Session 1
Commander, US Army Signal Center of Excellence

Session Name: Transforming the Signal Regiment
Briefer: MG Alan R. Lynn
Today’s Design

- Support Combined Arms Maneuver
- Theater Centric
- Battalion level support

Operation DESERT STORM

Combined Arms Maneuver

Tomorrow’s Design

- Provide support to Company and Below
- Operate and Defend 24/7 “Network”

Wide Area Security
Session: 1, Track: SIGCoE Commanding General

…the Regiment’s Future

Today

9 Soldiers
Manpower Intensive: 9 Soldier JNN team with LOS
16Mbs
Weight: 9,240lbs

4 Mbs w/2.4m dish
Weight: 3,900lbs

16Mbs
Weight: 8,673lbs

Voice and Limited Data capability

μCyber

4 Soldiers
Smaller Teams: ability to provide more packages
100Mbs
Weight: 636lbs

4Mbs w/.9m dish
Weight: 36lbs

32Mbs
Weight: 30lbs

Voice, Data, GPS, BFT, & APPS capable networking handhelds

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Voice, Data, GPS, BFT, & APPS capable networking handhelds
Full Spectrum Support

Signal Provides:

- **TROJAN (TS)**
- **Coalition (CENTRIX)**
- **Logistics (CSS VSAT)**
- **HLD (Commercial Internet)**
- **Battle Command on the Move (BCOTM)**

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**ESB vs. ESB-E**

**ESB**
- 489 Personnel Strength
- 30 POPs (2 SSS, 4 JNN, 24 CPN)
- 34% CP Coverage/ARFORGEN Cycle
- Airlift = 11 Air Frames
- No Maneuver Co CP Spt
- No TS or Coalition Enclaves
- No HLD/HLS Unclassified Voice & Data (Commercial Voice/Data)
- Separate teams for Switches, LOS, TACSAT, & TROPO

**ESB-E**
- 489 Personnel Strength
- 69 POPs (1 Large, 17 Medium, 51 Small)
- 98% CP Coverage/ARFORGEN Cycle
- Airlift = 12 Air Frames
- 13 Co CPs / BCT
- 18 TS & Coalition Enclaves
- Provides HLD/HLS Unclassified Voice & Data (Commercial Voice/Data)
- Network Support Teams are self contained and can be tailored to specific mission requirements
Provides 7 WIN-T Points of Presence:

- 2 – JNN
- 5 – CPN

CNR per BDE – 1836 radios

* Can operate when connected or not connected to the Global Network Enterprise

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Provides 63 WIN-T Points of Presence:

- 8 – TCN
- 7 – POP (Bde/Bn Cdr Vehicle)
- 35 – SNE (Co Cdr (+) Vehicle)
- 13 – Mvr CO CP (ESB-E transport)

CNR per BDE - 3370 radios
Networking the Dismounted Squad

Mission: Connect Dismounted Squad to the Network to gain and maintain Squad Overmatch

Successes: Integrated COTS, standards-based Cellular technology with WIN-T and connected Squad to the Tactical Terrestrial Network

Challenges: Security of Cellular Networks, Battery Life

FT Benning (AEWE)
- Connect Soldier to Equip
- Connect Soldier to Squad
- Connect Squad to Network

FT Bliss (JUICE, AWN-T, NIE)
- Connect Cell Phone to WIN-T
- 3G / 4G WiMax Network Connected to WIN-T
- 3G/4G Cell tower range extension with 117G TO WIN-T
- Soldier Radio Wave (SRW)
- Wideband Networking Waveform (WNW)
Apps (Completed Projects)

- Army Creeds
- Soldier Blue Book
- Signal LT Handbook
- Physical Readiness Training
- Sigcts
- Mobile Learn
- Fort Gordon Post Directory
- Shok
- Grid/Nav
- BAH Calculator
- Army Values
- Bugle Calls
- Resiliency Goals Book
- Rights Warning Card
- AIT PSG Handbook
- 21B10 Handbook
- BCT Smart Card
- Go For Green
- APFT/Body Fat Calculator
- PRT Card
- Signal Conference
- Sniper Awareness
- Capture Avoidance
- AAR
- Army Professional Ethic
- Fort Bliss Post Directory

More info at – apps.army.mil
Supporting the Network Integration Evaluation (NIE)

SIGCoE Support (Feb-Jul 11):
- 3 Pax (Signal Co Prep Training)
- 28 Pax (Boots on the Ground – DOTMLPF Collectors, Analysts, O/C, Test and Evaluation support for POR’s, DAG Support, 3/4G Wireless Evaluation, etc)
- 27 Pax (24x7 Regional Hub Node Services and Engineering for 2/1AD + 20 SNAP terminals)
  - 9 Training Missions and NIE Execution

“We must leverage the entire Regiment’s experience”
Signal Company Commanders, Warrant Officers, and Senior NCO’s with recent deployment experience Welcome!

Type I Evaluation
- Programs of Record under official test

Type II Evaluation
- Proven systems supporting ongoing contingency operations

Type III Evaluation
- Industry opportunities for technology insertion

Industry Sources Sought Memo
White Paper Assessment
Oral Presentation and Quick Demo
Industry Assessment

Phase 0
Define Near Term Requirements and Gaps
Lead: TRADOC

Phase I
Solicit Potential Solutions
Lead: ASA(ALT)

Phase II
Candidate Assessment
Lead: ASA(ALT)

Phase III
Evaluation Preparation
Lead: BMC/ATEC

Phase IV
NIR
Lead: ASA(ALT)/ATEC

Phase V
NIE
Lead: BMC/ATEC

Phase VI
Network Implementation Plan
Lead: ARSTAF

LWN-BC 1/2 Star GOSC
LWN-BC 3 Star GOSC

2011-08-23 1045-1200 // Transforming the Signal Regiment
Enlisted/Warrant MOS Transformation - Getting it done

CMF 25 Enlisted MOS Transformation
- 7 unique skill sets -

Accessed at E1
- 25(1) Network Support
- 25(2) Transmission
- 25(3) Network Operations
- 25(4) VI Operator-Maintainer
- 25(5) VI Ops

Accessed at E6
- 25(6) Network Defender
- 25(E) Electro-Magnetic Spectrum Operations

CMF 25 Enlisted MOS - 13 unique skill sets -

- 25B - 25E
- 25P
- 25Q
- 25R
- 25S
- 25T
- 25U
- 25V

No Change in # of Soldiers

Education
- Theory Based
- Transferable Skills
- Apps

Warrant MOS Transformation FY12

2011-08-23 1045-1200 // Transforming the Signal Regiment
Proposed Signal Regiment Holistic Officer Transformation

Legacy “As-Is” Signal Regiment AOC

- 25A – Signal Officer
- 24A – Telecommunications Systems Engineering
- 53A – Information Systems Management

Signal GO Guidance:

- Structure Officer AOC for Cyber
- BR25
  - More Technical Education
  - Lead ABCS-NETOPS integration
- FA53
  - More Technical-engineering based
  - Enable knowledge management
  - Address cyber security

Future “To-Be” Signal Regiment AOC:

- BR25 – Signal (2LT-COL)
  - 25A – Cyberspace Systems Operations
  - 25G – Cyberspace Network Integration (New)
  - 25Z – Cyberspace Operations (immaterial @ COL)
- FA26 – Cyberspace Engineering (CPT-COL)
  - 26A – Cyberspace Network Engineering (24A)
  - 26B – Information Systems Engineering (53A)
  - 26C – Cyberspace Security Engineering (New)
  - 26Z – Cyberspace Engineering (immaterial @ COL)

Submit DA Pam 611-21 Military Occupational Classification Structure (MOCS) Expedited Change Action NLT 31 March 2012

Now is the time for you to affect fundamental change!
Ongoing Human Capital Officer Initiatives

- Science, Technology, Engineer, Math (STEM) Accession Targets
- Early Branching at OCS, ROTC and USMA
- Active Duty Recall of STEM Officers
- Additional Point on OML for STEM Cadets
- Cyberspace Technological Enrichment Program (CTEP)
- ROTC Affiliation Program at Selected Colleges
- Voluntary Transfer Incentive Program (VTIP) for FA and BR

- Increased Throughput FA53 ISMC
- 25 Seats USAF Cyber 200 & 300 Courses for FY 12
- AFIT Cyberspace Degree Program (8 MS candidates annually)
- Cyberspace Network Operations and Security TWI
- Non-MEL4 Fellowship @ NCCIC for field grade and warrant officers
- Update ACS/TWI Requirements
- SIGCOE Course Emphasis on Educate vice Train
- Exploring Cyberspace University Concept
Regimental Way Ahead

Current:

• Redesign ESB to *ESB-E*

• Restructure MOS/WOs to provide the “Multi-Functional Signal Soldier”

• Redesign Training to an Educational Based Approach

What’s Next?

• Meet The Regiment’s Mission in Cyberspace

• Mission Command Integration
MG ALAN R. LYNN

United States Army Signal Center of Excellence
Questions

1942: Prelude to War

1946: Seeds of Destiny

1948: Towards Independence
Session 1
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Questions/Comments?