EFB Power
SWIPES
and
SWIPES II PD

Overview of SWIPES and SWIPES II PD
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ITAR Statement

- This Presentation contains only information which is publicly available. It contains no Technical Data and is compliance with the U.S. International Traffic in Arms Regulations ("ITAR"), 22 CFR §§120-130.
Soldier Worn Integrated Power Equipment System

GOALS

- Reduce the battery weight carried by soldiers by up to 30%
- Modular power distribution system for use with many battery types (ie. BA 8180, conformal batteries, Li 145, Li 80, BB 2590 and BA 5590)
- Ruck or vest mounted utilizing a MOLLE mounting system
- Pouch mounted chargers to maintain a high level of charge (85 to 90%) within an OEM battery
- Provide direct power for various GPS units and Shot Detection Systems (reduces the need to carry spare batteries)
- Powered by a Lightweight, High Capacity battery
- Consists of Battery cable, 4 port power distribution Hub, radio chargers and direct power cables
Current Fielded Capabilities, Radios

- AN/PRC 148 Pouch Charger
- AN/PRC 152 Pouch Charger
- AN/PRC 153 Pouch Charger
- AN/PRC 154 Pouch Charger
- AN/PRC 152A Pouch Charger with 5v output to support End User Device power requirements
- AN/PRC 154 Pouch Charger with 5v output to support End User Device power requirements
Current Fielded Capabilities Ancillaries

- DAGR (GPS)
- 5V USB hub USB 2.0
- Mine Detectors
- Gunshot Detection systems
- Handheld Video Receivers
- MR-1 Computer
System Configuration
Networking Radio EUD Support
US Army Power Suite
Thales Communications MUBC
Palladium Conformal Rechargeable Battery
Both Utilized in conjunction with SWIPES
2010 US Army Top Ten Greatest Inventions Award
Soldier Worn Integrated Power Protective Equipment System™
• **Fully Integrated SWIPES System**
  
  • All Cables are integrated into the Armor system to reduce snag points
  
  • Pull weight for the connectors allows for emergency doffing of the vest
Continuing SWIPES Development

- Introduction of 154 and 152 Side Pan Power Data Connection
- Development of Direct Power Modules for Counter IED Warrior
- Introduction of Fires Warrior System (First Power Data System)
- Development of SWIPES II PD (Power Data) System to Ground Soldier Specifications (Ongoing)
- Development of SWIPES Charger for the IDF MR2716 Battery and associated radios
Fielded

- EFB has fielded several thousand SWIPES Systems through the US Army.
- Systems have been deployed to the UK, Holland, Australia and New Zealand for test and evaluation.
Army launches smart Operational Energy use campaign, identifies 10 initiatives (Excerpt)

SMART OPERATIONAL ENERGY USE INITIATIVES

Following is the list of 10 Initiatives to Use Operational Energy Smarter:

1. Soldier Worn Integrated Power Equipment System -- SWIPES is networked Soldier power that reduces energy weight for three-day patrols by 30 percent by providing power to multiple peripherals from a lightweight conformal battery. To date, more than 1,700 SWIPES have been procured for immediate fielding. SWIPES is currently fielded to 1-82nd Airborne Brigade Combat Team, 173rd Airborne Brigade Combat Team, 4th Brigade Combat Team 10th Mountain Division, 2nd Brigade Combat Team 1st Armored Division, and scheduled to be fielded to an additional five brigades throughout the year. The future of SWIPES is an evolution toward the integrated Soldier power and data system, or ISPDS. The ISPDS will allow not only the movement and management of worn power, but the movement and management of data from multiple worn peripherals onto a common end user device. This concept of power/data management is consistent with and supports the Nett Warrior architecture; the Army’s baseline Soldier system for C2/SA.
Thank You

Questions