

ERAM Radar Associate Software for Flight Data Processing and Radar Interface Requirements (Simulated).

Contractor will develop and provide a flight data processor software program that simulates as many ERAM EDST (Enroute Decision Support Tool) functions as possible.

The Computer Human Interface (CHI) must not contradict nor deviate from the entries made in ERAM/EDST. The expectation is tempered with realistic expectations; this does not have to be a perfect replication of ERAM/EDST, but achieve a training simulation environment where entries made by students result in appearance and functional response that simulates what would happen if it was real. The GPD flight data processing and trial planning should very closely resemble what occurs in ERAM/EDST per the description and appearance portrayed in the CBIs that we have provided.

It is vital that the radar display, position symbols, radar targets and data blocks be precisely the same or as near possible to EDST/DSR appearance. The EDST display and functionality (aircraft list, departure list, special posting area, alert columns, toolbars, voice communication indicators, embedded route text (ERT) and Graphic Plans Display (GPD) must be simulated with as near as possible to EDST employed by FAA and reproduced in similar software designs such as SOLO or SIGNAL.

Lesson Plans 43 and 46 along with the attached power-point files depict the appearance and interaction between flight data processing and radar data processing required for a successful training simulator that we are seeking. The CBIs (Computer Based Instruction) files we have provided depict the operating appearance and performance necessary to conduct medium to high fidelity training replication of EDST and radar interface.

Functionality must include: trajectory modeling, aircraft to aircraft/aircraft to air space conflict probe, FDP to RDP interface, route display, HALO, maneuver start point (probe climb/descent to LOA and normal rate of climb/descent, alert probe up to 20 minutes in the future.

Priority

1. Radar Display (maps, data blocks, lists) must conform to ERAM/DSR appearance as much as possible.
2. EDST Display must also conform in appearance as much as possible.
3. Alert columns must depict conflict probe of aircraft to aircraft and aircraft to airspace conflictions up to 20 minutes in the future.
4. Keyboard entry functionality should be the same as ERAM (Point-out protocol). PVDing a data block must be shown on EDST (Yellow then white).
5. Flight plan amendments and radar inputs should interface, i.e. an altitude amendment in the radar data block must send and show in EDST altitude columns.
6. EDST must provide trial planning of altitude changes. An altitude entry should show either RED/YELLOW or GREEN as trajectory modeling occurs.
7. Airspace is Aero Center, "Jackson Low" (Sector 66). See attached location identifiers that must be in the data base. See attached maps.

UAA RFP P19-009 Attachment 1 - UAA ERAM Aviation Documentation

UAA En Route Identifiers

OM8	Byerley Airport, LA	FUZ	Ranger VORTAC, TX
87I	Yazoo County, MS	GCV	Greene County VORTAC, MS
KABI	Abilene Vortac, TX	KGGG	Gregg County East Texas Regional Airport, TX
KABQ	Albuquerque, NM	GHM	Graham VORTAC, TN
KADW	Andrews AFB, MD	KGLH	Greenville, MS
KAEX	Alexandria, LA	KGPT	Gulf Port, MS
KAMA	Amarillo, TX	KGTR	Golden Triangle, MS
KATL	Atlanta, GA	KGWO	Greenwood, MS
KAUS	Austin, TX	KHBG	Hattiesburg, MS
KBAD	Barksdale AFB, LA	KHEZ	Natchez, MS
KBHM	Birmingham, AL	KHKS	Hawkins Field, MS
KBIX	Keesler AFB, MS	KJVW	John Bell Williams, MS
BLE	Lake Providence NDB, LA	HLI	Holly Springs VORTAC, MS
KBNA	Nashville, TN	HMU	Hammond VOR, LA
KBPT	Beaumont, TX	KHOT	Hot Springs, AR
KBTR	Baton Rouge, LA	KHOU	Houston Hobby, TX
KCAE	Columbia, SC	KIAH	George Bush Intercontinental, TX
KCBM	Columbus AFB, MS	KICT	Wichita, KS
CEW	Crestview VORTAC, FL	IGB	Bigbee VORTAC, MS
KCGI	Cape Girardeau, MO	KIND	Indianapolis, IN
KCHA	Chattanooga, TN	IRW	Will Rogers VORTAC, OK
KCLL	College Station, TX	KJAN	Jackson, MS
KCLT	Charlotte, NC	KJAX	Jacksonville, FL
CME	Chisum VORTAC, NM	KLAX	Los Angeles, CA
CNG	Cunningham VORTAC, KY	LBY	Eaton VORTAC, MS
KCOF	Patrick AFB, FL	LCH	Lake Charles, LA
CQY	Cedar Creek VORTAC, TX	KLFK	Lufkin, TX
KCVG	Cincinnati, KY (Covington Airport)	KLFT	Lafayette, LA
KDAL	Dallas Love Field, TX	KLGC	LaGrange, GA
DAS	Daisetta VORTAC, LA	KLIT	Little Rock, AR
KDEN	Denver (International Airport), CO	KLLQ	Monticello, AR
KDFW	DFW Airport, TX	KLRF	Little Rock AFB, AR
KDTN	Shreveport Downtown Airport, LA	M13	Pearl River Airport, MS
KDYR	Dyersburg, TN	M41	Holly Springs Airport, MS
EIC	Belcher VORTAC, LA	KMCB	McComb, MS
KEYY	Bessemer, AL	KMCI	Kansas City International, MO
KELD	El Dorado, AR	KMCO	Orlando International, FL
EMG	Elm Grove VORTAC, LA	KMEI	Meridian, MS
KESF	Esler Regional Airport, LA	KMEM	Memphis, TN
EWA	Kewanee VORTAC, MS	KMGM	Montgomery, AL
KFSM	Fort Smith, AR	KMIA	Miami, FL

UAA En Route Identifiers

KMLU	Monroe, LA	KTXK	Texarkana, AR
KMOB	Mobile, AL	KTYR	Tyler, TX
MON	Monticello VOR, AR	KUBS	Lowndes County Airport, MS
KMSY	Louis Armstrong, LA	KUCY	Union City, TN
KNEW	Lake Front Airport, LA	UJM	Marvell VOR/DME, AR
KNMM	Navy Meridian, MS	KUOX	Oxford, MS
KNPA	Navy Pensacola, FL	VHP	Brickyard VORTAC, IN
KOFF	Offutt AFB, NE	KVKS	Vicksburg, MS
KOKC	Will Rogers Airport, OK	VUZ	Vulcan VORTAC, AL
KOMA	Omaha, NE	KWRB	Warner-Robins AFB, GA
KORD	Chicago O'Hare, IL	KWRI	McGuire AFB, NJ
KORL	Orlando Executive, FL		
KPAH	Paducah, KY		
KPBF	Pine Bluff, AR		
KPDK	Dekalb-Peachtree Airport, GA		
KPDX	Portland, OR		
KPHX	Phoenix, AZ		
KPNS	Pensacola Gulf Coast Airport, FL		
KPOE	Fort Polk, LA		
KPRN	Greenville, AL		
PXV	Pocket City VORTAC, IN		
KRMG	Rome, GA		
KRSN	Ruston, LA		
KSAT	San Antonio, TX		
KSDF	Louisville (Standiford Airport), KY		
KSGF	Springfield, MO		
KSGT	Stuttgart, AR		
KSHV	Shreveport, LA		
KSLC	Salt Lake City, UT		
SQS	Sidon VORTAC, MS		
KSTF	Starkville, MS		
KSTL	Lambert Field (St. Louis), MO		
KSUS	Spirit of St. Louis, MO		
SWB	Sawmill VOR/DME, LA		
KTCL	Tuscaloosa, AL		
KTIK	Tinker AFB, OK		
KTLH	Tallahassee, FL		
KTNP	Twenty-nine Palms Airport, CA		
KTPA	Tampa International, FL		
KTUL	Tulsa, OK		
KTUP	Tupelo, MS		





