



# ASE B-Kit Emulator (ABE) / Embedded ASE-B-Kit Emulator (E-ABE)

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## ASE B-Kit Emulator (ABE) Combat Training Centers

### Force on Force Training

- Software application that emulates ASE functionality to aircrews during training center exercises
- Realistic collective training against a modern IADS for commanders & aircrews
- ASE B-kits / sensors are not required to be installed
- ABE is hosted on the Advanced Smart Onboard Data Interface Module (ASMODIM) that is only installed at the training centers
- Part of PEO STRI's Training ASE Simulation System (TASS)
- Requires TASS Ground Threat Emitters (GTE) to emulate Threat engagements

### Current Status

- Fielded to NTC, JRTC, and JMRC

### Path Ahead

- Sustainment / upgrade of ABE will align with ASE upgrades and collective training requirements
- TASS (with associated GTEs, etc.) is planned for 8 CAB home base locations



**2017 Directed Requirement (OPFOR IADS)**

## Embedded ASE B-Kit Emulator (E-ABE) Ft. Novosel

### Individual/Crew Training

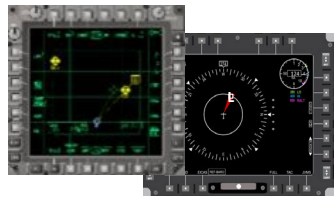
- Software application that emulates ASE functionality to aircrews during training
- Realistic Individual/Crew ASE training in a simulated modern IADS environment
- ASE B-kits / sensors are not required to be installed
- Software application to be hosted on interim processor (GETAC a candidate) installed on specific A/C identified by Ft. Novosel

### Current Status

- E-ABE SFQT Completed February 2022
- Successfully demonstrated on a customized version of PEO AVN's GETAC Laptop (added 1553 interface, removed PCM input port)
- GETAC also used for mission planning (threat engagement scenarios) and After-Action Review

### Path Ahead

- Investigating other host processor candidates for USAACoE and Fleetwide fielding
- Working towards limited, early capability fielding to Ft. Novosel in FY25



**2023 Ft. Novosel Statement of Need**

## Embedded ASE B-Kit Emulator (E-ABE) Unit Home Stations

### Individual/Crew Training

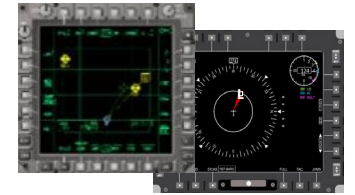
- Software application that emulates ASE functionality to aircrews during training
- Realistic Individual/Crew ASE training in a simulated modern IADS environment
- ASE B-kits / sensors are not required to be installed
- Software application hosted on an on-board processor - \*Note: No suitable PEO AVN processor is currently available on aircraft

### Current Status

- E-ABE SFQT Completed Feb 2022
- Successfully demonstrated on the IDM401-MCP hardware and OE in the S3I Software Integration Lab
- IDM 401 hardware lacks I/O for audio and 28V discreets

### Path Ahead

- Investigating other host processor candidates for USAACoE and Fleetwide fielding (AMCS LRU1, etc.)
- Targeting TIADS FOC in FY26
- TASS (with associated GTEs, etc.) is planned for 8 CAB home base locations



**2021 TIADS CDD**



# ABE / E-ABE Current and Future

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## • Current Status

- TASS(ABE) PEO STRI Program using ABE as the ASE/Threat adjudication software
  - Currently fielded at all three CTCs for Collective Training
  - PM ASE will update ASE and Threat system data as required
- E-ABE SFQT Completed Feb 2022
  - Integrated, successfully tested, and demonstrated on the IDM401-MCP hardware and OE in the S3I Software Integration Lab (IDM hardware lacks I/O for audio and 28V discreets)
  - Successfully demonstrated on a customized version of PEO AVN's GETAC Laptop (added 1553 interface, removed PCM input port)

## • E-ABE Path Forward

- Working towards limited, early capability fielding to Ft. Novosel in FY25
  - E-ABE to be hosted on interim processor (GETAC a candidate) installed on specific airframes which will be identified by Ft. Novosel - In early stages of execution
- Investigating other host processor candidates for USAACoE and Fleetwide fielding (targeting TIADS FOC in FY26)
  - Currently, no suitable PEO AVN processor is available

**KEY POINTS:** TASS(ABE) is a PEO STRI Program, supported by PM ASE to address the Collective training gap at the CTCs and select Home-stations. E-ABE is a PM ASE effort aimed at the Individual/Crew Home Station training gap. E-ABE FOC schedule for FY26 – **Dependent upon aircraft processor availability.** A limited early fielding effort at Ft. Novosel (FUE FY25) is in development. All are UNCLASSIFIED efforts. PM ASE developed and holds the unclassified training ASE systems and threat parameter data.

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# CONTACT INFO

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