



*Defense Standardization
Program Conference
Joint Standards Board for Power
Source Systems*

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Joint Standardization Board for Power Source Systems (JSBPS²)



The purpose of the JSB for Power Source Systems is to:

- ☞ Provide senior level (USD AT&L) visibility for standardization and interoperability initiatives.
- ☞ Establish DoD Standards (IAW DOD 4120.24-M, Defense Standardization Program, Policies and Procedures) or Non-Government Standards as applicable.
- ☞ Improve interoperability of joint and coalition forces.
- ☞ Recommend joint doctrine, tactics, techniques and procedures.
- ☞ Establish standardization of parts/components that have lowered cost, reduced inventories, shortened logistics chains and improved readiness.
- ☞ Develop joint solutions to issues that impact the Power Source Systems domain.
- ☞ Propose funding requirements for specific efforts/projects related to standardization and interoperability goals and objectives.
- ☞ Provide the interface for commercial/military integration.

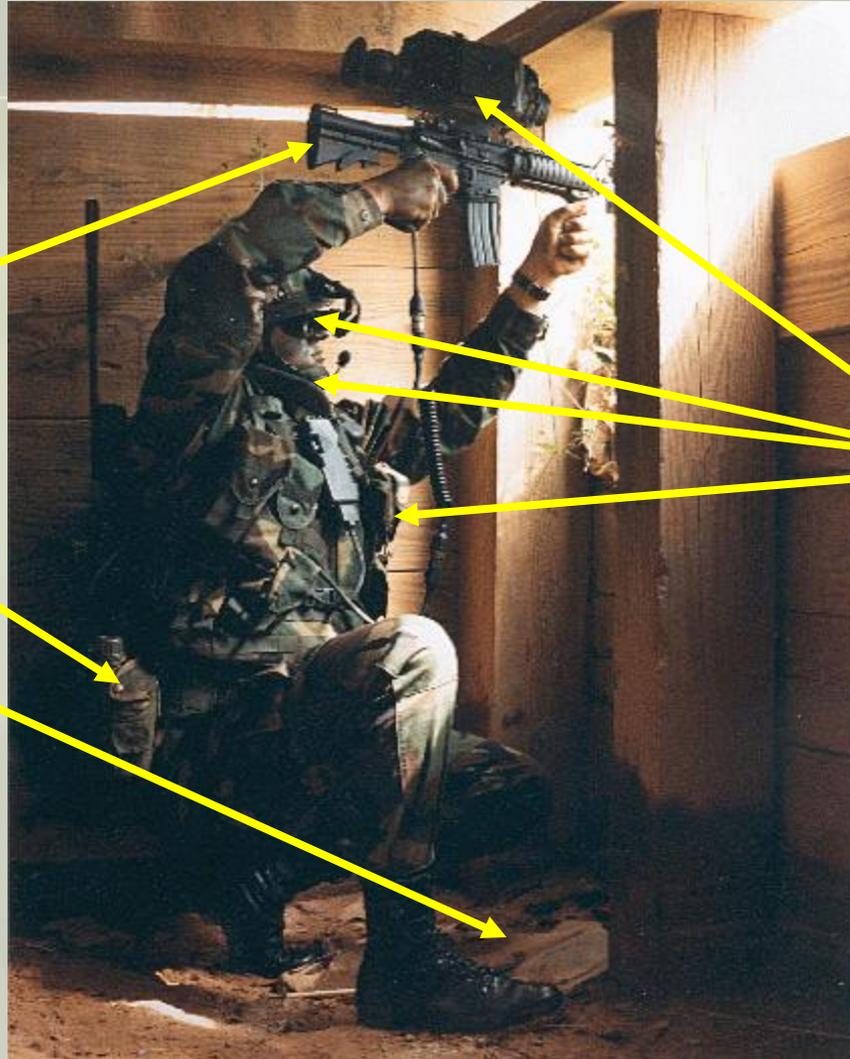


Examples of Successful Standardization

Ammo

Water

Food



Needed Standardization

Soldier Power Systems



What Causes Non-standardization?

- 💡 Ignorance
 - 💡 By the “gatekeeper” of policy
 - 💡 By the developer of policy
 - 💡 By the designer of what is available
- 💡 Military requirements
 - 💡 Capacity
 - 💡 Temperature
 - 💡 Environmental
- 💡 Allocated weight/volume and interface

The Result of Non-standardization



- 🔋 DoD manages over 5,000 power related Items
- 🔋 Increased logistics costs (from depot to rucksack)
- 🔋 Multiple interfaces complicates use of alternative power sources
- 🔋 Military unique and boutique batteries are expensive
- 🔋 Military unique production base



Types of Standardization



-  **Desired Standardization** – Use of a “preferred” configuration
-  **Good Standardization** – Use of a battery configuration that is not “preferred” but already in the DoD inventory
-  **Acceptable Standardization** – Use of a unique configuration – but one based on commercial technologies
-  **Unacceptable Standardization** – Use of a unique configuration and one utilizing a military unique technology



Desired Standardization



BA-5590/5390

Non-rechargeable battery
(uses standard military cell)



BB-2590

Rechargeable battery
(uses standard commercial cell)

**This configuration supports
122 known end items**



Good Standardization



**These batteries support
over 270 end items**



Lithium Ion



**Alkaline
Cells**



Commercial Chargers



**Lead Acid
Vehicle Batteries**

Use of repackaged commercial technologies is “acceptable” standardization



Example of Unacceptable Standardization

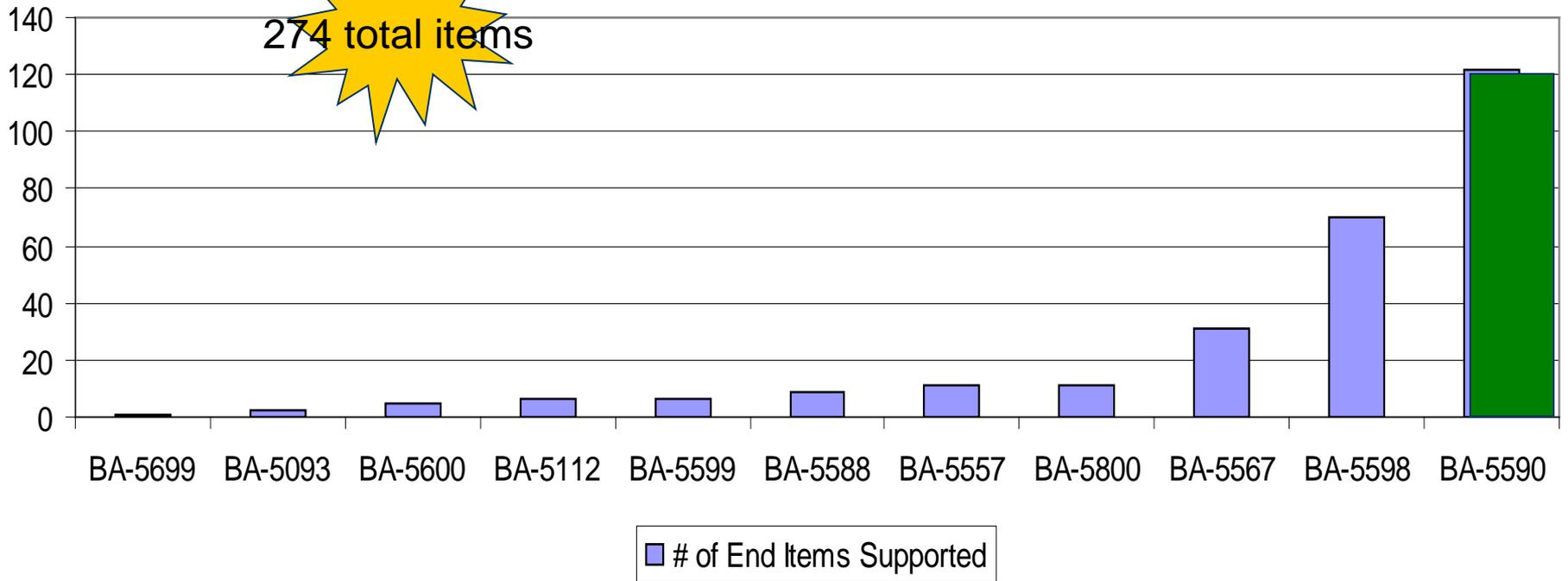


A Partial Success Story..



Army Family of Military Unique Batteries

274 total items





Standardization is "Bi polar"



THE PAST

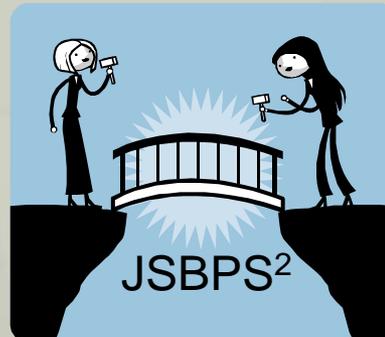
Deal with the
lack of
standardization
in legacy
systems



THE FUTURE

- Standardize on
- Technologies
- Configurations
- Interfaces

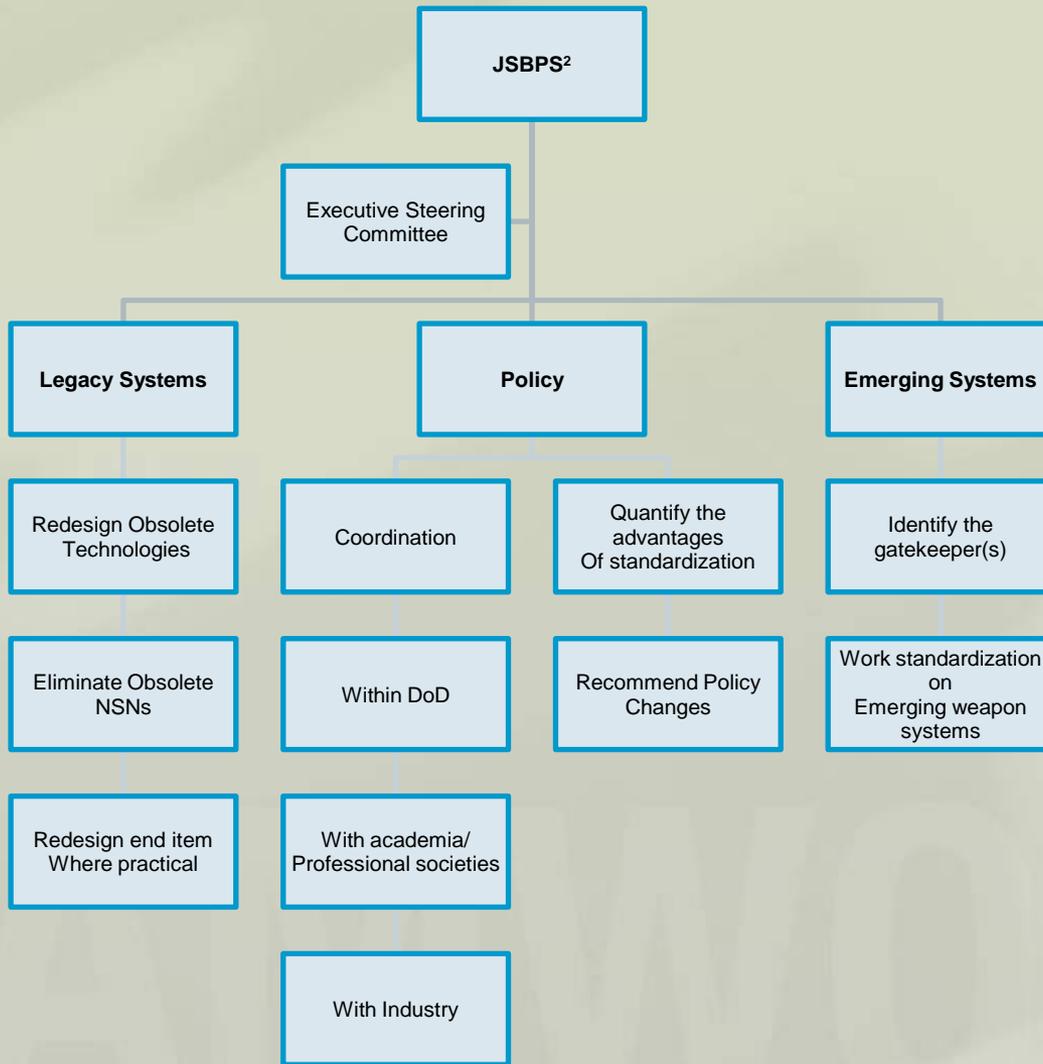
Correcting Past
Problems



Preventing them from
occurring in the future



Three Prong Approach



Power Source *“Coherent View”*



- Web based system

- Contains over 15,000 battery and battery related items (NSN and commercial part numbers)

- Searchable by

- Battery physical attributes

- Manufacturers

- Logistics Data

- Beta Version to include

- Other power sources (fuel cells, hybrids, supercapacitors)

- Cross referencing of items/alternative power sources

- Safety and service approvals

- “Preferred” configurations

- Search criteria defined for designers, users and logisticians



“Coherent View” Uses



- 💡 Helps identify legacy batteries for potential elimination
- 💡 Identify potential solutions for new weapon systems
- 💡 Identify preferred power source types
- 💡 Assist in trade off analysis



Upcoming Events



- 🔊 Executive Committee Meeting
- 🔊 Review of “Coherent View”
- 🔊 Industry Forum
- 🔊 Soldier System Standardization Meeting



What I Need From You!



- 🔦 Support for JSB Power Sources efforts
- 🔦 Help identify key resources to assist the effort
- 🔦 Points of contact are:

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