



ANCILE: Dismounted Strike Warning and Position Tracking

Approved for Public Release

What is ANCILE?

Note: Ancile is not an acronym but rather a name taken from the mythological shield and talisman of power to protect the Roman Army

Novel technology combination and architecture integration

- Capability:
 - Warns dismounted soldiers about incoming indirect fires
 - Same device can report dismounted locations to "Blue Force" C2 systems



- Pager-sized device

- Simple Operation

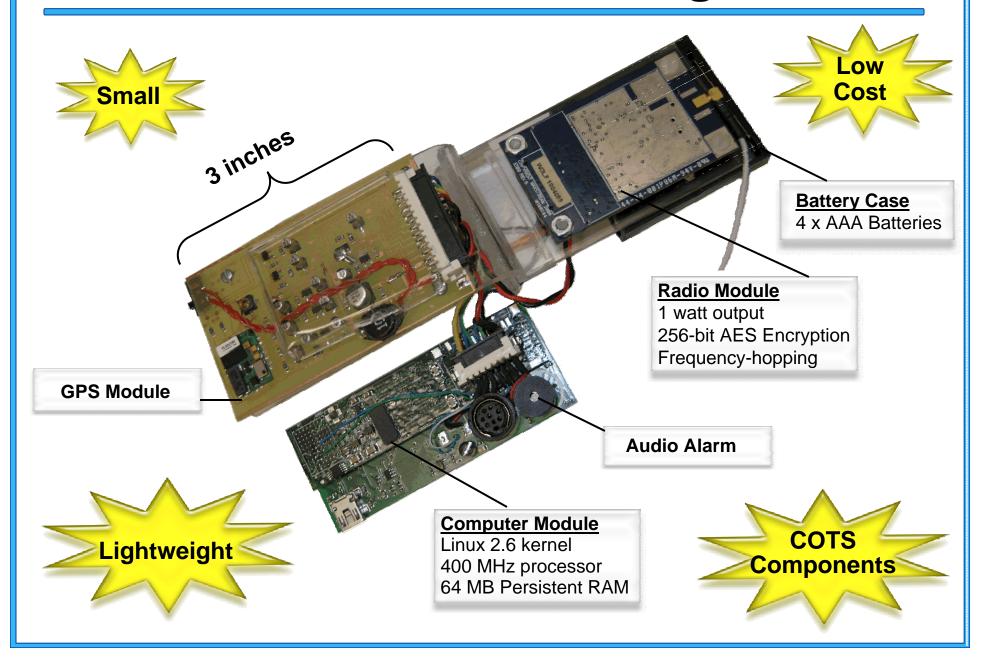
- Less than one pound

4 Patents and 4 PCTs Pending

~3 Year Collaborative Effort between PEO C3T & USMA

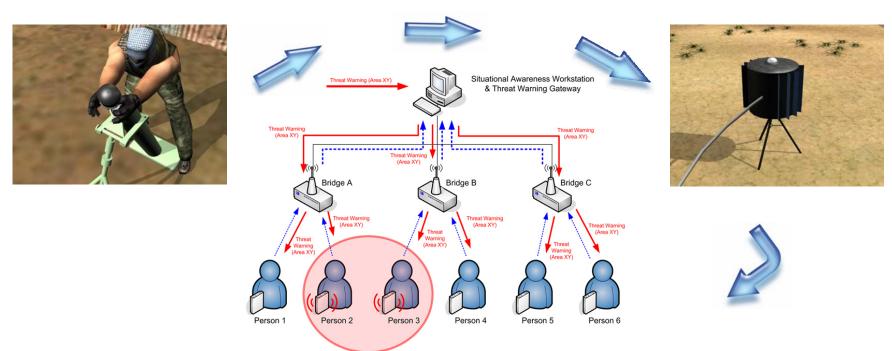
Strike warning and position tracking for dismounted soldiers

Inside the ANCILE Pager



How Does ANCILE Work?

- 1. Enemy forces launch mortar rounds against a friendly patrol.
- 2. Counter-battery systems, like FireFinder and LCMR, detect the rounds and generate a warning message.



4. Ancile pagers in the predicted danger zone alert the soldiers well before the rounds hit them.



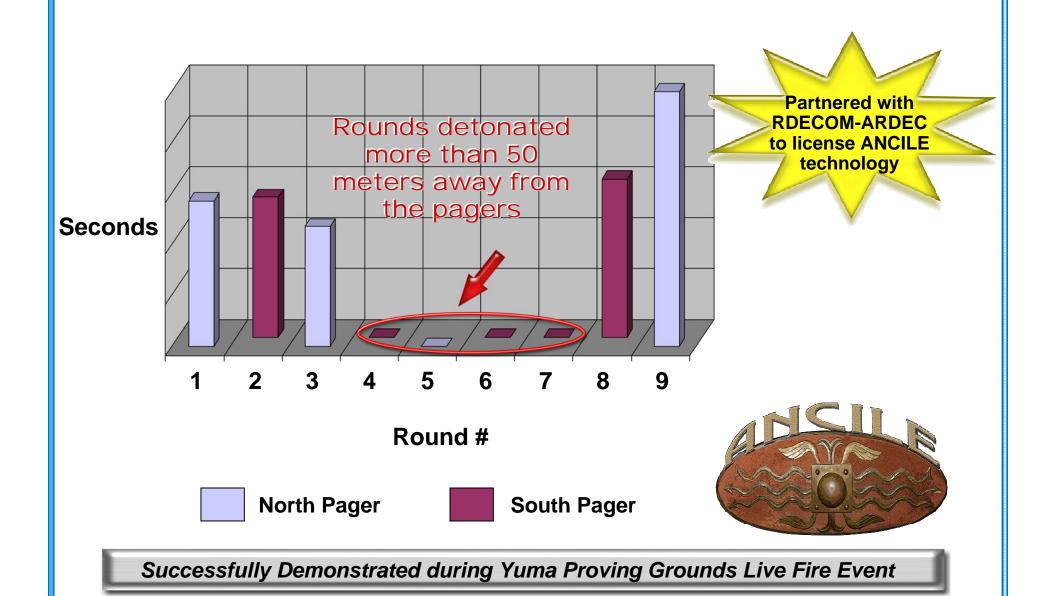




3. A small bridge device on the tactical net receives the warning message and relays it to the Ancile pagers.

^{*} Same Comms and GPS mechanisms can be used in reverse for "Blue Force" Position Reporting

ANCILE Pager Warning Times



Points of Contact



United States Military Academy

- LTC Fernando Maymi, 845-938-5574, <u>Fernando.Maymi@usma.edu</u>
- LTC Ronald Dodge, 845-938-5569, Ronald.Dodge@usma.edu



Project Manager Battle Command

- Paul Manz, 732-532-6580, Paul.Manz@us.army.mil
- Julie Pham, 732-427-5501, <u>Julie.Pham@us.army.mil</u>



RDECOM-ARDEC (ANCILE Technology Licensing)

- Tim Ryan, 973-724-7953, <u>Timothy.S.Ryan@us.army.mil</u>
- Bob Donnelly, 973-724-2871, Robert.Donnelly3@us.army.mil

www.ANCILE.net