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MANAGEMENT OF SMART TECHNOLOGY SYSTEMS IN CONDITIONS OF INCREASED REQUIREMENTS FOR INFORMATION SECURITY

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Abstract. The modern stage of the information society is marked by the rapid adoption of smart technologies, which have become an essential part of many areas of human activity. Their use spans energy systems, transportation, healthcare, industry, agriculture, and urban infrastructure. The idea of "smart" brings together sensor technologies, automated data collection, artificial intelligence algorithms, the Internet of Things, and cyber-physical systems into a single, integrated environment. In this context, the ability to effectively manage these complex systems takes center stage, since without reliable methods of management, monitoring, and protection, the security and dependability of smart technologies remain at risk.

Keywords: cyber-physical systems; information security; management models; post-quantum cryptography; smart technologies