Developing, Fielding, and Sustaining America’s Aerospace Force

SUMMIT V

Arming the Warfighters by
“Transforming the Sword”

Dr. Steven F. Butler
Director, Engineering
Air Armament Center, Eglin AFB

Integrity - Service - Excellence
Rumble
Air Armament Summit
Collaboratively Shaping AF Weapons Futures

Requirements Pull
Technology Push

Staff

Executive Guidance

Programs Offices

Labs

Academia

Industry

International

Warfighters
Air Armament Summit Process

External Shaping

Environmental Influences

Feedback To AF Processes

AF Task Force CONOPS

AF Investment Strategy

SUMMIT PROCESS

AFMC

AAC

AF

DoD

Executive Branch/Congress

Updated Roadmaps

Armament Initiatives

Real World Feedback
Air Armament Summit
Year-Long Evolution

Panel Progress
Review Meetings
Fall & Winter

Panel Work
to Resources
Panel Work Thru Fall

GETM Capabilities Input

SUMMIT
March

Summit Products Distributed
Late Spring

New Panels & Chairmen Selected
Summer

Panels Organize Early Fall
Panel Planning Meeting Late Summer
Air Armament Summit
Prior Themes and Outcomes

1999: “Forging the Sword”
GETM – S&T -- Roadmaps

2000: “Sustaining the Sword”
Inventory Infrastructure
Weaponized UAV

2001: “Delivering the Sword”
Integrated Armament
Process Acceleration
Expanded Participation

2002: “Strengthening the Sword”
Adjusting The Inventory
Pushing New Generation Weapons
International Participation
Air Armament Summit
Prior Noteworthy Contributions

• Small Diameter Bomb

• HOBS AMRAAM

• Hellfire-Predator

• Reconciled Body/Guidance/Fuze Disconnects in Weapons’ Inventory

• Updated Armament Roadmaps…
Air Armament Roadmaps
25-Yr Investment Planning Vehicle

UNITARY – STANDOFF OUTSIDE AREA DEFENSE

UNITARY – STANDOFF OUTSIDE POINT DEFENSE

SPECIAL OPERATIONS

PERSISTENT AREA DOMINANCE (PAD)

Advanced Tactical Laser (ATL)
Active Denial
Gunship Laser
SPECIAL OPERATIONS

PERSISTENT AREA DOMINANCE (PAD)

NEAR-TERM 02 06 10 15 20 27
MID-TERM 10 15 20 27
FAR-TERM 20 27

SDD Sustainment Decision Point
PROD CTD

CAV
JASSM
EGBU-15
AGM-130
SDB
WAS AAMM

ATD
Guardian
Sentinel
Dominator

DARPA
Army

Decision Point
Air Armament Summit
Evolving Enterprise Challenges

• Corporate
  – Transformation
  – Effects-Based Task Force Capability Focus
  – Systems of Systems; Network Centric Solutions
  – Cross-Enterprise Implementation

• Mission
  – All Weather Precision, Rapid Response, Low/No Collateral Damage, Anti Access
  – BDA Feedback Capable
  – Multi-mission Capable
  – TCT/Moving Target Capable
  – Hard & Deep Targets Capable
  – Weapons of Mass Destruction Capable

• Technology
  – Directed Energy
  – Non-Lethal
Summit V
“Transforming the Sword”

- 11-14 March 2003
  - Sandestin Hilton Resort
- CONOPS-Capability Focus
- Six Panel Assessments
- Confirmed Guest Speakers:
  - Air Force Chief of Staff
  - Commander, AF Materiel Command
  - Commander, US Air Forces Europe
  - CINC, US Atlantic Fleet
  - Vice Commander, Air Combat Command
  - Assistant Secretary of the Air Force for Acquisition
Summit V
Air Armament Stakeholder Alliance

ACC/AFSOC/AFSPC:
• Warfighter expertise
• Capabilities requirements
• Lead Panels:
  • Military Strategy
  • Armament Plans
  • Digital M&S
• Drive Roadmaps Development

AFRL:
• Technology expertise
• Provide S&T Panel Chair

SAF/AQ:
• Acquisition expertise
• CRRA liaison
• Analyze tradespace
• Provide Resources Panel Chair

AAC:
• Events expertise
• Co-Host with AFA
• Disclosure Guidelines
• Invites & Registration
• Security & Protocol
• Volunteer Coordination

AAC/WM:
• Programs expertise
• Facilitate process
• Mature Briefings
• Distribute Products

AF/XP:
• Resources expertise
• Guide AFCIS Inputs
• Provide Resources Panel Co-Chair

AF/XOR:
• AF Task Forces liaison
Summit V Panel Structure

- **Global Environment, Threat, & Military Strategy**
  - Determine AF Task Force-based capabilities requirements

- **Integrated Armament Planning**
  - Assess weapons roadmaps and related capabilities shortfalls

- **Science & Technology**
  - Propose tech activities and solutions to fill capabilities gaps

- **Digital Modeling, Simulation, & Analysis**
  - Propose MS&A support opportunities for future warfighting capabilities, concepts, and environments

- **Resources**
  - Consolidate solutions of the other summit panels, conduct tradeoffs, and develop AF investment strategy proposals

- **Industrial Base**
  - Present perspective/solutions for optimizing industry efforts
# Summit V

## Panel Leadership

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*Chair: DR DYESS, KEVIN BURNS, RICH ECKERT*
Summit V
Link to Effects-based AF Capability Needs

Air & Space Expeditionary Forces

- Global Strike Task Force CONOPS (Anti-Access)
- Homeland Security Task Force CONOPS
- Global Mobility Task Force CONOPS
- Global Response Task Force CONOPS
- Nuclear Response Task Force CONOPS
- Air & Space C4ISR Task Force CONOPS

Global Power
Global Reach
Global Vigilance

Link to Effects-based Focus Areas
Summit V
Timely Deliverables to Decision-Makers

- Panel Building & Objective Determination
- Panel Product Development
- Product Review & Final Preparation
- Process Action Team
- Post Summit Product Dissemination
- Summit Events
- Critical Link for Summit V Products
- Data Call
- In-Process
- MAJCOM Due
- XP Integration
- Analysis
- Coordination
- 06-22 AFCIS
- MAJCOM Briefs
- 06-10 APPG
- 06-10 APPG
# Summit V
Products Feed AF Assessment Process

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Capability Review & Risk Assessment (CRRA) Format

significant | positive | marginal | negative | not apply
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Summit V
Process Facilitates AFMC Collaboration

PLUS

...catalyst for Cross-enterprise Solutions!

ENABLERS

Industry
T&E
MS&A
Other...

S&T

C2

SPACE
Summit Summary

- **Air Armament Summit Products**
  - Air Armament Enterprise product roadmaps
  - Task Force and CRRA capability-focused roadmaps
  - AFCIS-tailored resource inputs to MAJCOMS

- **Air Armament Summit Process**
  - Facilitates “Requirements Pull” within a Task Force CONOPS/capability-based framework
  - Facilitates “Technology Push” to Keep 21st Century Air Force on Leading Edge
  - Provides link between Air Armament Enterprise and MAJCOM weapons planning & investment
  - Catalyst for cross-Enterprise communication

LEVERAGES WARFIGHTER, AIR STAFF, and ENTERPRISE EXPERTISE TO PRODUCE TRANSFORMATIONAL EFFECTS-BASED RESULTS!