



# **Tactical Wireless Networking In Coalition Environments: Implementing an IEEE 802.20 Wireless End-User Network utilizing FLASH- OFDM to Provide a Secure Mobile Extension to Existing WAN**

*William J. Parish, Daniel R. Tovar*

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This thesis will focus on the area of 802.20 wireless networking as a feasible “last mile” solution to wireless access in a tactical coalition environment and will be implemented into a series of experiments.

Implementation will primarily utilize Flarion’s FLASH OFDM (Fast, Low-Latency Access with Seamless Handoff Orthogonal Frequency Division Multiplexing). Current and future military and homeland security forces, conducting operations in a tactical environment, require instant access to data. Wireless data requires a reliable air-link resource anchored to a viable service platform. Flarion’s FLASH-OFDM wireless air-link mimics the performance of a high-speed wireline environment. Through Flarion’s Radio Router base station and mobile data terminal, a Radio Access Network is created. It connects directly to a standard IP Packet Data Network forming a wireless data network. Utilizing this network environment, this thesis intends to document the implementation of a limited objective experiment (LOE) in support of homeland security and the War on Terrorism (WOT); specifically, the testing of an IEEE 802.20 network enabling US and key foreign partners to integrate mobile wireless local area network (WLAN) technologies into a surveillance and target acquisition network program.

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