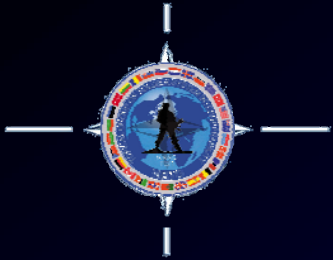


**NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITE DE L' ATLANTIC NORD
AC/225 Land Capability Group 1
Dismounted Soldier**



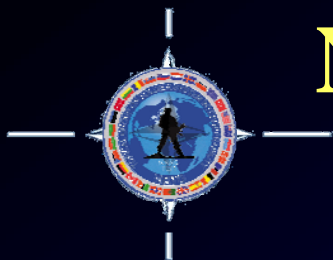
**Vernon E. Shisler
Chairman**



NATO Structure

North Atlantic Council

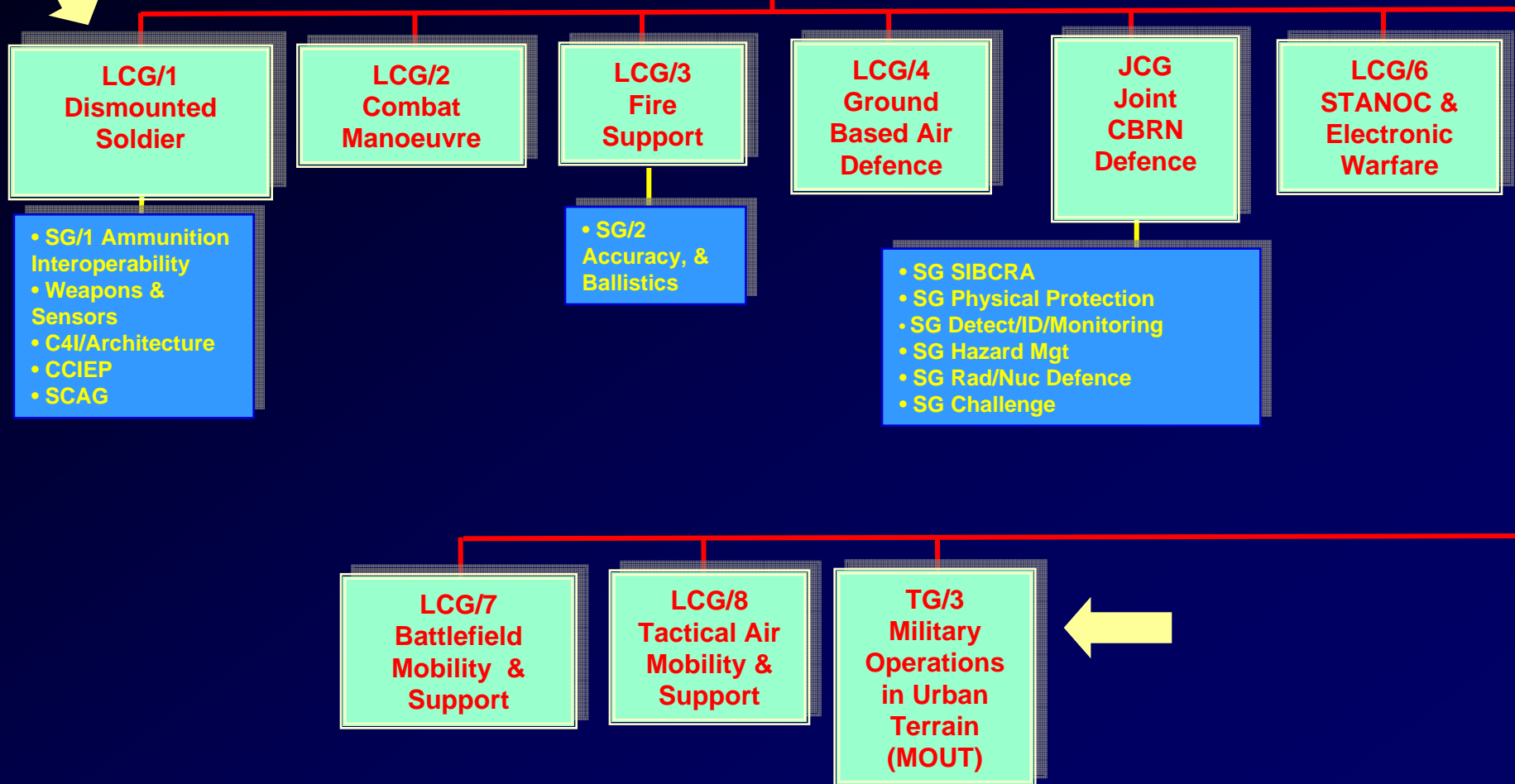




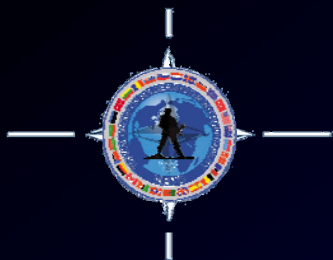
NATO Army Armaments Group

AC/225 Army Armaments Group

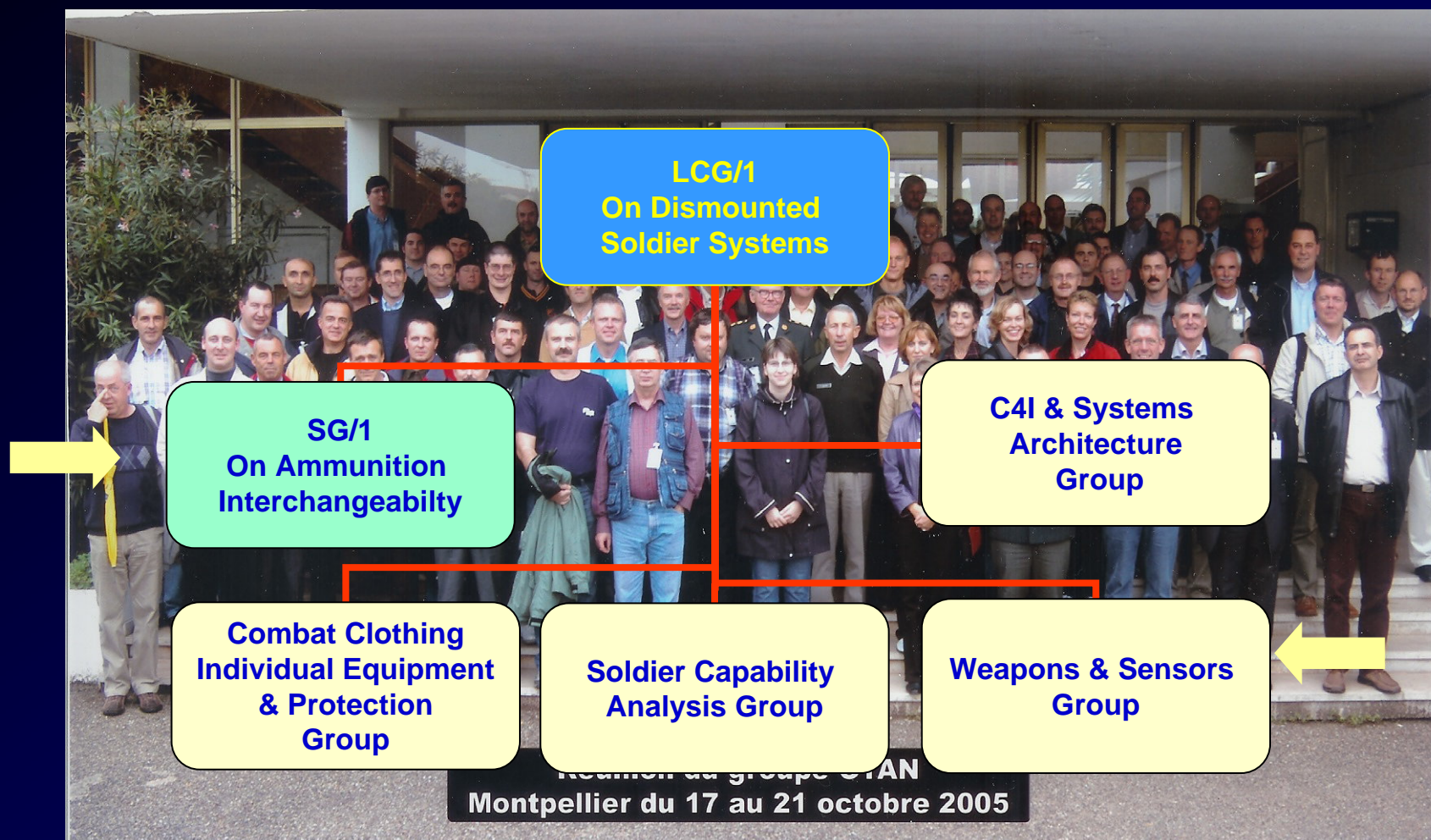
Non-Lethal
QRT

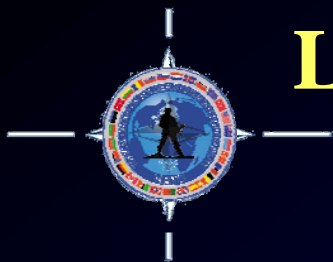


Land Capability Group 1 on Dismounted Soldier



LCG/1 and Sub-groups





Land Capability Group 1 Management



Chairman

➤ **Vernon E. Shisler – USA**



Deputy Chairman

➤ **Koos Meijer – NLD**



NATO Staff Support

➤ **Marie-Claire Mortier – NATO**



Land Group 1 US Delegation

➤ **COL Richard Hansen – PM Soldier Warrior – HOD**

➤ **Mark Richter - MARCORSYSCOM**



Current LCG/1 Sub –Group Structure

➤ Soldier Capabilities & Analysis

- LtCol Mike Bodner – CAN Chairman

➤ Combat Clothing Individual Equipment & Protection

- Henk Reulink – NLD Chairman
- Dan Fitzgerald – USA Deputy

➤ C4I & Systems Architecture

- Rune Launsund – NOR

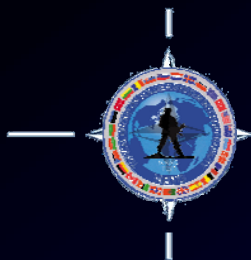
➤ Weapons & Sensors

- Mark Richter – USA Co-Chairman
- Per Arvidson – SWE Co-Chairman
- US Delegate – Kori Spiegel

➤ SG/1 Ammunition

- COL Dirk Hemerlick – BEL Chairman
- John Allen – GBR Superintendent ERTC
- Dominic Pellegrino – USA Superintendent NRTC
- US Delegate – Sandy Geddes

Key USA
Small Arms
Players



Specific Work of LCG 1

Soldier Capability and Analysis Team

- Serve as oversight and provide operational direction to LCG/1
- Develop Operational Scenarios of coalition interoperability at the dismounted individual level
- Provide rationale for work
- CAN has assumed Chair
- Completed 3 Dismounted Coalition Scenarios
- Completed an Overarching Definition and Capabilities document

Approved by ACT Feb 2007

Approved March 2007





Specific Work of LCG 1

Combat Clothing Individual Equipment and Protection Team

- Group is addressing LTCR MF/12/6 Integrated Personal Protection (one of the CNAD top 15)
- Ballistic Test Methods for Personal Armour Materials
- Updating Laser eye Protection

Approved March 2007





Specific Work of LCG 1

C4I / Systems Architecture Team

- Develop the ability to exchange tactical map information and individual soldier positional information at the soldier level
- Demonstrations:
 - Rome Oct 2003
 - German Infantry School Oct 2004
 - French Infantry School Oct 2005



Land Capability Group 1 on Dismounted Soldier



Specific Work of LCG 1

C4I / Systems Architecture Team (cont)

- “Electrical Connectivity Standards for Dismounted Soldier Systems”

Approved March 2007

- “Information exchange data definitions & inter-process communications protocols between dismounted soldier battlefield management systems”

Approved March 2007

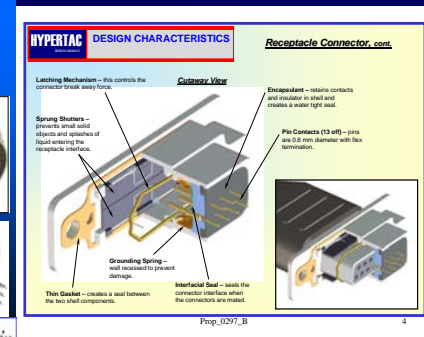
- “Connectivity Standards for soldier battle management systems”

Approved March 2007



Mighty Mouse 80 series connectors for Soldier Systems

- Connector mating of up to 5000 mates and de-mates already tested
- Quick release and push pull connectors already developed for Soldier systems programs.
- Sealed connector rear ends to avoid water ingress when being cleaned
- Contact will accept multiple wire sizes 28 to 22 AWG
- Fully tested to meet the needs of our military customers
- Colour coding is possible

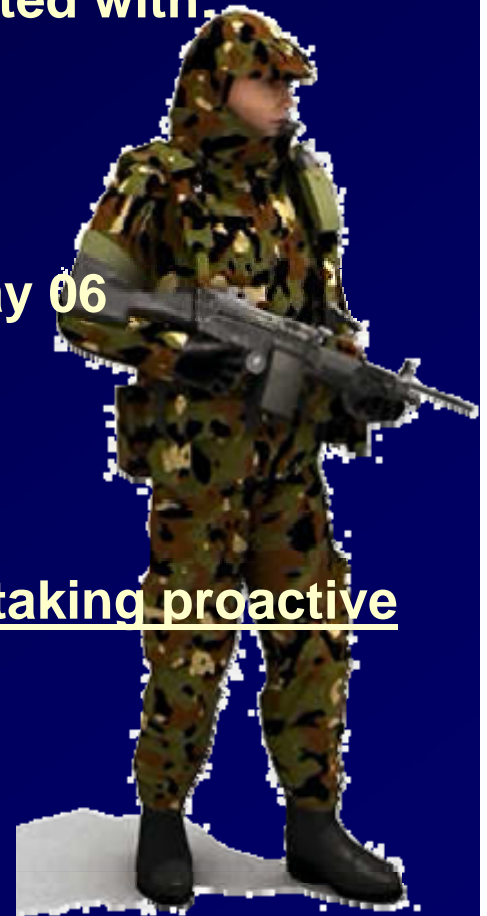


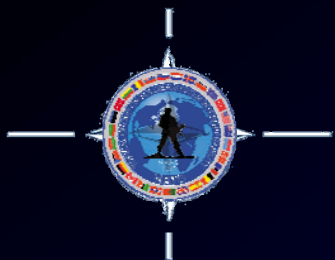


Specific Work of LCG 1

Weapons & Sensors Team

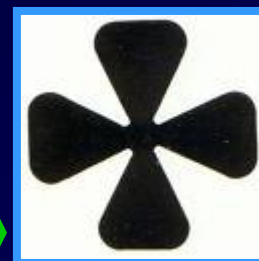
- RTO Study initiated to address issues associated with:
 - ✓ Weapons interfaces
 - ✓ Human Factors & analysis
 - ✓ Electrical Power
- Firing tests conducted at Quantico May 05, May 06
- Deliver a Technical Report by Dec 2008
- Effort will form basis for future work
- Coordinating future national weapon studies, taking proactive approach to future programs like US LSAT





Specific Work of LCG 1

NATO Symbol of
Interchangeability →



Sub Group 1 Ammunition Interchangeability

Qualify NATO Ammunition designs

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



- ✓ Qualified 4 new 5.56mm ammunition designs
- ✓ Qualified 4 new 7.62mm ammunition designs
- ✓ Conducted production tests on 14 approved designs
- ✓ Revised the list of NATO nominated weapons
- ✓ Completed a draft STANAG and MOPI for 30mm
- ✓ Two national test centers certified for selected calibers



Specific Work of LCG 1

Work with Industry NIAG SG102 (21 companies from 11 nations)



Industrial Advisory Group

- NATO Industrial Advisory Group (NIAG)
- Study Title: Integration of C4I on Soldier Systems
- Budget Estimate: €300,000
- Completed March 2007

Scope of Work: Study soldier interoperability issues,
focus on data modeling and distribution.



Specific Work of LCG 1



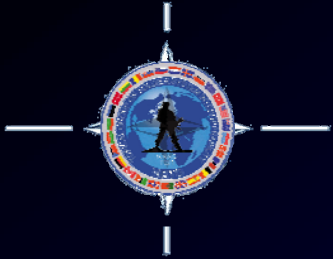
Industrial Advisory Group

Work with Industry SG103 (18 companies from 8 nations)

- NATO Industrial Advisory Group (NIAG)
- Study Title: Interoperability for the soldier Systems
- Budget Estimate: €150,000
- Completed April 2007

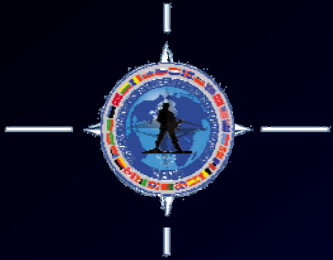
Scope of Work: Study soldier interoperability issues, focus on lower level interoperability -modules and connectors.

Studies allowed for industry participation and validated the technical approach being taken.



Non Lethal Weapons

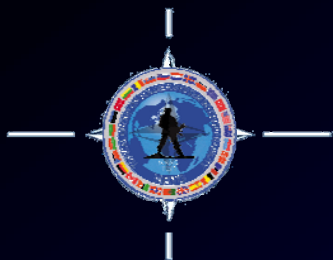
- **LCG/1 is the lead for NLW in the NAAG**
- **Significant high level interest in NATO.**
- **LCG/1 requested higher level guidance on what should be accomplished.**
- **NAAG Established a Quick Reaction Team (QRT) to discuss and define a potential Program of Work by June 2007.**
- **Future work will likely be assigned to LCG/1**
- **Will likely require an additional separate sub Team**



Recent High Level Activity

- **NATO Summit Riga
Latvia 28-29 Nov 2006**
- **Provided a display of
LCG/1 activities and
equipment at Riga
Exposition**
- **Soldiers and
equipment from: FRA,
DEU, ITA, NLD, GBR,
USA**





Riga Summit



Land Capability Group 1 on Dismounted Soldier

Riga Summit



Land Capability Group 1 on Dismounted Soldier



Summary

- **NATO / NAAG has restructured to a capability based focus to better align with the ACT.**
- **LGC/1 is a large group with significant responsibility**
- **All small arms and dismounted responsibility belongs to LCG/1**