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Principal Author: <b>David Fulk</b>	Other Author(s): Doug Blazer and Rob Kline	
Principal Author's Organization and complete mailing address: 735 SCMG/CCX (LMI)  23 Sweeney Blvd Langley AFB, VA 23665	Principal Author's Signature: <b>X</b> Date:  Phone: 757-225-0920 FAX:  Email: dfulk@lmi.org	
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# Abstract

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This presentation will describe research into a potential new method of computing the supply portion of the Status Of Resources and Training System (SORTS) in the Air Force using enterprise data. Presently supply SORTS ratings are performed by squadron using the Aircraft Sustainability Model (ASM) to compute aircraft availability based on the war plans and assets currently available. A squadron can be rated poor (S-3 or S-4) even though there are sufficient parts in the inventory, just not at that location. The techniques examined in this work use enterprise-wide assets and the entire war plan (not just 1 squadron) to determine how well a particular weapon system is postured to fight that scenario. Additional scenarios were also examined. Finally, methods to correct the deficiencies identified in the assessment were examined. This should allow for achieving the best overall ratings for a weapon system.



# Using Enterprise Assessments for SORTS Ratings

5 Jun 08

Dr David Fulk  
Dr Doug Blazer  
Mr Rob Kline



THE OPPORTUNITY TO MAKE A DIFFERENCE HAS NEVER BEEN GREATER

## Purpose/Overview

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- Describe research into a potential new method of computing the supply portion of the Status Of Resources and Training System (SORTS) in the Air Force using enterprise data
- Presently supply SORTS ratings are performed by squadron using the Aircraft Sustainability Model (ASM) to compute aircraft availability based on the war plans and assets currently available on the base
  - A squadron can be rated poor (S-3 or S-4) even though there are sufficient parts in the inventory, just not at that location
- In this work we used enterprise-wide assets and the entire war plan to determine how well a particular weapon system is postured to fight that scenario
  - Additional scenarios were also examined.
  - Methods to execute the assessment were examined

# Agenda

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- Background and Description
- Assessment Part
- Execution Part



# Agenda

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- **Background and Description**
  - **SORTS**
  - **Current Process**
  - **Why an Enterprise System**
  - **Future Enterprise Process**
- **Assessment Part**
- **Execution Part**



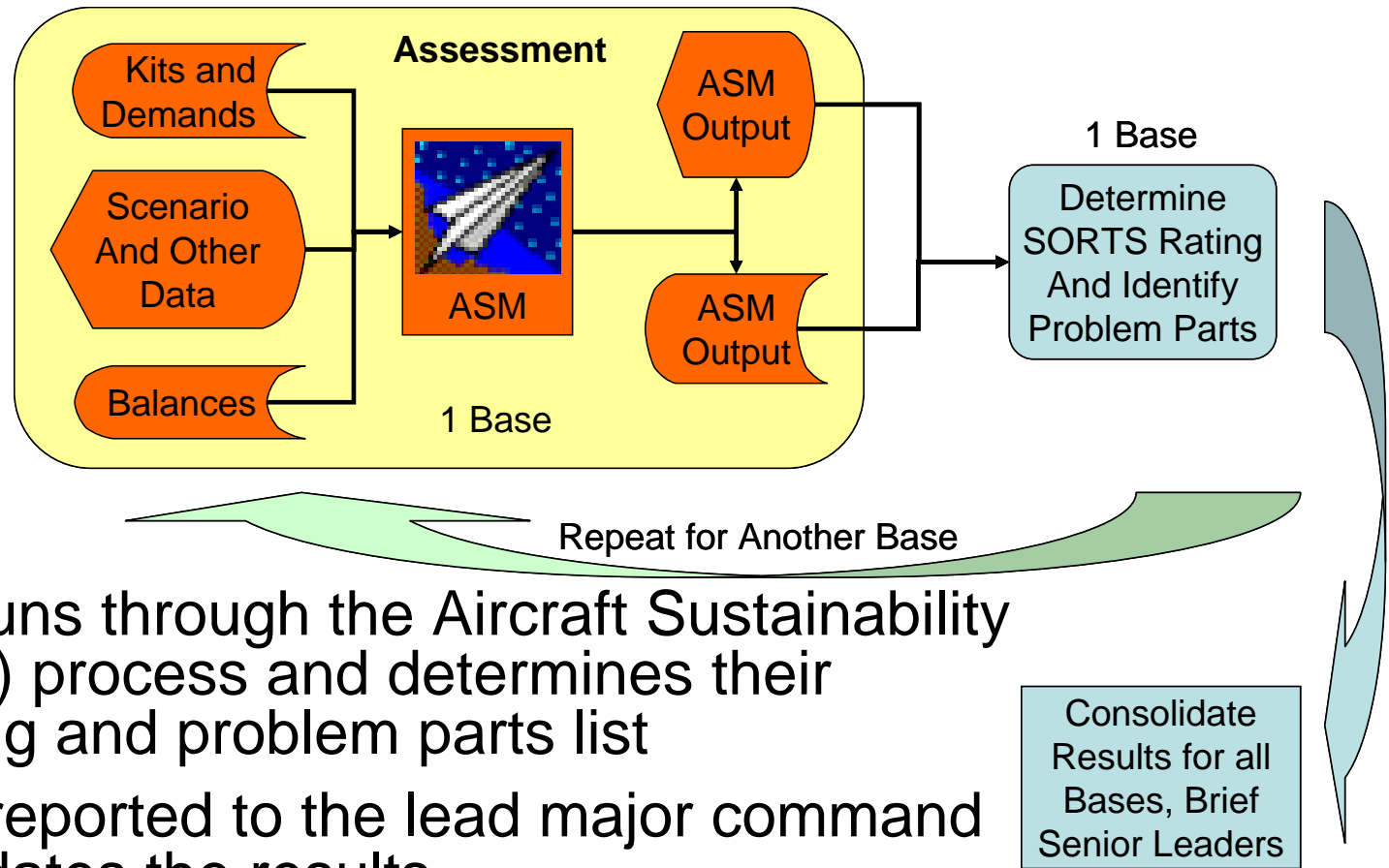
# SORTS



- Status of Resources and Training System (SORTS) is a system the military uses to evaluate the readiness for the next major war
- The SORTS rating in the Air Force consists of four pieces
  - Equipment Condition (R)
  - Supply and Equipment (S)
  - Training (T)
  - Personnel (P)
- The supply SORTS assessment (sometimes referred to as the S-rating) evaluates the readiness spares package (RSP)
  - A high S-rating means the serviceable parts in the kit are sufficient to generate required sorties
  - A low S-rating indicates the unit may not be able to achieve its wartime mission requirement



# Current Assessment Process



- Each base runs through the Aircraft Sustainability Model (ASM) process and determines their SORTS rating and problem parts list
- Results are reported to the lead major command who consolidates the results
- No fleet-wide assessment or rating is provided



# Why an Enterprise System?

---



- RSP kits are enterprise assets, not just base assets
- Total capability is more than what each base has in their kit
  - Reporting individual base assessments is not an accurate measure of the fleet capability
- Base assessment and reporting process is error prone
- Assessing the supply support is more than just the strategic viewpoint used in the SORTS assessments
  - The ability to determine readiness to cover nearer term/smaller scale operations is also important
- The AF Global Logistic Support Center should have the ability to move assets where they are needed
  - Bases have no enterprise view to determine enterprise capability



# Prototype Changes

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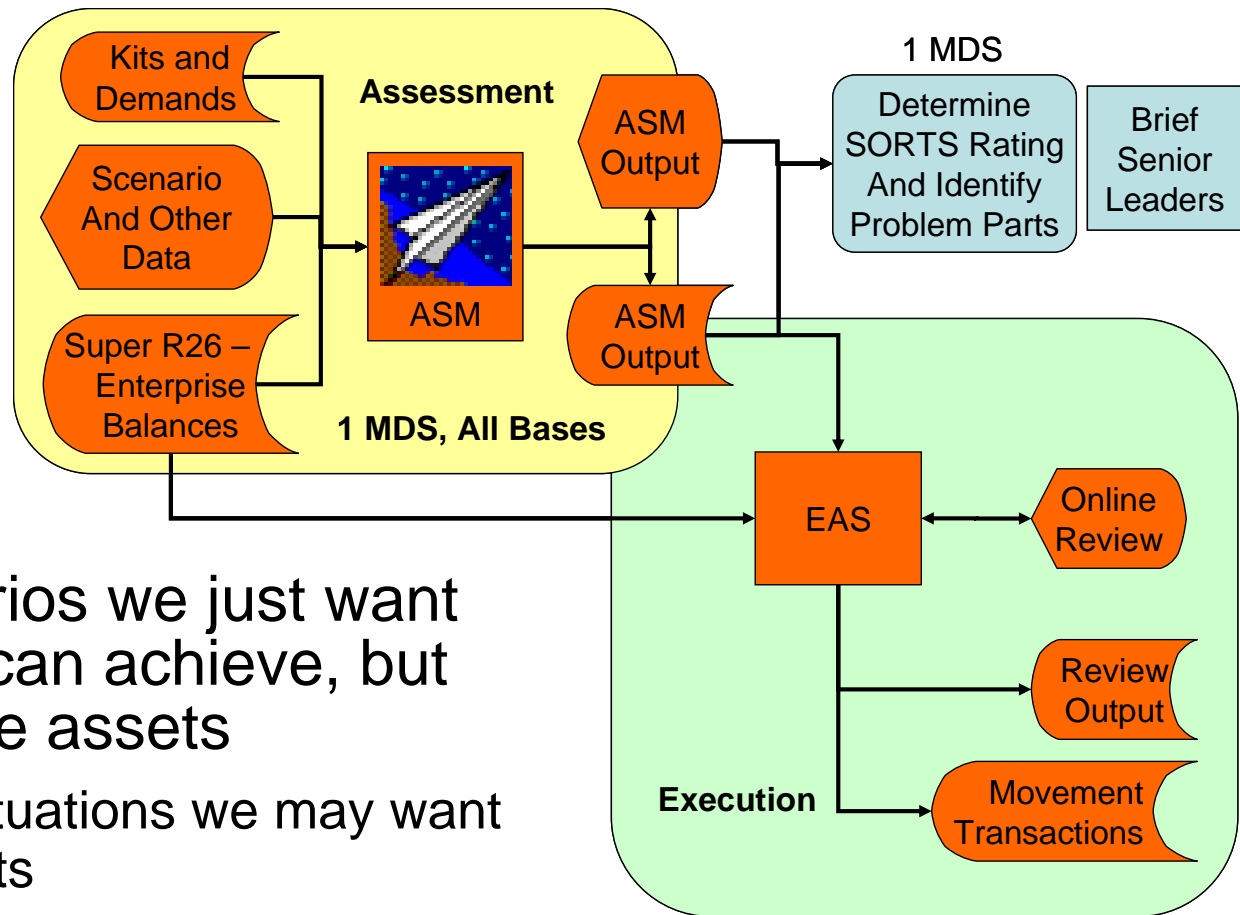
- Three major changes were required to make this happen
- Input
  - Developed a “super R26” with worldwide serviceable balance data for a given fleet
- Assessment
  - Developed an ability within ASM for various enterprise allocation schemes
  - Added abilities to read and output fleet-wide data
- Execution
  - Added an ability to source and generate transactions to reallocate assets



# The New Prototype Enterprise System



- The Assessment system is similar to current processes to determine the availability and compute the achievable levels
- For certain scenarios we just want to know what we can achieve, but don't want to move assets
  - However, other situations we may want to reallocate assets
  - So we added an execution part to optimally source and generate transactions to move assets



# Agenda

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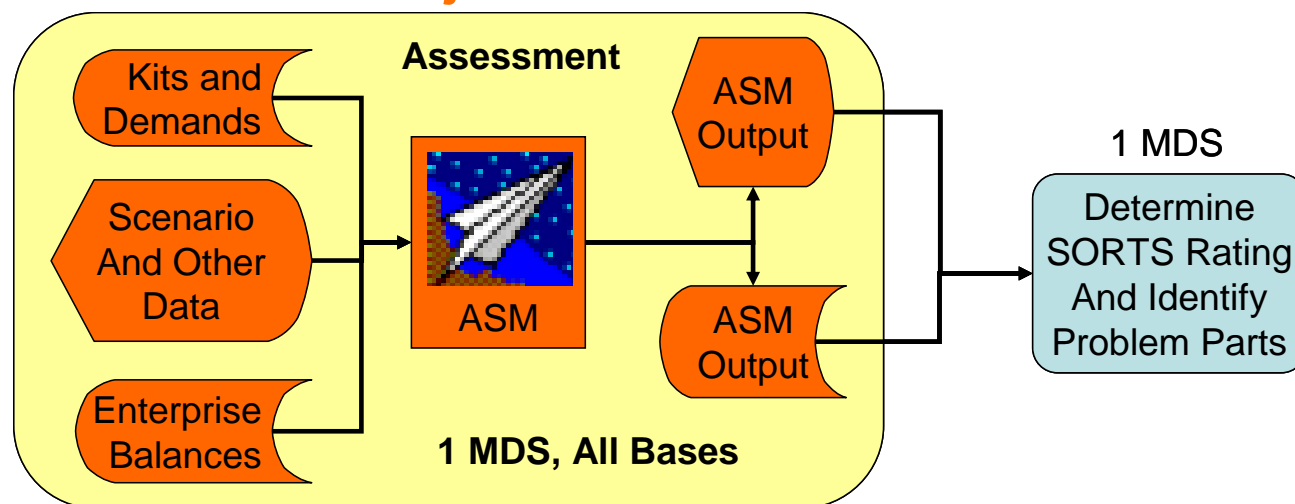


- Background and Description
- **Assessment Part**
  - **Changes to the Assessment Model**
  - **New Scenarios**
- Execution Part



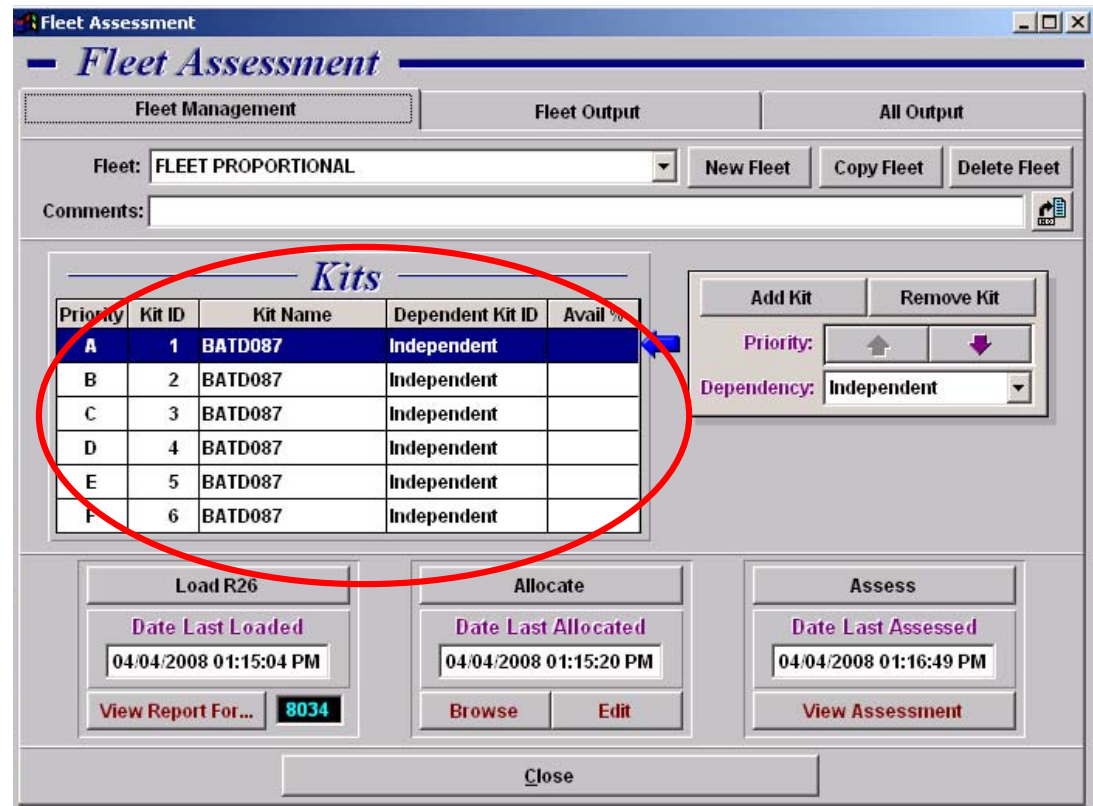
# Assessment Process

- Assessments are done today using **LMI's PC Aircraft Sustainability Model (ASM<sup>®</sup>)**
  - A single place where the entire computation occurs
  - ASM computes availability, sorties flown, fill rates, and problem parts which is used to determine an S-rating
  - The Enterprise Assessment prototype follows the same steps, just for an entire MDS not just 1 base**
- Provides
  - An assessment that considers all assets
  - Both a base and a fleet-wide rating and problem items
  - Potential for multiple scenarios



# Multiple Kits

- ASM allows for reading multiple kits
- Kits do not need to have the same range
- Recommend using all kits for a single weapon system
- However you can use multiple weapon systems if desired

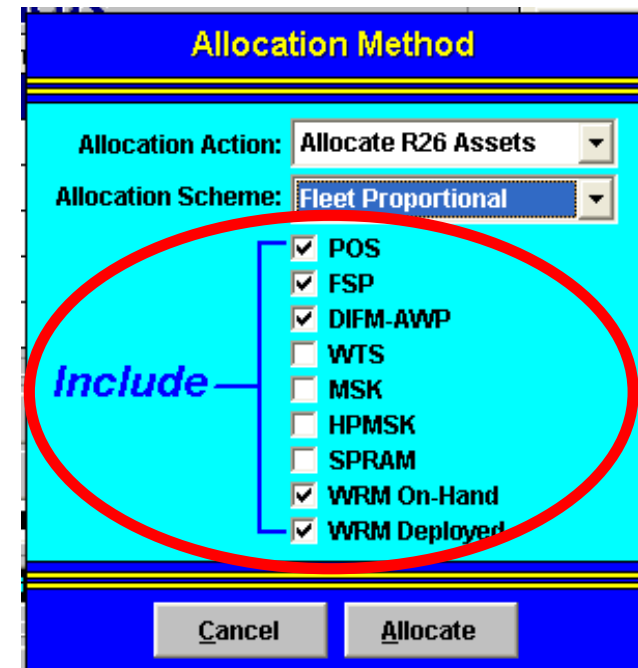


Priority	Kit ID	Kit Name	Dependent Kit ID	Avail
A	1	BATD087	Independent	
B	2	BATD087	Independent	
C	3	BATD087	Independent	
D	4	BATD087	Independent	
E	5	BATD087	Independent	
F	6	BATD087	Independent	



# Allocating Methods

- The user can select the types of assets to include
- The user also selects from 2 fleet allocations
  - Fleet Proportional
  - Fleet Priority



**Allocation Method**

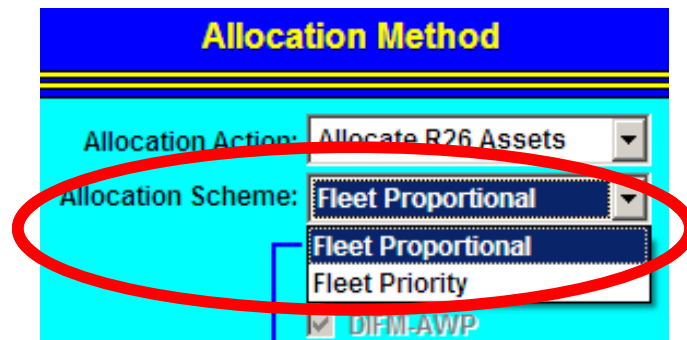
Allocation Action: Allocate R26 Assets

Allocation Scheme: Fleet Proportional

*Include*

- POS
- FSP
- DIFM-AWP
- WTS
- MSK
- HPMSK
- SPRAM
- WRM On-Hand
- WRM Deployed

Cancel Allocate



**Allocation Method**

Allocation Action: Allocate R26 Assets

Allocation Scheme: Fleet Proportional

- Fleet Proportional
- Fleet Priority

DIFM-AWP

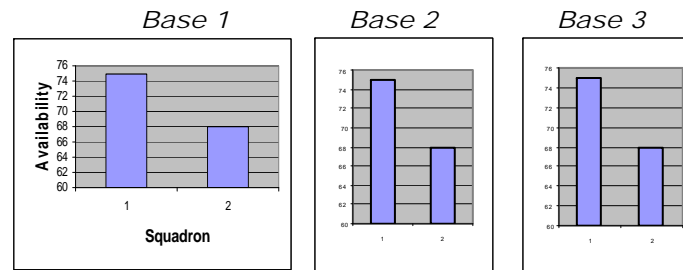


# Expand ASM Assessments from Base to Enterprise

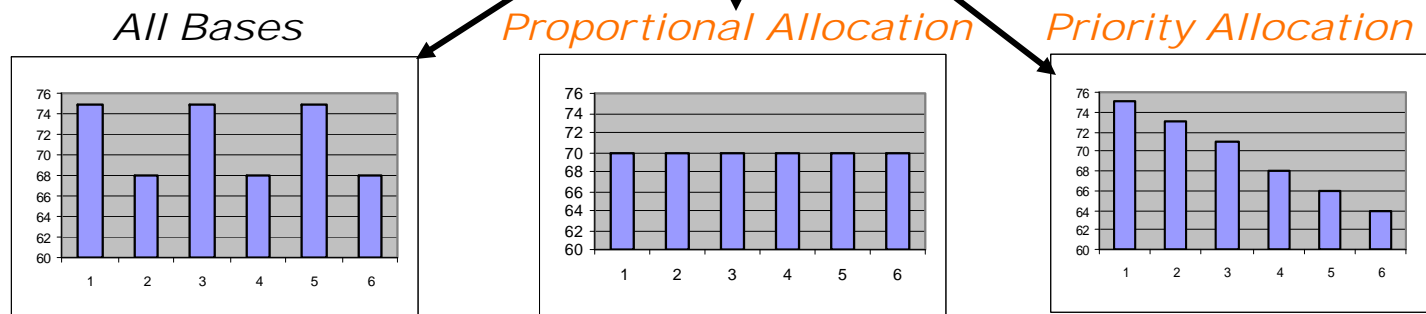


- Example: F-15E is at 3 bases, 2 squadrons each
- ASM forecasts availability by squadron, base, and now enterprise
- **New methods for fleet allocation**

*Current  
Base  
View*



*Enterprise  
View*



# Enterprise Allocation

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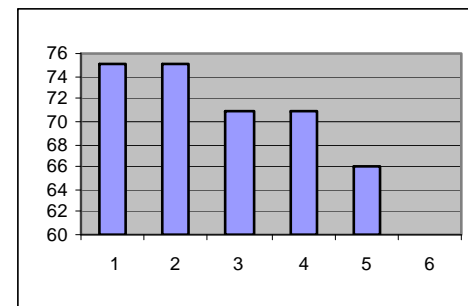
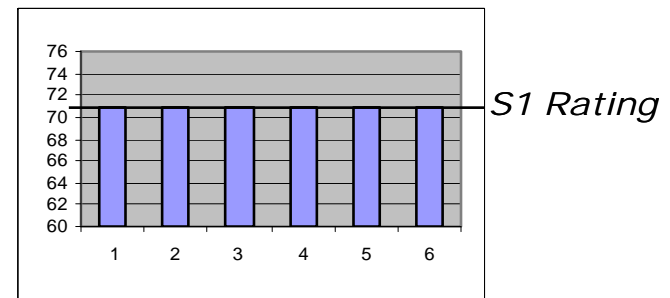
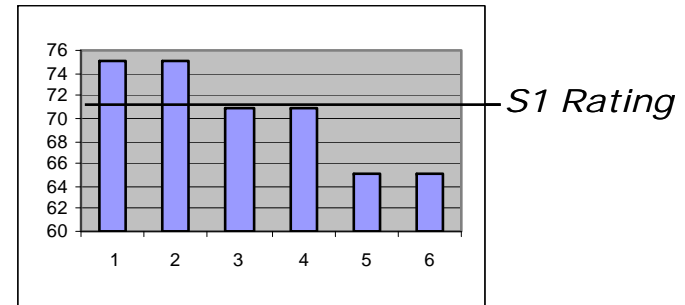
- **Enterprise allocation:** two new alternatives using all available spares
  - **Proportional Allocation** spreads spares evenly based upon authorization (fill rate):
    - Goal: bring all squadrons to the same performance
    - Starts with “pile of spares” and empty kits
  - **Priority Allocation** fills top priority squadron optimally (bang/buck) until availability target or item authorization is reached
    - Goal: provide a flexible option for different scenarios
    - Fills up to DSO target for each squadron – generates an achievable target level



# New Enterprise Priority Allocation



- Distributes enterprise assets across squadrons
  - Base Allocation: Assess general performance across fleet
  - Set availability targets to S1 rating (e.g., 71%) to see how many squadrons can achieve it
  - Set squadron availability targets based upon priority categories (EAF cycle) :
    - Deployed = 75%
    - Next to deploy = 71%
    - Later AEF = 65%
    - Just returned = remaining assets



## Possible Scenarios

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- Traditionally, SORTS assessments are computed using a WMP-5 scenario
  - This is useful for strategic planning, but does not inform senior leadership about the ability to cover near-term contingencies
- If assessments are being done **centrally** and for an **entire MDS** in **not much more time** than a single base, then the concept of using multiple scenarios becomes feasible
  - GLSC can perform enterprise assessments in about the same time as a base assessing its squadron
- Potential scenarios include
  - Planning scenarios: WMP-5 or WMP-4
  - Regular rotations: EAF construct
  - Other contingencies



# Potential Assessments

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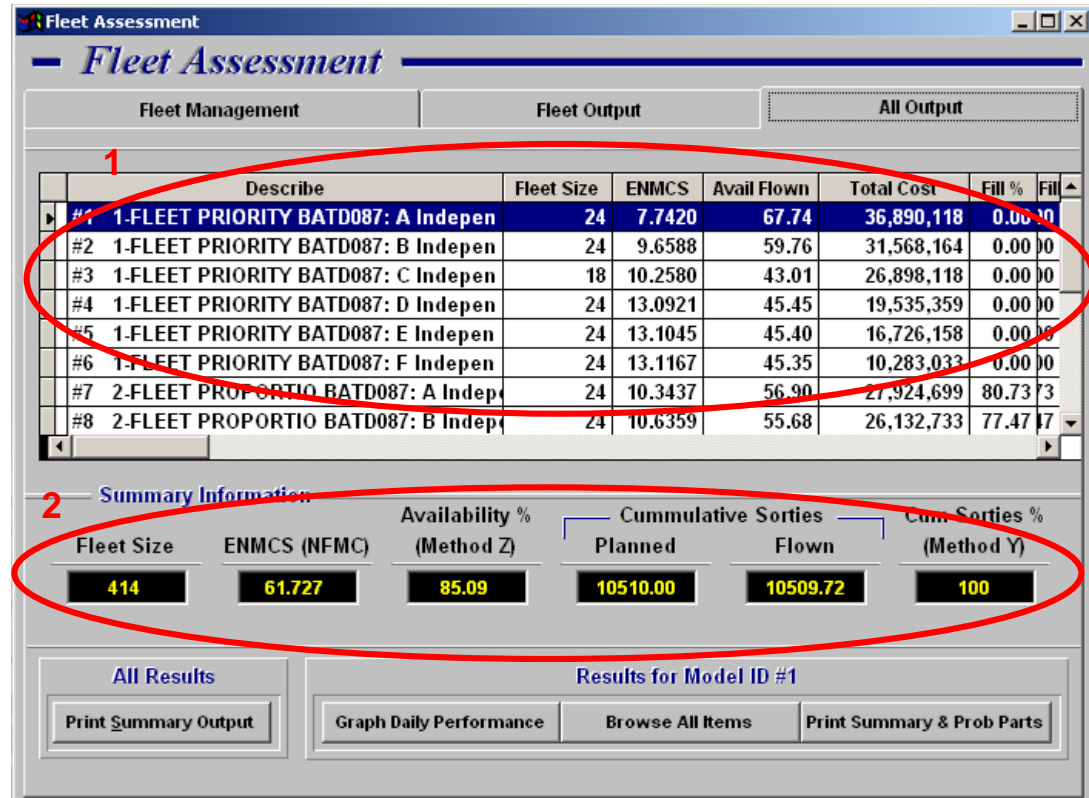


- WMP-5 by Squadron – Assess by squadron like today – what is each squadron’s on-base strategic ability
- WMP by MDS – Enterprise assessment against a wartime planning scenario – what is the fleet’s strategic ability
  - Optimally allocate all available assets
- Contingency Assessment – Assess using enterprise assets against a specific scenario with squadron DSO targets to identify optimal mix of available assets – what can be done today



# Prototype Assessment Results

- All kits are shown with their individual performance (1)
- Fleet totals are available at the bottom of the screen (2)
- Can select any squadron to examine problem parts and daily performance
- Will also be able to examine problem items by fleet



**1**

	Describe	Fleet Size	ENMCS	Avail Flown	Total Cost	Fill %	Fill
#1	1-FLEET PRIORITY BATD087: A Indepen	24	7.7420	67.74	36,890,118	0.00	00
#2	1-FLEET PRIORITY BATD087: B Indepen	24	9.6588	59.76	31,568,164	0.00	00
#3	1-FLEET PRIORITY BATD087: C Indepen	18	10.2580	43.01	26,898,118	0.00	00
#4	1-FLEET PRIORITY BATD087: D Indepen	24	13.0921	45.45	19,535,359	0.00	00
#5	1-FLEET PRIORITY BATD087: E Indepen	24	13.1045	45.40	16,726,158	0.00	00
#6	1-FLEET PRIORITY BATD087: F Indepen	24	13.1167	45.35	10,283,033	0.00	00
#7	2-FLEET PROPORTIO BATD087: A Indepen	24	10.3437	56.90	27,924,699	80.73	73
#8	2-FLEET PROPORTIO BATD087: B Indepen	24	10.6359	55.68	26,132,733	77.47	47

**2**

**Summary Information:**

Fleet Size	ENMCS (NFMC)	Availability % (Method Z)	Cummulative Sorties Planned	Cummulative Sorties Flown	Cum. Sorties % (Method Y)
414	61.727	85.09	10510.00	10509.72	100

Buttons: All Results, Results for Model ID #1, Print Summary Output, Graph Daily Performance, Browse All Items, Print Summary & Prob Parts



# Agenda

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- Background and Description
- Assessment Part
- **Execution Part**
  - **Overview**
  - **Execution Assessment Sourcing Software**



# Execution Overview

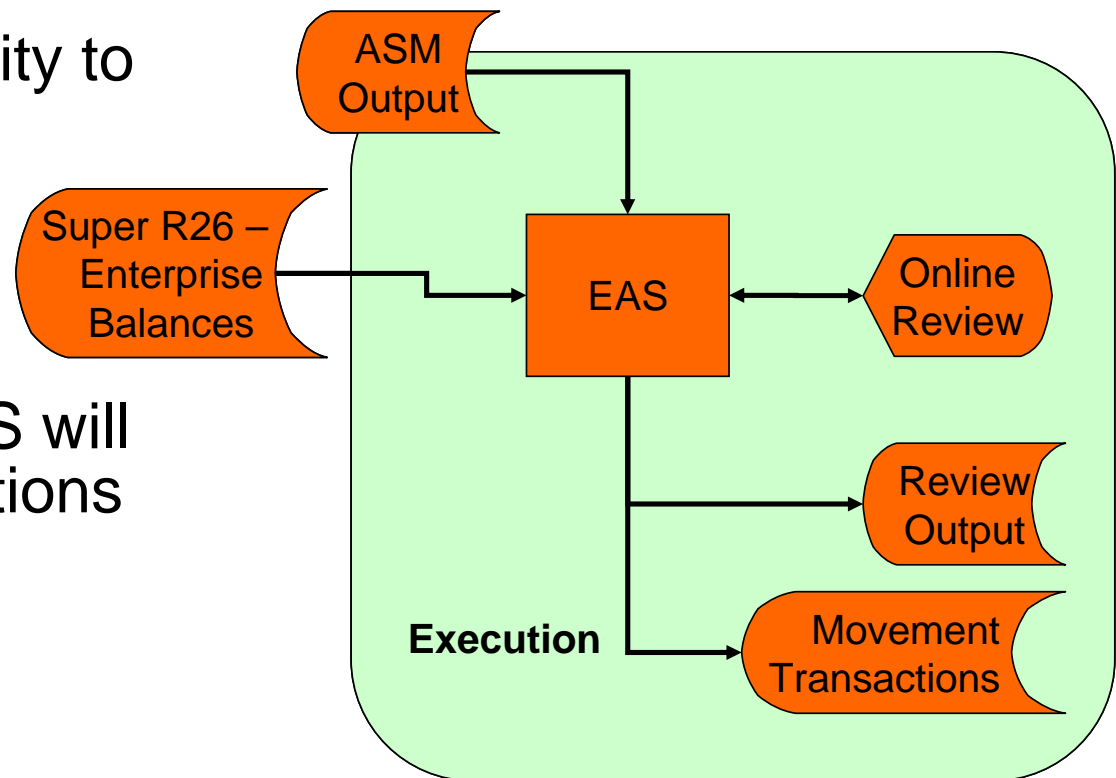
- For certain scenarios we just want to know what we can achieve, but don't want to move assets
  - However, other situations we may want to reallocate assets
  - So we added an execution part to optimally source and generate transactions to move assets
- Execution Part follows the Assessment Part
  - Uses output from the Assessment, especially the “achievable target”
- Determines which assets should be reallocated to which kit to achieve best possible support at least cost and mission impact

Kit – Base	Auth Qty	Achieve Tgt	Current SB	Final SB
1 – Base A	6	6	4	6
2 – Base B	4	4	2	4
Base C			3	1
Base D			4	3
Base E			4	3
	10	10	13	13

# Enterprise Assessment Sourcing (EAS)



- The EAS program uses the ASM output and a set of rules to source the assets
- EAS provides for an online review of the results
- The user has the ability to override the system
  - Determine items that will/won't move
  - Change sourcing
- If user approves, EAS will generate the transactions to move the items



# Sourcing Logic

---



- Logic considers base priority, geographical area, and degree of support (fill rate)
  - Source from lowest priority base at the closest geographical region with highest fill rate to meet the “optimal” achievable aircraft availability
- Rules to prioritize sourcing of existing assets
  - POS excess, RSP excess, least hurt (fill rate)
  - Lower control limits (such as expected pipeline) for non-RSP bases
- Apply by MDS
  - Common parts not accounted for yet



# Rules

---

1. Source from the same base up to all Peacetime assets and all Wartime above the targets
2. Source from any other base with Peacetime excess
  - a. Source by Geographic cat
3. Source from any other base with Wartime excess
  - a. Source by Geographic cat
4. Take all the Peacetime except those without kits, leave them Pipeline
  - a. Source by Geographic cat
    - i. Source by total Fill Rate
5. Take all the Wartime  $>$  Tgt except those with Tgt =0, leave them 1
  - a. Source by Geographic cat
    - i. Source by total Fill Rate
6. Take everything down to 0 Peacetime and Wartime Tgt
  - a. Source by Geographic cat
    - i. Source by total Fill Rate
7. Nothing to source: No Balance (Peacetime + Wartime = 0) or Balance, but sub-optimal (Peacetime = 0, Wartime  $<$  Wartime Tgt)



# Rule Notes



- **Geographic Cat**

- Source from area at the top to fill a base in area on the left
- Chart provides geographic bands

	Source (file from this area):				
To Fill:	Deployed	USAFE	PACAF	Eastern CONUS	Western CONUS
Deployed	Last	2 <sup>nd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>	1 <sup>st</sup>
USAFE	Last	1 <sup>st</sup>	4 <sup>th</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
PACAF	Last	4 <sup>th</sup>	1 <sup>st</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>
Eastern CONUS	Last	3 <sup>rd</sup>	4 <sup>th</sup>	1 <sup>st</sup>	2 <sup>nd</sup>
Western CONUS	Last	4 <sup>th</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	1 <sup>st</sup>

- **Total Fill Rate**

- $FR = [ (Peacetime\ SB + Wartime\ SB) / (Peacetime\ Level + Wartime\ Tgt) ]$




# Editing Data and Rules

- User can edit
  - Rules to use
  - Peacetime types to consider
  - Base data, especially bases to not source from
  - Geographic category definitions

**EAS Edit/View Rules Usage Form**  
 Allows Viewing and Editing of Rule Usage

Select the Types of Data to Source as POS:

- Rule 1: Use the Same SRAN
- Rule 2: Use POS Excess
- Rule 3: Use RSP Excess
- Rule 4: Use POS to Pipeline (no RSP) or to 0 (with RSP)
- Rule 5: Use RSP to target (target > 0) or 1 (if target = 0)
- Rule 6: Use POS to 0 and RSP to target


  
 Save and Close Form

**EAS Edit/View POS Usage Form**  
 Allows Viewing and Editing of POS Usage Criteria

Select the Types of Data to Source as POS:

- POS
- FSP
- DIFM-AWP
- MICAP
- WTS
- MSK
- HPMSK
- SPRAM

**EAS Edit/View SRANs Form**  
 Allows Viewing and Editing of SRAN Data

SRAN	Base	Cat	MAJCOM	Source From This?
FB2027	Hill	6	AFMC	<input checked="" type="checkbox"/>
FB2037	Tinker	6	AFMC	<input checked="" type="checkbox"/>
FB2047	McClellan	6	AFMC	<input checked="" type="checkbox"/>
FB2050	Lackland Fuels	6	AETC	<input checked="" type="checkbox"/>
FB2067	Robins	5	AFMC	<input checked="" type="checkbox"/>
FB2300	Wright Patterson	5	AFMC	<input checked="" type="checkbox"/>



# EAS Online Review

- 1. Kit Auth Qty = 1 for each kit, Achievable Targets from ASM range from 0 to 1
- 2. Kit Initial SB mostly 0, some with 1
  - So we need to source many assets
- 3. There are 10 POS assets total at a few bases, many with 0
- 4. There is 3 RSP assets total at 2 bases, rest 0
- 5. Source the 2 available assets
  - Move 1 from POS at FB4819 to the kit
  - Move 1 from POS at FB4852 to the kit

**Enterprise Assessment Sourcing**  
Allows Viewing and Editing of Sourcing Data

All Items  
 Short Items

NSN: 1005003268701GG

Just POS  
 Just RSP  
 Both POS and RSP  
 Any RSP  
 All Types

Kits						Balances						
KSN	SRAN	Auth	Target	Init SB	Final SB	SRAN	POS ISB	POS FSB	RSP ISB	RSP FSB	POS Lvl	POS Pipe
DF015E1C240A	FB4809	1	0	1	1	FB2823	1	0	0	0	0	0
DF015E1C240B	FB4809	1	1	1	1	FB4800	0	0	0	0	0	0
DF015E1C240D	FB4897	1	1	0	1	FB4801	0	0	0	0	0	0
DF015E1C1800	FB4897	1	0	0	0	FB4803	0	0	0	0	0	0
DF015E0D240B	FB5587	1	0	1	1	FB4804	3	0	4	0	0	0
DF015E0D240A	FB5587	1	1	0	1	FB4809	0	0	1	1	0	0

Record: 1 of 6

Record: 1 of 30

Source							
KSN:	SRAN	From SRAN	Type	Qty	New Qty	Error	Accept?
DF015E0D240A	FB5587	FB4819	POS	1		<input type="checkbox"/>	<input checked="" type="checkbox"/>
DF015E1C240D	FB4897	FB4852	POS	1		<input type="checkbox"/>	<input checked="" type="checkbox"/>
*						<input type="checkbox"/>	<input checked="" type="checkbox"/>

Record: 1 of 2

Record: 1 of 178 (Filtered)

Kit Serial Number

FLTR

Update Sourcing

Save and Close Form



# Movement

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- Once identified and approved, the user will be able to create a file of transactions to move the assets
- These will be text files that should be sent to stock control to load on each base's system



# Summary

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- LMI developed a prototype enterprise assessment and execution capability
  - Initial prototype is ready for use
  - Continued development will result in an improved SORTS assessment and tools to make it happen
  - Need to develop procedures for use of the model and SORTS
- The prototype capability allows for a fleet-wide assessment
  - RSP kits are enterprise assets, not just base assets
  - Total capability is more than what each base has in their kit
- Assessing the supply support is more than just the strategic viewpoint used in the SORTS assessments
  - This ability can determine readiness to cover nearer term/smaller scale operations



# Future Enhancements

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- Super R26
  - Re-write SR26 into standard products (ESS or Discoverer)
  - Separate HPMSK and CHPMSK
  - Obtain depot assets
- ASM
  - Usability enhancements
  - Functionality enhancements
- EAS
  - Add movement transaction capability
  - Separate IRSP/MRSP
  - Re-write into standard product (ESS)
- Other
  - CRSP
  - CHPMSK
  - Common Items
  - New SORTS Ratings definitions



# Questions



**LMI**

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# Existing Base Allocation

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- **Base allocation** currently uses *Organization Priority* or *Priority Reallocation*
  - **Organization Priority** starts with *existing kit* and *allocates (robusts) base peace spares* to highest priority unit until filled and then next highest priority unit
  - **Priority Reallocation** starts with *an empty kit* and fills highest priority squadron up to authorization level with *base peace and wartime spares* and then applies remaining spares to fill next squadron and so on



# ASM Scenario



- The target and scenarios data are entered as the files are read
- These can be edited and changed later

Baseline Kit - View \ Edit Parameters

Parameters Scenario Advanced Parameters Delivery

Kit Name: **F15 DEMO A** Description: **DEMO A**  
 Kit ID Number: **18** System: **0F015C1C240FA** Date: **04/19/2008**

View

Analysis Year: **1999** Asset Projection: **Current** Coverage Period: **0.00**

1st Analysis Day Information Fleet Size 1: **24**  
 1st Analysis Day: **5** 2nd Analysis Day Information Fleet Size 2: **24**  
 1st NMCS Target: **4.00** 2nd NMCS Target: **6.00**  
 1st Availability: **83.00** % 2nd Availability: **75.00** %  
 1st Confidence: **0.00** % 2nd Confidence: **0.00** %  
 1st Budget:   
 Cannibalization: **LRUs=Yes: SRUs=Y**

Comment:   
 Find Kit

Baseline Kit - View \ Edit Parameters

Parameters Scenario Advanced

Steady-State (Day 0)  
 Total Hours: **0.00**  
 Sum of Bases:   
 Select Data Entry Mode  
 Enter Hours by Day for 1 Base  
 Compute Hours from Sortie R  
 Enter Non-Uniform Base Data  
 Enter Non-Uniform Base & Sortie  
 Enter Non-Uniform Base & Avail. 1

Enter data  
 $Hrs/Day = Hrs/Sortie \times Sortie Rate \times Fleet$

Range	Change Day	Hrs/day	Hrs/Sortie	Sortie Rate	Fleet	Max Sortie
Day 1-5	1	84.00	1.75000	2.00000	24	2.500
Day 6-30	6	48.00	2.00000	1.00000	24	2.500



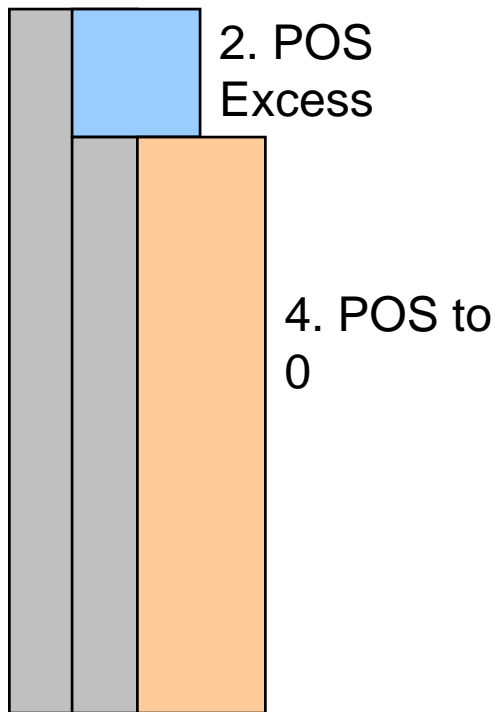
# Sourced Base with RSP



**POS Serviceable Balance**

**POS Level**

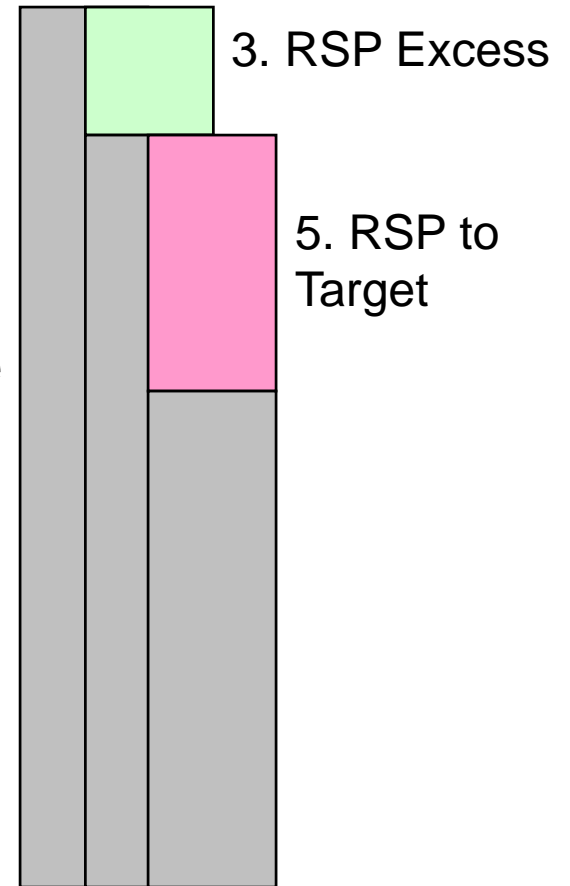
**Pipeline**



**RSP Serviceable Balance**

**RSP Auth Qty**

**RSP Achievable Target**



# Sourced Base without RSP



**POS Serviceable  
Balance**

**POS Level**

**Pipeline**

