

Company Profile

Since its founding in 2009, Professional Telecommunications Incorporation (PROTEI) has been an industry pioneer in providing innovative telecom solutions on a worldwide scale. Based in Amman, Jordan, PROTEI offers an extensive portfolio, including core network services, roaming, messaging, value-added services (VAS), data management, and customer care solutions. With references across the Middle East, Europe, Africa, Latin America, Central Asia, and the Commonwealth of Independent States (CIS), PROTEI provides world-class commercial and technical support to a global client base.

PROTEI operates development centers in Jordan, Europe, and CIS, ensuring that its innovative solutions meet the evolving needs of over 400 clients worldwide. With a team of 1,800 specialists—70% focused on research and development—PROTEI delivers scalable, reliable, and adaptable platforms aimed at enhancing customer experience, boosting revenue, and reducing operational costs.

What makes PROTEI solutions special?

PROTEI specializes in creating solutions that take full advantage of the most advanced technologies available, designed in-house with strict quality control (ISO 9001:2008 and ISO 14001:2004), rigorous testing for stability and reliability and, of course, maximum compatibility with all our existing product range.

You benefit from our meticulous attention to detail, dedicated pre-sales and after-sales service and our commitment to providing the best possible equipment.

When designing and developing solutions, we look at 'the bigger picture' – making all our systems compatible with each other as well as with third-party equipment plus maximizing flexibility and scalability.

You get a solution that can be tailored to fit your business at a price you can afford. When your business grows as a result, adding extra capacity to your existing installation is no problem.

If you would like more information about our outstanding range of solutions for mobile and fixed-line Operators and providers, call us now and one of our advisors will be happy to help you.

Why Deal with PROTEI?

- **20 Years** of expertise in the area
- Several commercially operated Full **MVNOs and tens of DPI deployments** in different countries
- **Over 40 systems and solutions for mobile operators** of GSM / UMTS and LTE standards, including all key elements of the network core
- Successfully implemented projects **in 45 countries**
- Compatibility with **the core equipment of leading telecom vendors**

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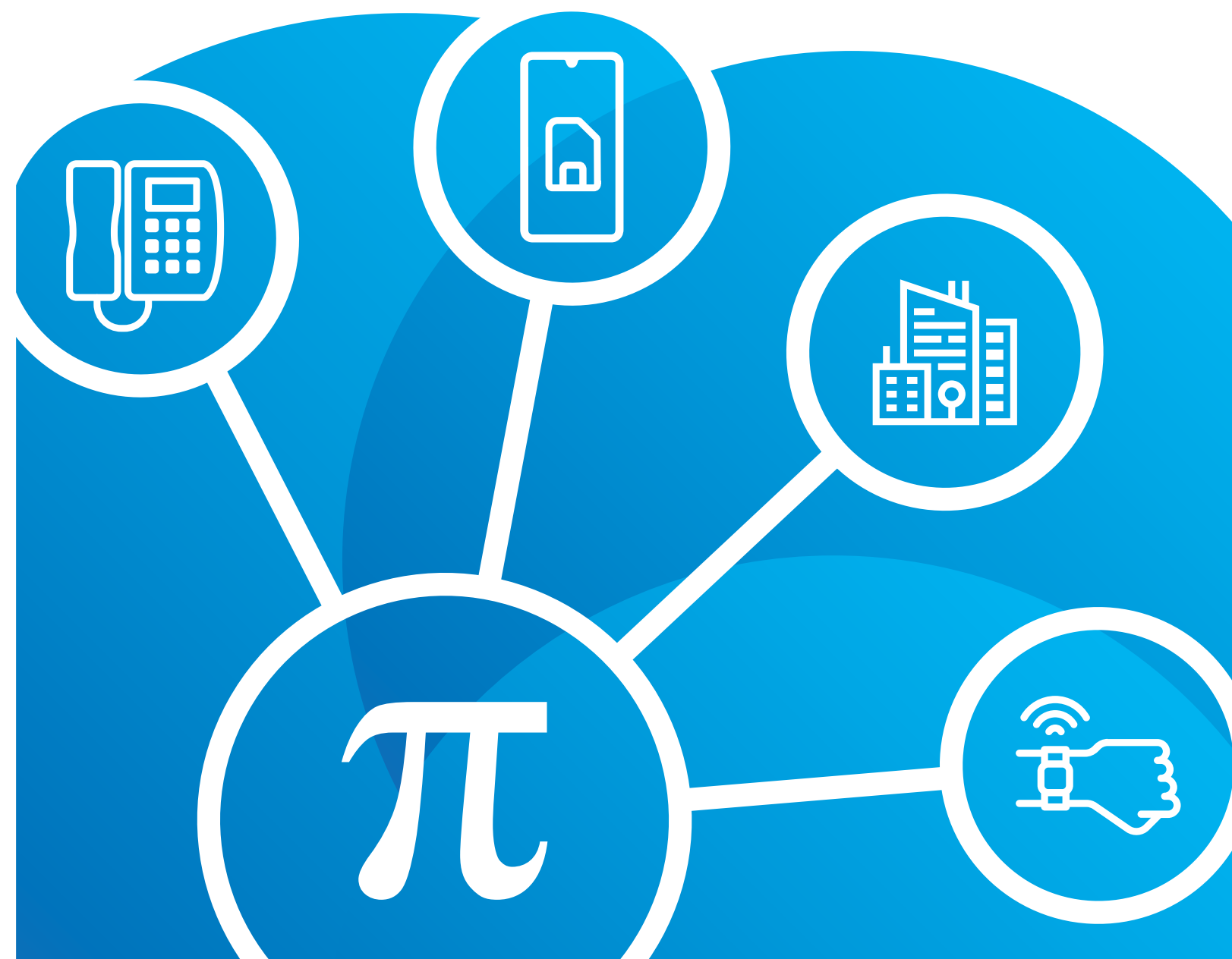
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CS и PS Core

Core Network Solutions are cost-effective, high performance and scalable platforms. HLR/HSS, GMSC, STP/DRA, EIR, SS7 Firewall by PROTEI can be used with maximum effectiveness by new and existing mobile Operators, MVNO, service- and content-providers. Scalable architecture and flexible throughput licensing of our systems enables an Operator or provider to select a solution that not only mirrors the revenue stream of today, but can be used to meet Operator tomorrow's needs. PROTEI platforms allow creating an exclusive project for 100% specific needs.

Evolved Packet Core (EPC)

PROTEI EPC is the set of platforms for LTE (EPC) creation enabling intelligent, reliable, rich services and security for 4G the fourth-generation operators. The EPC is designed to provide an all-IP, flat architecture which provides high throughput and reduced latency. EPCs reduce costs and support real-time media-rich services with enhanced quality of experience while also providing interworking with legacy 2G/3G networks. PROTEI EPC set includes MME, SGW (Serving GW), PDN GW/GGSN, and optionally HLR/HSS and PCRF components, or any combination of these, providing a fully functional solution. Each of solutions may be deployed either separately or as a part of the turn-key bundle.

Solutions for MVNO & MVNE

PROTEI product line is fully equipped to propose turn-key set forfull-MVNO creation. PROTEI MVNO portfolio includes both core products such as HLR/HSS, STP, GMSC, GGSN, media-gateways, PCEF (DPI) and VAS products traditional for PROTEI such as SCP, SMSC and so on. Several products like HLR/HSS and OCS specially adopted for MVNO/MVNE needs allowing building several MVNO sharing one platform.

PROTEI is ready to answer IoT MVNO demands proposing several solutions specially tailored for such MVNOs. PROTEI changed traditional licensing principles for such products crucial for IoT MVNOs as HLR/HSS and DPI.

Private LTE/5G

PROTEI offers comprehensive solutions for building Private LTE/5G networks. The bundle provides compatibility with eNodeB and gNodeB of various vendors, which makes possible to organize the construction of Private LTE/5G networks. Turn-key Private LTE solution offered by PROTEI, provides the ability to deploy the Private LTE/5G network core in the optimal way, with the ability to scale from hundreds to tens of thousands of devices and subscribers. The composition of the bundle depends on the target set of services provided.

DPI & Data Traffic Management

PROTEI DPI and Data Traffic solutions unlock a variety of the data traffic management tools enabling Operators, including MVNO, to deploy range of services related with ultimately flexible traffic charging, bandwidth management etc. Prioritization and charging different types of traffic in online mode are always relevant, especially in case of limited bandwidth.

PROTEI systems headed by GGSN/PDN and DPI-platform nodes allow implementing any Operators' business requirements to simple rules convenient for clients. Our solutions can provide a wide range of services fully protecting subscribers from problems with bill shock or QoS decline. DPI-platform, GGSN/PDN node, PCRF, Bill Shock Prevention system, DRA and fully-functional OSC-platform are developed in full accordance with international standards and allows easy integration with the network.

Roaming Solutions

Using of PROTEI roaming platforms allows Operators to strengthen its position at highly competitive mobile market. PROTEI roaming portfolio includes several platforms such as Multi-IMSI roaming platform, Roaming Optimization Suite, Steering of Roaming, GLR, Boarder Roaming Gateway and others. Several solutions are tailored specially to MVNO needs and showed its profitability in existing networks. All roaming solutions by PROTEI support a wide range of protocols for integration with any network and CDR generation, have convenient WEB-administration tools and a report subsystem for analyzing roaming traffic and its structure.

Intelligent Network & VAS

IN & VAS services are the main catalyst of income growth. Profit from additional services is growing much faster then from traditional and their potential are almost limitless. PROTEI IN & VAS platforms allow to deploy almost any services attractive to subscribers and easy for implementation by Operator.

CAMEL Gateway/SCP, Missed Call Alert/Notify Me, Call Completion Suite, RBT, LBS, Mobile Advertising, Call Back, Call Collect, xVLR solutions can be implemented in mobile network fast and without interruption existing services.

A unique functional was originally laid out to IN & VAS systems by PROTEI, which makes it possible to create service logic applications both by PROTEI specialists and by the technical personnel of the customer. PROTEI solutions give you a freedom of choice which is limited only by marketing department fantasies. PROTEI IN & VAS platforms are horizontally scalable, carrier class systems that unlock a wide range of possibilities for providing IN services both in the home network and to outbound roaming subscriber.

Messaging

Currently, messaging services are in demand by subscribers to manage their profile and receive information and by entertainment services, as well as business clients, as an effective tool for interaction with target audiences. Both these users' categories can become source of additional profit and means of increasing customer loyalty. It's also a great possibility for reducing operating costs.

Messaging solutions developed by PROTEI successfully passed multi-year checks for reliability, scalability and the relevance of the functionality. SMS-center, USSD Server, Bulk SMS/MMS platform, SMS Firewall, SMPP Proxy/Router and Cell Broadcast center provide a wide functionality and combine traditional and innovative SMS features for effective business development. Range of the supported signaling protocols allows deploying PROTEI Messaging solutions in 3G, 4G and LTE networks.

Customer Care

Convergence of telecom networks is a right direction to exploring new fields and developing new services for Operators. We present carrier class, field proven solutions and high-capacity systems. Customer Care solutions includes IVR, Voucher Management System and contemporary IP Call-center are suitablefor all range of customers from enterprises and governmental organization. Using our products is a reliable way to meet the requirements for service and network transformation.

NGN/IMS

PROTEI NGN/IMS equipment is high-quality, industry-grade systems enabled the Operator to launch to the full range of NGN services. We offer a full line of carrier-class equipment for providing both switching services and VAS. SSW Class 4,5, VoIP gateways, Access equipment, IP-PBX, service platforms designed by PROTEI have installed in networks of the largest Russian and CIS operators.

Company develops IMS products as multiplatform applications which form the mobile services core network. PROTEI IMS solutions can be easy deployed on various hardware devices/servers and cover full range of voice services. PROTEI NGN/IMS product line provides not only a major increase in range and quality of services available to subscribers but also brings about a considerable reduction in network operating costs.

Integrated Safety and Security Solution

PROTEI portfolio for safe cities includes a range of field proven products covering requirements of all safe city stakeholders and allowing creation of integrated safe city solution. Due to specifics of the architecture based on IP technology it is easy to expand functional possibilities of the platform.

The portfolio includes "911/112 – Emergency Services Response System", "Safe city" integrated information system and information exchange bus for emergency response unit, Solutions for public warning alerts supporting Cell Broadcast, and other alert technologies. Being a player on the market during 10 years, PROTEI has earned a great experience in developing, deployment and maintenance of Safe City platforms in more than 40 cities/provinces in a few countries.

