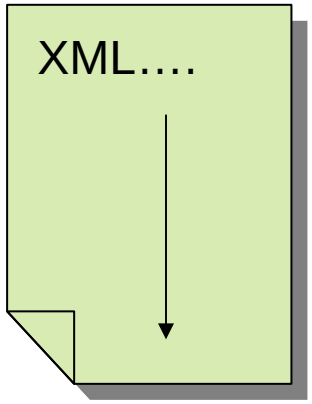
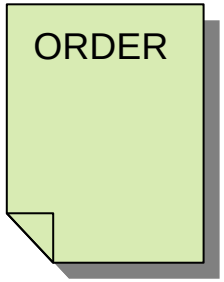
ExperiaSphere Information Flow

In the order process, the contract generates an instance and an XML order file, where parameters from all the Experiams and the order are collected







An Experiam Hierarchy, when instantiated, creates a specimen contract

Ultimately the order parameters flow through the XML structure into the forms that feed the resource control APIs

Resource Control and other APIs

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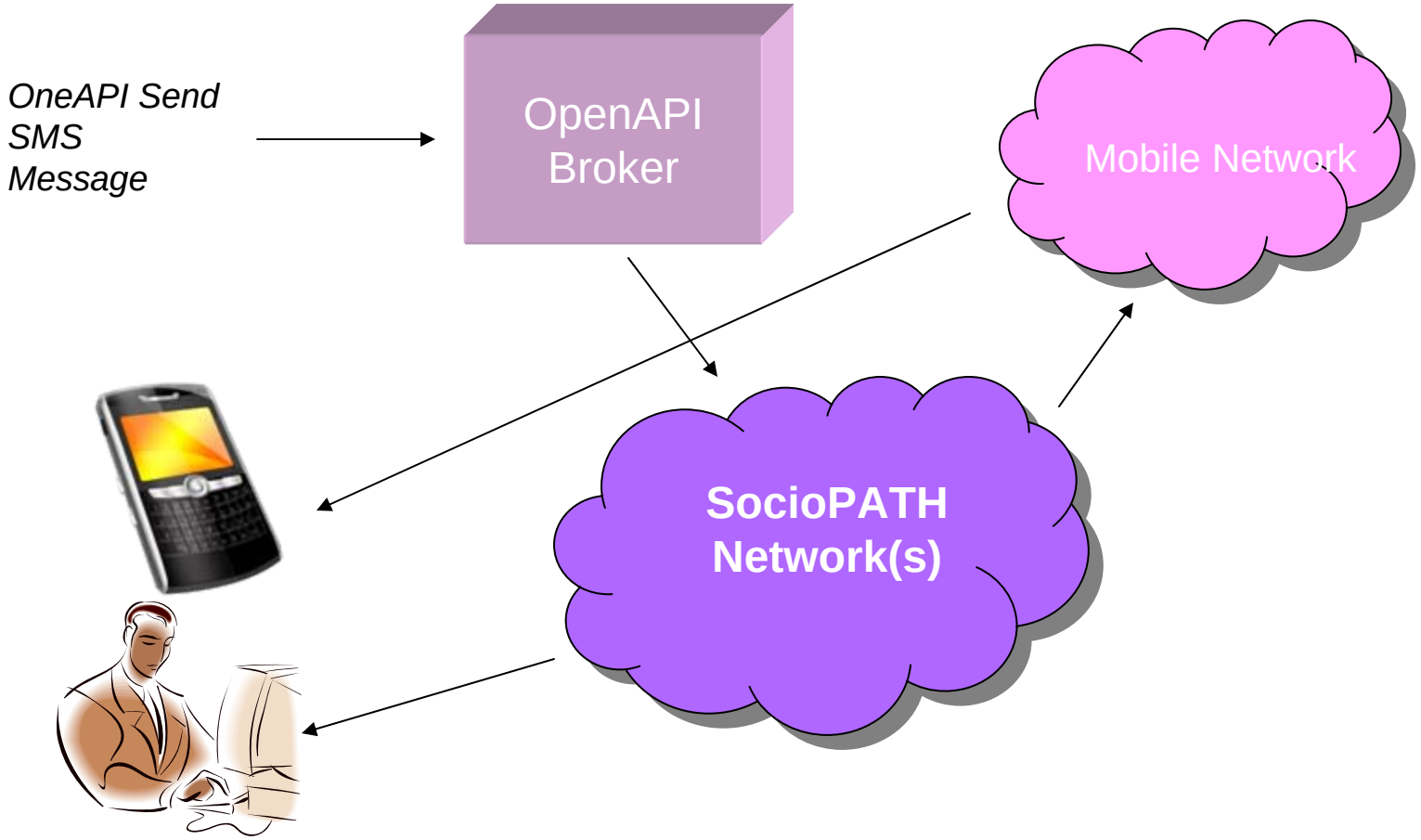
The OpenAPI Broker as a SocioPATH SMS Source



ExperiaSphere Think Outside the Bit

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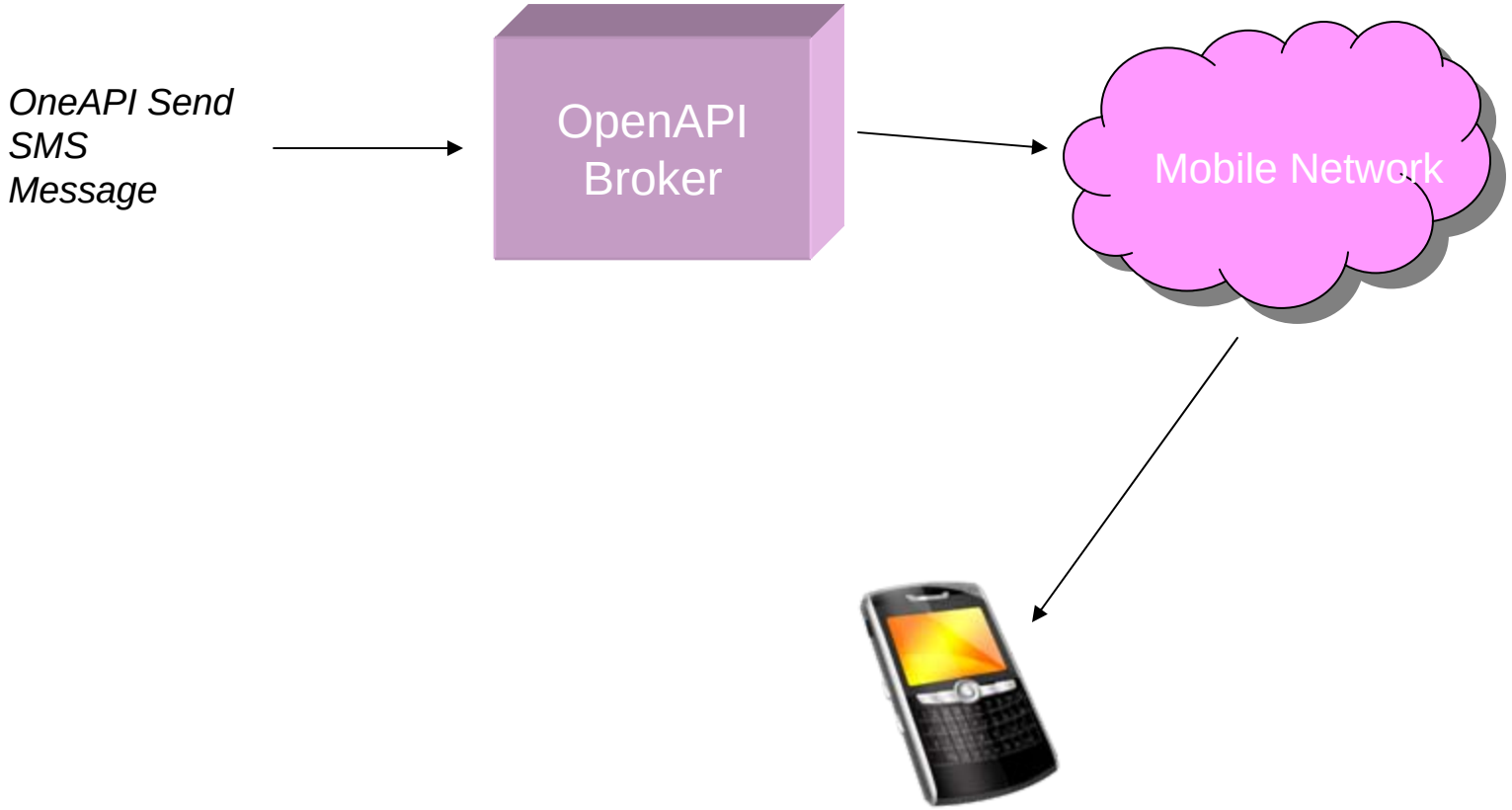
The OpenAPI Broker as an OpenAPI Front-End



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The OneAPI Handler

- The Handler is designed to provide access to a OneAPI interface asserted by someone else
- This could be used to incorporate OneAPI data into ExperiaSphere service setup; location, etc.
- The capability might also be used to allow ExperiaSphere to use OneAPI delivery facilities for ExperiaSphere-based messages, etc.

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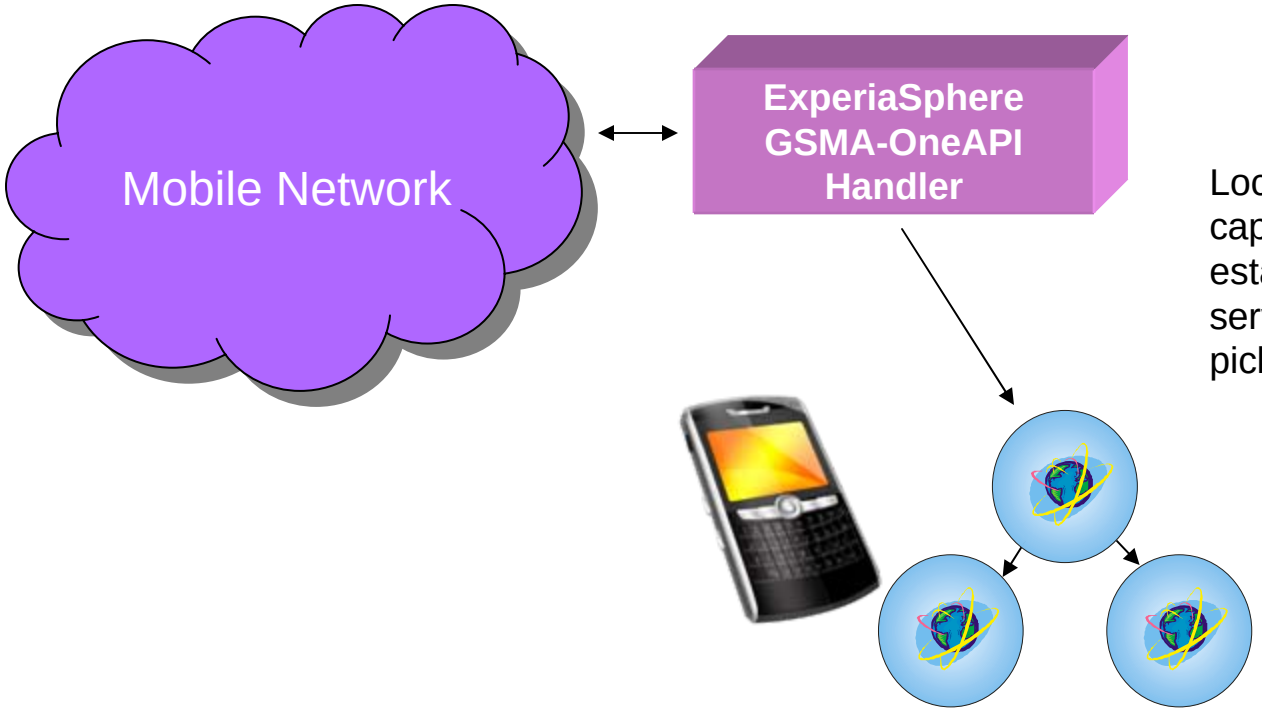
Using an ExperiaSphere OneAPI Client/Handler



Location or connection capabilities can be used to establish a premium service connection or even pick content type

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A OneAPI Wrap-Up

- ExperiaSphere can support both Broker and Handler (source API and use API)
- We believe the REST version is the most logical one, but the web service version would simply be a different handler
- We are committed to making this work but it’s not part of the Alpha-Two release at this point and may not be in the Beta source code

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