

About company
JSC Giprosvyaz
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Open Joint Stock Company Giprosvyaz (hereinafter - JSC Giprosvyaz) was established by the order of Minsk Territorial State Property Fund on May 26, 2009 № 53 and by the decision of Minsk city executive committee on June 12, 2009. It was by the way of converting a research project of the republican unitary enterprise «Giprosvyaz» according to Belarusian legislation about privatization of state property.

The company, founded in 1968, has a long tradition and experience in designing systems and communicative structures, forecasting and justifying the main directions of long-term science and technology policy in the field of communication, development of targeted programs and their support, conformity assessment of telecommunicative services and the requirements of technical regulations regulations of the Republic of Belarus.

The specialists of Giprosvyaz gained a considerable experience in the most complex and non-trivial projects for more than forty years.

The main activity of the Open Joint Stock Company is to perform complex design and survey works (PIR) and the creation of the design for the products - design and construction documents (CAP) - the following types of facilities:

- telecommunicative lines of local, intra-, inter- and technological networks (cable, microwave);
- the primary telecommunications network (SDH, xWDM);
- automatic long distance, urban, rural and technological stations;
- cellular mobile telecommunicative system;
- Network packet telephony NGN;
- Transportation data network (trunk, city, Metro Ethernet);
- broadband subscriber wired and wireless access technologies for xDSL, PON, WiMAX and Wi-Fi;
- radio and television transmitting stations and TV relay stations;
- networks, and analog and digital television;
- network and cable television systems;
- videoconferencing;

- data processing centers;
- network of automated warning systems;
- Network dispatching telecommunication services;
- hands-free telecommunication network of production;
- alarm siren network of civil defense;
- clock network synchronization networks;
- Network signaling ACS № 7;
- objects of housing and civil purposes, repair and modernization of the divisions:
- Master Plan and Transportation;
- architectural and construction solutions;
- Engineering equipment, networks and systems of heat and water supply, sewerage, heating, ventilation, electricity, diesel power plants;
- inspection of buildings and structures with the issuance of technical advice;
- Distribution network cable broadcasting;
- structured cabling systems;
- Dedicated corporate telecommunications network with the interaction with the public telecommunications network and other telecommunications operators;
- Corporate and local area networks;
- fire alarm system;
- warning systems of fire;
- Smoke control system settings;
- Alarm system;
- security system inputs (intercoms, video intercoms);
- information security system;
- general and promising development schemes of telecommunication networks (multi);
- Preparation of estimates for the whole range of works;
- engineering and geodetic survey.

JSC Giprosvyaz develops concepts, programs, promising schemes and master plan of development for telecommunicative networks. Most of the projects concerning the construction and development of networks and communicative structures on the territory of Belarus were designed in JSC Giprosvyaz.

Scientific support of the industry is among the priorities. Giprosvyaz actively involved in developing and implementing annual plans for public and industry standardization.

The research and testing laboratories including in the structure of Giprosvyaz research implements scientific and technical works associated with the development, production, testing of technology and communicative systems; develop regulations, techniques for measuring electrical parameters of telecommunications; spend examination of technical specifications and other documentation of the means of telecommunication.

The main activities of research and testing laboratory measurements of electromagnetic (NIILEMI) include:

- Research and testing of radio communications for compliance with the technical parameters, the parameters of electromagnetic compatibility and safety. The laboratory is accredited in the system of accreditation of calibration and testing laboratories of the Republic of Belarus (registration number BY/112.02.1.00332 from 01.06.1998);
- development of technical standards for evaluation of technical compliance and electromagnetic compatibility of radio;
- providing scientific and technical international activities of the Ministry of Communication and Informatization of the Republic of Belarus under the Radio communication Sector of the International Telecommunication Union (ITU-R), CEPT and the Regional Commonwealth in the Field of Communications (RCC);
- carrying out scientific research to establish the conditions of electromagnetic compatibility of radio-frequency and spatial planning.

In NIILEMI also conducted the following activities:

test radio communications standards GSM, UMTS, WiFi, WiMAX, cdma2000, Bluetooth, radio, radio relay stations, etc.

- Development of automated measuring systems, the development of TNLA techniques, specialized software;
- problem solving intersystem electromagnetic compatibility of radio equipment;
- frequency-spatial planning of fixed and mobile radio communications;
- problem solving vnutriobektovoy electromagnetic compatibility;
- electromagnetic compatibility of satellite communications networks;
- Analytical work on the use of frequency resources in the world and the Republic of Belarus.

Main activities of the research laboratory systems and communication devices (NILSUS):

- Develop regulations that set requirements for vehicles of cellular mobile and fixed telecommunications, the organization of their trials;
- Development and implementation of technical requirements and test methods of cellular mobile and fixed telecommunications;
- Design systems and radio networks all assignments and ranges (cellular, trunking, mobile, microwave, data transmission systems of high density) on electronic maps;
- analysis of existing and future systems and communication devices, means of land mobile communications, and develop recommendations for improving telecommunication networks, radio and television broadcasting in the Republic of Belarus;
- addressing the scientific and technical problems of mathematical modeling of the networks, systems and communications devices, increasing their immunity, questions of closure of information transmitted through the channels and lines of communication, protecting networks from unauthorized access;

- Develop programs, concepts, development schemes of all types of communications for the departments and agencies;
- Implementation of research & development and other scientific and technical works and services associated with the development, production, implementation and testing of technology and communications systems;
- the development, manufacture and testing of samples of systems and communications devices;
- examination of technical documentation for telecommunications equipment.

The laboratory is equipped with modern equipment allows to perform the work on measuring the parameters of systems equipment analog and digital television and sound broadcasting:

- receiving equipment of digital television broadcasting standard, DVB;
- hardware encoding and multiplexing of digital television broadcasting;
- transmission equipment of digital television broadcasting standard, DVB;
- passive equipment of cable transmission systems;
- Headend devices forming, addition, amplification and conversion of radio signals of cable television.

Activities of research and testing laboratory of the terminal equipment of the laboratory (NIILTO):

development:

- protection devices telecommunications overvoltage and overcurrent;
- hardware and software measurement and testing systems;
- Documents (reference, standards, rules, requirements, methods of measuring the parameters of telecommunications);
- test equipment and measuring instruments for monitoring the parameters of communication;
- advice on equipment selection;
- as well as certification and research testing of telecommunications equipment.

Research Information and Analysis Centre (NIIATS) operates in the following areas:

- implementation of R & D, including under the plan of research, experimental design, experimental and technological work, funded by the Innovation Fund of the Ministry of Communication and Informatization of the Republic of Belarus;
- study the problems of formation and development of the telecommunication services, market information and communication technologies and services;
- examination of draft laws, standards and other regulatory documents, concepts, programs and projects in the field of telecommunications and information;
- Organization and work on technical regulation and standardization in the industry;
- Develop software on request of interested parties;
- Development and implementation of information technology planning and management in organizations of the Ministry of Communications;

- providing scientific and technical international activities of the Ministry of Communications and Informatization of the Republic of Belarus under the Telecommunication Standardization Sector (ITU-T) and the Telecommunication Development Sector (ITU-D), Regional Commonwealth in the Field of Communications (RCC).

The society operates a quality management system allows for perfect control by sharing the responsibility and authority, continued growth of competence and qualifications of staff, ensuring the competitiveness of and demand for services in the market.

Giprosvyaz conducts background information, methodology, consulting services to organizations of the Ministry of Communications and other organizations on a wide range of areas in information and communication technologies.

Giprosvyaz published scientific magazine "Vesnik suvyazi."