DIME /ADC3 Digital integra Model Envirou /Air De Comm	ALARM	AIRADE	AEM) Fig.	Non-Joii Model
Digital Integrated Model Environment /Air Defense Command, Control, Comm	Advanced Low Altitude Radar Model	Airborne Radar Detection	Arsenal Exchange Model	Arsenar Exchange Model Processor	nt-Owned M&
DIME provides a graphical user interface (GUI) and common architecture for data sharing.	ALARM is a high fidelity engineering-level ground based radar model which provides antenna propagation patterns, areas where penetrating aircraft are detected by radars in an integrated air defense system, and signal-to-noise (S/N) ratio contours of gro	r AIRADE allows the user to simulate an engagement between an airborne radar platform and a single airborne target.	AEM is an aggregated, two sided strategic exchange model designed to address strategic force analysis problems.	ALM is based on the linear programming algorithm for evaluation of a one- or two-sided nuclear exchange. AEM uses a force structure(s) combined with its related strategic planning factors and allocates weapons against an opponent's target base.	Non-Joint-Owned M&S used by Joint Components Model Name Description
US STRAT COM	US STRAT COM	US STRAT COM	US STRAT USAF COM Studie and Analys Agenc	Joint Staff	User
USAF Nat'l Air Intelligenc e Ctr (NAIC)	USAF Wright Lab /AAWA-1	USAF USAF Wright Lab /AAWA-1	USAF Studies and Analyses Agency	USAF Studies and Analysis	Config Mgt Authority
Analysis of SIOP 9X. Ongoing feasibility analysis.	Engineering level model used for 1 vs 1 analysis supporting production of SIOP 9X. Ongoing feasibility analysis.	Engineering level model Lengineering level model used to support production of SIOP 9X. Continuous feasibility analysis process.	Production of RISOP (Red Integrated Strategic Offensive Plan), ongoing. Model and evaluate United States future strategic	SIOP analysis for J5 (Aug 96, Nov 96), Arms Control and Basing (May 96), RISOP 97 (Apr 96)	Model Uses: ANALYSIS
None	None	None	0	None	TRAINING
None	None	None	o	Strategic Nuclear Mission Assessemt for DAWMS (Nov 96)	ACQUI-
Med - Low	Med	Med	High	t High	
Med - Low Possibly future 0 use with EADSIM	0	None	0	FROBAK and SODSIM	
	0	0	0	ı er	HLA, DIS, ALSP,
NA	N/A	N/A	N/A	No No	JWARS or JSIMS
1	r	I	r	ASAP	
		1	1	Later	^
	79 47 7 9 4 7	7.0 4.7	F	Retire	Recommendation
N/A	model N/A High fidelity engineeri ng level model of 1vs1 ground radars.	High fidelity 1 vs 1 engineeri	N/A	Waiver SIOP process DGZ formaulati on, weapon allocation , MIRV footprintin g, and mission planning.	ation

	EADSIM	EADSIM	EADSIM	S M	Non-Join Model
	Extended Air Defense Simulation	Extended Air Defense Simulation	Extended Air Defense Simulation	Extended Air Defense Simulation	it-Owned M&S
	Analytic model of air & missile warfare used for scenarios ranging from few-on-few to many-on-many	Analytical model of air and US ACOM missile warfare. EADSIM can model scenarios ranging from few-on-few to many-on-many, C2 decision processes, communications between platforms and intelligence collection and dissemination	EADSIM is used primarily to analyze theater-level Extended Air Defense scenarios. It is specifically designed to evaluate effectiveness and efficiency of weapons systems against targets and to evaluate different mixes of forces or resources.	A force on force model that includes joint air defense systems. It has a robust capability to perform communications modeling	Non-Joint-Owned M&S used by Joint Components Model Name Description
	COM	I US ACOM	Joint Staff	Joint Staff	User
	Army Space & Strategic Defense Cind Testbed Product Office	Army U.S. Army Space and Strategic Defense Cmd, CSSD-BC- T	Army, USA/ SSDC	L	Config Mgt
	CONPLAN development	Proposed model for analysis Possible use in support None of JTMD doctrine issues of Roving Sands 97 raised by Air Force and (Feb-May 97) Army (Nov96-Apr97)	None	% S 90 ⊒ . 9 1	Model Uses: ANALYSIS
	1L96, RS96, RS97	sis Possible use in suppor of Roving Sands 97 (Feb-May 97)	None	None	TRAINING
	None	t None	None	None	ACQUI-
	Med		Low	- Cincenty	Msn
	CAMDEN (Cooperative Air and Missile Defense Network)	training version- training version- training version- only- ACAAM, ALSP CTAPS (using (CBS) ATO post-processor), CAPS, Thunder, or stand-alone	СТЕМ	Children	_
-	DIS	training version onlyALSP (CBS)	L	L elic	HLA, DIS, ALSP,
	8	No	Not Sure	: Replace:	JWARS or JSIMS
		currently	F	ASAP	
	1	1		Later	^
	Runs at approx nanoseco nd time resolution . Best air defense simulatio n available for analysis of alternatives.	1		Retire Waiver	da

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Model Name	Warm Description Ligar Analysis TRANNING SUTON Contral of Convert Convert	Name Description User Extended Air EADSIM is used for US STRAT Defense aircraft penetration COM Simulation analysis up to the force on force level. E EPICODE Predicts downwind chemical biological or nuclear hazard based on a known source function.	Config Mgt Authority Army Space and Strategic Def Cmd /Testbed Product Office /CSSD- BC-T LLNL (Lawrence Livermore Nat'l Lab)	n. None		Msn Criticality High	O D W D W O C	10.00	9 = 5 · 2 · 8 · 0 · 0	× × × × × ×		ert Retire
Marie Description Descri	Exherted AVE EARISM Laced for Comment of Registery Market and STRAM (STRAM TOWN) STRAM Strategy of the Comment of Registery Market and STRAM (Stram Stram St	Extended Air EADSIM is used for US STRAT Defense aircraft penetration analysis up to the force on force level. E EPICODE Predicts downwind chemical biological or nuclear hazard based on a known source function.	Authority Army Space and Strategic Def Cmd Trestbed Product Office /CSSD- BC-T LLNL (Lawrence Livermore Nat'l Lab)	Force None		Criticality High			9=5			-
Defense and another process of actions of the period of th	Definition of a control of the force of the	Defense aircraft penetration COM Simulation analysis up to the force on force level. E EPICODE Predicts downwind chemical biological or nuclear hazard based on a known source function.	Space and Strategic Def Cmd /Testbed Product Office /CSSD-BC-T	₹ 5	None	low	COM's Strategic War Planning System (SWPS)		9=5			r
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and provides capability to assess details of aggregate AEM.	and provides capability to assess details of aggregate AEM.											
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MIDB	JSEM &	JRADS (HASCAL/ SCIPUFF	Mode	Non-Joi
Modernized Intelligence Data Base	Joint Services Endgame Model	Joint Resources Assessment Data System	S Hazard S Assessment System and Consequence Analysis/ Second-order Closure Integrated PUFF	Name	nt-Owned M&S
DIA system for production US CENT and analysis of general military intellignce data base. Will replace Military Intelligence integrated Data System/ Integrated Data Base (MiIDS/IDB).	seconds of air-to-air and COM surface-to-air missile (AAM, SAM) flight against penetrating aircraft.	This database provides worldwide friendly country COM installation data, U.S. industrial and infrastructure data, and worldwide population data	Calculates chemical or Biological downwind Hazard based on a known source function.	Description	Non-Joint-Owned M&S used by Joint Components
US CENT COM	COM	US STRAT	COM	User	ents
DIA (Defense Intelligenc e Agency)	Navy Naval Air Naval Air Naval Air Warfare Center China Lake, CA POC: Ms Mary Lee Kappelma n 619-939- 3945 DSN 437- 3945		DSWA	Config Mgt Authority	
CONPLAN development	Production of SIOP 9X. Ongoing fedsibility analysis	DISA Defense Informatio n Systems July. Used to support RISOP RISOP B SIOP and Theater Nuclear Nuclear Cally, Annual Wargame, RISOP RISOP RISOP	Theater Support Plans, ongoing	ANALYSIS	Model Uses:
INTERNAL LOOK 98	N/A	None	0	TRAINING	
None	N/A	None		ACQUI- SITION	
High	High	High	Med	Msn Criticality	
Provides threat data to MSDS for use in preparing data bases for JTLS, CBS, CSSTSS, ITEM, and TACWAR.	ESAMS, DIME	FAS/CIVIC, frobak	None	Used w/WHAT other Simulations?	
AN	0	None	0	HLA, DIS, ALSP, etc.	
N/A	NA	NIA	N/A	JWARS or JSIMS will Replace?	
Γ	F	-	F:	Convert ASAP	Ŧ
1				Convert	Recon
DATA BASE. Not a simulatio n.	N/A	N/A	N/A	Retire Waiver	HLA Recommendation

W IN	NEMES S	MC SS H		MPG	Non-Joint Model MIIDS / IDB
Probability of Damage (under windows environment)	Nuclear Effects Models for Estimating Sensitivities to Input Scenarios	Mapping, Charting, & Geodesy Utility Software Environment	Performance System		nt-Owned M&S
Used by the USSTRATCOM Airborborne Battle Staff to detirmine probability of damage on selected targets.			flight max-range, flight attitude, minimum enlergy flight path, and many more characteristics for ballistic missiles. It also calculates or checks footprints for MIRVed systems.		Non-Joint-Owned M&S used by Joint Components Model Name Description L MIDS / IDB Military DoD general military L DOD general military L LS
COM DSWA	US STRAT DŚWA	US ACOM DMA	COM KIRA		User
	DSWA	DMA	Studies and Analysis Squadron at the Pentagon		
0	Production of SIOP 9X and None Theater Nuclear Planning Documents. Continuous feasibility process.	Identify landing areas, ground & sea routes, to support UE95-1 & 96-1 COAs (Jan 95, Jan-Apr 96), exploitation of DMA digitial data sets	Analysis of current and future force structure, ongoing. Ongoing feasibility analysis.	Chilled Endeavor 97-1 Phase II (Oct 96); Phase III (Dec 96)	
0	None	None	None	raining provided on as. None in needed basis for theater, JTF and component staffs.	TRAINING
0	None	None	None	85- None	ACQUI- SITION
Med	Low	Low	Low	High	Msn Criticality
!	PDCALC, FAS/CIVIC	None	AEM	MSDS	Used w/WHAT other by Simulations?
1 1	NA	1	1	Réceives data from TACSIM in JTC.	HLA, DIS, ALSP
N/A	N/A	Z,	NA		JWARS or JSIMS will Replace?
Г	F	-	1	Γ	HLA Convert
1	1	1	1		
F	F	F	-	F	Recommendation Convert: Later Retire Waiv
N/A	N/A		N/A. Currently looking at new model STAMIP (used by the Air Room		dation Waiver

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Non-Join	Mode	S	RADGUNS	SAS		SIPS	S COUNTY OF THE
t-Owned M&S	1	Persistent Environments and Aircraft Response Model	RADar Directed GUN- systems Simulation	Statistical Analysis System		ū	Offense- Defense Simulation
Non-Joint-Owned M&S used by Joint Components	Description	PEARL was developed by SAIC for DNA to model the interception of dust by SIOP air routes (aircraft and cruise missiles).	An engineering-level-of-detail model which provides probability of kill data for various anti-aircraft artillery (AAA) systems versus a host of aircraft.	COTS data analysis package used by J531 to determine the compound damage expectancy by installation groups.		£ ¥ 5 2 9	source the send-to-sim simulates the end-to-end interactions of force exchanges involving RED and BLUE strategic offensive and defensive forces.
ents	User	COM	US STRAT COM	US STRAT COM		US STRAT Navy COM NSW Dahlg	COM
	Config Mgt	SAIC Corp	NGIC, DWIGHT FITZSIMO NS, (CHARLO TTESVILL E, VA)	C Box	8000	ren	Inc (owner) (7322 (ackwan na Dr WA 22150 VÀ 22150
Model Uses:	ANALYSIS	SAIC Corp Production of SIOP 9X. Model and evaluate START WII. Ongoing feasibility analysis.	NGIC, Production of SIOP 9X. DVVIGHT Continuous feasibility FITZSIMO analysis process. NS, (CHARLO TTESVILL E, VA)	Analysis of SIOP, annually (Jun-Aug) and as required. Ongoing Felasibility Analysis		Force structure analysis, target base management	Analysis of SIOP 9X and Annual Wargame (Jun- Aug). Model and evaluate START I/II
	TRAINING	None	None	None		None	as required
)	ACQUI-	None	None	None		None	None
		Med	LOW	High		Med	High
	_	N/A	None (Stand alone model)	Uses data from SODSIM and SIOP files to analyze results of annual SIOP	data are in flat file format.	AEM	None
	HLA, DIS, ALSP,	N/A	N/A	NA		1	None
	JWARS or JSIMS	N/A	NA	NA		N/A	Possibly
Ę	***************************************	ASAP		ſ			r
	Convert	Later	1	1			
Recommendation		Retire	T -	r			If full COTS. functional Not sure ty of is whether captured JWARS/ in JSIMS JWARS will be built to the same level of fidelity as SODSIM
ation		Waiver N/A	N/A	N/A COTS		N/A	COTS. Not sure whether JWARS/ JSIMS will be built to the same level of fidelity as SODSIM.

Non-Joint-	Owned M&S u	Non-Joint-Owned M&S used by Joint Components	ents		Model Uses:					1		H	Recor	Recommendation
Mode	Name	Description	User	Config Mgt Authority	ANALYSIS	TRAINING	ACQUI-	Msn Criticality	Used w/WHAT other Simulations?	HLA, DIS, ALSP,	JWARS or JSIMS will Replace?	Convert	Convert	Retire
STRATC2A M	Strategic Command and Control Architecture Model	control, and and acludes oed tition for old C3	취		Used for a variety of C3 analysis with regard to determining operational capabilities and deficiencies	None	None	High	₹ ₹	None	N/A			
STRATCAT	Strategic C3 Assesment Tool	Strategic C3 A decision support Assesment Tool software tool designed to help battle staff personnel in the Command Center, MCCC, ABNCP and Staff personnel to make timely assessments of STRATCOM C3 systems connectivity operating in stressed or benign environments.	US STRAT COM / Defense Special Weapons Agency (DSWA)	DSWA	None	Ulchi Focus Lens 96 (Aug 96), Component Training - Blue Flag 96- 4 (Sep 96), Allied Nation Training - Yama Sakura XXXI (Jan 97)	None	High	None, Stand Alone	N/A	N/A	T I	f	1
TAMPS	Tactical Aircraft Mission Planning System	Tactical Aircraft TAMPS provides flight Mission path comparisons, strip Planning charts, fuel usage, and Visualization of threats and terrain, among others.	US STRAT COM	Navy Naval Research & Developm ent (NRAD) Det Philadelphi	Production of SIOP 9X. Ongoing feasibility analysis.	System Administrator training at the Navy Marine Intelligence Training Center	None	Medium	Routes created on TAMPS are downloaded into EADSIM		WA	Г	1	1
TRAMS	Technical Radar Analysis Modeling Simulation	Technical TRAMS is a high fidelity Radar Analysis engineering level model Modeling used to generate Simulation probability of detection (PD) coefficients for ground based radars.	US STRAT COM	USAF Wright Labs/AA WA-1	Engineering level analysis supporting production of SIOP 9X. Ongoing feasibility analysis.	None	None	Low	None	-	N/A	1	1	1