

APPROVED
By the RESOLUTION OF THE COUNCIL OF
MINISTERS OF THE REPUBLIC OF BELARUS
20 June 2018 No. 469



Technical Regulation of the Republic of Belarus: Telecommunication Facilities. Safety

TR 2018/024/BY



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RESOLUTION OF THE COUNCIL OF MINISTERS OF THE REPUBLIC OF BELARUS
20 June 2018 No. 469

on approving the Technical Regulation of the Republic of Belarus: Telecommunication Facilities. Safety (TR 2018/024/BY) and amending Resolution No. 849 of the Council of Ministers of the Republic of Belarus of 21 October 2016

In accordance with Article 8 (clause 1, sub-clause 1.6) of the Law of the Republic of Belarus of 5 January 2004 on Technical Normalization and Standardization, the Council of Ministers of the Republic of Belarus hereby RESOLVES that:

1. The Technical Regulation of the Republic of Belarus: Telecommunication Facilities. Safety (TR 2018/024/BY) (hereinafter referred to as the "Technical Regulation") annexed hereto is approved and comes into force on 1 January 2019.
2. Conformity assessment documents for telecommunication facilities issued/adopted within the National Conformity Assurance System of the Republic of Belarus before the effective date of the Technical Regulation shall be valid until their expiry.
3. The Ministry of Communications and Informatization shall:
 - 3.1. in coordination with the State Standardization Committee and no later than thirty calendar days of the effective date of the Technical Regulation, approve and ensure continuous update of a list of national standards interrelated with the Technical Regulation which, when applied on a voluntary basis, ensure that the requirements of the Technical Regulation are observed.
 - 3.2. be entitled to clarify the application of the Technical Regulation.
4. Item 10 of the List of Objects that are Subject to Mandatory Conformity Assurance within the National Conformity Assurance System of the Republic of Belarus as approved by Resolution No. 849 of the Council of Ministers of the Republic of Belarus of 21 October 2016 on Certain Matters of Conformity Assurance within the National Conformity Assurance System of the Republic of Belarus (National Legal Internet Portal of the Republic of Belarus, 02 Nov 2016, 5/42844) shall be deleted.
5. This Resolution shall come into force after its official publication, except clause 4 which shall come into force on 1 January 2019.

A. Kobyakov
Prime Minister of the Republic of Belarus

APPROVED

(Resolution No. 469 of the Council of Ministers of the Republic of Belarus of 20 June 2018)

**Technical Regulation of the Republic of Belarus
Telecommunication Facilities. Safety
(TR 2018/024/BY)**

Article 1. Scope

1. This Technical Regulation applies to telecommunication facilities to be released for market circulation in the Republic of Belarus that are listed in Annexes 1 and 2, regardless of their design, including telecommunication facilities that are part of other technical products.

2. This Technical Regulation does not apply to:

telecommunication facilities that are not designed for, and cannot be used in, public telecommunication networks, except radio electronic facilities;

telecommunication facilities that are intended to be used exclusively for the purposes of public administration, national security, defence, law enforcement, emergency prevention and recovery (except state secret protection facilities and telecommunication facilities in which they are implemented, that are used in encrypted and secure communication systems);

telecommunication facility complexes (mobile communication vehicles) that are used in encrypted and secure communication systems in the interests of state military structures;

telecommunication facilities that function as control and monitoring systems in civil aviation and maritime transport;

broadcast television and radio receivers;

satellite navigation equipment;

equipment that is intended to be used for amateur radio purposes;

used/second-hand telecommunication facilities;

telecommunication facilities that are seized, impounded or confiscated by court sentence/ruling or otherwise appropriated to the public treasury, including telecommunication facilities that are subject to collection on account of outstanding taxes, unpaid penalties and that are released from impoundment by the body in charge of the legal process;

telecommunication facilities that are imported by legal entities and individual entrepreneurs as component products/materials to be used for their own manufacturing purposes provided that they have conformity assessment documents issued within the National Conformity Assessment System of the Republic of Belarus for manufactured end products that include these component products/materials;

telecommunication facilities that are imported in the quantity of one or single quantities in line with one foreign purchase contract and are intended to be exclusively used by the importing legal entity or individual entrepreneur (inter alia for the purposes of research, study or testing);

telecommunication facilities that are imported as samples, exhibits and promotion materials for expositions, fairs or promotion events provided that they will not be used in public telecommunication networks.

3. This Technical Regulation sets requirements for telecommunication facilities with the aim to protect human life, health and heredity, property and environment and prevent actions misleading consumers as to the intended use, quality or safety of products.

Article 2. Terms and Definitions

This Technical Regulation applies terms and their definitions in the meanings set out in the Law of the Republic of Belarus of 19 July 2005 on Telecommunication (National Legal Acts Register of the Republic of Belarus, 2005, No. 122, 2/1142) and the Law of the Republic of Belarus of 24 October 2016 on Assessment of Conformity with Technical Requirements and Accreditation of Conformity Assessment Bodies (National Legal Internet Portal of the Republic of Belarus, 29.10.2016, 2/2435) as well as terms in the following meanings:

apparatus is a structurally complete technical product that has a case/enclosure and, where appropriate, devices/ports for external connections and is intended to be used by a consumer/user;

telecommunication facility safety is an aggregate of features and characteristics of a telecommunication facility which ensures that the telecommunication facility is not dangerous for both the consumer's life, health, heredity and property and for the environment in normal conditions of use, storage, transportation and disposal and performs its functions without violating requirements applicable to the use of the radio frequency spectrum and to the security, integrity and stability of telecommunication networks;

telecommunication network security is the capability of a telecommunication network to prevent destabilizing influence on the network facilities, communication lines and technological processes (protocols) to which the receipt, transmission, processing and storage of information or telecommunication messages relate.

release of telecommunication facilities for circulation is the delivery or import of telecommunication facilities (including shipment from the manufacturer's warehouse or non-storage shipment) to distribute/sale in Belarus in the course of commercial activity on a profit/non-profit basis;

destabilizing influence is a natural or technogenic impact on telecommunication facilities caused by lightning discharges, AC and DC mains voltage spikes, short circuits between wired communication lines and AC mains and by effects of overvoltage and overcurrent on contacts of communication lines of, and power supply to, telecommunication facilities;

interface is a common boundary between two interconnected systems;

user-network interface is an interface between a subscriber terminal unit and network termination;

component is a structurally complete part of a technical product, which is intended to be integrated by the consumer/user into an apparatus;

intended use is the use of telecommunication facilities for the intended purposes specified by the manufacturer on the device/equipment and/or in the accompanying documents;

network termination is a user-interface network access device connected to a public telecommunication network and used by one subscriber;

telecommunication message is information transmitted by telecommunication facilities using electromagnetic signals;

technical product is any electrotechnical, electronic or radio electronic product and any product containing electrical and/or electronic constituent parts that may be classified in one of the following categories: a component, an apparatus and/or an installation;

installation (mobile or stationary) is a set of interrelated apparatuses and, where appropriate, other products that is intended to be used by the consumer/user as a product having a single functional purpose and single technical documentation;

telecommunication network stability is the capability of a telecommunication network to maintain its integrity in the operational conditions specified by the telecommunication facility manufacturer, in case of failure of some telecommunication network elements and under external natural and technogenic destabilizing influences;

telecommunication network integrity is the capability to ensure interaction between telecommunication facilities of the same telecommunication network and interaction between telecommunication networks for establishing connections and/or transmitting telecommunication messages between users of telecommunication services, with such capability being ensured by the compliance of the telecommunication network with functional requirements, by the compatibility of interaction protocols and interfaces and by the uniformity of measurements in the process of verification of the parameters and characteristics of telecommunication network constituent parts.

Article 3. Technical Requirements

1. The way telecommunication facilities are designed and manufactured shall ensure that they fulfil the requirements set out in paragraphs 2 through 4 hereof for the entire period of their service life provided that they are used as intended and the requirements for their installation, operation and maintenance are met.

2. The design and technical parameters of telecommunication facilities shall ensure:

stability of the telecommunication network and the use of its resources as intended;

compatibility with appropriate synchronization and signalling systems, technical support and operation systems and existing automated settlement systems that are used in public telecommunication networks as well as with similar telecommunication facilities;

interaction via appropriate user-network interfaces and network and internetwork interfaces;

operability of main and additional telecommunication services and their functioning at nominal loads;

necessary resistance to external natural and technogenic destabilizing influences.

3. Radio electronic facilities shall ensure:

operation in allocated radio frequency bands with regulated parameters in accordance with decisions adopted by the State Radio Frequency Commission under the Security Council of the Republic of Belarus;

compliance with permissible levels of unwanted emissions including spurious emissions;

stable operation of the transceiver within the operating radio frequency band under permissible external interference;

safe levels of electromagnetic fields within the radio frequency range.

4. Telecommunication facilities that are intended to be used at a rated supply voltage less than 50 VAC and less than 75 VDC and connected to wired telecommunication lines which can be exposed to transient overvoltages caused by atmospheric pressure discharges and faults in power supply systems shall provide necessary protection against electric shock.

5. The labelling of, and accompanying documents for, a telecommunication facility shall include information necessary to identify the telecommunication facility and use it as intended.

6. Accompanying documents for a telecommunication facility shall include:

information about the intended use of the telecommunication facility;

main characteristics and parameters of the telecommunication facility;

pre-installed software version (where available);

rules and conditions for the installation of the telecommunication facility, its connection to the electric AC mains, telecommunication network and other technical products and its start and setup/adjustment where the fulfilment of these rules is a necessary condition for the compliance of the telecommunication facility with the requirements of this Technical Regulation;

rules and conditions for safe operation/use;

rules and conditions for storage, transportation, distribution, installation and disposal (where such requirements are necessary);

information about measures to be taken in case the telecommunication facility is at fault;

name, location and contact details of the manufacturer;

name, location and contact details of the manufacturer's authorized representative and dealer/supplier (where available);

month and year of manufacture of the telecommunication facility and/or information about how to locate or determine the year of manufacture.

7. Accompanying documents shall be in the official languages of the Republic of Belarus (Belarusian and/or Russian) in a printed and/or electronic form.

Article 4. Ensuring Conformity with Technical Requirements

1. The conformity of telecommunication facilities with this Technical Regulation is ensured by either direct fulfilment of its technical requirements or by the fulfilment of the requirements of national standards that are interrelated with this Technical Regulation and the voluntary application of which ensures the conformity with this Technical Regulation. The list of these standards shall be approved by the Ministry of Communication and Informatization in coordination with the State Standardization Committee.

2. The conformity of telecommunication facilities listed in Annex 2 to this Technical Regulation may be assured in the form of mandatory certification.

Article 5. Schemes for Assurance of Conformity of Telecommunication Facilities with Technical Requirements

1. For telecommunication facilities specified in Annex 1 to this Technical Regulation, the conformity assurance in the form of mandatory certification shall be carried out according to the conformity assurance schemes to be used for certification of telecommunication facilities, as set out in Annex 3:

Scheme 1c applies to mass-produced telecommunication facilities;

Scheme 2c applies to mass-produced telecommunication facilities where the manufacturer operates a quality management system certified within the National Conformity Assessment System of the Republic of Belarus;

Scheme 3c applies to a batch/consignment of telecommunication facilities;

Scheme 4c applies to a one-off product.

2. For telecommunication facilities specified in Annex 2 to this Technical Regulation, the conformity assurance in the form of declaration of conformity shall be carried out according to the conformity assurance schemes to be used for declaring conformity of telecommunication facilities, as set out in Annex 4:

Scheme 1d applies to mass-produced telecommunication facilities;

Scheme 2d applies to a batch/consignment of telecommunication facilities or a one-off product.

For declaring conformity of radio electronic facilities, these schemes do not apply.

3. The assurance of conformity of telecommunication facilities in the form of declaration of conformity on the basis of documentary evidence obtained with the participation of a declaration registration body and an accredited testing laboratory/centre shall be carried out according to conformity assurance schemes to be used for declaring conformity of telecommunication facilities specified in Annex 4 to this Technical Regulation:

Scheme 3d applies to mass-produced telecommunication facilities;

Scheme 4d applies to a batch/consignment of telecommunication facilities or a one-off product;

Scheme 6d applies to mass-produced telecommunication facilities where the manufacturer operates a quality management system certified within the National Conformity Assessment System of the Republic of Belarus.



Annex 1
to Technical Regulation of the Republic of Belarus:
Telecommunication Facilities. Safety
(TR 2018/024/BY)

List of telecommunication facilities that are subject to conformity assurance in the form of mandatory certification prior to their release for market circulation in the Republic of Belarus

1. Telecommunication facilities that perform functions of data transmission systems:

data packet switching and routing equipment;

data transmission network security equipment;

network service delivery equipment;

equipment for aggregating and managing access to data transmission network resources;

equipment for transmitting voice, video and multimedia information via data transmission networks, except subscriber terminal equipment.

2. Telecommunication facilities that perform functions of digital backhaul systems:

equipment for digital systems that transmit the plesiochronous digital hierarchy;

equipment for digital systems that transmit the synchronous digital hierarchy;

multifunction channel-forming equipment with flexible configuration capability;

optical transport network equipment;

equipment for spectral compression of optical channels;

transmission media converters.

3. Telecommunication facilities that perform functions of service switching and control systems:

automatic telephone exchanges for office and industrial use;

software switches;

media gateways;

signalling gateways;

media gateway controllers;

SIP proxy servers, redirect servers and registration servers;

equipment for the IP multimedia core network subsystem (IMS).

4. Telecommunication facilities that perform functions of forming, coding, decoding, multiplexing, converting, transmitting and receiving digital broadcast television and radio signals:

coders;

decoders used at communication stations.

5. Radio electronic facilities:

radio equipment for radio relay communication;

stationary transmitters and digital broadcast radio and television relay stations;

base stations and relay stations for mobile radio communication systems.



Annex 2
to Technical Regulation of the Republic of Belarus:
Telecommunication Facilities. Safety
(TR 2018/024/BY)

List of telecommunication facilities that are subject to conformity assurance in the form of declaration of conformity prior to their release for market circulation in the Republic of Belarus

1. Signal conversion devices for data transmission via switched communication channels and unswitched voice frequency channels including devices that are part of any other equipment; modems and fax modems.
2. All types of telephones to be connected to wired telecommunication lines.
3. Record telecommunication terminals including terminals that are part of any other equipment. Fax machines and fax modems including those that are part of any other equipment.
4. Telecommunication facilities that perform functions of service switching and control systems:
application servers;
video and audio conference control and management equipment;
5. Telecommunication facilities that are used to build subscriber access networks:
wired digital subscriber access equipment;
Ethernet network access equipment including Ethernet media converters;
passive optical network equipment;
6. Subscriber terminal units for mobile cellular telecommunication systems including radio modules that are part of other equipment.
7. Subscriber radio stations.
8. DECT radio equipment including radio modules that are part of other devices.
9. Wireless broadband access equipment including radio modules that are part of other equipment.
10. Short distance radio communication devices, including radio modules that are part of other equipment, that operate in a radio frequency band between 25 MHz and 30 GHz and are intended for transmitting telecommunication messages:
 - 10.1. non-specific short distance radio communication devices intended for telemetry, telecontrol, signalling and data/video/audio transmission including smart home systems, cordless video cameras, portable radio stations, baby monitors and similar devices;

10.2. short distance radio communication devices for tracking, monitoring and data collection that are intended to be used for emergency detection, taking meter readings via a radio channel, arrangement of wireless communication lines in an industrial environment and arrangement of operation of wireless sensors and actuators, including personnel monitoring and communication;

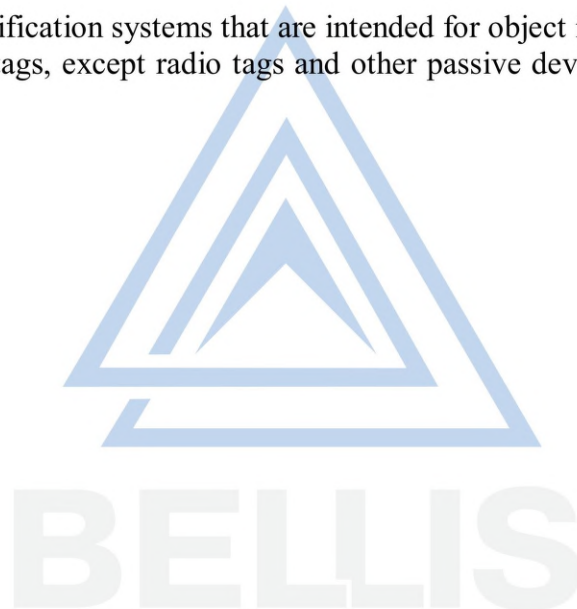
10.3. integrated information transmission and processing facilities for automobile transport and road traffic control that ensure data transmission between motor vehicles and between the motorway infrastructure and motor vehicles for various information, tourism and transport-related purposes including automatic toll collection, except automobile short distance radar detectors;

10.4. radio signalling devices using radio communication for transmitting messages about the activation of security alarm devices;

10.5. model management systems and devices, including radio model management, that are used on the ground, in the air and on/under the water and in a domestic environment, except unmanned aerial vehicles;

10.6. radio microphones and cordless audio systems, including low-power one-way transmitters, that are intended for short distance audio signal transmission;

10.7. radio-frequency identification systems that are intended for object identification and consist of interrogators and radio tags, except radio tags and other passive devices of RF identification systems.



Annex 3
to Technical Regulation of the Republic of Belarus:
Telecommunication Facilities. Safety
(TR 2018/024/BY)

Conformity assurance schemes to be used for certification of telecommunication facilities

Scheme 1c

The applicant:

submits a product certification application together with enclosed documents;

concludes (a) certification and testing agreement(s);

provides the product for identification and test sample selection;

provides conditions for the conduct of factory inspection;

submits an application for issuing a conformity certificate together with documents specified in administrative procedure laws;

concludes an agreement for regular assessment and, where applicable, testing of the certified product and provides conditions for the conduct of regular assessment of the certified product.

The certification body:

reviews documents submitted by the applicant;

concludes a certification agreement;

identifies the product and selects samples for testing;

makes a factory inspection;

issues a certificate of conformity to the applicant;

concludes an agreement for regular assessment of the certified product and carries out regular assessment of the certified product by testing product samples and/or by factory inspection.

The accredited testing laboratory/centre:

concludes a testing agreement;

performs product testing with the participation of a representative of the certification body, as part of certification-related conformity assessment procedures and/or regular assessment of the certified product; the product testing may also be performed at the manufacturer's premises where agreed upon with the applicant.

Scheme 2c

The applicant:

submits a product certification application together with enclosed documents;

concludes (an) agreement(s) for certification and, where appropriate, for testing;

provides the product for identification;

performs testing at the applicant's own accredited testing laboratory/centre or provides the product to another accredited testing laboratory/centre for the selection of test samples;

submits an application for issuing a conformity certificate together with documents specified in administrative procedure laws;

concludes an agreement for regular assessment and, where applicable, testing of the certified product and provides conditions for the conduct of regular assessment of the certified product.

The certification body:

reviews documents submitted by the applicant;

concludes a certification agreement;

identifies the product and, where appropriate, selects samples for testing;

issues a certificate of conformity to the applicant;

concludes an agreement for regular assessment of the certified product and carries out regular assessment of the certified product by product testing at the manufacturer's accredited testing laboratory/centre or another accredited testing laboratory/centre.

The accredited testing laboratory/centre:

concludes a testing agreement;

performs product testing with the participation of a representative of the certification body, as part of certification-related conformity assessment procedures and/or regular assessment of the certified product; the product testing may also be performed at the manufacturer's premises where agreed upon with the applicant.

Scheme 3c

The applicant:

submits a product certification application together with enclosed documents;

concludes (a) certification and testing agreement(s);

provides the product batch/consignment for identification and test sample selection;

submits an application for issuing a conformity certificate together with documents specified in administrative procedure laws.

The certification body:

reviews documents submitted by the applicant;

concludes a certification agreement;

identifies the product batch/consignment and selects samples for testing;

issues a certificate of conformity to the applicant.

The accredited testing laboratory/centre:

concludes a testing agreement;

performs product testing.

Scheme 4c

The applicant:

submits a product certification application together with enclosed documents;

concludes (a) certification and testing agreement(s);

provide the one-off product for identification and testing;

submits an application for issuing a conformity certificate together with documents specified in administrative procedure laws.

The certification body:

reviews documents submitted by the applicant;

concludes a certification agreement;

identifies the one-off product and accepts it for testing;

issues a certificate of conformity to the applicant.

The accredited testing laboratory/centre:

concludes a testing agreement;

tests the one-off product.

Annex 4
to Technical Regulation of the Republic of Belarus:
Telecommunication facilities. Safety
(TR 2018/024/BY)

Conformity assurance schemes to be used for declaration of conformity of telecommunication facilities

Scheme 1d

The declaration issuer:

prepares documents that prove the compliance of the product with applicable technical requirements and the lawful authority to issue a declaration of conformity;

controls the product manufacturing process;

tests the product at the issuer's own accredited testing laboratory/centre;

issues a declaration of conformity;

submits an application for registering the declaration of conformity together with documents specified in administrative procedure laws.

The declaration registration body:

reviews the application for registering the declaration of conformity and documents submitted by the declaration issuer;

registers the declaration of conformity.

Scheme 2d

The declaration issuer:

prepares documents that prove the compliance of the product with applicable technical requirements and the lawful authority to issue a declaration of conformity;

tests the product batch/consignment or one-off product at the issuer's own accredited testing laboratory/centre;

issues a declaration of conformity;

submits an application for registering the declaration of conformity together with documents specified in administrative procedure laws.

The declaration registration body:

reviews the application for registering the declaration of conformity and documents submitted by the declaration issuer;

registers the declaration of conformity.

Scheme 3d

The declaration issuer:

prepares documents that prove the compliance of the product with applicable technical requirements and the lawful authority to issue a declaration of conformity;

controls the product manufacturing process;

concludes a testing agreement;

provides the product for testing to the accredited testing laboratory/centre;

issues a declaration of conformity;

submits an application for registering the declaration of conformity together with documents specified in administrative procedure laws.

The accredited testing laboratory/centre:

concludes a testing agreement;

performs product testing.

The declaration registration body:

reviews the application for registering the declaration of conformity and documents submitted by the declaration issuer;

registers the declaration of conformity.

Scheme 4d

The declaration issuer:

prepares documents that prove the compliance of the product with applicable technical requirements and the lawful authority to issue a declaration of conformity;

concludes a testing agreement;

provides the product batch/consignment or one-off product for testing to the accredited testing laboratory/centre;

issues a declaration of conformity;

submits an application for registering the declaration of conformity together with documents specified in administrative procedure laws.

The accredited testing laboratory/centre:

concludes a testing agreement;

performs product testing.

The declaration registration body:

reviews the application for registering the declaration of conformity and documents submitted by the declaration issuer;

registers the declaration of conformity.

Scheme 6d

The declaration issuer:

prepares documents that prove the compliance of the product with applicable technical requirements and the lawful authority to issue a declaration of conformity (the documents shall include certificates of conformity (copies of certificates of conformity) for the operated quality management system issued within the National Conformity Assessment System of the Republic of Belarus);

controls the product manufacturing process;

concludes a testing agreement (where appropriate);

performs testing at the issuer's own accredited testing laboratory/centre or provides the product for testing to another accredited testing laboratory/centre;

issues a declaration of conformity;

submits an application for registering the declaration of conformity together with documents specified in administrative procedure laws.

The accredited testing laboratory/centre:

concludes a testing agreement;

performs product testing.

The declaration registration body:

reviews the application for registering the declaration of conformity and documents submitted by the declaration issuer;

registers the declaration of conformity.

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