

Joint-Owned M&S Used By Joint Components

Model	Name	Description	User	Config Mgt Authority	ANALYSIS	TRAINING	ACQUISITION	Msn Criticality	Used w/WVHAT other Simulations?	HLA, DIS, ALSP, etc.	JWARS or JSIMS will Replace?
<b>AWPS</b>	N/A	Not a simulation, SIOP data manipulation tool									
<b>AWPS</b>	Allocation Window Planning System	AWPS was developed under the Mating and Ranging Analysis (MARF) Software contract. AWPS is a window-based interface tool which provides support for Automated SIOP Allocation (ASA) problem definition.	US STRAT COM	US STRATCOM M J52	Production of SIOP 9X, ongoing. Weapon Function force structure analysis (as needed)	None	None	High	EADSIM/SODS 0 IM	N/A	N/A
<b>EPW</b>	N/A	Not a simulation. <Potential HLA tool>									
<b>EPW</b>	Earth Penetrating Weapon	EPW makes predictions on how effective these types of weapons would be on underground targets.	US STRAT COM	US STRATCOM LTC John Pruett, J5216	Production of SIOP 9X. Ongoing feasibility analysis.	None	None	high	none	N/A	N/A
<b>FAS/CIVIC</b>	N/A	Not a simulation, then retire, if full functionality is captured in JWARS with same level of fidelity. (USSTRATCOM)									
<b>FAS/CIVIC</b>	Fallout Assessment System/Civilian Vulnerability Indicator Code	FAS/CIVIC calculates installation damage and is the only program at USSTRATCOM that is used to calculate fatality/casualty estimates and radiation levels, maps fallout levels from nuclear strikes.	US STRAT COM	US STRATCOM J532	Production of SIOP 9X. Model and evaluate START //I	Provides output for major exercises both real time and for exercise dev	None	--	JRADS, SODSIM, PDCALC, NEWFALL,	None	Possibly
<b>MEM</b>	N/A	Not a simulation. <Potential HLA tool>									
<b>MEM</b>	Multiple Engagement Module	This model is used to assess the attrition of ICBM/SLBM portion of the SIOP against Russian Ballistic Missile Defenses.	US STRAT COM	US STRATCOM owns SAIC contractor.	Production of SIOP 9X. Model and evaluate START //I. Ongoing feasibility analysis.	None	None	High	Standalone. Not used or interfaced with any other models or simulations.	0	Possibly
<b>PDCALC</b>	N/A	Not a simulation, a model subroutine									
<b>PDCALC</b>	Probability of Damage Calculator	PDCALC is used to calculate the probability of damage (PD) to targets due to nuclear weapon effects from overpressure, dynamic pressure, cratering, and ground shock	US STRAT COM	US STRATCOM J532	War plan analysis. Force on force analysis. Force structure analysis	None	None	high	PDCALC is a FORTRAN subroutine and does not stand-alone but rather is embedded in other applications.	N/A	No, but could reside in JWARS or JSIMS for calculating damage due to nuclear weapons.
<b>SIMON</b>	N/A	Not a simulation, a data base tool.									
<b>SIMON</b>	SIOP MONITORING	Used to maintain a current data base of the weapons, delivery vehicles and targets for the SIOP on the USSTRATCOM Airborne Command Post.	US STRAT COM	US STRATCOM J363 / J3621	0	0	0	HIGH	PMARS, SATS, PDCALC, MUSE, WORD	N/A	N/A
<b>ARMS</b>	N/A	not a simulation									

→ + Over to time?

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Model ARMS	Name	Description	User	Config Mgt Authority	Model Uses:				Msn Criticality	Used w/WHAT other Simulations?	HLA, DIS, ALSP, etc.	JWARS or JSIMS will Replace?
					ANALYSIS	TRAINING	ACQUI-SITION					
	Automated Routing and Maintenance System	Mission planning system for SIOP production of B-52s, B-1Bs, Air Launched Cruise Missiles (ALCMs) and Advanced Cruise Missiles (ACMs). ARMS is also used for Conventional ALCM (CALCM) planning.	US STRAT COM	US STRAT COM / J6	N/A	N/A	N/A	High	N/A	N/A	N/A	
<b>CMARP</b>	N/A not a simulation											
	Combined Mating and Ranging Planning System	Used to plan reconnaissance routes in support of SIOP.	US STRAT COM	US STRAT COM / J52	0	0	0	High	N/A	N/A	N/A	
<b>DTF</b>	N/A not a simulation											
	Direct to Force Program	Used by the USSTRATCOM Airborne Battle Staff to replan/or use of SLBM's, in determining SLBM range and footprint in relationship to it's target.	US STRAT COM	US STRAT COM	0	Uchi Focus Lens 96 (Aug 96), Component Training - Blue Flag 96-4 (Sep 96), Allied Nation Training - Yama Sakura XXXI (Jan 97)	0	High	0	0	N/A	
<b>MGPS</b>	N/A not a simulation											
	Missile Graphics-Planning System	MGPS is a window-based application which plans and times ICBM and SLBM sorties for the SIOP.	US STRAT COM	US STRAT COM / J6	Production of SIOP 9X, ongoing. ICBM/SLBM laydown, maintenance, and timing as required	new planners receive training at TRW	0	High	Aircraft Planning System (APS)	N/A	N/A	
<b>MIL-AAASPEM II</b>	Convert Later (USSTRATCOM)											
	Man-In-The-Loop Advanced Air-to-Air Performance Evaluation Model	An air-to-air model which provides detailed data on engagement geometry, missile launch envelopes and fighter maneuvers for few-on-few air combat engagements.	US STRAT COM	US STRAT COM / J534	Production of SIOP 9X. Continuous feasibility analysis process.	None	0	None	None	HLA is a goal for the community	N/A, probably beyond the scope of fidelity of what JWARS/JSIMS are targeted to achieve	
<b>NIDS</b>	N/A not a simulation											
	National Desired Zero List Integrated Development System	Produces the National Desired Ground Zero List for Weapon Allocation	US STRAT COM	US STRAT COM / J6611B	0	0	0	HIGH	NTB, Weapon Allocation	N/A	N/A	
<b>PMARS</b>	N/A not a simulation											

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PMARS	PMARS	PMARS													High
PMARS	Portable Missile and Aircraft Replanning Software	Used by the USSTRATCOM Airborne Battle Staff to replan ICBM's and nuclear equipped aircraft.	US STRAT COM	US STRAT COM											
<b>SAMARMS</b>	N/A not a simulation														
SAMARMS	Surface-To Air Missile Automated Routing and Maintenance Simulation	The SAMARMS model produces land-based and naval threat SAM/Penetrator grid templates for use by ARMS.	US STRAT COM	US STRAT COM / J6						Buzzsaw	0	None	None	Production of SIOP 9X	
<b>SAMCHK</b>	N/A not a simulation														
SAMCHK	Surface-To Air Missile Check	SAMCHK calculates the probability of kill for a single sortie encounterer with a SAM site. It displays various results used to verify parametric data and methodology coding.	US STRAT COM	US STRAT COM / J6						BUZZSAW, SAMARMS, SAMPK	Med	None	None	Production of SIOP 9X	
<b>SAMPK</b>	N/A not a simulation														
SAMPK	Surface-To Air Missile Probability of Kill	The SAMPK attrition model simulates the interaction between SAM defensive systems, and penetrating aircraft, and cruise missiles.	US STRAT COM	US STRAT COM / J6						BUZZSAW, SAMARMS, SAMCHK	Med	None	None	Production of SIOP 9X. Continuous feasibility analysis process.	
<b>SMARP</b>	N/A not a simulation														
SMARP	Strategic Mating and Ranging Program	Mission planning system for SIOP production of tanker sorties.	US STRAT COM	US STRAT COM / J52							High	N/A	N/A	N/A	