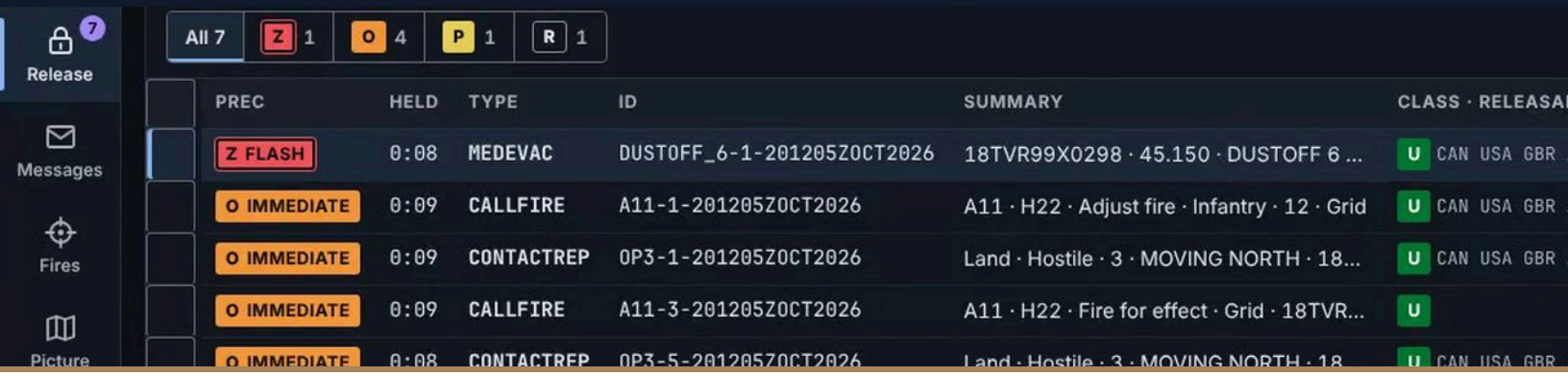
Arta Cyber Inc.

Research and development

Arta Triad

A bilingual messaging gateway that turns field reports into validated command and control messages and delivers them over slow, unreliable radio links.

Laboratory prototype (TRL 4)



The problem

Operators still re-key spoken and typed reports into formatted messages by hand. Standard message formats are often too large for the radio links that have to carry them, and errors are caught late, if at all.

What Triad does

- Accepts free-text reports in English or French.
- Checks each message against the message standard before it can leave.
- Holds every message for a person to review and release.
- Delivers it in a format each radio link can carry, with urgent traffic first.
- Keeps working when a link degrades or drops.
- Combines what it receives into one shared picture, without duplicates.

Built for operational use

Bilingual operator screens, an offline map, protected radio traffic and standard monitoring.

Status

Developed for a Canadian defence innovation challenge (IDEaS). Validated end to end in the laboratory on synthetic, unclassified data.

Laboratory results

- All automated tests passing in the recorded run.
- Report extraction accuracy above target in both English and French.
- Urgent messages delivered on time over a degraded HF link.

Working with us

We welcome defence and public safety teams interested in trials, integration or further development.

Arta Cyber Inc. · Ottawa, Ontario, Canada

info@artacyber.com · +1 613 454 8230 · artacyber.com