

Charge@once mediate

Carrier-grade mediation for convergent networks



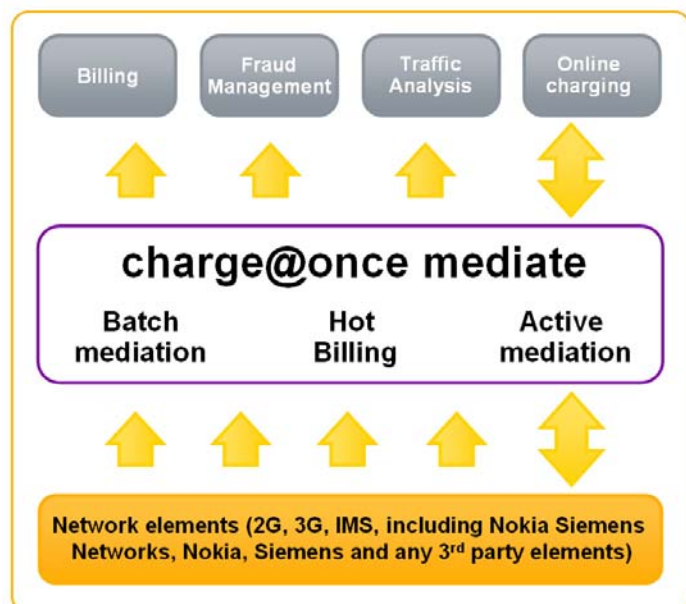
Charge@once mediate is a next-generation mediation solution from Nokia Siemens Networks that allows operators to focus on their business and move towards convergent services.

With charge@once mediate, operators can leverage the full potential of their systems and launch leading-edge services rapidly for their customers with maximum flexibility in charging.

The highly flexible, carrier-grade mediation solution gives operators the flexibility to integrate any network service platforms with their charging infrastructure. New services and technologies can be introduced without the need of long, costly implementation projects.

Benefits of charge@once mediate

1. A carrier-grade mediation solution for all operator needs
2. Simplified systems architecture: a single platform for offline and online processing
3. New services can be launched quickly with maximum flexibility in charging
4. Low cost of ownership: easy integration with any systems and easy-to-use tools for configuring processing logic



Charge@once mediate offers a full set of mediation capabilities enabling both online and offline mediation with one solution. Same tools and graphical user interface can be used to implement the processing rules for online and/or offline charging logic.

As a true convergent mediation solution, charge@once mediate acts as a mediator component that provides the necessary data conversions and protocol-level integration between network elements or other systems.

It allows the convergence of voice and data services, supporting a wide range of network elements and communication protocols for different types of networks, for voice and data communications, as well as for both prepaid and postpaid customer types.

Besides billing, collected information can be used for any purpose including statistics, fraud detection and data analysis or to mediate, for example, subscriber profile data between the network and service delivery platforms.

The major mediation functions protocol conversion and data handling, various types of enhancement of the processed information, communication of primitive functions and data storage.

Mediation uses standard interfaces and can be shared among several network elements, or several operating systems, or between network elements and operating systems.

Active mediation

Traditionally, mediation systems are used to provide offline charging for post-paid subscribers including data collection, aggregation and distribution to downstream systems.

To enable full mediation, including online interfaces, active mediation is needed to provide real-time interaction between the service platforms and online charging systems.

Charge@once mediate enables the creation of an adaptation layer between the network element and an Online Charging System (OCS). The solution enables rapid development of business logic according to customer requirements and integration to 3rd party systems such as Rating Engine (RE) and External Balance Holder (EBH) for maintaining pre-paid user's balance. Alternatively, the rating and balance management functionality can be provided by a single solution like Nokia Siemens Networks charge@once select for convergent charging.

Charge@once mediate supports all commonly used interfaces for online credit control such as the 3GPP compliant Diameter Credit Control Application (DCCA) interface, Radius, HTTP, TCP/IP and In-Advance Credit Check (IACC) interface.

Different active mediation use cases can be implemented that meet customer needs as the system supports a wide range of usage scenarios and it is easy to integrate with third party systems.

Abbreviations

DCCA	Diameter Credit Control Application
EBH	External Balance Holder
FM	Fault Management
HTTP	Hypertext Transfer Protocol
IACC	In-Advance Credit Check
NE3S	Nokia Enhanced SNMP Solution suite
NSN	Nokia Siemens Networks
OCS	Online Charging System
PM	Performance management
RE	Rating Engine
SNMP	Simple Network Management Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol
UDR	Usage Data Record

Active Mediation example provided by charge@once mediate:

