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Standardization of the Internet of Things

At the international level, the first standard created by Russia for the Industrial Internet of Things (IIoT) has been approved. Its development was carried out at the initiative of Rostelecom on the basis of the technical committee of Rosstandart, reported on February 14, 2022 in the Ministry of Industry and Trade.

It is noted that the standard adopted by the International Organization for Standardization and the International Electrotechnical Commission (ISO / IEC) establishes uniform requirements for the compatibility of various IIoT devices and systems. It is intended to become the basis for the practical implementation of the concept of smart production and provide opportunities for the promotion of Russian technologies. As noted in the Ministry of Industry and Trade, due to the lack of uniform standards, manufacturers in the Internet of Things market use their own standards and protocols, as a result of which products are often incompatible with each other. The adoption of the standard solves this problem, customers of IIoT technologies will be able to use solutions and equipment from various developers and manufacturers, as well as conduct correct testing of solutions and equipment for compatibility.

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Improving the competitiveness of a domestic manufacturer, accelerating import substitution is impossible without standards, but they are often written without us and not for us. Correction of the first problem is systematically dealt with by a number of Russian organizations in partnership with the technical committee 194 "Cyber-Physical Systems" of Rosstandart. Approval of the first Russian international standard in the field of digital technologies is a serious success, this direction can become a breakthrough for domestic developers," said Deputy Minister of Industry and Trade of Russia Vasily Shpak.
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The introduction of uniform requirements for the compatibility of devices, networks and systems of the industrial Internet of things at enterprises will allow the implementation of a heterogeneous system consisting of equipment from different suppliers for each specific enterprise and, thus, will reduce the cost and speed up the implementation of industrial Internet of things technologies. In addition, the international document takes into account the requirements of all Russian Internet of Things protocols disclosed in the relevant national standards.

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