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(U) 2nd Cavalry Regiment

(U) Integrating and Synchronizing Tactical Electronic Warfare within Europe

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(U) Discussion Points

- (U) Historical Context

- (U) Phased Prototype / Operational Needs

- (U) Training Considerations and Tactics, Techniques,
and Procedures (TTPs) Development

- (U) SIGINT and Electronic Warfare Synchronization

- (U) Lessons Learned and the Way Forward



(U) Historical Context

- ❑ (U) In March 2014, Russia invaded Crimea, then annexed the region. LT. Gen. Hodges, U.S. Army Europe (USAREUR) Commanding General at the time, submitted an operational needs statement (ONS) to the Pentagon for quick action.
- ❑ (U) In March 2016, Electronic Warfare personnel from 173rd ABCT and 2nd Cavalry Regiment receives dismounted VROD/VMAX systems as part of the USAREUR ONS phase 0 fielding.
- ❑ (U) In January 2018, 2nd Cavalry Regiment receives Stryker Mounted Electronic Warfare Systems (SABRE Fury) with an integrated Electronic Warfare Planning Management Tool (EWPMT) as part of the USAREUR ONS phase I fielding.
- ❑ (U) After the phase I fielding, Electronic Warfare Teams with mounted and dismounted EW capabilities were fully integrated throughout all major Joint and Multinational exercises across the Alliance.
 - Allied Spirit VII/VIII
 - Saber Strike 18
 - Dynamic Front 18/19
 - JWA 18.1
 - Combined Resolve X/XI
 - Saber Junction 18
 - Arrow 18
 - Dragoon Ready 19



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(U) Phased Prototypes / Operational Needs

Phase 0
3x
VROD/VMAX

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Phase I UNCLASSIFIED

3x Sabre Fury

RavenClaw (EWPMT Lite)

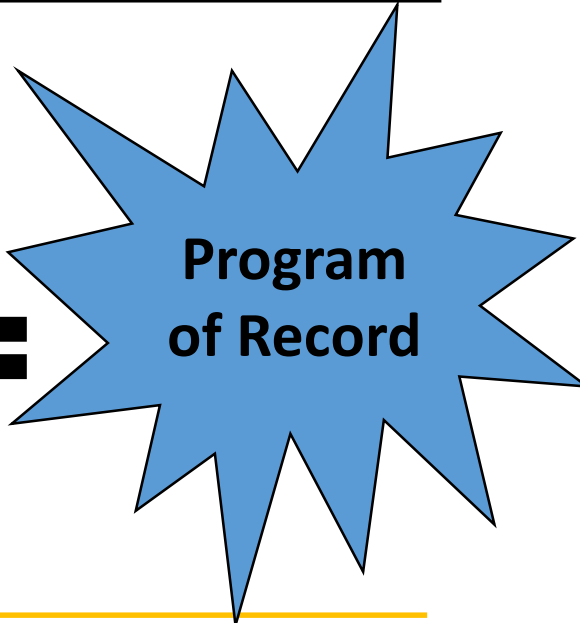
1x VMAX

Phase II UNCLASSIFIED

3x Tactical EW System (TEWS)

EWPMT CD3

3x VMAX





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(U) 2CR Training Considerations

- ❑ (U) Operator development (Define the future EW Soldier)
 - (U) EW fundamentals / System employment
 - (U) Maneuver and tactics / NAVWAR
- ❑ (U) Integration and synchronization of sensors through full spectrum operations
 - (U) Develop Commanders and Staff to plan/integrate EW
 - (U) Sensor to shooter link establishment
- ❑ (U) Maximize capabilities through challenging and realistic training environments
 - (U) Complex sensor employment and management
 - (U) Stress equipment and its operators





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(U) Tactics, Techniques and Procedures (TTPs) Development

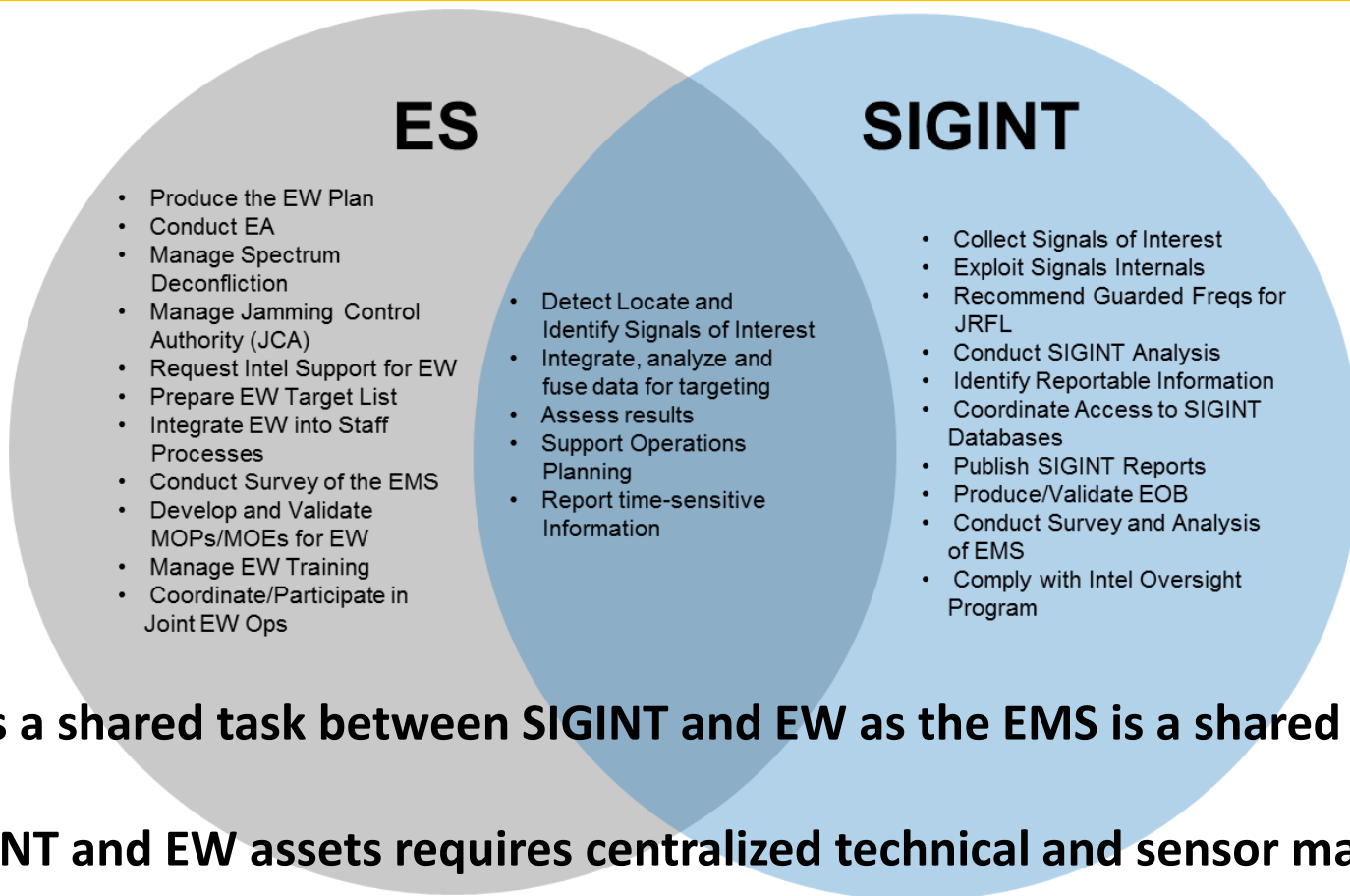


- (U) Sight Selection / Line of Sight (LOS) Analysis
- (U) Movement and Maneuver
- (U) Displacement / Cover and Concealment
- (U) Spectrum Surveys
- (U) Static EW Operations
- (U) On the Move Operations
- (U) Reporting
- (U) Tipping / Cueing





(U) SIGINT and EW Synchronization



(U) ES is a shared task between SIGINT and EW as the EMS is a shared space

(U) SIGINT and EW assets requires centralized technical and sensor management control

(U) Mission taskings are based on capability and location



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(U) Lessons Learned

- (U) The need for EW continues to grow as capabilities develop and are fielded to the force.
- (U) Lower echelons will be more effective if EW equipment is provided and integrated.
- (U) Soldier feedback is critical to the overall success and implementation of future EW equipment
- (U) Realistic training environments are essential to fully integrate EW into full spectrum operations.
- (U) Real time information is critical!
- (U) The SIGINT/EW teams must be a highly integrated team.



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(U) Way Ahead

- (U) Complete SIGINT Teams and EW Teams Synchronization and Integration

- (U) Information Sharing Platform

- (U) Multinational EW Cooperation and Training Opportunities

- (U) Congested and Contested EMS Training Environments



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(U) Questions?

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