U.S. Army Cyber Center of Excellence and Fort Gordon



Cyber Quest 2018



Cyber Quest:

Enabling CEMA Operations Within a Multi-Domain Battle



A world-class, Army led, prototype assessment conducted in an operationally relevant environment with government, industry and academia partners to identify innovative Intel, Signal, Cyberspace, and Electronic Warfare technologies.

Prototype Assessment



- Validate/inform concept development
- · Inform requirements generation
- · Identify candidate technologies for JWA/NIE
- · Quick-turn integration of mature capabilities

Environment







- · Focused at BDE (IBCT) and below
- Focused on AWfC #1, #7, #19
- · Live, Constructive, Virtual Environment

Innovation





- · Direct operator feedback from Soldiers

 - No fear of failure Sandbox strategy

CQ 2016 Highlights

- CEMA Construct
- EW/Cyber Situational Awareness
- Soldier as a Sensor
- MFEW Concepts & Learning Demands
- Big Data & Data Analytics

CQ 2017 Focus

- Improve tactical communications capacity, reach & security
- DCO Mission visualization, planning & management
- EW Mission visualization, planning & management
- Situational Understanding

CQ 2018/2019/2020 Themes

- 2018: Cyberspace Electromagnetic Activities (CEMA) enabling the Multi

· Vendor solution coupled with current baseline

Domain Battle

Ö- 2019: Joint interoperability for next generation warfare

- 2020: Retaining Cyberspace Key Terrain during Multi-Domain Battle



CQ18 Sponsored Technology

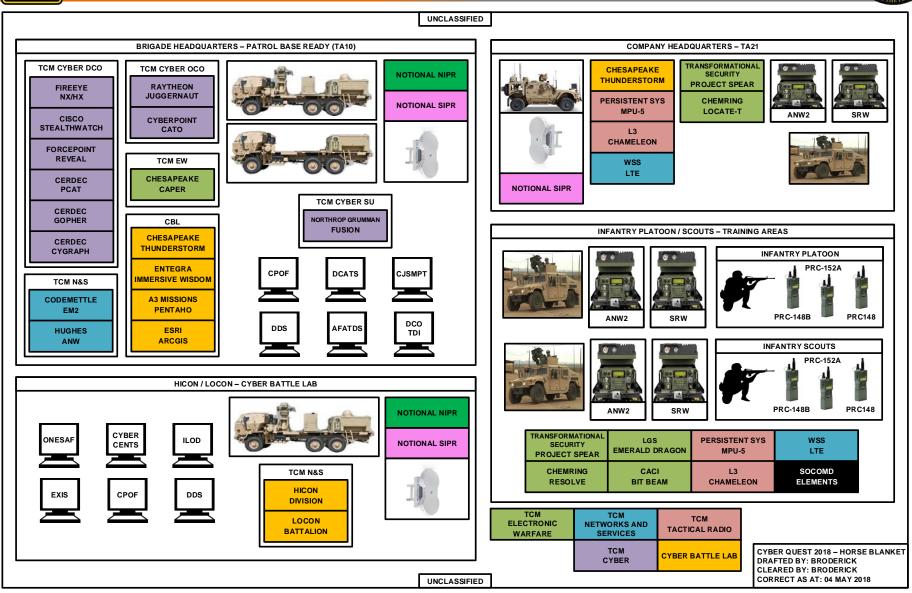


Chemring (Locate-T, Resolve) EW Support (Sensor) EW Support (WiFi/GSM DF) TCM EW 1 x EW SME Field & 1 x EW SME CO TOC Trans Security (Atom Defender) EW Support (Sensor) TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCTI (CAPER) EW SU TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCTI (CAPER) EW SU TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME Field & 1 x EW SME CO TOC TCM EW 1 x EW SME Field & 1 x EW SME Fie	U.S.ARMY			To THE WILL
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CCTI (CAPER) EW SU TCM EW 1 x EWO SME BCT TOC CERDEC (Cygraph) DCO - Mission Mapping TCM Cyber 1 x CYBER SME HICON DCO - Analytics, Windows Monitor TCM Cyber 1 x CYBER SME HICON 1 x CYBER SME HICON TCM Cyber 1	LGS (Emerald Dragon)	EW Support (WiFi/GSM DF)	TCM EW	1 x EW SME Field & 1 x EW SME CO TOC
CERDEC (Cygraph) DCO - Mission Mapping TCM Cyber 1 x CYBER SME HICON DCO - Analytics, Windows Monitor TCM Cyber 1 x CYBER SME HICON TCM Cyber 1 x CYBER SME HICON DCO - Host Analysis (Post Compromise) TCM Cyber 1 x CYBER SME HICON TCM Cyber 1	Trans Security (Atom Defender)	EW Support (Sensor)	TCM EW	1 x EW SME Field & 1 x EW SME CO TOC
CERDEC (PCAT)DCO - Analytics, Windows MonitorTCM Cyber1 x CYBER SME HICONCERDEC (Gopher)DCO - Host Analysis (Post Compromise)TCM Cyber1 x CYBER SME HICONCISCO (Stealthwatch)DCO Intrusion DetectionTCM Cyber1 x CYBER SME HICONNorthrop Grumman (Fusion)Cyber SUTCM Cyber1 x CYBER SME HICONFire Eye (NX/HX)DCO Intrusion DetectionTCM Cyber1 x CYBER SME HICONForcepoint (Reveal)DCO (Insider threat/DLP)TCM Cyber1 x CYBER SME HICONCyberPoint (CATO)OCO (RF enabled Cyber)TCM Cyber1 x CYBER OCO SME BCT TOC & CO SITERaytheon (Juggernaut)OCO (RF enabled Cyber)TCM Cyber1 x CYBER OCO SME BCT TOC & CO SITECodeMettle (EM2)NETOPSTCM N&S1 x S6 NETWORK MANAGEMENT SMEWSS (LTE)Tactical LTE ManpackTCM N&S2 x S6 TAC COMMS SME, CO Site / OpsHughes (LPI/LPD)LPI/LPD (SATCOM)TCM TR2 x S6 TAC COMMS SME, CO Site / OpsL3 (Chameleon)LPI/LPD Tactical RadioTCM TR2 x S6 TAC COMMS SME, CO Site / OpsEntegra (IM/VR)Virtual RealityCBLNot RequiredCTI (Thunderstorm)EW Sensor Data Ingestion EngineCBLUS Army Special Operations CommandOffensive CyberCBLProvided by USASOF	CTI (CAPER)	EW SU	TCM EW	1 x EWO SME BCT TOC
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Entegra (IM/VR) CTI (Thunderstorm) EW Sensor Data Ingestion Engine CBL A3 Missions (Pentaho) Data Analytics CBL US Army Special Operations Command Offensive Cyber CBL Provided by USASOF	Persistent Systems (MPU5)	MANET Radio Capability	TCM TR	2 X S6 TAC COMMS SME CO Site / Ops
CTI (Thunderstorm) EW Sensor Data Ingestion Engine CBL Data Analytics CBL US Army Special Operations Command Offensive Cyber CBL Provided by USASOF	L3 (Chameleon)	LPI/LPD Tactical Radio	TCM TR	1 X S6 TAC COMMS SME, CO Site / Ops
A3 Missions (Pentaho) Data Analytics CBL US Army Special Operations Command Offensive Cyber CBL Provided by USASOF	Entegra (IM/VR)	Virtual Reality	CBL	Not Required
US Army Special Operations Command Offensive Cyber CBL Provided by USASOF	CTI (Thunderstorm)	EW Sensor Data Ingestion Engine	CBL	
	A3 Missions (Pentaho)	Data Analytics	CBL	
	US Army Special Operations Command	Offensive Cyber	CBL	Provided by USASOF
		·		·



CQ18 Technology Laydown



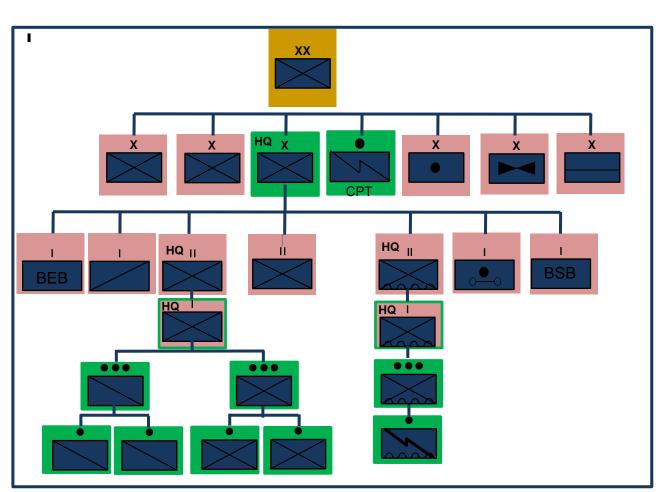




Friendly Forces 'Exercise Play'

Task Organization





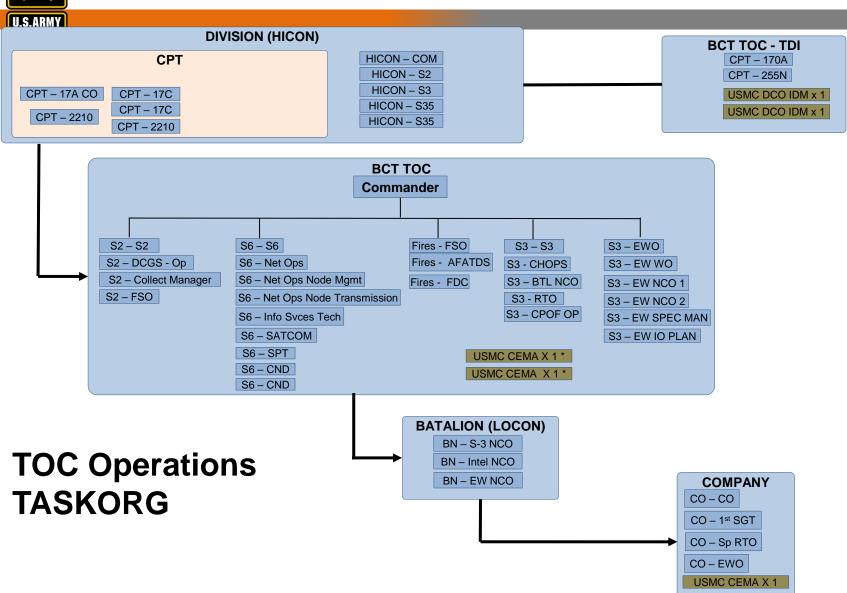
-- Live forces --

- BCT TOC with CEMA Cell and CPB Support.
- 1 x US Army Company TOC
- 1 x US Marine Company TOC (simulated)
- 1 x Scout Platoon
- 1 x Infantry Platoon
- 1 x USMC EW Team

- High Fidelity (green) Live (Roleplayer/Modeled)
- Medium Fidelity (amber) Constructive (EXCON/HICON)
- Low Fidelity (red) Virtual (HICON/LOCON)



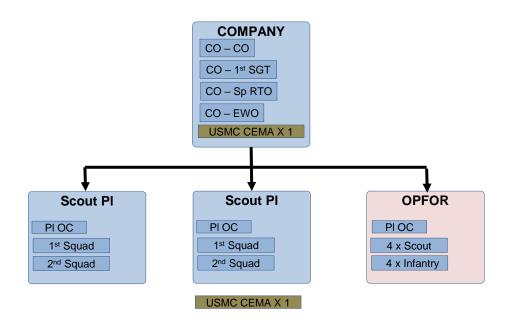
Cyber Quest Actual Experiment Task Org





Cyber Quest Actual Experiment Task Org



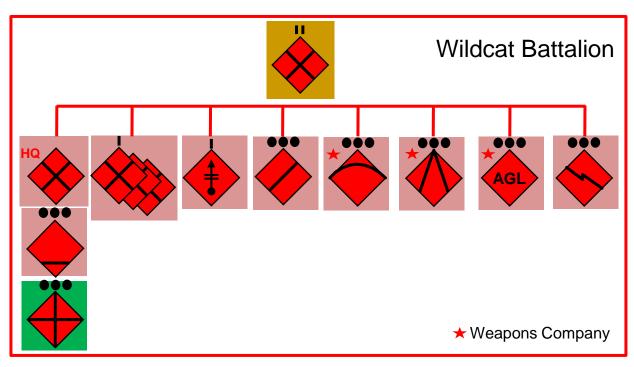


Field Operations TaskOrg

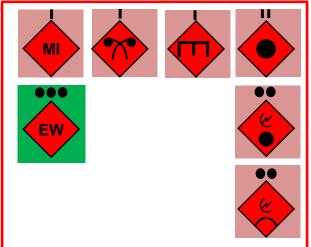
Exercise Threat Forces (Cyber Quest)

Task Organization



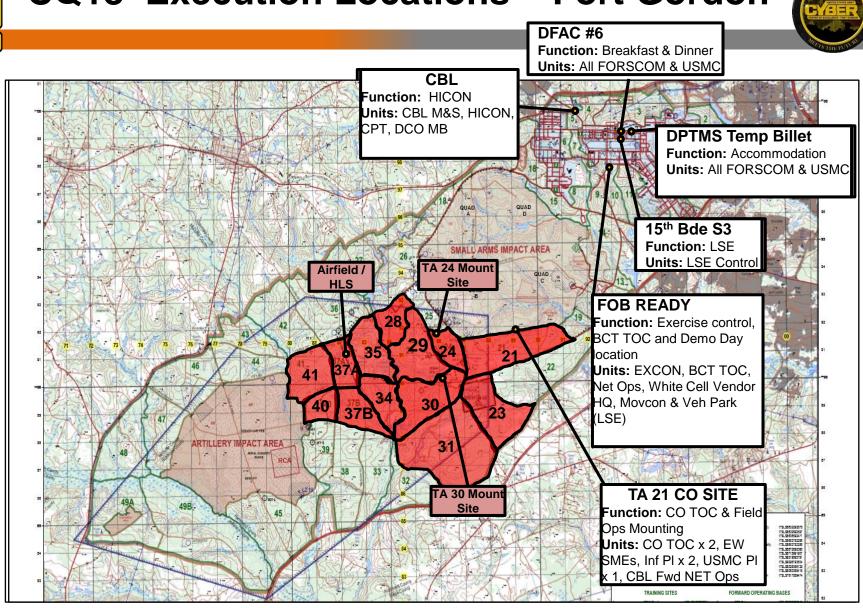


Threat Enablers



- High Fidelity (green) Live (Roleplayer/Modeled)
- Medium Fidelity (amber) Constructive (EXCON/HICON)
- Low Fidelity (red) Virtual (HICON/LOCON)

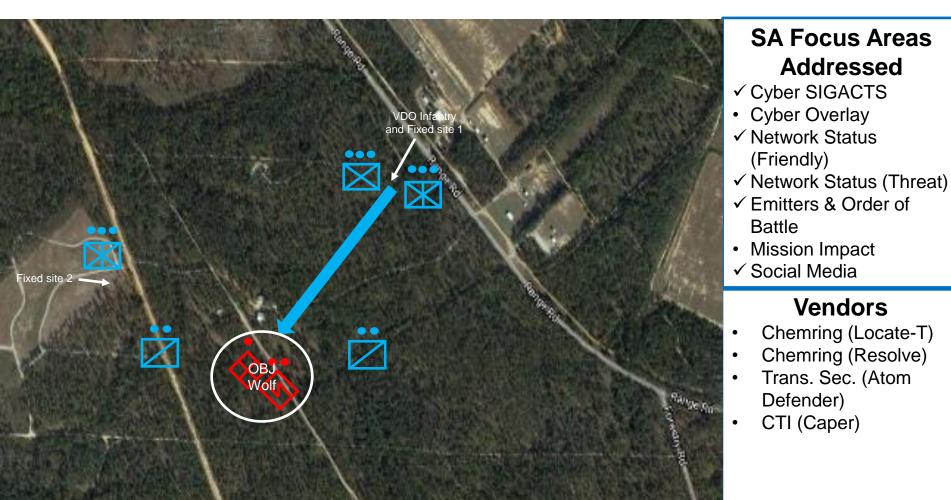
CQ18 Execution Locations – Fort Gordon





CQ18 Execution Example 1: Field Ops - EW Sensor Lane





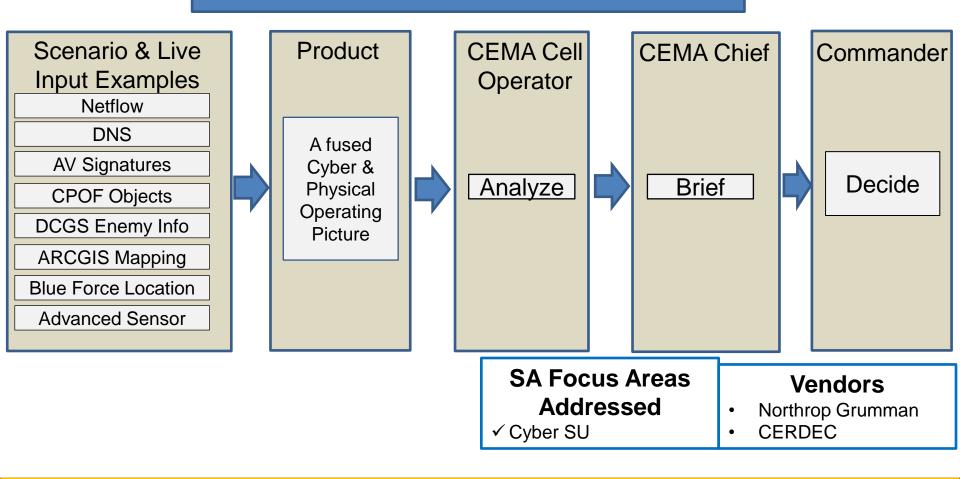
Conduct a deliberate attack on OBJ Wolf IOT destroy an enemy Comms element **Mission:**



CQ18 Execution Example 2: BCT TOC Example



Capability Gap: Cyber Situational Understanding

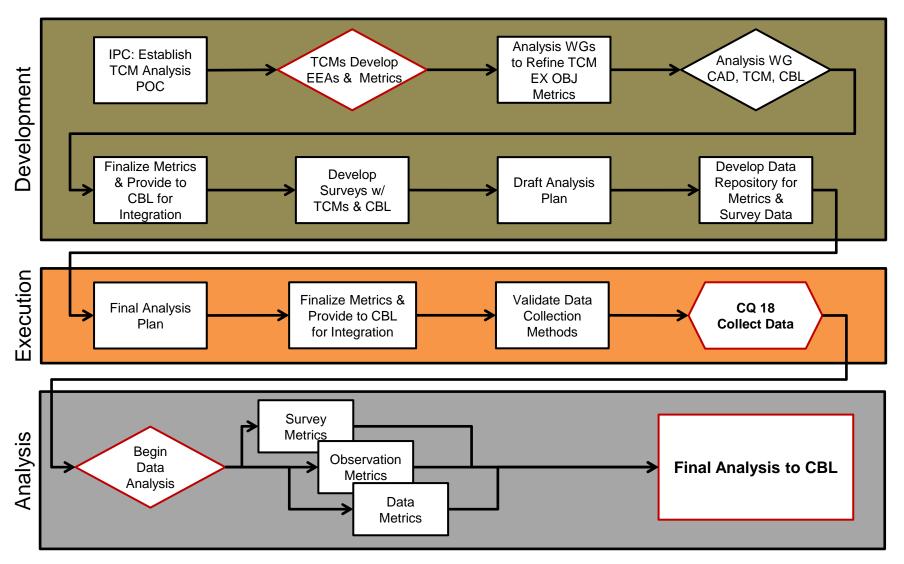


Objective: Provide the BCT Commander with the understanding required to support x-domain maneuver



CQ 18 Analysis Process - CAD

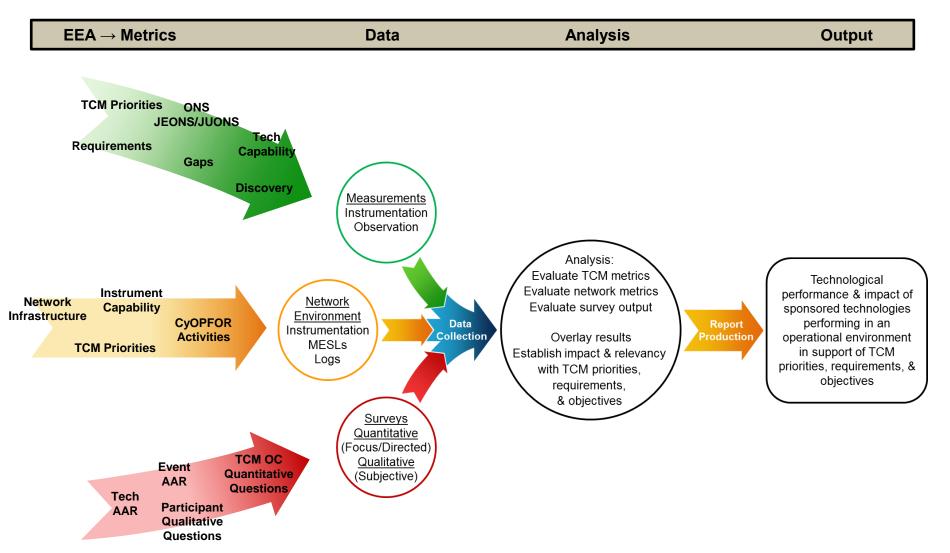






CQ 18 Analysis Process - CAD





UNCLASSIFIED



CQ18 Timeline

