

## Analysis of methods and models for assessing the consequences of the loss information with limited access, its value and aging

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The question of determining the negative consequences of the leakage of information with limited access (IwLA) for a person, society or the state always arises when establishing disciplinary, administrative and criminal liability for the fact of violation of the legislation that provides for its protection. The application of criminal charges and penalties for leaking IwLA depends on its type (confidential, official, secret) in relation to which such a violation occurred. But when resolving a legal dispute, the issue of determining the type of (moral, material, etc.) damage and, especially, the amount of damage (damage) or other serious consequences to a person, society or the state caused by such as leak of information with limited access, appears to be fairly fair, for application of an equivalent with t of compensation for these consequences. Therefore, the task of developing methodology, system methods, methods and models for assessing the negative consequences of leaking IwLA, its value and aging is urgent.

The *purpose of the work is* to research the existing methods and models for determining (evaluating) the negative consequences of the leakage of IwLA and its value according to such criteria as: 1) by type of personal data: confidential or personal data / official / secret; 2) in violation of the main properties of information security: confidentiality / integrity / availability; 3) according to the availability of damage assessment scales: linguistic / point / monetary; 4) by classification of the type of violation: disclosure / loss / leakage of information; 5) by determining the value / aging of information; 6) by place of information processing: system (ICS, CSPI) / institution (SE or PE, SRSA, OCI); 7) according to the presence of a classification of importance levels; 8) by quantitative / qualitative characteristics; 9) taking into account the requirements of domestic / international legislation.

In the table 1 provides a brief comparative analysis of the existing domestic methods and models for assessing the negative consequences of the leakage of IwLA, its value and aging [1-13] with regard to taking into account the list of the above-mentioned criteria 1)-9).

Table 1

<i>Criteria →</i>	Analysis of methods and models								
<i>Methods and models in works ↓</i>	1)	2)	3)	4)	5)	6)	7)	8)	9)
O.Arkhypov, et al. [1-3]	+/-/ +	+/- /-	+/-/ +	+/-/ +	+/ +	- /+	+	+/ +	- +
O. Korchenko [4, 5], Yu. Dreis [6, 7]	+/-/ +	+/-/ +	+/-/ +	+/-/ +	- /+	+/ +	+	+/ +	+/ -
O. Boichenko, et al. [8, 9]	+/-/ +	-/-/ -	+/ +	-/-/ -	+/ -	- /+	+	+/ +	+/ -

V. Shulha, et al. [10]	+/- /-	+/- /-	+/+/ +	- /+/+	+/ -	+/ +	+	+/ +	- +
V. Zaiats, et al. [11], B. Moroz, et al. [12]	-/-/ -	-/-/ -	+/- /-	-/-/ -	+/ +	+/ -	-	+/ +	- /-
L. Skachek [13], M. Losev [14]	-/-/ -	-/-/ -	- /+/-	-/-/ -	+/ +	+/ -	-	+/ -	- /+
other [15]	-/ /+	-/-/ -	- /+/+	-/-/ -	- /-	- /+	+	+/ +	+/ -

*Conclusion.* The analysis showed that currently there is no universal method or model that would fully take into account all the criteria by which they were compared, and therefore has further perspective and scientific innovation in the development of new methods and models, improvement of existing ones and their further development.

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