Comarch Active Mediation is a solution for connecting a network to the billing system. It enables controlling, charging and billing of voice, data and content services in any billing system with a real-time charging interface. Connectivity is possible in any network type from PSTN to IMS.

The solution is 3GPP Standard based and also supports many additional industry standard interfaces. This flexibility allows for the use of appropriate components in the configuration required by the customer. Not all components are always required.
SCP / CONNECTIVITY

An SCP provides connectivity to the SS7 based network. It may work as a real Service Control Point element or only provide simple SS7 network connectivity. The following protocols are supported:

- CAMEL, WIN
- MAP, ANSI-41
- INAP, AIN, ISUP
- SIGTRAN

- SMS and DATA services may be controlled using proxy, gateway or signaling protocol.

**IMS-GWF**

IMS-GWF is an IMS standard element that works as a special type of application server and controls the services over SIP. It also controls SIP service sessions and charging over the Diameter Ro interface.

This component controls user pre-paid balances, performs balance reservations in the billing system and disconnects a call when the balance is zero.
**OCF – ONLINE CHARGING FUNCTION**

The Online Charging Function component integrates a few charging interfaces with the billing system interface. If the billing system supports Diameter Ro, this component only works as a proxy and is transparent. For a proprietary charging interface it contains the logic for translating different real-time charging interfaces.

**SUPPORTED INTERFACES:**

- Diameter Ro (client and server)
- Parlay/OSA Charging & Account Management over CORBA (client and server)
- Parlay/OSA Charging & Account Management over WebServices (client and server)
- Various IN proprietary charging interfaces

**CDF – CHARGING DATA FUNCTION**

The Charging Data Function components receive information about service sessions over the Diameter Rf interface and spool events to specified files. These files are then processed by the Charging Gateway Function.

**CHARGING GATEWAY FUNCTION**

All xDR files received from CDF and different network elements are analyzed, unduplicated, correlated and converted to a single unified data format.

Such service usage data is then uploaded to the retail or wholesale billing system.

There are many industry formats supported by offline mediation. For new formats, it is possible to configure a new text or binary format and map data fields or even build custom mediation rules.

**OTHER INTERFACES SUPPORTED**

These additional protocols are supported by the solution:

- RADIUS
- Parlay/OSA Multi-Party Call Control

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**ABOUT COMARCH**

Comarch is a provider of complete IT solutions for telecoms. Since 1993 the company has helped CSPs on 4 continents optimize costs, increase business efficiency and transform BSS/OSS operations. Comarch solutions combine rich out-of-thebox functionalities with high configurability and are complemented with a wide range of services. The company’s flexible approach to projects and a variety of deployment models help telecoms make networks smarter, improve customer experience and quickly launch digital services, such as cloud and M2M. This strategy has earned Comarch the trust and loyalty of its clients, including the world’s leading CSPs: Vodafone, T-Mobile, Telefónica, E-Plus, KPN and MTS.

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