ENDRUN

SECURE DIGITAL COMMUNICATIONS FOR OUR MODERN DYSTOPIA

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NOTE: DRAFT SLIDES! Please go to http://github.com/granddobbe/endrun for the most up-to-date version.
THE TAKEAWAYS

We're making an end run around the Internet. Because someone has to.
THE TAKEAWAYS

By Any Means Necessary.
THE TAKEAWAYS

Old-School Cellular Communications
THE TAKEAWAYS

Disruption/Delay-Tolerant
THE TAKEAWAYS

Modifiable On the Fly
PREVIOUS WORK

Tor
PREVIOUS WORK

AirChat, by Anonymous
PREVIOUS WORK

Commotion Wireless / Project Byzantium
PREVIOUS WORK

Delay-Tolerant Networking
ROUTING

Spray and Pray Wait
ROUTING
USER SERVICES

Gollum
USER SERVICES

Gollum + Minilock
MESSAGE FORMAT

SQUIRREL
MESSAGE FORMAT

NaCl
MESSAGE FORMAT

NaCl LibSodium
MESSAGE FORMAT

Git Bundles
TRANSPORT

Chain of Custody
CHAIN OF CUSTODY

Receipt Table
CHAIN OF CUSTODY

Map Table
TRANSPORT OPTIONS

Sneakernet
TRANSPORT OPTIONS

XBee
TRANSPORT OPTIONS

Sneakernet+
TRANSPORT OPTIONS

Other Radio?
INTERMEDIATE ROUTING

Route all the things!
COMPLEX DATA PATHWAYS

With our apologies to Mr. Lehrer.
Tom got it from Agnes.
She got it from Jim..
It must have been Louise who gave it to him.
She got it from Harry.
Who got it from Marie.
Everybody knows that Marie got it from Tom.
And so on.
DEMONSTRATION
Sneakernet, Sneakernet+
FUTURE WORK

Long-Distance Debt Systems
FUTURE WORK

Ultra-Large-Scale Surveillance
THANKS

Particularly to Caroline, for letting Grant come