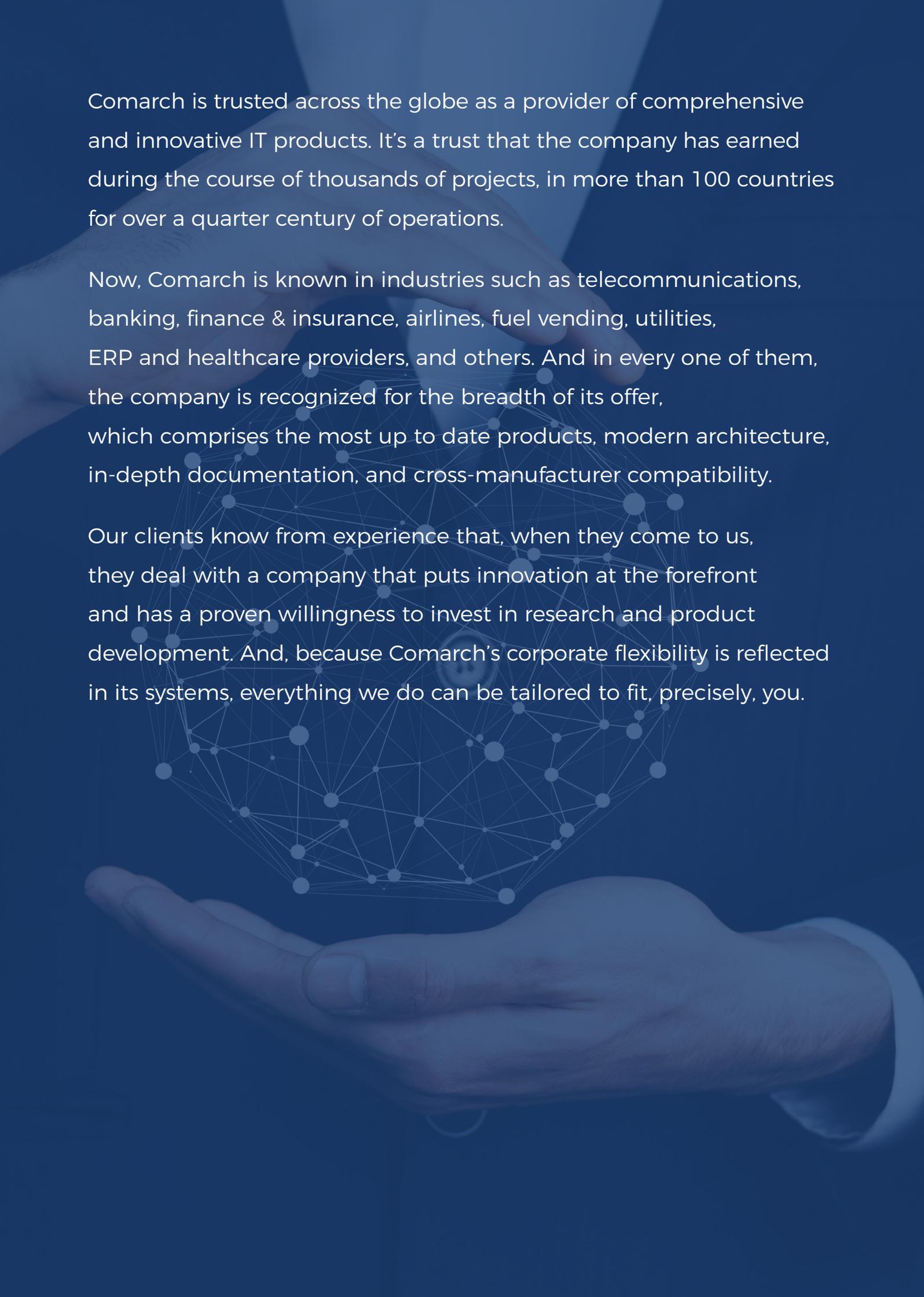


COMARCH

COMARCH OVERVIEW





Comarch is trusted across the globe as a provider of comprehensive and innovative IT products. It's a trust that the company has earned during the course of thousands of projects, in more than 100 countries for over a quarter century of operations.

Now, Comarch is known in industries such as telecommunications, banking, finance & insurance, airlines, fuel vending, utilities, ERP and healthcare providers, and others. And in every one of them, the company is recognized for the breadth of its offer, which comprises the most up to date products, modern architecture, in-depth documentation, and cross-manufacturer compatibility.

Our clients know from experience that, when they come to us, they deal with a company that puts innovation at the forefront and has a proven willingness to invest in research and product development. And, because Comarch's corporate flexibility is reflected in its systems, everything we do can be tailored to fit, precisely, you.

COMARCH AT A GLANCE

1991

Comarch onset

Founding year

1993

1999

Publicly traded on Warsaw Stock Exchange since

OVER **6500**

EMPLOYEES

93%

of revenues sale of own software and solutions



GLOBAL PRESENCE



RECOGNIZED BY

Forrester Research, Gartner, IDC, and more



SUBSIDIARIES

59

HEADQUARTERS



KRAKÓW, POLAND

THOUSANDS OF SUCCESSFULLY COMPLETED PROJECTS ON

6 Continents in about **100** Countries



ADDED VALUE

Comarch is a software house which sells its own software products to large corporations, and delivers implementation and managed services

500 MLN USD The total value of Comarch's shares on the **Stock Exchange**

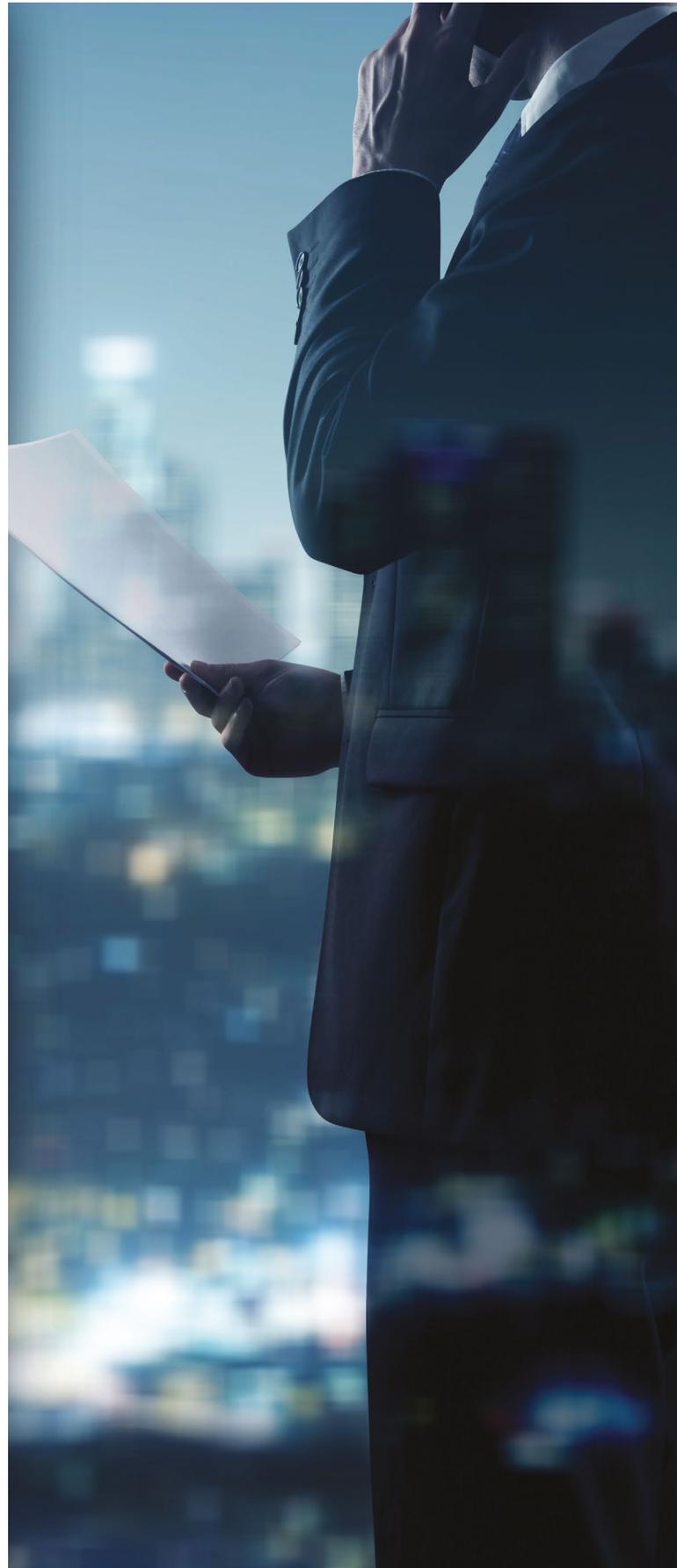
BUILDING CONNECTIONS, INNOVATIVELY

Comarch provides the link between businesses and clients, via and the most up to date, innovative technologies. We have a proven track record and are trusted in fields such as:

- **IoT Ecosystem** systems suite offers full support for telecoms at all stages of the end-to-end IoT value chain with vertical business cases, horizontal platforms (such as Comarch IoT Connect), IoT building blocks, smart devices and the Comarch IoT Plant.
- **IoT Connect** connects not only devices and assets, but also network, data and telecom IoT business. The comprehensive platform encompasses Comarch IoT Connectivity Management, Comarch IoT Billing, Comarch IoT Analytics Platform and Comarch IoT Solution Management.

- **IoT Enablement Platform** is a flexible and secure end to end IT system combining software and hardware, enabling the creation of scalable IoT products such as Asset Tracking, Smart Metering and Industry 4.0.
- **IoT Devices** is a line of smart devices linked to the Comarch IoT Platform through various wireless protocols including LPWAN (NB-IoT, LTE-M), Bluetooth Smart, Wi-Fi, 3G/4G, and mesh.
- **IoT Plant** offers a sophisticated infrastructure facility suitable for industrial design, rapid prototyping, short/medium series manufacturing services and quality control over IoT devices.
- **Intelligent Assurance & Analytics** enhances integrated assurance with OSS/BSS data analytics, big data management capabilities, an artificial intelligence module using machine learning algorithms for predictive maintenance, and knowledge accumulation functionalities to automate the collection and collation of best practices related to preventing and solving network issues within an organization.
- **Business Support Systems** is a full suite of BSS solutions for telecoms, featuring a powerful product catalog driving the order management process, as well as an accurate billing module. It enables new digital services and offers to be launched more rapidly than ever before by the use of simple configuration alone. Suitable for B2B, B2C or B2B2C models and any kind of services.
- **5G-Ready Real-Time OSS** provides a consistent platform that can be used for the provisioning and management of services over VNFs, PNFs and SDN-controlled telecom networks. Acting as “controller of controllers” Comarch real-time OSS provides comprehensive end to end orchestration of complex multi-domain topologies.
- **Field Service Management** is an efficient, complete field service system for staffing, scheduling and managing field force that supports various areas including service order placement, scheduling, technician assignment depending on skills and availability, route optimization, equipment allocation as well as service level agreements and reports management.
- **Smart Parking** is a platform designed to manage and handle public/private parking lots, and to detect free parking spaces using intelligent video analytics (IVA) or smart sensor networks.
- **Anti-money Laundering** is an AI-powered fraud detection software dedicated to financial institutions obligated to monitor, investigate and report suspicious transactions to financial regulatory authorities.
- **Transaction Protection** or the **tPro** suite consists of two solutions for customer authentication and transaction authorization: tPro ECC and tPro Mobile.
- **Wealth Management** platform is dedicated to retail, affluent and private banking client segments. Thanks to being powered by AI and big data it allows for personalized investment advice.
- **Loyalty Management** is a single, cutting-edge, comprehensive solution to manage customer retention and targeted offers, dedicated for individual and business customers.
- **Loyalty Management (CLM) Cloud** is a comprehensive, modular loyalty application that allows companies to efficiently manage their complex loyalty program lifecycle.
- **Gamification** solution comprehensively allows users to increase customer motivation, engagement and commitment.
- **Location Based Services** offer a robust software platform, which enables direct and real-time communication via a mobile application, based on its user’s location.
- **EDI (Electronic Data Interchange)** is a cloud-based B2B2G network, which integrates a community of over 130 000 entities from various verticals worldwide. It supports all areas of business processes from items data management, ordering, delivery, and invoicing along with stock and sales control. The platform guarantees secure and prompt communication with all partners regardless of the company’s size and IT maturity and provides comprehensive on-boarding services guaranteeing a high dynamic of connection process as well as on-going multilingual support.

- **The e-Invoicing** system enables automation of AP/AR processes and ensures compliance with legal requirements of 60+ countries, including integration with governmental platforms. Thanks to the use of leading-edge functionalities such as machine learning, invoice content is validated and the format is converted correctly. It ensures a secure transmission process and access to detailed information about all statuses.
- **Optimed NXT** is a reliable hospital information system with numerous modules for hospitals, clinics, and laboratories. Thanks to the wide spectrum of dedicated options it can be suited to all facilities, no matter specialization or size.
- **Diagnostic Point** consists of measuring devices and software, which enable quick tests of basic vital parameters outside medical facilities. This enables patients to keep a close track of their health and consult physicians in a convenient way.
- **e-Care Platform** is a cloud-based platform with a web application that collects and analyzes data from various connected medical devices, systems, and applications. Integration with AI Cloud allows processing a large amount of information, as well as marking correlations and abnormalities.
- **CardioVest** is a special ECG vest with sensor recorders and a dock transmission station. It allows long-term monitoring, preventive examinations, diagnostics and supervision of cardiac disorders, without application of any electrodes. If integrated with the Comarch Medical Analysis Platform it allows to interpret the data, automatically detecting crucial disorders and deviations from the standard.
- **Life Wristband** is an innovative monitoring band, equipped with an SOS button, a GPS module, and a heart rate sensor. The patient wearing the wristband is constantly supported by the Remote Medical Care Center, and paramedics can communicate with the patient directly via the device.
- **Internet Health Diary** consists of three components: a mobile and web application for patients and a web application for doctors. The mobile application allows gathering and accessing a complete, up-to-date medical documentation, as well as transferring it directly to physicians.





CUSTOMERS

TELECOM CUSTOMERS 	SELECTED CUSTOMERS IN OTHER INDUSTRIES 
  	  
  	  
  	  
  	  

COMARCH FOR TELECOMMUNICATIONS

WHY CHOOSE COMARCH FOR YOUR NEXT TELECOM PROJECT?

- Engineering **know-how built on experience** in major transformation projects
- **Interoperability** with legacy systems
- **“Agile-native”** implementations
- **Products built in-house** allowing faster, “quick win” integration
- **Complete and future-proof BSS/OSS portfolio** covering all CSP strategy areas
- Fit for **global execution**
- **An innovative challenger**, always on top of current trends
- **Cost-effective, expandable framework** with transparent roadmap, data model and APIs ready for future extensions
- **Flexibility and configurability of products**, customized to meet your company’s needs
- A reliable business partner recognized by leading research companies
- **Full support** from the very start of the project to the end
- Providing and protecting **data security**
- **Consulting service** to help clients find the most efficient implementations

END TO END PORTFOLIO COVERING ALL STRATEGIC AREAS OF A TELECOM BUSINESS:

<p>PROVIDING ENTERPRISE SERVICES GLOBALLY</p> <p>Enterprise Product Catalog Digital Billing and Revenue Management Partner Management Wholesale Billing Global Network Operations Center</p>	<p>DIGITIZING ENTERPRISE CUSTOMERS</p> <p>Enterprise Billing, Charging & Revenue Management B2B Self-enablement Platform B2B Sales & Ordering</p>	<p>ENHANCING DIGITAL CUSTOMER JOURNEYS</p> <p>Digital Sales & Customer Care Real-time Data Control & Presentation Campaign Management Loyalty Management Business Intelligence</p>
<p>5G NETWORK OPERATIONS</p> <p>Zero-touch Network Provisioning Real-time OSS – SDN/NFV Orchestration Intelligent Assurance & Analytics</p>	<p>RESOURCE MANAGEMENT</p> <p>Real-time Network Inventory Management Network Planning & Design Network Auto-discovery & Reconciliation Network Configuration Management Resource Order Management</p>	<p>INTELLIGENT ASSURANCE & ANALYTICS</p> <p>AI Control Desk Customer Experience Management Service Quality Management Service Monitoring</p>
<p>SERVICE DESIGN & FULFILLMENT</p> <p>Service Catalog Service Inventory Service Fulfillment & Orchestration Field Service Management Service Activation</p>	<p>IOT CONNECT</p> <p>IoT Solution Management IoT Connectivity Management IoT Analytics Platform IoT Billing</p>	<p>IOT ECOSYSTEM</p> <p>IoT Connect Smart Parking Smart Lighting Smart Metering Mobile Healthcare for Telecoms</p>
<p>CLOUD & SECURITY</p> <p>Cloud Data Storage & Backup Cloud Infraspaces Multi-cloud Management Services Cyber Security Cloud Subscription Billing</p>	<p>PROFESSIONAL SERVICES</p> <p>Business Consulting Managed Services BSS/OSS Transformations Cloud Transformation End to end Project Delivery</p>	

COMARCH

ABOUT COMARCH

Since 1993, Comarch's specialist telecommunications business unit has worked with some of the biggest telecoms companies in the world to transform their business operations. Our industry-recognized telco OSS and BSS products help telecoms companies streamline their business processes and simplify their systems to increase business efficiency and revenue, as well as to improve the customer experience and help telcos bring innovative services to market. Comarch's customers in telecommunications include Telefónica, Deutsche Telekom, Vodafone, KPN and Orange.

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