

Civil Air Patrol



The Future of the Communications Program

Mr. Malcolm Kyser
HQ CAP/DOK



Webinar Presenters



John Desmarais
Director of Operations
National Headquarters



Malcolm Kyser
Chief of Communications
National Headquarters



Webinar Rules of Engagement

- **Members in the field will be in listen only mode. We have several hundred members signed up, so having everyone with an open microphone is not supportable.**
- **We will try to answer questions throughout the webinar though. Just type your questions, and we will either answer you directly via text or provide a voice answer to your question.**
- **The webinar itself, questions, and chat log are being recorded, so please remain respectful.**



Purpose

CAPR100-1

1-2. Purpose. The primary purpose of CAP communications is to provide internal communications capabilities; to provide commanders with the means to conduct the missions of CAP both during normal conditions and when commercial infrastructure is unavailable or unsuitable, including commanders in the organizational chain of command, operational mission chains of command and special activities chains of command. The CAP communications system provides a continuity of operations capability when commercial infrastructure fails, such as allowing commanders, at each echelon, the ability to communicate with superior and subordinate commanders. In addition, the CAP communications system may also provide third-party support to “customer” agencies where it does not conflict with the primary purpose. All message traffic must be of, or pertaining to, the business of Civil Air Patrol or its customer agencies.

must be of, or pertaining to, the business of Civil Air Patrol or its customer agencies; to “customer” agencies where it does not conflict with the primary purpose. All message traffic



CAP Tactical Communications

CAP Fixed Repeaters

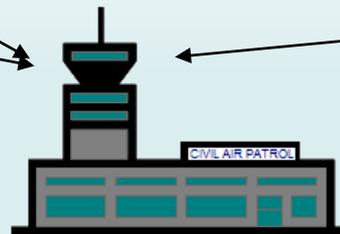


Partner Agency Aircraft

Long Range via HF

Short to Medium Range via VHF

Comm with higher HQ

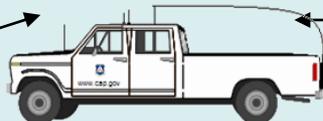


Incident Command Post



CAP Ground

Teams Dismounted



CAP Ground Vehicles



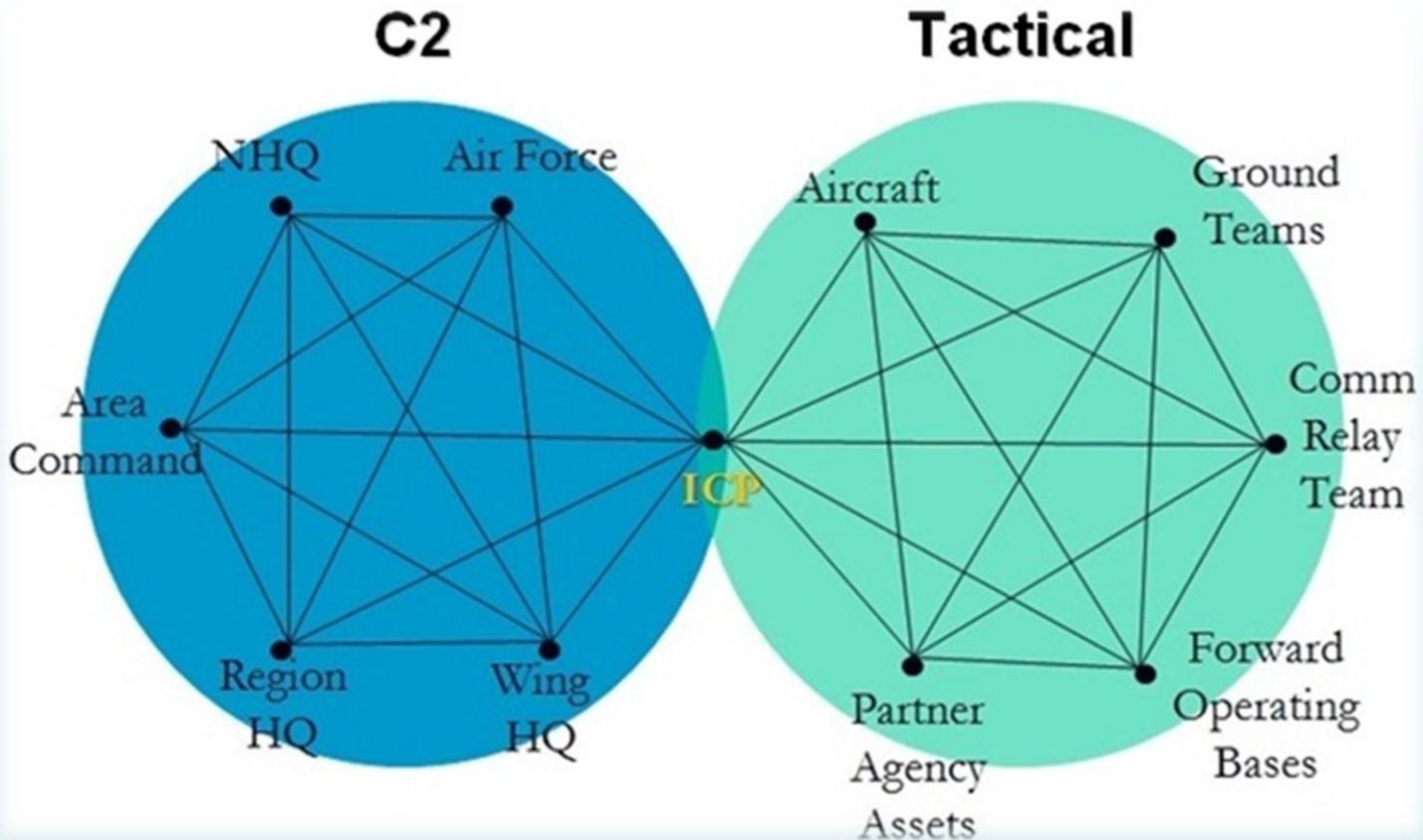
Partner Agency Vehicles

Agile support for SAR, DR, DSCA, HLS ops

- Commercial infrastructure independent
- Analog, digital and encryption capable
- VHF for local (<20 miles)
- Fixed repeaters for medium range (<50 miles)
- Airborne repeaters for temporary medium range (<200 miles)
- HF for long range (unlimited)
- Fully interoperable with all partner agencies

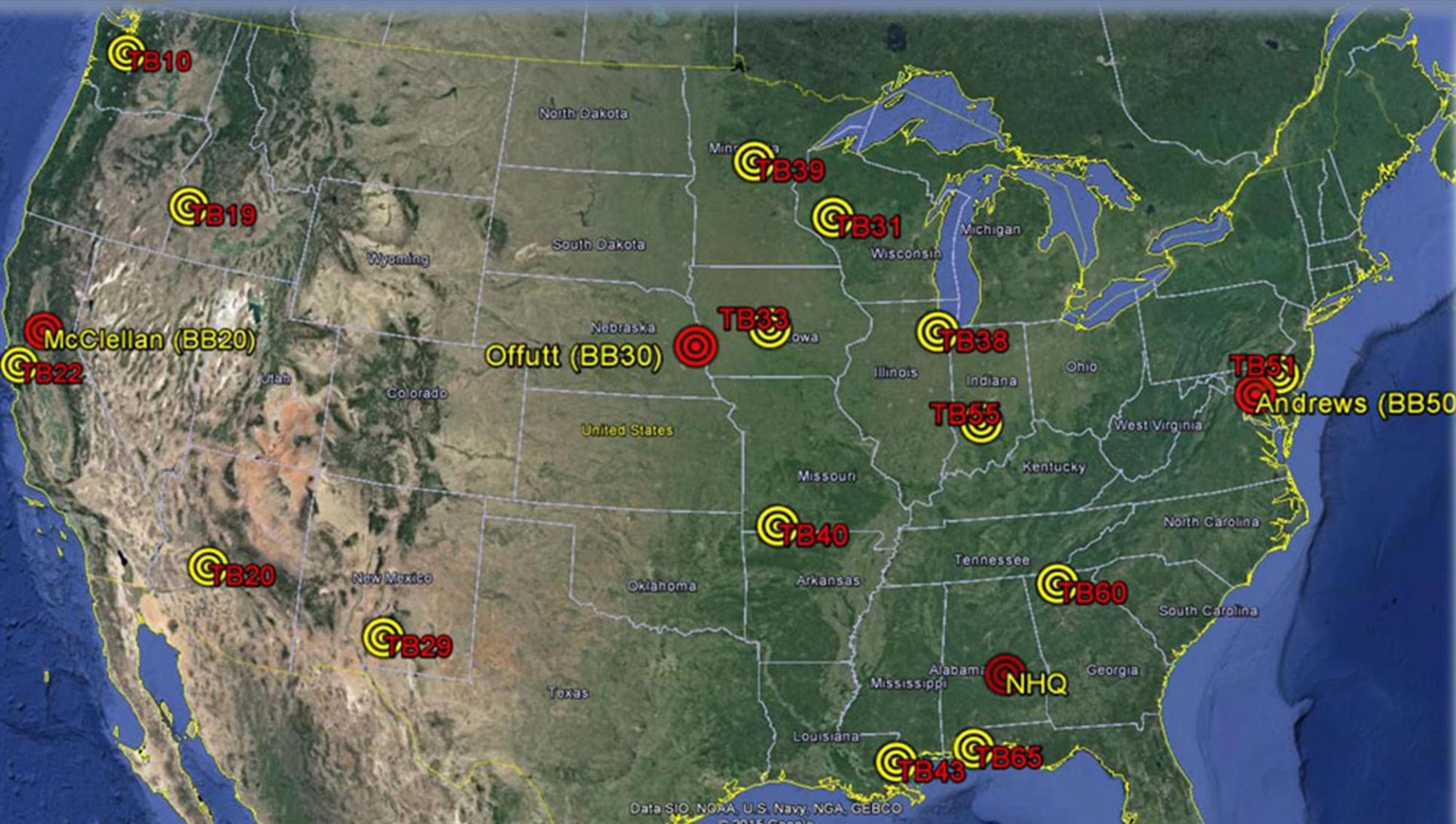


Bigger Picture





Triblade NCS Team





Triblade Net



- All wings participating
- Average daily # 140+





Triblade Net



- CW15 - 170 formal messages, 100% accuracy, average 3 hours
- CAP relayed a urgent test message between two USAF bases in < 4 minutes
- In an actual mission with traffic to and from a single ICP, traffic could move almost as quickly as email





Triblade Net



- US Northern Command / NORAD
- 1st AF / AFNORTH





The Future



Ops – Comm Integration



- One team
- Comm-centric Ops Taskings
- Comm exercises in WMIRS





HF Expansion



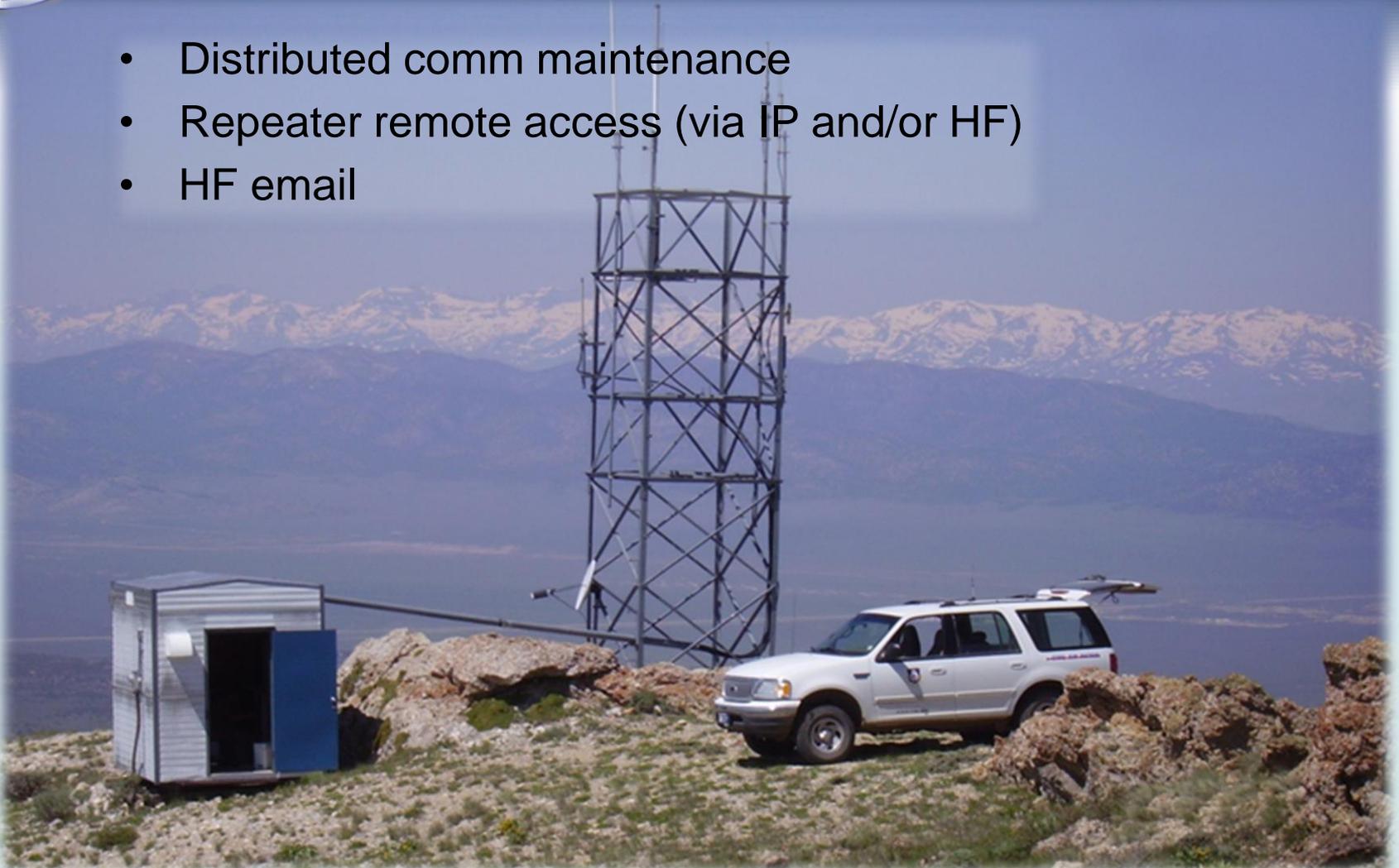
- Wing planning for survivable C2
- Improved expertise in use of HF
- Expanded HF infrastructure
- Expanded HF mobile fleet





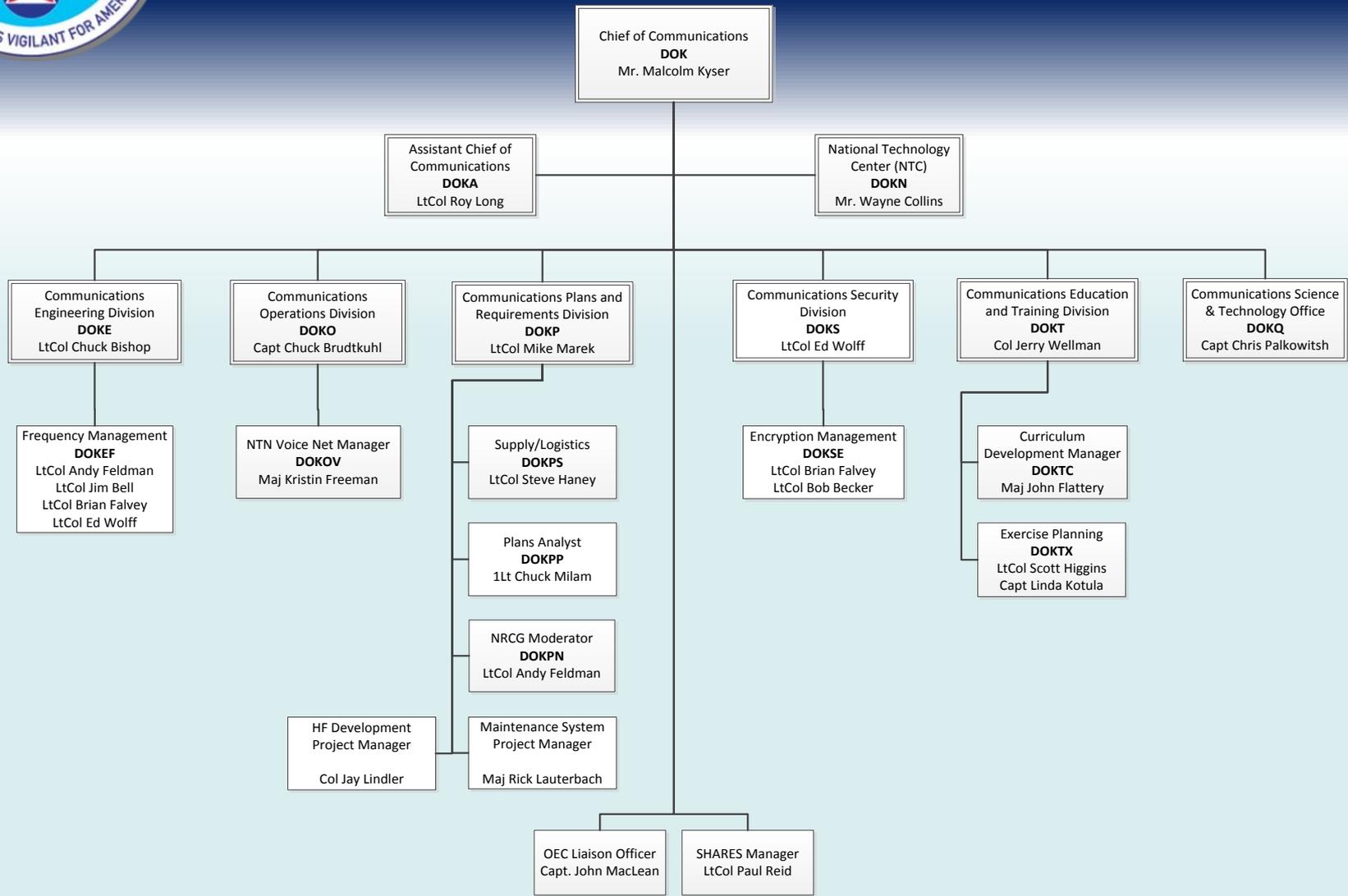
The Future

- Distributed comm maintenance
- Repeater remote access (via IP and/or HF)
- HF email





DOK Staff





DOK Staff



Assistant Chief of Communications
DOKA
LtCol Roy Long

Chief of Communications
DOK
Mr. Malcolm Kyser

National Technology Center (NTC)
DOKN
Mr. Wayne Collins



Communications Engineering Division
DOKE
LtCol Chuck Bishop



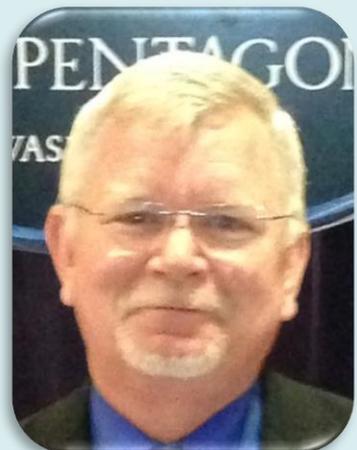
Communications Operations Division
DOKO
Capt Chuck Brudtkuhl



Communications Plans and Requirements Division
DOKP
LtCol Mike Marek



Communications Security Division
DOKS
LtCol Ed Wolff

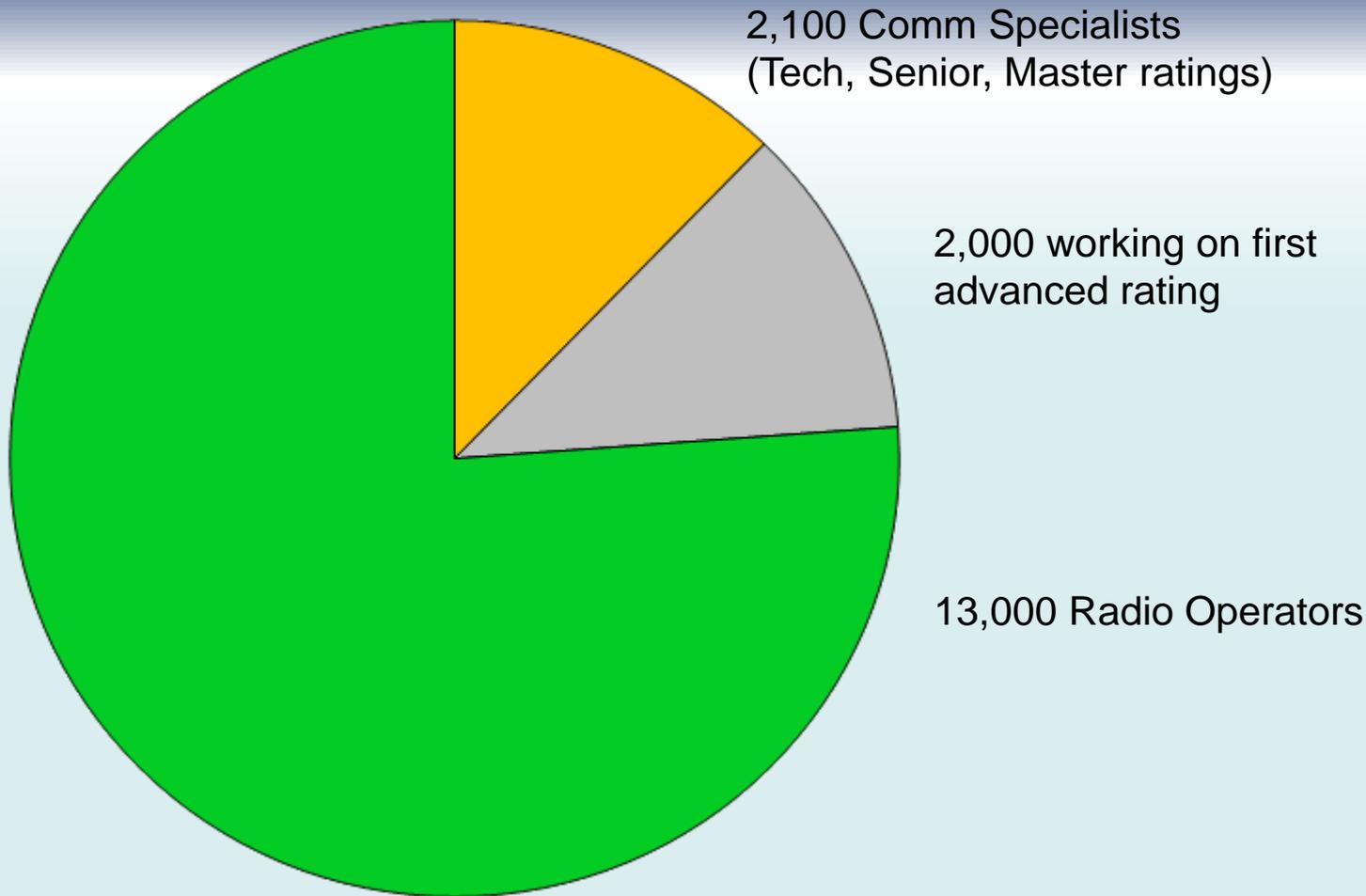


Communications Education and Training Division
DOKT
Col Jerry Wellman





17,000+ Trained Operators





Brand Promise

CAP Communications provides survivable C² and tactical communications using high-quality equipment, trained operators, and sophisticated network design, to ensure mission accomplishment for internal and external customers, even when commercial communications and power systems fail





Questions?

Malcolm Kyser
Chief of Communications
National Headquarters

mkyser@capnhq.gov

dok@capnhq.gov

888-211-1812 x 350



CIVIL AIR PATROL

ALWAYS
VIGILANT
FOR AMERICA



75

1941 - 2016

Happy Anniversary Year CAP!!!