

**12<sup>th</sup> ICCRTS  
“Adapting C2 to the 21<sup>st</sup> Century”**

**Title of Paper:  
Mapping Network Centric Operational Architectures to C2 and Software  
Architectures**

**Topics  
C2 Technologies and Systems; C2 Metrics and Assessment; C2 Concepts, Theory,  
and Policy**

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**Abstract**

We are interested in mapping Operational Architectures to Command and Control and Software Architectures. In his poignant paper, Dekker<sup>1</sup> proposed a “Taxonomy of Architectures” which provides an interesting spectrum of network centric operational configurations. The goal of this paper is to answer the following question: given the variety of architecture models presented by Dekker, what command and control model is appropriate for each, and what software architecture is appropriate for each? In particular, this research will examine if the German control free model applies to all of the different operational architectures and whether or not the service oriented architecture is the appropriate software architecture solution for each of the models.

**References**

1. Dekker, Tony: “A Taxonomy of Network Centric Warfare Architectures”, Defence Science & Technology Organization, DSTO Fern Hill , Department of Defence, Canberra ACT 2600, Australia, Email: tony.dekker@dsto.defence.gov.