



Aperture Open System APIs



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Aperture Product Overview

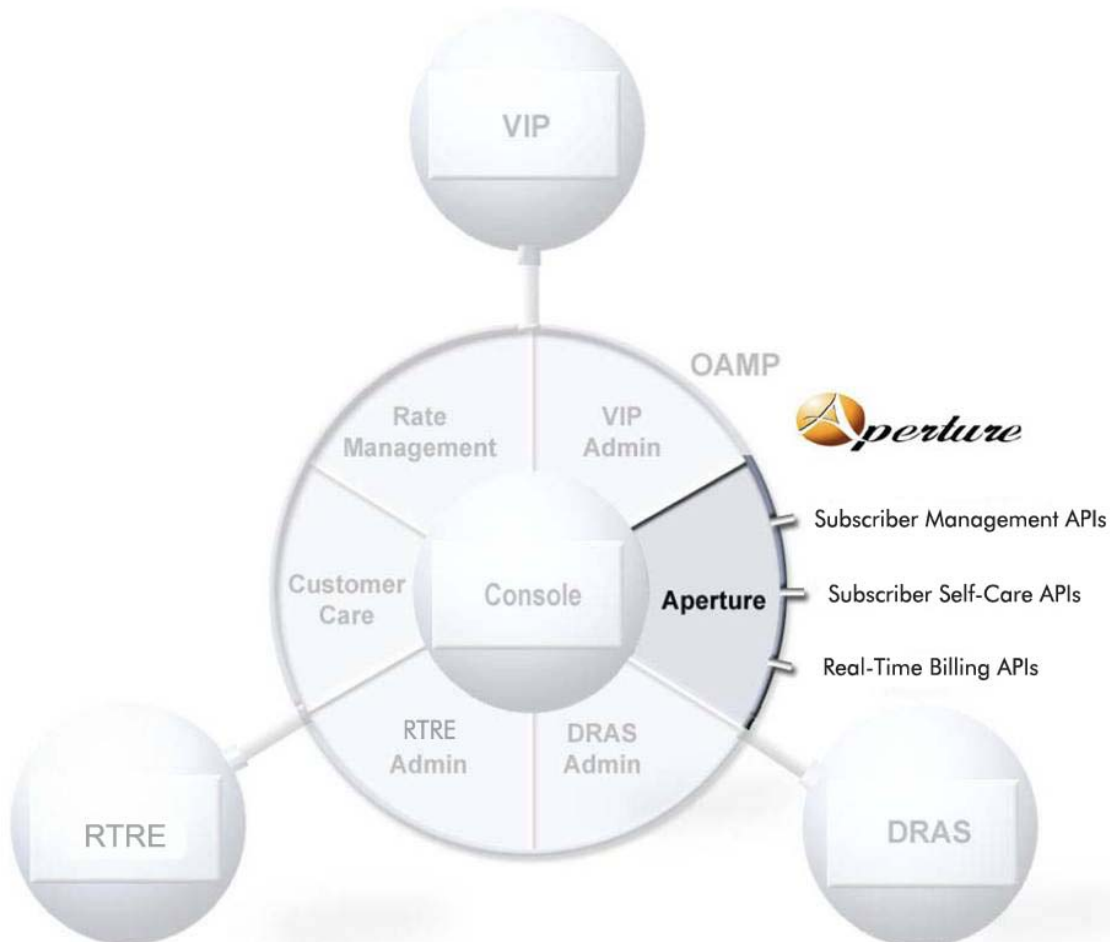
What is Aperture?

Since inception in 1981, Interact has been devoted to providing clients with an open environment in which to operate everyday functionalities and capitalize on emerging technologies. While published API's have always been a part of this philosophy, we wanted to further define the categories into which the API's fall in order to simplify the evaluation and acquisition process for our busy customers; hence Aperture. By definition Aperture is an opening or an unobstructed view. Because the nature of our API's reflects this definition, Aperture has become the moniker for the entire open API solution set.

Aperture APIs come in two forms, one of these forms includes open APIs which are platform and language independent, utilize the HTTP or TCP transports, and support SOAP or RESTful service invocation. These APIs can be utilized for subscriber management and subscriber self care, encouraging subscribers to use multiple channels for customer care, in turn enhancing the customer experience. The second form of APIs, in relation to real-time billing, are a select grouping of published API's that external systems can use to ease communication with Invigorate for charging events that cannot be processed through typical SS7 channels. Each time an advanced service is demanded by the competitive marketplace, these open interfaces may be utilized to rapidly integrate with Invigorate's components in order to deploy introductory solutions into an end user's environment.

Following are just a few of the functionalities enabled by Aperture's Subscriber Management, Subscriber Self-Care, and Real-Time Billing APIs:

Invigorate Framework



Subscriber Management APIs

A key success factor for today's service provider is to effectively manage the massive amounts of data from many sources to create a comprehensive, unified user profile for each subscriber in order to enhance the subscriber experience. Interact's Subscriber Management APIs include the basic functions necessary for subscriber profile management. They allow for read-only access to subscriber data, including friends lists, and subscriber history. Also allows modifications to a limited set of subscriber details.

Descriptions

Get Subscriber Detail - Allows you to retrieve subscriber detail information.

Get Payment History - Allows you to retrieve the payment history records for a subscriber for a specific time period.

Get Call History - Allows you to retrieve the Call Detail Records (CDR) for a subscriber for a specific time period.

Get User History - Allows you to retrieve the subscriber history records for a subscriber for a specified time period.

Set Subscriber Address - Allows you to add or modify an address on a subscriber's account.

Set Subscriber Name - Allows you to set or update the name on the subscriber's account.

Get Best Friend Detail - Allows you to retrieve the current Best Friends and/or Friends and Family numbers currently assigned to a subscriber.

Get Extended Friend Detail - Allows you to retrieve the Extended Friends numbers and their associated balance assigned to a subscriber for a specific offer ID.

Get Reference - Allows you to retrieve all data from a specified SMP database table in XML format.

Migrate Out - Allows you to migrate a subscriber out of the system.

Migrate In - Allows you to migrate a subscriber into the system.

Migrate Back - Allows you to migrate a subscriber back into the system.

Port Out - Allows you to port a subscriber out to another network.

Port In - Allows you to port a subscriber in from another network.

Subscriber Self-Care APIs

Subscriber Self-Care is an easy way for Subscribers to access their account information 24 hours a day, 7 days a week. Subscriber Self-Care APIs are most useful for web or SMS access to data and features. This group of APIs encourages subscribers to use channels other than the IVR or customer care for balance enquiry, voucher recharge, notification changes, friends list management, offer purchases and tariff transfers. They can also allow 3rd party systems to develop entirely new features.

Descriptions

Get Balance

Allows you to retrieve the subscriber's account information from the SCP, balance information, offer information and partition balance information.

Recharge

Allows you to perform a voucher recharge on a subscriber's account.

Subscriber Request

Allows you to perform a Real Time Bundle request on a subscriber's account.

Add Subscription

Allows you to add a subscription to a subscriber's account.

Delete Subscription

Allows you to schedule a subscription for deletion from a subscriber's account.

Set Best Friend Detail

Allows you to add or delete the Best Friends and Friends and Family numbers assigned to a subscriber's account.

Set Extended Friend Detail

Allows you to add or delete the Extended Friends numbers assigned to a subscriber's account.

Set Subscriber Notifications

Allows you to modify (turn on or off) the Notification flags on a subscriber's account.

Get Reference

Allows you to retrieve all data from a specified SMP database table in XML format.

Get Best Friend Validation

Allows you to verify that a subscriber has made a valid recharge that meets the minimum recharge amount, or has exceeded the period of time defined as the Barring Period, to allow the subscriber to modify either the Friends and Family or the Best Friends numbers on the subscriber's account.

Real-Time Billing APIs

The Real Time Billing APIs include Voice, SMS and Data APIs that ease communication with the Invigorate rating engine for charging events that cannot be processed through typical SS7 channels. The APIs can also be integrated with the developer's existing socket management software, allowing the developer to maintain control of connection pools and provide support for asynchronous applications. For more complex applications that don't fit into the standard service charging models, the TCP/IP layer can be exposed to provide the client full control of the rating and billing capabilities.

Descriptions

Voice, SMS, Data

Allows you to easily retrieve and manipulate data within the system over common and familiar protocols.

Direct Credit

Allows you to add funds to a subscriber's account.

Direct Debit

Allows you to debit funds from a subscriber's account.