

12<sup>th</sup> ICCRTS  
Adapting C2 to the 21<sup>st</sup> Century  
Effects Based Assessment: Near-Real time insight into Combat Objectives  
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Our research relates near-real time mission information, obtained from data links and other sources, to the strategy-to-task associations. Although far short of an actual assessment, it is possible to provide near real-time insight into the status of combat objectives by inferring the status of missions and targets during execution. We have developed a graphic user interface, with guidance from operators at the 505<sup>th</sup> AF and the C2 Battle Lab, which displays and updates the status of the combat objectives during mission execution. Interfaces to FalconView and Google Earth are used to plot assets on a map along with their mission status and Air Tasking Order call sign. The proof-of-concept prototype also provides a dynamic query capability that lets users generate ad hoc queries during mission execution. By inferring the status of missions during execution, and relating that information to the strategy-to-task associations, it is possible to significantly shorten the turn-around time of the current assessment cycle, although the savings in time are acquired at the expense of certitude as compared to a formal assessment. Implementing Effects Based Operations requires that we answer two key questions, have we met our combat objectives and, if so, has it had the desired effect? Our goal in this research is to make progress towards the former question by prototyping an Effects Based Assessment capability.