The Soldier
Our Strength and Purpose

Product Manager Air Warrior Update
to the
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Develop, acquire, field, and sustain affordable, integrated, state-of-the-art equipment to improve Soldier dominance in Army operations today and in the future.
Develop, acquire, field, and sustain mission equipment that improves the combat effectiveness, situational awareness, and survivability of Army aircrews.

We Are Here to Make a Difference
To America’s Most Deployed Combat System
The Air Soldier System (Air SS)

- The Air SS is the next generation Army aircrew life support and mission equipment ensemble
- Air SS addresses capability gaps that include
  - Bulk and weight of aircrew protective equipment, especially in the most encumbered configurations
  - Aircrew Situational Awareness
  - Mission planning and execution
- Air SS includes both soldier and airframe kits
- Air SS provides aircrews with capabilities from situational awareness to survival
- Air SS delivers this capability through material solutions ranging from soft goods to symbology
Bulk and Weight Reduction
Air SS Soldier Kit

- The bulk and weight of current Aviation Life Support Equipment can force the crewmember to tradeoff protection to accomplish the mission.
- The Air SS soldier kit reduces aircrew survival and mission equipment bulk and weight by:
  - Rethinking current material solutions
  - Combining and integrating functions
  - Leveraging new lightweight materials
- The Air SS soldier kit includes a Layered Clothing Ensemble and the new Rotary Wing Helmet.
- Limited issue of the Air SS soldier kit to deploying units is underway.
Bulk Reduction

...one example at the component/subsystem level

Air Warrior Survival Egress Knife

Air Soldier Survival Egress Knife
Weight Reduction

...one example at the component/subsystem level

Legacy Air Warrior
Flexible Body Armor
6.34 pounds

Air SS Small Arms
Ballistic Insert
4.2 pounds
System Level Bulk and Weight Reduction

Air SS integrates with the current Army aircrew survival vest (Primary Survival Gear Carrier); a future Aircrew Combat Ensemble (ACE) will integrate survival gear carriage with body armor and replace the PSGC.

The Air SS includes a new Lightweight Immersion Suit for Aviation (LISA)...

...a lightweight Environmental Control Vest (ECV) that replaces the legacy Microclimate Cooling Garment...

...standardized, integrated personal survival items...

...and a Lightweight Joint Protective Aircrew Ensemble chem/bio protective overgarment.
Mission Planning and Execution

US Army / Sgt Edward Eagerton
Air Soldier Mission Planning and Execution Solutions

Computer Display System (UH-60L)
- Replaces the legacy EDM
- Tactical mission planning and execution through AMPS
- Enroute Situational Awareness
- Blue Force Tracking

Electronic Flight Bag (all rated crewmembers with growth path to all crewmembers)
- Commercial tablet computer with Army mobile data management
- Digital DoD FLIP
- Enroute Situational Awareness
- Mission planning and execution
Aircrew Situational Awareness
The Air SS increases the aircrew’s ability to more rapidly detect and process information including:

- Aircraft systems
- Threat and friendly forces
- Operating environment
- Mission data

- Computer Display System (CDS)
- Common Helmet Mounted Display (CHMD) with enhanced flight symbology (interim solution supporting test depicted, final material solution TBD)
- Improved HGU-56/P Rotary Wing Helmet (RWH)
- Electronic Flight Bag (EFB)
Air SS Helmet Mounted Display
Symbology Video
Systems Integration and Training

Cockpit Academic Procedural Trainer-Heads Up Display (CAPT-HUD)
Summary

- Air SS enhances Army aircrew survivability and mission effectiveness through increased aircrew Situational Awareness and reduced soldier load.

- Initial issue of the Soldier kit supporting deploying aviation units is underway.
- First platform operational test (UH-60L) begins in Feb 18 followed closely by UH-60M and CH-47F flight test.
- Full Rate Production and fielding begins late FY18.
Questions?