Tux meets Radar O'Reilly

A Linux in Military Telecom Field Guide

Grant Likely
Secret Lab Technologies Ltd.

CELF Embedded Linux Conference
April 8, 2009
San Francisco, CA
Tux meets Radar O'Reilly

- The problem: Reliable Communication
  - Specifically vehicle mounted
- The solution: System Engineering
- How does Open Source fit in?
Customer Requirements

- Lots of services: audio, video, data, etc.
- Lots of bandwidth
- Fault tolerant
- Secure
- Auto configuration
- Simple to use
- Low cost
Vehicle Platform (totally fake)
Deployment (also fake)
The Hardware
System Design Issues
(and how Open Source can help)

- Open Architecture
- Managing Complexity
- Capability and Quality
- Maintenance
- Fault Tolerance
- User Interface
Lessons learned

- Nothing new under the sun...
- Untapped resources available: USE THEM!
- Choose vendors wisely
- Shift of effort