DARPA SHARE Program

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What is This?

- A solicitation from DARPA – U.S. Defense Advanced Research Projects Agency
- A “Broad Agency Announcement”, which is a non-secret, open request for proposals
- You can find it at https://www.fbo.gov/utils/view?id=a4742ef6ea3acce9ab33592a85bcf682
What is it about?

Secure Handhelds on Assured Resilient Networks at the Tactical Edge

Let’s unpack this:

- Multi-level secure system for in-field deployment
- Tactical (i.e. battlefield) networks with radios
- Major improvement over existing systems in resilient operation
- Field-testable system, not a research prototype
- DARPA thinks ICN may be just the ticket for this
Some administrivia

*Caveat: don’t take my word for all of this – I may have some of it wrong*

- Proposal deadline was March 15
- Budget about ~$30M over three years
- Speculation: fund 2 proposals @~$15M each
- Received at least 9 proposals
What might be interesting about this for ICNRG

- How do you do multi-level secure group keying with ICN data-centric approach?
- How do you get differentiated service which captures information importance and request importance?
  - And map it to both transmission and caching?
- How do you get strong DTN properties using ICN protocols?
- How do you deal with mobility across both mesh tactical radios and COTS LTE-style radios with satellite uplinks?
You may have questions...but I probably don’t have answers.