

# Control Based Mobile Ad Hoc Networking for Survivable, Dynamic, Mobile Special Operation Force Communications

Marlon McBride, Mustafa Masacioglu



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In the next generation of wireless communication systems, there will be a need for the rapid deployment of independent mobile users. Significant examples include establishing survivable, efficient, dynamic mobile communication for tactical Special Operation Force (SOF) networks, as well as SOF units that are ad hoc networking with first responders conducting emergency/rescue and disaster relief operations. Such network scenarios cannot rely on centralized and organized connectivity, and should instead employ applications of newly developing Control Based Mobile Ad Hoc Networking (CBMANET). In a CBMANET environment, an autonomous collection of mobile users communicate over relatively bandwidth constrained wireless links by taking benefit of nodes mobility and topology control in combination with mobile platform switching. The network is decentralized. All network activity, including discovering the topology and delivering messages, must be executed by the nodes themselves (i.e., routing functionality will be incorporated into mobile nodes). Harnessing the tremendous flexibility and efficiency of CBMANET would allow for better control and protection of ad hoc mobile networks. Therefore, we need to work tirelessly to improve our capabilities in the three aforementioned control spaces.



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