



Application of UWB and MIMO Wireless Technologies to Tactical Networks in Austere Environments

Michael F. Kutsor

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This thesis explores the utilization of several different types of wireless penetration technologies as an effective means to counter the extreme RF propagation conditions in austere environments. By extending the range and enhancing the available bandwidth at the edge of a tactical network, the warfighter's technological capabilities become enhanced to meet the demand of the information age. Since the concern is adapting technologies to conquer the rigors of an austere environment, this thesis predominantly evaluates UWB and MIMO technologies at the physical and data link layers by researching both employment capabilities into a tactical network and developing data for analysis through various simulations in these types of conditions. This thesis addresses several of the major challenges and requirements confronting a commander employing a tactical network in this type of environment. Focus of study is directed on the background of UWB and MIMO technologies and how their characteristics will address these challenges and requirements. This thesis provides specific recommendations for using either the UWB or MIMO technology to counter the effects of radio propagation in an austere environment. The ultimate objective is to analyze constraints associated with radio technologies in an austere environment and develop an integration scheme to expand the tactical network. By capturing data of both capabilities through comparative analysis, modeling and simulation, this thesis provides the Department of Defense (DoD) a framework to better understand the effects a triple canopy environment has on radio technologies and aid in the pursuit of a viable solution for extending the tactical network in support of the warfighter during this information age.

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