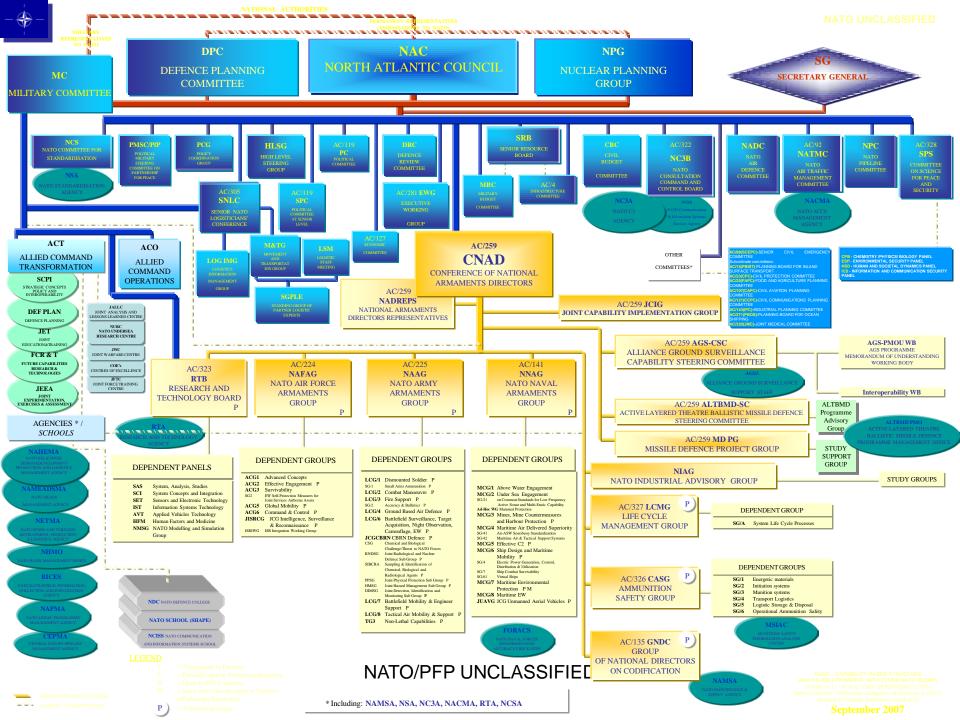
NORTH ATLANTIC TREATY ORGANIZATION ORGANISATION DU TRAITE DE L'ATLANTIC NORD AC/225 Land Capability Group 1 Dismounted Soldier



LCol Mike Bodner Chairman



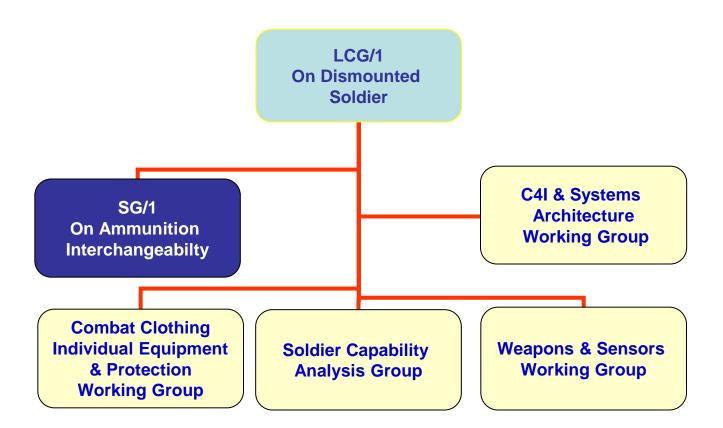
Mission - Main Armament Groups

- NATO Armament Handbook 20 May 2008
 - 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
- <u>Compatibility:</u> The suitability of products, processes or services for use together under specific conditions to fulfil relevant requirements without causing unacceptable interactions (04 Oct 2000).
- <u>Interchangeability:</u> The ability of one product, process or service to be used in place of another to fulfil the same requirements (04 Oct 2000).
- <u>Commonality:</u> The state achieved when the same doctrine, procedures or equipment are used (04 Oct 2000).
- <u>Interoperability:</u> The ability to operate in synergy in the execution of assigned tasks (22 Jun 2004)

LCG/1 and Sub-groups



Two Team of Experts - Power and Head-borne Systems

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

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

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)

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

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

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 New STANAG 4695 – Power Source Interoperability Strategy - 'NATO Standard Power Connector' R and D SET 126 Power Optimization for the NATO Warfighter

Weapons & Sensors Working Group

Review STANAGs and Nations SA plans New STANAG 4694 "NATO Accessory Rail" Update: STANAG 4498 Un-armoured Vehicles, Helicopters & Field

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



Update German National Soldier Modernisation Program





"Infanterist der Zukunft I d Z"

NATO HQ, Brussels 12.-14.11.2008

Karl-Heinz Rippert bwbu42@bwb.org

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?