NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITE DE L’ ATLANTIC NORD
AC/225 Land Capability Group 1
Dismounted Soldier

LCol Mike Bodner
Chairman
Mission - Main Armament Groups

  - Foster exchange of Information
  - Promote technical Standardization, Interoperability and Integration
  - Identify and promote Technical advancements
  - Plan/direct/coord subordinate groups
  - Liaise with all relevant organizations
    - Within NATO – RTO, IMS, NIAG, ACT, NSA, JALLC, etc
    - Outside – EU, MD, ICI, NGOs, Industry, etc
Three Levels of Standardization
AAP 6 (01 Apr 2008)

• **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 optimise the use of resources, in the fields of operations, materiel and administration.

• **Compatibility:** The suitability of products, processes or services for use together under specific conditions to fulfil relevant requirements without causing unacceptable interactions (04 Oct 2000).

• **Interchangeability:** The ability of one product, process or service to be used in place of another to fulfil the same requirements (04 Oct 2000).

• **Commonality:** The state achieved when the same doctrine, procedures or equipment are used (04 Oct 2000).

• **Interoperability:** The ability to operate in synergy in the execution of assigned tasks (22 Jun 2004).
LCG/1 and Sub-groups

LCG/1
On Dismounted Soldier

SG/1
On Ammunition Interchangeability

Combat Clothing
Individual Equipment & Protection Working Group

C4I & Systems Architecture Working Group

Soldier Capability Analysis Group

Weapons & Sensors Working Group

Two Team of Experts - Power and Head-borne Systems

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NATO Soldier System History

➢ Working Group of Experts in Panel 3
  ➢ 1991-1993

➢ NIAG Pre-Feasibility Study Dismounted Soldier Modernization
  ➢ 1992-1994

➢ WG 3 of Panel 3 Soldier Modernization
  ➢ 1994- Oct 2000

➢ Topical Group 1 Soldier System Interoperability
  ➢ Oct 2000 – Dec 2005

➢ Land Group 1 Soldier Systems
  ➢ Jan 2006

➢ Land Capability Group 1 Dismounted Soldier
  ➢ Jan 2007

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Land Capability Group 1 Management

- Chairman
  - LCol Mike Bodner – CAN

- Deputy Chairman
  - LCol Wolfgang Althoff - DEU

- NATO International Staff Support
  - Matt Dove – Land Armaments Unit, NATO HQ

- Land Capability Group 1 - Many Pers (300 experts)
  - NATO Countries - 22
  - Partners - 4
  - Contact Country – 1 (Australia)
LCG/1 Sub – Group/Working Group Structure

- **Sub-Group/1 Ammunition Interchangeability**
  - Mr Fridtjof Guth – NLD Chairman
  - Iain Morris – GBR Superintendent ERTC
  - Dominic Pellegrino – USA Superintendent NRTC

- **Soldier Capabilities & Analysis Group**
  - Mr Mark Richter – USA Chairman
  - Maj Torstein Johnson – NOR Deputy

- **Combat Clothing Individual Equipment & Protection WG**
  - Mr Henk Reulink – NLD Chairman
  - Mrs Jana Barancicova – CZE Deputy

- **C4I & Systems Architecture WG**
  - Mr JD Wilson – USA Chairman
  - Mr Marcel Vanderlee – NLD Deputy

- **Weapons & Sensors WG**
  - Mr Per Arvidson – SWE Chairman
  - Maj Sean Hoopey – CAN Deputy

- **Power TOE**
  - Maj Eelco Vroon - NLD Chairman
  - Deputy - Vacant

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Specific Work of LCG 1

Sub Group 1 Ammunition Interchangeability

Qualify NATO Ammunition designs

- Certify NATO Ammo Interchangeability
- Operate NATO Regional Test Centers
- Certify National Test Centers
- This year

  ✓ Production Tests performed on the 5.56 mm Ball, 7.62 Ball & Tr and 9 mm for FRA, ITA, GBR, CAN and USA
  ✓ Plan to certify the ERTC for the 12,7mm calibre
  ✓ Promulgate and start the ratification of STANAG 4624 (30mm x 173)
  ✓ Publish the MOPI 30mm (end June 2009)
Specific Work of LCG 1

Soldier Capability and Analysis Group

- Serve as oversight and provide operational direction to LCG/1
- Provide rationale for work – link to other WGs and TOEs

- Completed 3 Dismounted Coalition Scenarios
  Approved by ACT Feb 2007

- Updating an Overarching Definition and Capabilities document
- New NATO Soldier Capability Analysis out for comment
- Address Dismounted BCID - STANAGs 4630 and 2129
- Address the lack of NATO Soldier Symbology
- Address report on Lessons Learned from Ops with JALLC Monsanto
Specific Work of LCG 1

Combat Clothing Individual Equipment and Protection Working Group

- Group is addressing NATO Long Term Capability Requirement on Integrated Personal Protection (one of the top 16)
- Maintain 16 Other STANAGs
  - 5 in Ratification, 3 in Development, remainder under review
- Identifying long term proposals for NATO research projects
- Updating Laser eye Protection
- Tracking Smart Textiles
Specific Work of LCG 1

C4I / Systems Architecture Working Group and Power TOE

- “Develop the ability to exchange tactical information and individual soldier positional information at the soldier level” – NAAG Chairman MGen Dam, NLD

- Originally developed 4677 (C4I STANAG) and 4678 (Architecture STANAG Data Model) – need to pursue 4 more STANAGs (Exchange Mechanisms, Network Access, Transmission Connectivity and Data Model)

- Link to NATO C3 Board on a wide variety of issues

- NIAG Study 123 on Information Exchange Mechanisms

- Power TOE
  - STANAG 4619 Electrical Standard for Soldiers – in ratification
  - R and D SET 126 Power Optimization for the NATO Warfighter
Specific Work of LCG 1

Weapons & Sensors Working Group

- Review STANAGs and Nations SA plans
  New STANAG 4694 “NATO Accessory Rail”
  Update:
    - STANAG 4498 Un-armoured Vehicles, Helicopters & Field Fortification Targets
    - STANAG 4512 Dismounted Personnel Targets
    - STANAG 4513 Incapacitation & Suppression
    - STANAG 4536 Representative Building Targets

- Review Infantry Weapons Master Plan

- RTO Study initiated to address Future Small Arms:
  - Weapons interfaces
  - Human Factors & analysis
  - Electrical Power

- Deliver a Technical Report by Dec 2009
World Stage - Soldier Systems

Germany
IDZ-BS
IDZ-ES

USA
Land Warrior
GSS

France
FÉLIN

UK
FIST

Norway
NORMANS

Israel
IAS

Italy
Combattente
2000
Update German National Soldier Modernisation Program

“Infanterist der Zukunft I d Z”

Karl-Heinz Rippert
bwbu42@bwb.org

NATO HQ, Brussels
12.-14.11.2008

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Summary to NDIA SA

- NATO / NAAG has a capability-based focus to better align with the Allied Command Transformation (ACT)
- Considerable History of Soldier System documents, definitions and programmes
- LGC/1 is a large group with significant responsibilities – Most Project Managers
- All dismounted soldier standardization falls under LCG/1
- US Military, Defence Research and Industry play a key roles
QUESTIONS?