



ACTD & Urban Technology Office Pathfinder ACTD

The Pathfinder ACTD is integrating a modular system consisting of unmanned sensors, unmanned aerial and ground platforms, display components and high-bandwidth wireless networks for real-time reconnaissance and surveillance.

Why is Pathfinder ACTD Needed?

Currently, data from unmanned sensors employed at brigade and below go only to the Soldier who is employing that particular sensor. From there, time and effort is spent preparing the data for transmission to higher echelons. The Pathfinder System integrates proven off-the-shelf sensors with unmanned platforms and a wireless network for shared access to the raw data.



Technology:

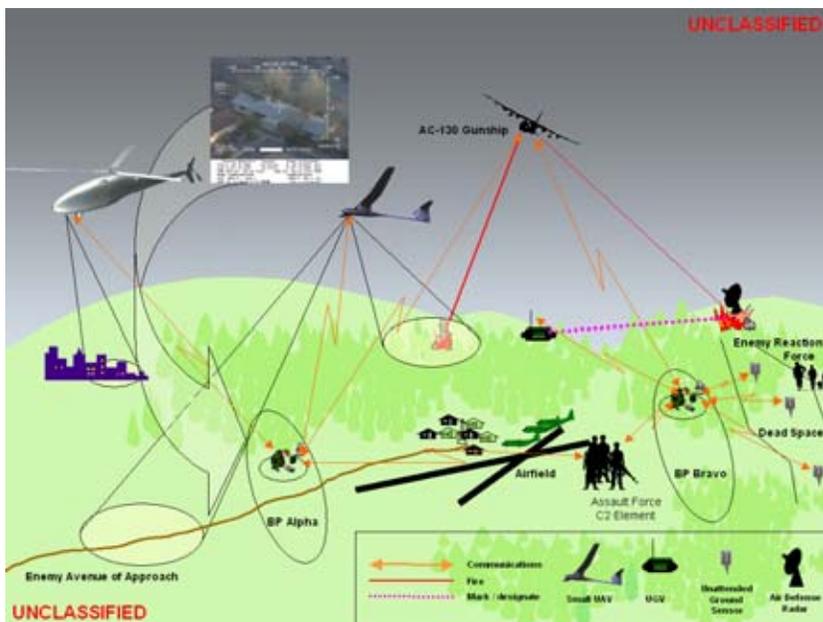
The system consists of: Pointer and Pathfinder Raven small unmanned air vehicles, Talon unmanned ground vehicle, sensors (visual, seismic, targeting, and acoustic), BreadCrumb and SuperCrumb hardened IEEE 802.11b network nodes, hardened laptops and hardened handheld computers.

Benefits:

The integrated system will enhance reconnaissance and surveillance operations. The system, or elements of the system, can be employed to support route reconnaissance, intelligence preparation of the battlefield, battle damage assessment, direct action, force protection, convoy protection, obstacle detection, surveillance, special reconnaissance, dismounted patrol and targeting for precision and indirect fire munitions. Portions of the system are currently deployed and proving their military utility in combat operations. The Pathfinder System has the potential to save lives and provide force multiplication through greatly enhanced situational understanding.

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