ELECTRONIC WARFARE - LESSONS LEARNED FROM RUSSIA'S ATTACK ON UKRAINE

Captain (N) (ret.) Professor Sorin TOPOR, Ph.D*

Abstract: Hybrid conflicts are becoming more frequent and surprising. It is increasingly difficult to try to do a forecast for future military operations. Analysing the beginning of Russia's special military operation, at one year, we can see that, from one stage to another, the strategies, forms and action methods are extremely diversified by introducing new technologies and tactics. In this paper we intend to establish the place and role of the electronic warfare in this conflict and to establish some landmarks for the reform of the conception of development of the electronic warfare in the Romanian Army.

Keywords: Electronic warfare, war in Ukraine, Russia's special military operation.

Introduction

One year after the debut of Russia's special military operation on Ukraine we intend to analyse the place and role of electronic warfare within the Hybrid War conception carried out by Russia on Ukraine. The results obtained are landmarks for the modernization of forces and for the estimation of hypothetical models for defense of our country.

As it is known, Russia has always attached great importance to electronic warfare. In his approaches about the "war of the new generation" the electronic war is characterized by a series of new systems and innovative tactics, in close relationship with the development of UAV systems, massed fires with advanced warheads and sub-munitions, reform of the major tactical units in combat groups, mobile and combined, such as mobile brigades of combined weapons, air assault and special operations brigades, mobile and advanced anti-aircraft defense units etc. A combat team is capable to conduct of decisive action in combined operations, with kinetic and cyber strokes.

Until the outbreak of special military operation, Russia has developed sophisticated electronic warfare elements that integrate

^{*} National Institute for Research and Development in Informatics - ICI Bucharest, associate member of the Academy of Romanian Scientists, sorin.topor@ici.ro