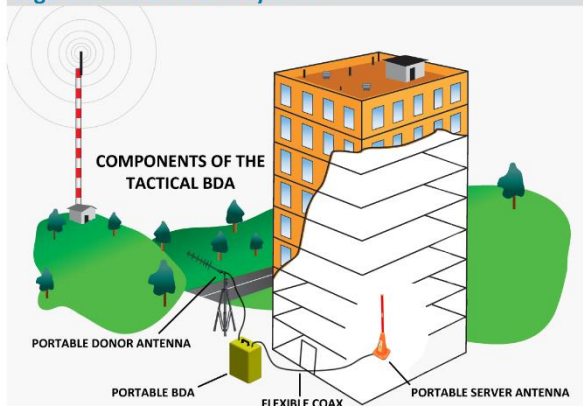


Tactical BDA Systems

Wherever an infrastructure BDA is not installed, or the infrastructure system has been compromised by fire, explosion, or other emergency event, the *tactical BDA* is an effective tool for achieving in-building coverage (**figure 5.X**). In a typical fire rescue or radio cache scenario, the tactical BDA system is delivered to the incident scene via a communications or battalion chief's vehicle. Upon arrival, the man-portable system, comprising the antennas, cables, and portable amplifier in a neatly organized kit, is deployed in a few minutes by a single, non-specialist operator.

Figure 5.X Tactical BDA System



Running on battery power alone for many hours, the tactical BDA will convey all the in-street radio system functions into the building. Locations such as “big box” stores (250k square foot), schools, malls, factories, underground parking garages, tunnels, train platforms, and ships typically exhibit coverage deficits that are effectively solved with the tactical BDA. While the tactical system may not provide simultaneous coverage over an entire high-rise building, selective placement of the portable server antenna delivers coverage to a prioritized sub-area. In cases where the required

coverage area exceeds the single system range, multiple tactical BDA systems may be concurrently deployed thus expanding the coverage as required. In special event scenarios such as conventions, spectator gatherings, etc., the non-emergency timeframe allows for deployment optimizations including the use of additional server antennas.

When not in use, the tactical BDA system is simply connected to line or vehicle power to recharge. Modular battery packs that may be hot swapped thereby allowing uninterrupted operation for arbitrarily long periods are advantageous. Network management functionality that allows a supervisor to monitor and control all aspects of the system such as RF performance, battery/power status, etc. via WiFi, mobile broadband, or other network connection is expedient.

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