ACM SFAB Breakout Agenda

Agenda

- ACM-SFAB Mission
- ACM-SFAB Organization
- SFAB Mission
- SFAB Organization
- Challenges & Integration
- Desired Capabilities
  - Laser Designation
  - Counter UAS
  - Variable Height Antenna

Purpose: Solicit Industry Partner Solutions to SFAB Capability Challenges

ACM-SFAB Mission

Mission: The ACM SFAB, **reporting** to the **Commanding General of the MCoE**, serves as TRADOC's **centralized manager** for **user activities** associated with the Security Force Assistance Brigade **(SFAB).** ACM SFAB **coordinates DOTMLPF-P actions** to promote **standardization** and **interoperability** between **SFA units** and **supported organizations**.

Key Functions:

Integration Team:

- Engage SFAC and all six SFABs to collect user feedback to inform modernization
- Visit units (face-to-face) at home station after deployments and CTC rotations
- Collect and manage Lessons Learned
- Develop Operational and Organizational Concepts (O&O) nested within higher concepts
- Influence doctrinal edits and updates
- Manage Force Design Updates (FDU)
- Validate requirements through studies, simulated and real world exercises

Material Team:

- Assist SFAB in solving Material problems
- Force Design Updates (FDU)
- Coordinate with Materiel and Capability Developers - Program and Product Management (PMs)
- New Equipment Fielding and New Equipment Training (NEF/NET)
- Interact with Industry partners
- Develop DOTMLPF-P solutions

Influence High Level Decisions: Communicate with HQ TRADOC, Army Futures Command (AFC) and HQDA G-3 and G-8, to ensure proper resourcing decisions support SFAB modernization. Key decision forums have included AROCs, TAAs, POM Drills and AMG-U.

ACM-SFAB

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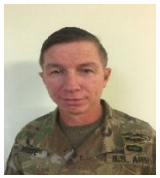

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SFAB Mission and Roles

SFAB Mission

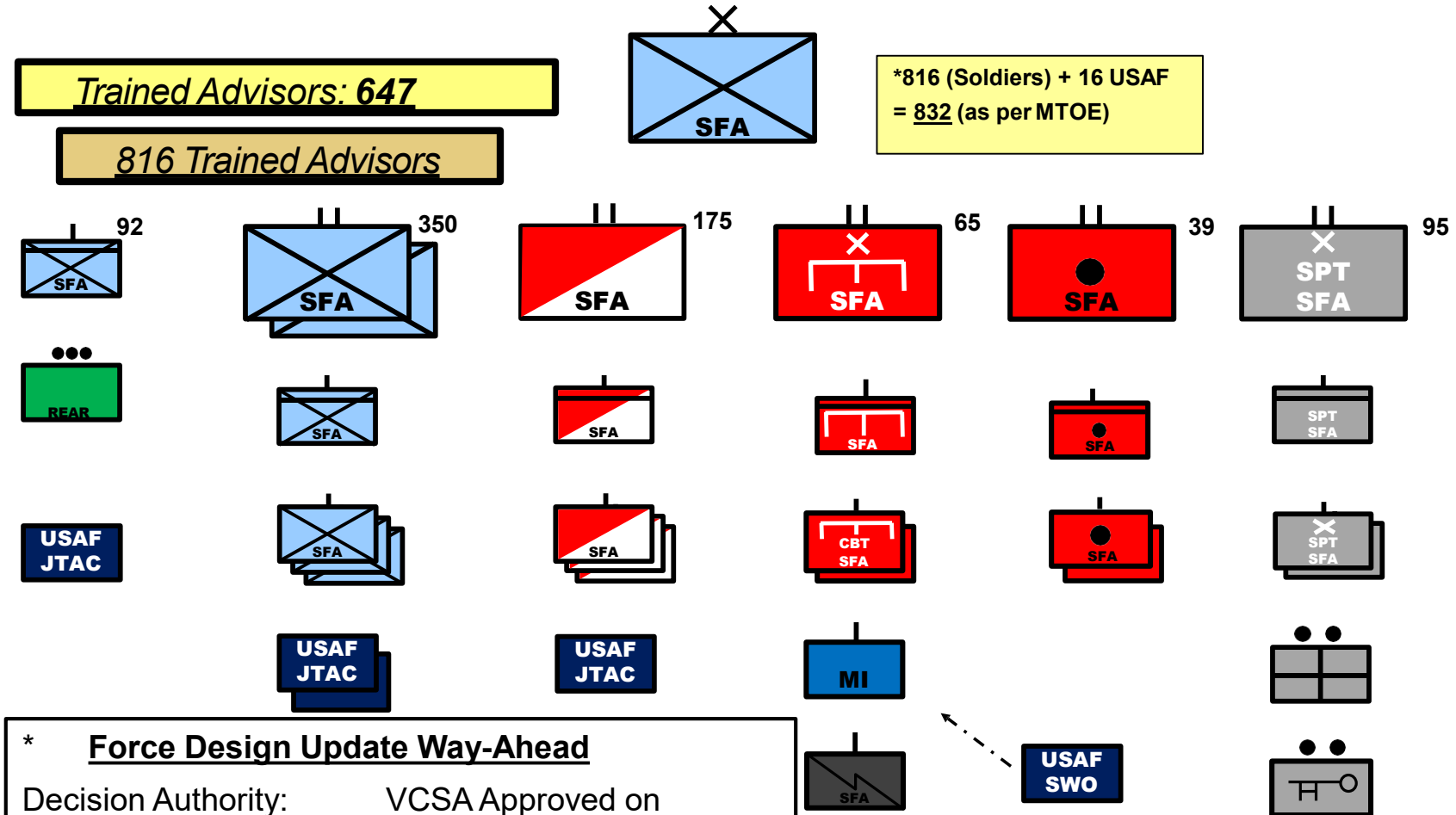
In coordination with joint, interagency, and multinational forces, SFABs advise, support, liaison, and assess to support the development of capacity and capability of Foreign Security Forces and their supporting institutions.

SFAB Roles

- **Advise** – Teach, Coach, Mentor
- **Support** – Provide Capability
- **Liaison** – Connect
- **Assess** – Evaluate, Monitor, Report

An SFAB executes the operating and some of the generating SFA functions.

CURRENT SFAB



* **Force Design Update Way-Ahead**

Decision Authority: VCSA Approved on 13 April 21

FDU Status: FDU prioritized as part of Army Structure process; 01 NOV 21

Proposed Effective Date: **NET 01 OCT 22**

Advising Team Capability

ACM-SFAB

C/T HQs MNVR TM

CDR	1SG	OPS ADVISOR	TRNG ADV
O4/ 11/19A	E8/ 11/19Z	O3/ 11/19A	E7/11C

INTEL	FSNCO	SIGNAL	LOG	OPS ADVISOR	MECH	EXPLOSIVES	MEDICAL
E6/ 35F	E7/ 13F	E6/ 25U or C	E6/ 92Y	E6/ 11B	E6/ 91B	E6/ 89D	E6/ 68W

PLT HQs MNVR TM

TM LDR	TM NCOIC	MNVR ADVISORS
O3/ 11/19A	E7/ 11B/19D	E6/ 11B/19D

INTEL	FSNCO	SIGNAL	LOG	OPS ADVISOR	MECH	EXPLOSIVES	MEDICAL
E5/ 35F	E5/ 13F	E5/ 25U or C	E5/ 92Y	E6/ 31B/11B	E5/ 91B	E6/ 89D	E6/ 68W

CO HQs LOG TM

CDR	1SG	MEDIC	FUEL	AUTO LOG	ARMAMENT	MAINT	AMMO
O4/ 90A	E8/ 88Z	E5/ 68W	E6/ 92F	E7/ 92A	E6/ 91F	W3/ 915A	E6/ 89B

NOTE: BN and BDE headquarters can form multifunctional advising teams based on the FSF requirements.

PLT HQS LOG TM

TM LDR	TM SGT	LOG	MEDIC	MECH
O3/ 90A	E7/ 88M	E6/ 92A	E5/ 68W	E6/ 91B

CO HQs EN TM

CDR	1SG	TM ADV	MEDIC
O4/ 12A	E8/ 12Z	O3/ 12A	E6/ 68W

PLT HQS EN TM

TM LDR	TM NCO	TM ADV	CIV ENG
O3/ 12A	E7/ 12B	E6/ 12B	E6/ 12H/T

BTRY HQs FA TM

CDR	1SG	FIRES ADV	MEDIC
O4/ 13A	E8/ 13Z	O3/ 13A	E6/ 68W

PLT HQS FA TM

PLT LDR	SEC CHEIF	GUN SGT	FCNCO
O3/ 13A	E7/ 13F	E6/ 13B	E6/ 13C

Advisor Team Qualities

- ***Specially-Selected, Well-Trained***
- ***Access to Joint Enablers***
- ***Represents all War fighting Functions***
- ***Equipped to operate independently***
- ***Modular…Can expand and contract based on requirements***
- ***Requires augmentation as threat increases***

An SFAB has the capacity to employ 36 multifunction & 18 functional advising teams (LOG, ENG, FA).

SFABs Winning in the Conflict Continuum

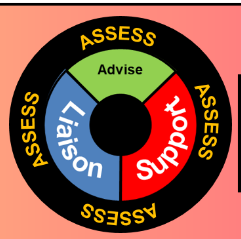
ACM-SFAB

Continuum	COMPETITION		CRISIS	CONFLICT	
Joint Phases	Shape	Deter	Seize Initiative	Dominate	
MDO	Compete		Penetrate	Disintegrate	Exploit

Presence: ASCC Priorities

Episodic Surge:

GCC Posturing



Enable Coalition: JTF Objectives

Return to Competition

Operational Results

"SFABs win through Deterrence"

- ***Ensure Access***
- ***Increased Partner Capability***
- ***Enhanced Interoperability***
- ***Demonstrate Commitment***

"SFABs win by returning to Competition or enabling positions of advantage"

- ***Situational Awareness***
- ***Supported Partner Force***
- ***Demonstrate Resolve***

"SFABs Win through Unity of Action"

- ***Unity of Action***
- ***Prolonged Endurance***

Tactical Actions

- Advising Partner Forces
- Conducting Joint Exercises
- Assess Partner Capability

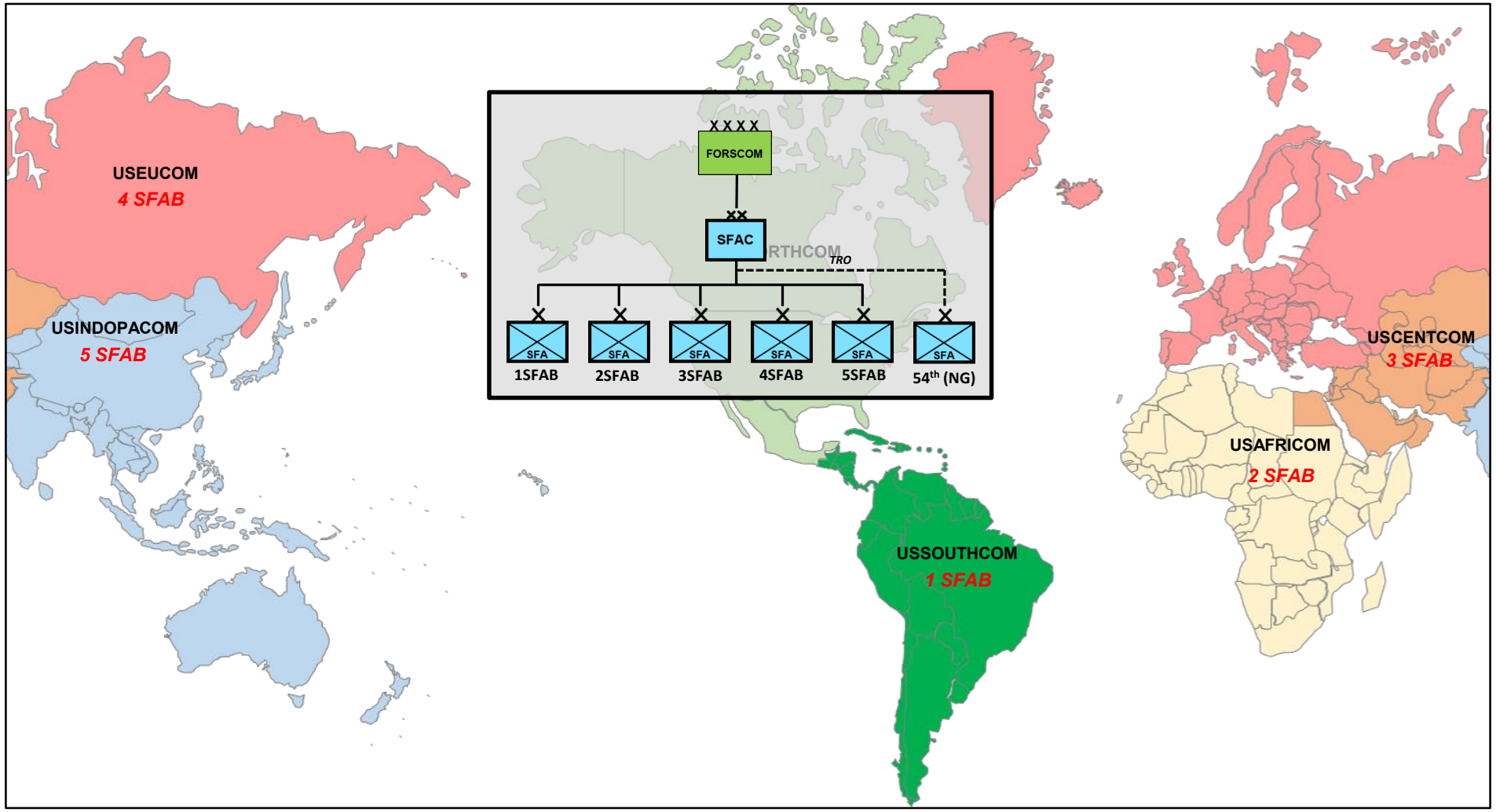
- Advise PF Disposition
- Liaise for a Common Operation/Intelligence Picture
- Interoperability

- Liaise to Synchronize Action
- Support Sustainment Coordination
- Provide enablers for Partner Force required capabilities

Building Trust Through Persistent Presence to Influence the Security Environment and Ensure Access to Partners

The SFAB in 2023: "Globally Engaged" in the Competition Space

1. **Regional Alignment**: Persistent Advisor presence in 5 out of 6 GCC AORs; utilize 54th SFAB to sustain presence.
2. **Force Package Model**: Deploy the "right sized" Force Package based on GCC.
3. **Multi Domain Operations (MDO) Capable SFAB:** Modernized SFABs enhance partner interoperability, lethality, and operational endurance in all domains.



SFAB Desired Capability

- Laser Designation
- Counter UAS
- Variable Height Antenna

Laser Designation

ISSUE: Forward observers within the Maneuver Advisor Teams possess a limited capability to provide remote designation for precision laser-guided munitions. Within the context of interoperability between U.S. and partner force operations, this presents a problem in our Advisors' ability to employ joint-fires including Hellfire missiles, APKWS rockets, and laser-guided bombs.

Desired Capability: Man-portable, lightweight form-factor laser designator. Designator must be capable of emitting Pulse Repetition Frequency (PRF) coded laser data to meet the mission requirements. System must be able to designate targets in day, night, and obscurant conditions. Light form factor is critical, weight should not exceed 10lbs; weight should ideally be approximately 5lbs. System should operate on batteries; operating time should be approximately 6-12 hours and the system should include a dual-voltage charging station.

Counter UAS

ISSUE: SFAB possess a limited capability to provide force protection measures against any class of UAS or mitigate the threat of offensive UAS capabilities.

Desired Capability: Provide real time information of threats in the environment. Must be able to operate static or on the move, and provide coverage to mitigate threats with or without constant operator monitoring. Able to identify friend or foe, and controller. Able to create safe landing zone for further exploitation. Detect/Mitigate Lightbridge, OcuSync, DIY433/915 MHz and eWi-FI.

Variable Height Antenna

ISSUE: SFABs are doctrinally required to operate dispersed, over extended distances and in complex terrain, at echelon. Maintaining a robust and redundant mission command network requires both line-of-sight (LoS) and beyond-line-of-sight (BLOS) communications capabilities. Advisors operating inside of the LoS TSM bubble enable TSM wideband voice, messaging, data/mission products, and PLI into the Integrated Tactical Network (ITN) Common Operating Picture (COP). If Advisors travel outside of the TSM bubble, they are able to connect to the ITN Amazon Web Server (AWS) via Scout's SBU enclave, Mission Link, Cell, or through JBC-P (UNCLASS); Advisors lose Wideband voice if utilizing Scout, Mission Link, and Cell; Advisors lose Wideband voice, messaging, and data products if utilizing JBC-P (UNCLASS). Therefore, it is essential for ITN elements to extend the TSM bubble. To extend the TSM voice and data network, the currently fielded solution in the SFAB inventory is the TW-875 (Ghost) radio that acts as a repeater between Advisor Teams and their higher HQ. These radios have limited range, limited battery life, and do not allow for reliable and flexible TSM extension required by Advisor Teams.

Desired Capability: Portable, autonomous, persistent, tethered, all weather drone. System must persist for days at a time and maintain heights of at least 200 feet. Variable Height Antenna must provide LoS TSM links of 15-20 Km (greater depending with elevation of 200 feet). Include power solution (with commercial and tactical vehicle power solution). Setup time within 15 minutes; SWAP: 100 pounds or less with 2 kW or less Includes 2x high-bandwidth, MIMO radio backhaul with the antenna. At a minimum, system must be capable of simultaneously integrating and powering at least two payloads of 12v, 50w DC power each. It must be able to integrate video cameras and distribute feeds.

Questions?