

Solutions for Fixed & Broadband Operators

Introduction

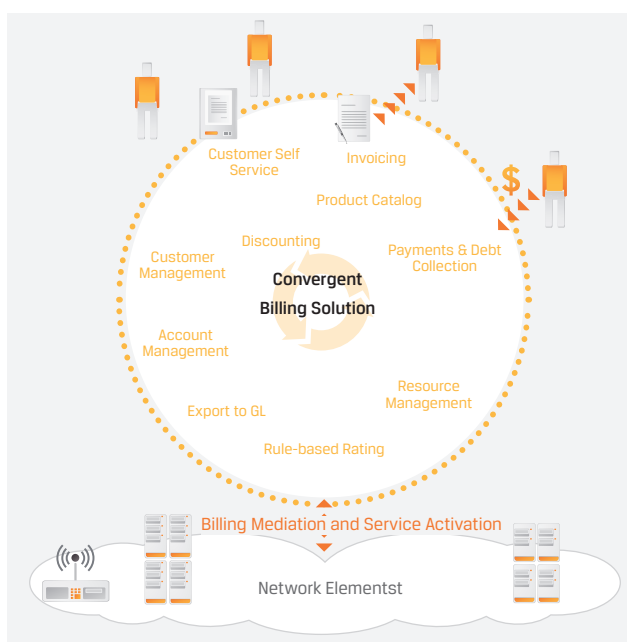
As a fixed and broadband operator you are continuously faced with increasing competition from mobile operators in the broadband Internet access market. Innovative product offerings and enhanced service levels are indispensable for you to gain new customers. In international groups, unification and cooperation issues remain key in order to gain competitive advantage on the global market. All these challenges are reflected in further complications of your business model, including outsourcing and "insourcing" scenarios.

Comarch helps you face these challenges with a unique set of the pre-configured solutions described below.

Convergent Billing

Comarch Convergent Billing provides you with all business processes crucial for everyday operations, including rating, discounting and invoicing processes, as well as integration with the network.

Join operators like Bite in Lithuania and Latvia, DTMS in Germany, Dialog Telecom in Poland, TCG in Montenegro and many more, who are already using this solution to successfully run and further develop their businesses.



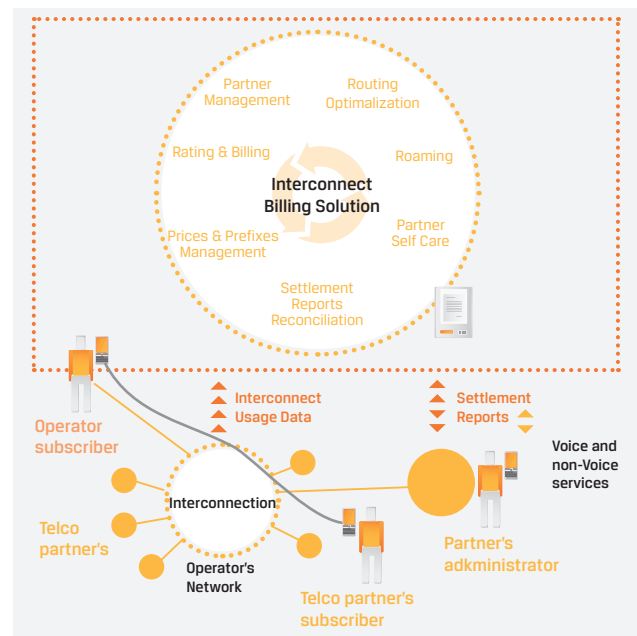
Comarch Convergent Billing is a fully convergent solution rich in modern functionalities and features such as:

- real-time, service agnostic billing
- discounting of voice and non-voice services
- integrated subledger
- carrier grade scalability and performance.

Interconnect Billing

If you have interconnection points with other operators for any telecommunication service requiring inter-operator settlements, you can be sure this solution will streamline your business in this area.

Comarch Interconnect Billing, based on Comarch InterPartner Billing, enables you to achieve convergence on the wholesale settlement level, and supports both voice services and data or premium services. It is also possible to utilize it for revenue sharing or commission management.



Using this solution you will be able to manage various types of interconnect agreements, such as cascade or direct agreements. The billing generated by the system can apply to one-time fees (e.g. signing of an agreement for a particular service), periodic fees (e.g. monthly/annually for maintenance), service usage dependant (e.g. traffic

volume), and invoice-based fees (e.g. additional discounts or payments in the stage of creating a financial document).

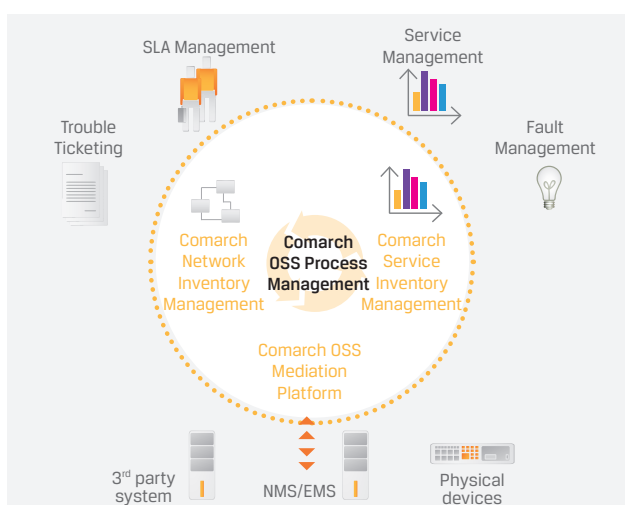
Comarch Interconnect Billing enables you to create financial documents, manage the sub-ledger and integrate with the general ledger, conduct invoicing, tax calculation, and payment collection processes. You will be surprised, how a single tool can manage many types of agreements and events, enabling you to get rid of numerous tools you have used so far and thus optimizing resource allocation.

The solution includes the following key functionalities:

- Support for voice and non-voice services
- Easy management of multiple agreement types
- Carrier grade scalability and performance – processing hundreds of millions of events per day, above 50 million events per hour (4CPUs) - due to new additional processing machines
- Efficient partner management
- Support for regulated services
- Strong support in business changes with flexible configuration and rule-based rating.

Process-Driven Inventory

The introduction of an accurate inventory database can prove to be a challenge due to the numerous migration, integration, and discovery tasks that you have to perform. A larger challenge still, is the maintenance of the inventory database, to ensure accuracy at all times. Inventory databases can lose their consistency and accuracy due to the lack of repeatable processes that can keep up with ongoing changes.



Through the introduction of automated processes offered by Comarch Process-Driven Inventory, the inventory ceases to be "just a database", transforming into a dynamically-adjusting system that presents the current, past, and future states of the network and the provided services. As a result, inventory becomes the focal point of an OSS solution. In the Comarch Process-Driven Inventory, all user tasks related to inventory data are carried out in the context of a process instance, in order to ensure the real-time accuracy of the inventory database.

Next Generation Service Assurance

One of the main challenges in your network is probably the fact, that services are no longer associated with a single device. Instead, each service is composed of resources provided by many devices operating within your network, or even based on many other simpler services offered by third party companies. Comarch Next Generation Service Assurance provides you with the ability to observe states even of most complex services, ensures failure root cause analysis, while proactively supporting your incident resolution process to speed up service recovery.

Comarch Fault Management, with advanced event processing and enrichment, is the main event source. Events are correlated by the Comarch Reasoning Engine and propagated up to the services layer, where they are processed by Comarch Service Level Management. All of the tasks are orchestrated by Comarch OSS Process Management.

About Comarch

Since 1993, Comarch has been specializing in designing, implementing, and integrating solutions and services for telecommunications operators. Experience gained throughout this period, in addition to the company's knowledge of the latest industry trends led to the development of a wide customer portfolio that is spread across 4 continents and includes some of the biggest market players, such as T-Mobile International, Telefónica O2 Germany, as well as MVNO operators such as Auchan Telecom, France. The satisfaction of Comarch's customers has always been the strongest confirmation of the quality of its solutions in the areas of billing and inter-partner settlements, as well as management of telecommunications networks and services. Comarch's solutions for telecom operators are intended for **Fixed, Cable and Broadband Operators, Mobile Operators, Wholesale Departments, MVNO/MVNE Operators, ISPs and VoIP Operators** and **Content Providers** and **IPTV Operators**.

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Comarch Spółka Akcyjna with its registered seat in Kraków at Aleja Jana Pawła II 39A, entered in the National Court Register kept by the District Court for Kraków-Śródmieście in Kraków, the 11th Commercial Division of the National Court Register under no. KRS 000057567. The share capital amounts to 7,960,596.00 zł. The share capital was fully paid, NIP 677-00-65-406
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