

2007 DoD Standardization Conference

***Enhancing Multinational Force
Capability through
Standardization and
Interoperability***

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Overview



- Development of capability, interoperability and standardization
 - Definitions
 - Military Environment
 - Requirements
 - Capability
 - Interoperability
 - Multiculturalism
- Role of standardization
- Challenges

Capability



The ability to achieve a specified (military) objective (USA)

The ability to produce an effect that the users of assets or services need to achieve (ACT)

Doctrine

Organization

Training

Materiel

Leadership Development

Personnel

Facilities

Interoperability

D O T M L P F I

Interoperability



The ability to operate in synergy in the execution of assigned tasks



Standardization



The development and implementation of concepts, doctrines, procedures and designs in order to achieve and maintain the compatibility, interchangeability or commonality which are necessary to attain the required level of interoperability or to optimize the use of resources, in the fields of operations, materiel and administration

Environment



- Global
- Combined Joint Operations
- Partnerships
- Technology
- CBRN Proliferation
- Asymmetric threats



Riga Summit

- 2008 Enlargement
- Expanded Partnership for Peace (PfP)
- Training Cooperation Initiative
 - Mediterranean Dialogue (MD)
 - Istanbul Cooperation initiative (ICI)
- NATO Response Force (NRF) FOC
- Comprehensive Political Guidance (CPG)

CPG Capability Requirements



- **Multinational joint expeditionary operations** with deployable, sustainable and **interoperable forces**, with coordinated, multinational logistic support
- Adaptable forces, high level of readiness
- Deter, disrupt, defend and protect against terrorism
- Protect information systems against cyber attacks
- Defend against WMD and CBRN hazards, theatre missile threats
- Conduct operations in demanding environments
- Equipment and procedures to identify hostile elements, minimize unintended damage and risk to friendly forces
- **Coordinated efforts of several authorities, institutions and nations**
- Stabilization operations and reconstruction
- **Interoperability and standardization amongst Allies, flexibility to cooperate with partners, including release of appropriate standards**

Interoperability Requirements



- Communication
 - Human relations
 - Procedures
 - Equipment
- Operations
- Support
- Training and Exercising



Levels of Interoperability



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	<i>Kinds of Missions (Operations) Requirements for Commands and Troops</i>
<i>Level 1</i>	<i>Peacekeeping and Humanitarian Missions</i>
Compatibility with:	Doctrines; Concepts; Language; Terminology; Air Defence; NBC; Main Systems--Readiness, Warning, Identification, etc. Principles of Command; Communication; Computers Principles of Decision Making and Planning; Formatting of Documents National Logistics and Medical Services
<i>Level 2</i>	<i>Peacemaking; Article 5 Operations</i>
Interchangeability with:	All requirements from Level 1 and additionally: Logistics; Maintenance; Engineering; Medical; Manning; CIMIC; Air Mobility; Food; Rescue, Life Saving on Land, Air, Sea; Compatible Levels of Combat Skill
<i>Level 3</i>	<i>NRF; DAT; Protection of Region</i>
Commonality with:	All requirements from Level 1 and 2 and additionally: <i>Same Weapons</i> ; Ammunition; C3 Systems; Integrated Logistics; Material; Tactics; Levels of Skills, etc.; Dedicated Transport
<i>Level 4</i>	<i>Special Operations (DAT, Organised Crime Ops, Capture of WMD)</i>
Speciality with:	All requirements from Levels 1, 2 and 3 and additionally: <i>Same special skills</i> ; Same Transport and Integrated Logistics

Multiculturalism



- History
- Education
- Ideology
- Language
- Finance
- Force Structure



Role of Standards



- Operational
 - Procedures (Doctrine, TTPs)
 - Experience (Training, Exercises)
- Materiel / Technical
 - CD&E (RTO, ACT)
 - Specifications (Procurement cost)
 - Target specific challenges (NATO funded C3)
- Administrative
 - Terminology
 - Education (NDC, NATO School)



NATO Standardization Organization



- The role of the NSO is to...
... harmonise and coordinate Alliance standardization efforts and provide support for standardization activities
- NATO Standardization Agency provides support to...
 - NATO Committee for Standardization (Administrative)
 - Military Committee (Operational)
 - Coordination (Materiel)



Civil Standards



- Requirements
 - Products
 - Services
 - Processes
- Conformity Assessment
- NSA Technical Cooperation Agreements



Challenges

- Feedback (Lessons Learned)
 - National systems
 - NATO systems
 - “Reachout”
- Participation
 - SME availability
 - Costs
- Classification
 - Information sharing
 - Allied standards = National standards

Thank You !

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