COMPUTER-AIDED TOOLS FOR SYSTEM ANALYSIS OF NLW DEVELOPMENT AND DEPLOYMENT

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Introduction

Now the NLW effectiveness doesn't have some formal mathematical interpretation and even there is no scientific approach to the problem. The "non-lethal-weapon" definition itself (for example, NATO definition) contains a number of conditionalities. The main conditionality is the concept of "minimum possible" harm/damage/risk. The problem is in two words: " minimum" and "possible". The word "minimum" implies that the arsenal of law-reinforcement or peace-keeping troops has a wide spectrum of technologies with different level of impact intensity or dosage, and in some particular case one selects the necessary and sufficient one. The word "possible" describes the stochastic character of target effects. Thus one should have a capability to assess the degree of risk of negative outcome.

When developing NLW technologies, as well as scenarios of deployment, one should be based not on the words like "minimal possible", but on some real values. The development of software for system analysis of the NLW effectiveness is apparently the most effective approach.