

Data Experience Solution

Market Offer Datasheet
Opening the **Shared wallet**



Flexibility and convenience

Mobile data subscribers are beginning to move away from the one-device, one-plan model as tablets and other connected devices become readily available. Increasingly, they want the flexibility to share data across multiple devices and among multiple users, as in the case of shared family data plans. For mobile operators, these “shared wallet” plans present significant challenges, such as: how to assign a portion of the overall quota to individual devices or subscribers; how to meter a common pool of data that is being shared by multiple devices or users; and how to enable subscribers to self-manage plan members and their usage.

Shared wallet market offer

The Amdocs Data Experience Solution, which features real-time policy control tightly integrated with online charging, includes a pre-integrated Shared Wallet market offer that helps operators get new shared data plans to market quickly. Shared Wallet provides out-of-the-box support for a variety of shared plans, including: family plans, where each family member shares a portion of a common pool of data; single-user plans, where data is shared across multiple access networks; and multi-device plans where a user shares data across two or more connected devices. This market offer provides all the required tools to define, provision, rate, meter and charge for these shared wallet data plans.

Key features

- Flexible support for different types of shared wallet plans for single users with multiple connected devices, and for groups of users, such as families and businesses

Key benefits

- Improve the data experience by giving subscribers the ability to control and manage data usage within a subscriber group
- Attract new subscribers who want connectivity for multiple devices
- Drive incremental revenues as subscribers add new devices to their existing plans
- Improve uptake of new devices and services associated with new devices

- Centralized definition of shared wallet plans using product catalog
- Sophisticated usage metering for managing the multiple quotas required for group plans and for plans with multiple connected devices
- Real-time notifications to alert shared plan members when they have reached an individual or group-level data limit
- Ability for shared plan account owners to re-assign unused quota from one plan member to another in real time
- Ability to meter data usage in real-time for multiple mobile devices on one data plan
- Support for simultaneous attachment of multiple devices and users on the same shared wallet plan



Functional components

The Shared Wallet market offer leverages the following functional components of the Data Experience Solution as show in Figure 1.

Product Catalog

The Product Catalog defines new shared wallet plans rapidly using pre-defined service offer templates that allow service providers to specify different configuration options. Using the Product Catalog's graphical user interface, product managers can create new shared wallet offers by defining the relevant parameters in the market offer template.

Policy and charging engine

The integrated policy and charging engine meters and manages usage for shared wallet plans. This component meters usage for all members of a shared wallet group plan, including quotas for individual users and the overall data quota for the plan. It also meters usage for single subscribers who share their quota across multiple devices. Usage can be metered based on time, volume or monetary value. The integrated policy and charging engine communicates with the policy and charging enforcement point in the mobile packet core over standard 3GPP interfaces. It applies relevant policy rules when a subscriber or group of subscribers reaches a usage limit associated with a shared wallet plan.

When a subscriber or device reaches an individual usage limit, or when a usage limit for an overall plan is reached, the integrated policy and charging engine triggers the appropriate notification to be sent to the subscriber by SMS, email or portal redirect.

For shared family plans, the integrated policy and charging engine applies a policy rule when a plan member reaches an individual data threshold, and when the combined usage of all plan members exceeds the monthly limit. For shared device plans, the component applies a policy rule when the usage limit assigned to a specific device, such as a tablet, is exceeded, and also when the total quota for all devices is exceeded. When a subscriber reaches a predefined usage limit, this component can apply different controls, depending on the characteristics defined for the plan.

Intelligent routing function

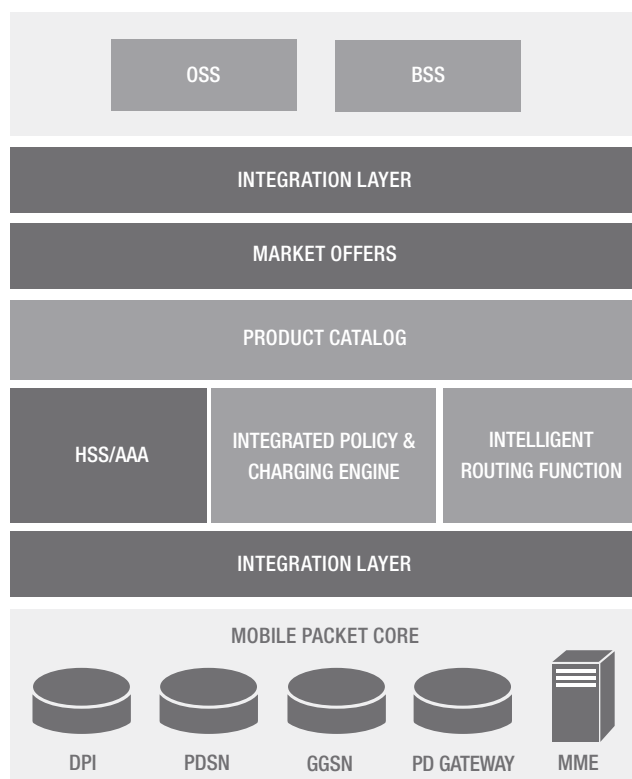
The intelligent routing function provides a single Diameter interface to the 3G and 4G packet core network. When the Data Experience Solution sends a real-time policy or charging control to the network, this component acts as the common Diameter interface to all devices in the network and provides routing and load balancing capabilities.

Configuration options

The Shared Wallet market offer allows you to configure different data plan options to differentiate your shared plans. These parameters include:

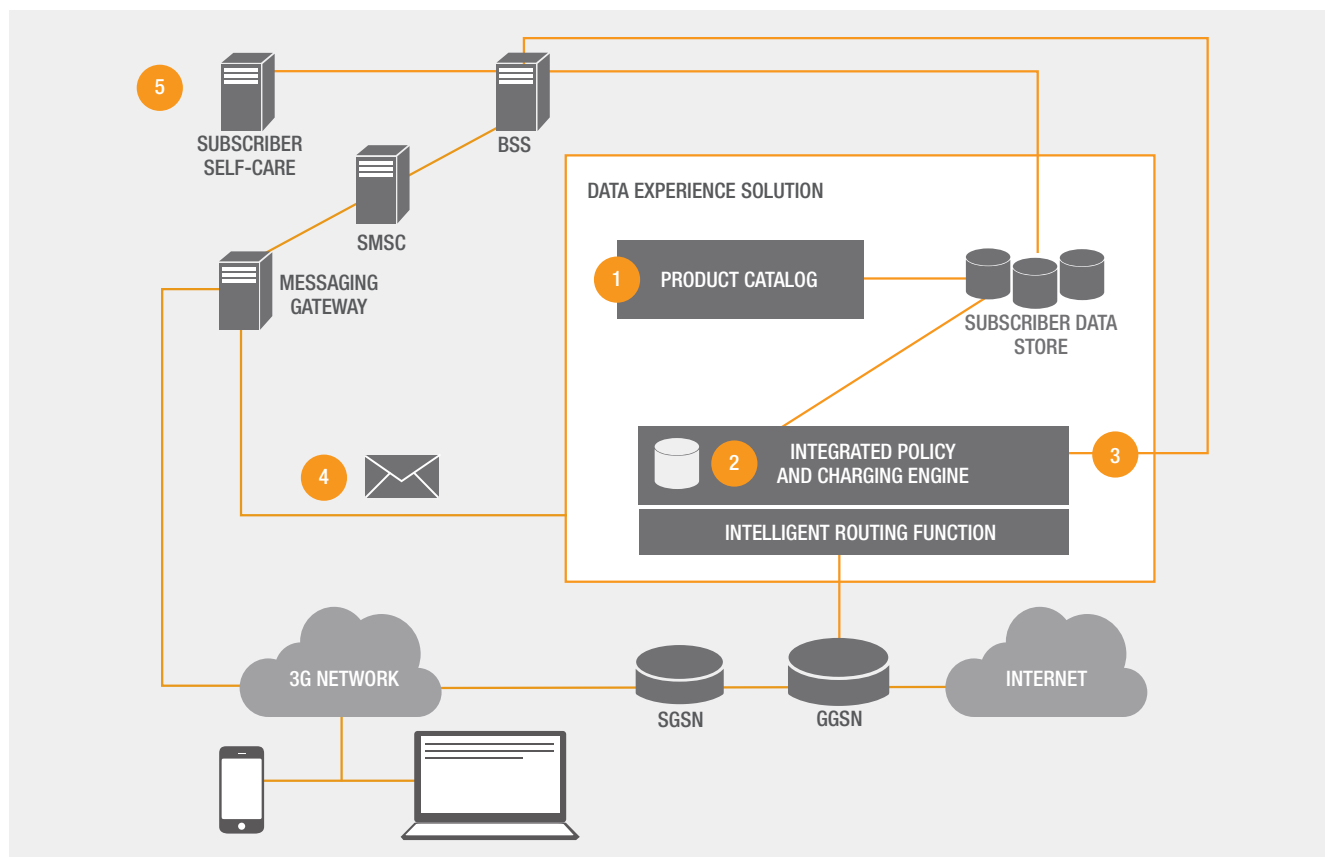
- Metering usage by time, volume, or monetary value
- Subscriber notifications when specific balances are reached
- Ability to assign overall account-level usage quota as well as individual quotas for plan members
- Multiple options when quota exceeded: portal redirect, QoS change and notification
- Flexible plans that can share data between users, devices or a combination of both

FIGURE 1: THE AMDOCS DATA EXPERIENCE SOLUTION



How it works

1. The Shared Wallet Plan is defined in the product catalog, including:
 - Account level quota – volume and monetary
 - Devices and users associated with account level quota
 - Individual quota for plan members
2. When the user begins a data session on the network, the integrated policy and charging engine checks for available quota.
3. The integrated policy and charging engine provides access up to the available quota or individual monetary limits, and meters ongoing usage.
4. When the user reaches 100%, they receive a notification.
5. The user now has the option of re-assigning additional quota from other plan members.



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