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“Adapting C2 to the 21st Century”

Title of Paper:

Applying a Decision Making Maturity Model (DM3) to Evaluate and Enhance the Design of C2 Systems

Topics:

Track 2: Networks and Networking
Track 6: C2 Metrics and Assessment
Track 8: C2 Technologies and Systems

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ABSTRACT

Command and control systems are designed to provide countless types of information in numerous forms and for a large number of users. These facts, while obvious, are also the key reasons why there is such a diverse set of ways to design, use and evaluate C2 systems. Today, new technologies and software systems are again raising questions on how to design C2 Systems and share information on the digital battlefield. One response resulted in the introduction of a Service Oriented Architecture(SOA). While this increased the flexibility and interoperability of information, it still raises the question of how to select the SOA and evaluate the C2 systems. Additionally, the ability to evaluate the algorithms, software and other services used in the C2 systems is even more complex as they take every shape and form of information imaginable. This paper will present the Decision Making Maturity Model (DM3) which uses a universal metric essential to decision making for evaluating the operational effectiveness of SOA's, C2 systems and for designing C2 systems. The DM3 provides a universal scale which is also directly relevant to decision making and provides a consistent process for evaluating, improving and designing C2 Systems and the accompanying SOAs.