



DEFINITIONS OF INFORMATION: ANALYSIS OF ACADEMIC WORKS

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Article history:	Abstract:
Received: December 11 th 2021 Accepted: January 11 th 2022 Published: February 20 th 2022	This article examines the essence of the concept of information security, opinions, approaches of scientists regarding this concept. As a result, a practical proposal is given regarding the formulation of this concept in a new form.
Keywords: information security, opinion, scientists, status, degree.	

At the beginning of this article, it should be noted that, as we know, today's XXI century has been declared the century of information technology. Indeed, information security is becoming increasingly important, since in the context of globalization and digitalization, more and more people began to store their personal data on electronic media. This example also makes it clear the meaning of the saying "Who owns the information - he owns the world", which still has its relevance. Thus, referring to the definition of the term "information security", it should be recognized that in the scientific literature until now there is no consensus on its content.

V.N. Lopatin was one of the first legal scholars who fundamentally investigated the problem of information security. The definition of information security formulated by him as "the state of protection of the national interests of the country (the vital interests of the individual, society and the state on a balanced basis) in the information sphere from internal and external threats" was consolidated in the Doctrine of Information Security of the Russian Federation in 2000, but not in the Doctrine nor in the work of V.N. Lopatin did not give an answer to the question: how is this balance achieved. The scientist only noted that there is still no mechanism for determining, measuring and ensuring such a balance. Looking at the problem of information security through the prism of criminal law and relying on the definition given in the Doctrine of Information Security of the Russian Federation, D.A. Kalmykov made an attempt to derive a formula, understanding the principle of balance of interests of the individual, society and the state in the information sphere as a requirement to strictly observe the rights and freedom of the individual, society and state in the information sphere and the presence of a closed list of grounds for their temporary restriction. Such

restrictions may be caused solely by the need to protect the foundations of the constitutional order, morality, health, rights and legitimate interests of others and to ensure the country's defense and state security. Temporary restriction of the rights and freedoms of the individual, society and the state is possible only in the event of a court decision or the publication of an appropriate federal law. G.G. Gorshenkov, criticizing this provision, notes that one should proceed not from the value of exactingness, but from the value of balance - the equilibrium distribution of protection measures in relation to each of the three information security objects. E.A. Krasnenkova, who also considered the problems of ensuring information security by criminal law means, takes a similar position, noting, "Information security is reduced to ensuring the protection of the information interests of a person, individual and the state". Another group of researchers abandoned the definition of information security through the category of "balance of interests". Therefore, for example, A.V. Kubyshkin considers information security as a state of protection of the individual, society, state from information that is harmful or illegal, as well as information that has a negative impact on the consciousness of the individual, hindering the sustainable development of the individual, society and the state. This is also, according to the scientist, the state of security of the information infrastructure, including computers and information and telecommunications infrastructure, including the information in them, which ensures sustainable development¹.

Thus, as D.A. Kalmykov points out, information security should be understood as the state of protection of its national interests in the information sphere, which are determined by the totality of balanced interests of the individual, society and the state. This position is not

¹ Mnatsakanyan Arevik Vasilievna Information security in the Russian Federation: criminal law aspects. Specialty 12.00.08. -

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supported by other researchers who believe that it is not entirely correct to define "security through" "security", since these words are synonyms, and therefore these definitions are tautologies. However, at the same time, A.I.Zemlin believes that the appeal to the concept of "state of security", considers it quite justified, if it is not there, then there is no security. In this sense, we are talking about understanding security in a legal, protective aspect. In turn, I.L. Bachilo points out that the essence of the institution of information security in the information law system is the implementation of legal, organizational, technical measures to ensure the safe state of all components of the information and communication complex of the state, individual organizations and each person. At the same time, this definition again contains an element of tautology; again, the concept of "safety" is defined through the concept of "safe state". These problems are observed in other definitions as well. Also close is the scientific position of A.S. Zharov, who understands by information security a set of public relations that develop in the process of protecting its constitutional rights and freedoms from internal and external threats in the information sphere. At the same time, it should be pointed out that an important sign of information security is its dynamism, since it, in a broad sense, is the provision of stability and development of the information sphere, which is constantly changing due to the diversity of the needs of participants in information relations. In connection with the latter, we note that, although most of the above definitions fix important, constitutive features of information security, they consider it as a stable, unchanging phenomenon: "state of security", "ability to protect", "security", etc. Thus, to concretize the concept of "information security", it is fundamental to define the state of security as a set of "conditions for the existence of a subject ... the subject's ability to control certain conditions of activity, to monitor conditions, ... the subject's ability to exert a decisive influence on them, a decisive influence, to exercise real dominance, actual domination, power over him. This definition provides grounds for a preliminary consideration of information security precisely as a certain system of public relations arising from the creation of conditions for the safe life of the state, society and the individual in the information environment².

² Mnatsakanyan Arevik Vasilievna Information security in the Russian Federation: criminal law aspects. Specialty 12.00.08. - criminal law and criminology; penal law. Dissertation for the degree of candidate of legal sciences P.26-27

According to the famous scientist A.N. Asaul: "Information security is the security of information and supporting infrastructure from accidental or deliberate influences of a natural or artificial nature, fraught with damage to the owners or users of information and supporting infrastructure. Information security is not limited to information security alone. The subject of information relations may suffer (incur losses) not only from unauthorized access, but also from a system breakdown that caused an interruption in customer service. Moreover, for many open organizations (for example, educational ones); the actual protection of information is not in the first place³".

"Information security (IS) is the state of an information system in which it is least susceptible to interference and damage from third parties. Data security also implies the management of risks that are associated with the disclosure of information or the impact on hardware and software protection modules⁴". According to another web resource: "The information security of an enterprise or company is understood as a set of organizational and technical measures aimed at preserving and protecting information and its key elements, as well as equipment and systems that are used to work with information, store it and transmission. This complex includes technologies, standards and methods of information management that ensure its effective protection. Information security helps to protect the information and information infrastructure of an enterprise from negative impacts. Such impacts can be accidental or deliberate, internal or external. The result of such interventions may be the loss of important information, its unauthorized modification or use by third parties. Therefore, information security is an important aspect of protecting your business and ensuring its continuity⁵". Based on the foregoing, we can come to the conclusion that information security is that status or state of a state, society or an individual, in which all the necessary conditions for the full, safe functioning of information systems are created, as well as there is an updated and sufficient degree of protection from external encroachments aimed at unauthorized receipt (interception), change (modification) and information carriers.

In our opinion, awareness of the very essence and classification of these types of control allows, first of all, to have a broader understanding of these forms

³ Asaul, A. N, Organization of entrepreneurial activity: textbook / A. N. Asaul. - SPb. : ANO IPEV, 2009.336s (<http://lib.usue.ru/resource/free/13/e263.pdf>)

⁴ <https://searchinform.ru/informatsionnaya-bezopasnost/>

⁵ <https://www.smart-soft.ru/blog/informatsionnaya-bezopasnost/>



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of response, thereby taking appropriate measures to combat unwanted activities, and secondly, allows you to focus on more important problems, prioritize tasks and relieves workers in this industry from unnecessary work

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