

## ASPECTS OF INFORMATION SECURITY IN THE MANAGEMENT OF ORGANIZATIONS

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*Abstract: The information market sells to the world products, service but also information, innovation, management, culture, advance technology, products for the computer, education, instruction, medical care and financial services. Economy has become an economy of information, and the decision depends totally of it, creating the premises of the immaterial society. The age of human monitoring and humanity has started. Globalization and Internet, space technology and other things, lead to a surveillance of everything that moves in the world. Who will be capable to make the electronic surveillance and also to take advantage of the results will win the informational war, which, has started already.*

*Key words: Internet, space technology, Information security, information war, management*

### 1. Introduction

Alvin Toffler was saying that in the 90's, couple of intellectuals, military and citizens were starting strongly to believe in the idea that by knowledge the wars may be prevented or won.

Paul Strassman, chehian information's scientist – a truly source of information about the information technology (computer types, connections, softwares, etc.) was concerned by the economy and the security of the informations. He was saying that: *The history of the war is a history of the doctrine. We have a doctrine for attack, one for air-land fight, one for landing on the beaches, etc. What is missing is a doctrine of information's.*

In 1993 Strassman was named teacher of Information management in the Military Academy of the U.S.A from West-Point. At the same time, the university of National defense from Fort McNair, Washington, developed the first course of War Information.

In the National Defense Secretary's office of the U.S.A it exists a unity called "Net evaluation", of which job is to calculate the military power of the opponent forces. This unity showed a real interest in the war information and what it can be called info-doctrine.

As a reaction on the wars in Golf, Kosovo and Irak other armies are interested in the information doctrine even if only in terms of defending from an informational superior U.S.A.

The biggest part from this information doctrine refers only to the details of the electronic war.

Duane Andrews, the Pentagon Strassman's chief underlined the difference between the electronic war and the information doctrine, defining the information as a "strategic patrimonium".

This means that is not just a problem of information on the battle filed or strikes on the communication lines or on the enemy radars, but is also a powerful fact capable to modify the highly rang decisions of the enemy.

Andrews defines a new concept, which is a war of knowledge where each side is trying to copy the actions of the enemies by manipulating the information.

Another new concept that Toffler is writing about is “War of order and control”. The office of the Great Chiefs Associates of the U.S.A. defines the order and control like a system through which the commanders make the order and the control.

The war of Order and Control defined in a document released by the office up mentioned, it represents the using of the security of the operations, faked the military operations, psychological operations, the electronic war and the physical destructions, to block the information for influencing, degrading, or destroying the capacities of order and control of the enemy, also protecting the own and allied ones.

The same author is saying that this document mentions the fact that the war of order and control offers to the commander the potential of a “Knockout” strike even before the classic hostilities start.

## **2. Management and information**

Informational performance is the essence of the management process. Less time of investigation is growing the informational performance, also making easy, some new methods and offering new possibilities of analyzing the information, more synthetic and more fast, uniting the difficult ways with the managers dexterity.

Management reveals the newest ways of organizing and treating the information, showing the necessity of changing the actual way of acting and thinking. This new way of thinking and acting will be the expression of a new spirit behavior and new work places.

Information management in the future organization is based on few fundamental considerations which is:

1. Information is valuable:
  - The value that helps knowing what can be revealed in the exterior;
  - Information value that is missing for making the decision;
  - Financial cost that we are paying for getting the information;
  - Lose of time for getting the information, which is also the result of an action that takes time.
2. Information must develop in a collective culture through:
  - Dividing the ways between internal and external medium;
  - Transforming the information in knowledge and coming with new details can be reached to understanding and anticipation;
  - Operating of information gathered from different ways, because the possibilities of a single person are limited.
3. Information is a primary material:
  - Added value results only by its exploitation and can be measured only when it exists a real need.
  - It needs a continue process of improvement with each technological round;

- It makes a specific professional frame with own and specialized ways. Information is a primary material which does not takes shape of a product, after has been modified after the consumer needs.
4. Information is a way of action for:
    - Influencing the motivation inside the organization;
    - Ameliorating, in the exterior, the factors that make the organization work;
    - Answering to different interventions came from the exterior.
  5. Information needs using a analyzing program:
    - Using the theory of the economical agents, may be identified the threats and the opportunities from the forces report;
    - The cultures are analyzed comparatively, each information is put in its context;
    - Using the general theory of the systems, each component may be studied and also the difference between them;
    - Using the strategic analyses it's admitted a multidimensional global vision.
  6. The changing in every firm must be insured by a management which:
    - Gather the people round the individual and collective connections of information;
    - Develops functional structures for the optimization of the operational activities;
    - It organizes informatics structures for collecting, treating and revealing the information.
  7. Changing in every organization must be started with the conception and function of a informatics system based on modern individual ways and collective ways like the informatics connections for gathering, working and revealing the information as the consumers wish and for a counseling between the individual vision and the organization needs.

We can affirm that at the beginning of the third millennium information, the way of transmitting and the ultra improved instruments of collecting, working and transmitting have known a huge increase with a large application in every domain.

The decisional processes present today, works today with a 3 hundred times more information then 30 years ago, and in the last 10 years the information from an organization grows with 10% every year.

The information became in the present a high prize for the organizations because the information volume it doubles every 4 years.

Today, in the first 100 companies in the world, a worker out of 4 works daily on the computer and in 10 years time will be 3 out of 4.

The information market sells to the world products, service but also information, innovation, management, culture, advance technology, products for the computer, education, instruction, medical care and financial services.

Economy has become an economy of information, and the decision depends totally of it, creating the premises of the immaterial society.

It may be created a hierarchy of the tips of information in which the decision information is in the top of the pyramid, based on the structure and method information.

Method information allows daily function organization of the distribution and fabrication system. After the great strategies orientation has been settled, structure information is the active memories which will material formalize and organize the predefined strategic orientation. The structure information depends on the quickness of the dexterity won and transmitted by the qualified person.

The decision information is refueled from the fluxes which come from the base of the pyramid which send informational and productive waves to be followed.

Contrary to other types of information for which the incertitude part can be reduced due to their obeying to some general orientation, decision information is based on, basically, on unsure dates caused of their exteriority.

Incertain it can be found in the most times in the decision information, so at the highest level of the hierarchy firm, where the incertain reduce it is the most felled.

Information makes the decedent interested when it serves as a point of help in the decision process.

Decisional information is selected by their value. The value of a information depends on:

- The capacity of contributing to reduce the incertain in the future;
- It's capacity of influencing the decision and its consequences.

The information biome – the decision becomes an infernal couple which organizes the successes and dramatic situations on the financial, industrial, military and politic market.

### **3. Insecurity in the Internet**

Insecurity in the internet comes as a result of more factors such as:

- Lack of education;
- Internet structure;
- Advanced information flowing;
- Human nature.

A very important factor referring to the security of the information from the military domain is made by the programators attitude, vis-à-vis of the concept of “security” through “obscurity”. This concept is made by a series of principles, like:

- “shut up and everything is going to be just fine”
- “hide and they probably wont find you”
- “technology is very complex. You're safe.”

This can be translated in “ignoring, unknowing the errors or the security algorithms which generates them, in hoping that they wont be discovered, or if is somebody who discovered them, wont take advantage of them”.

The hacker attacks against military sites have in sight information of the guns and supercomputers, logistic, finance, personal, healthy, bill payments, communications in war times.

#### 4. Cyberterrorism strikes

If military speaking, U.S.A have no rival, a country from the third world may become a real threat for the informational infrastructure of America. Using the tools we speak before and some really fast connections, a country like this can jump, with low costs, in a war with the United States. In fact, is probable that, in the next few years to confront with cyberterrorism strikes.

For insuring the information security, intercepting and control connections have been created.

After the “cold war” finished, this connection have not been removed, but put to new objectives. Glynn Ford, worker in the European Parliament, declares that over 2 millions phone calls are traced per minute.

International fluxes in the organizations, specially the military ones, must be heavily checked, so that other organizations not to have access at the information at the previous organization. In this way, exists “informational terminals” (relation with the public) that’s sort the information to which may have access other organization then the military one.

We may strongly affirm that the Romanian military organization must obey the rules of the informational systems. We consider it is necessary in the military superior school to be courses of Information Management and Information of the war, absolutely necessary to can adapt on the rules of the new types of war, which is possible to meet in the close future.

#### 6. Concluzii

The age of human monitoring and humanity has started. Globalization and Internet, space technology and other things, lead to a surveillance of everything that moves in the world. Who will be capable to make the electronic surveillance and also to take advantage of the results will win the informational war, which, has started already.

The people and governments, firms and embassies, VIP’s and small criminal, military organizations – nothing and nobody wont be able to hide “ not even in the snake mouth”, like is written in the Holy Book that will be when the Judgement day comes.

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