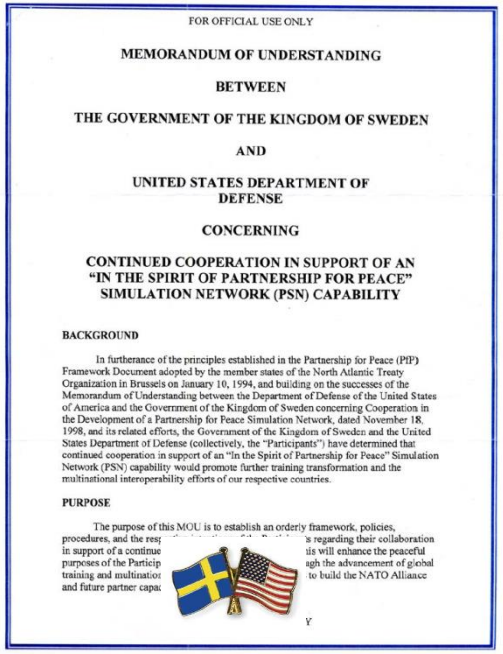
What are we training for?
Is the past a guide to the future?

LtCol Carl-Fredrik Kleman

SWEDISH
ARMED FORCES

World Wide Distributed CPX/CAX

Multidimensional, Multifunctional and Multinational



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MEMORANDUM OF UNDERSTANDING

BETWEEN

THE GOVERNMENT OF THE KINGDOM OF SWEDEN

AND

UNITED STATES DEPARTMENT OF DEFENSE

CONCERNING

CONTINUED COOPERATION IN SUPPORT OF AN "IN THE SPIRIT OF PARTNERSHIP FOR PEACE" SIMULATION NETWORK (PSN) CAPABILITY

BACKGROUND

In furtherance of the principles established in the Partnership for Peace (PfP) Framework Document adopted by the member states of the North Atlantic Treaty Organization in Brussels on January 10, 1994, and building on the successes of the Memorandum of Understanding between the Department of Defense of the United States of America and the Government of the Kingdom of Sweden concerning Cooperation in the Development of a Partnership for Peace Simulation Network, dated November 18, 1998, and its related efforts, the Government of the Kingdom of Sweden and the United States Department of Defense (collectively, the "Participants") have determined that continued cooperation in support of an "In the Spirit of Partnership for Peace" Simulation Network (PSN) capability would promote further training transformation and the multinational interoperability efforts of our respective countries.

PURPOSE

The purpose of this MOU is to establish an orderly framework, policies, procedures, and the res[illegible]s regarding their collaboration in support of a continue[illegible]is will enhance the peaceful purposes of the Particip[illegible]agh the advancement of global training and multinatio[illegible]to build the NATO Alliance and future partner capa[illegible]

SWEDISH ARMED FORCES

What is VIKING?

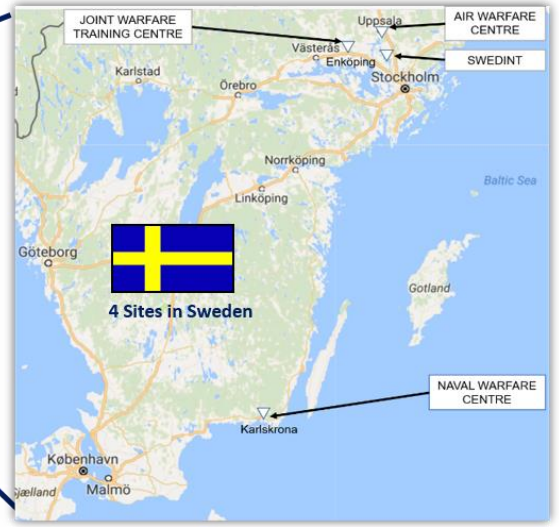
- Exercise VIKING is a training platform designed to prepare civilians, military and police together for deployment to a peace or crisis response mission area.
- A distributed computer assisted command post exercise (CAX/CPX) supported by a large number of partner nations and organizations.
- The exercise is multidimensional, multifunctional and multinational, with an emphasis on realism and current operational concepts.

VIKING 18 Partner Involvement

- 2500 Participants
- 62 Participating nations
- 21 NATO member nations
- 18 Interoperability Platform nations
- 80 Participating Civilian Organizations

Distributed Remote Sites VK 18

SITES:
Brazil
Bulgaria
Finland
Ireland
Serbia
Sweden x 4



Considerations:

Time Zones
Facilities
Time line
Volume & Numbers
#Simulators & C2
Integration
Bandwith
Experimentation

North Friendly Sea Scenario

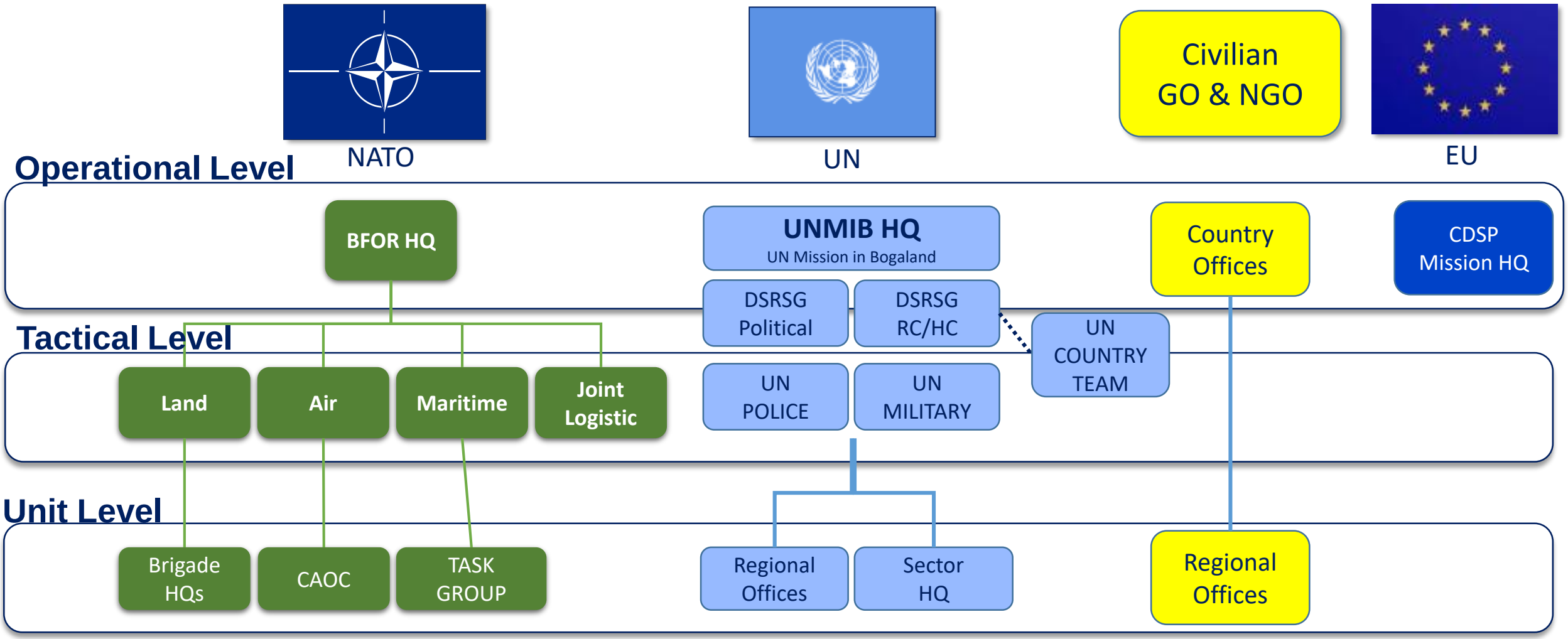
- Reflects current and future challenges in peace support operations
- Maximizes civil-military-police interaction
  - Mandates, themes and incidents that trigger multifunctional coordination

EU presence

UN Mission in Bogaland

NATO PO to Bogaland

3-level Command Post Exercise



Integration – Implementation

VIKING 18

GUI – Graphical User Interface

ORBAT – Order of Battle

MEL/MIL – Main Event List/Main Incident List

HLA – High Level Architecture

Evolution of the VIKING - NATO MSG research

MSG-027

PSN Simulation Agreements
Standards Based (IEEE 1516-2000

MSG-052

MSG-086

(IEEE 1516-2000)
STANAG 4603

MSG-068

NETN FAFD v1.0

MSG-106

NETN FAFD v2.0

MSG-136
MSG-134

AMSP-04/STANREC4800
AMSP-05/CAX Handbook

MSG-145
MSG-164

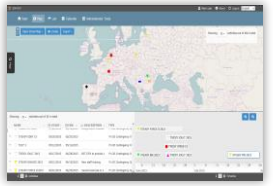
AMSP X/Ref Architecture

MSG-?

MILITARY TRAINING PROCESS

Development Process from VIKING 18 to Next VIKING

Lessons Identified



Lessons Learned

Training Capability Requirements

Capability Innovation
Interoperability
Development
Challenges to Industry

Technical Project Team

Strategic Conclusions & Recommendations

Officer Scheduling the Exercise

Training Capability Requirements

DESIRED EFFECTS

- Efficient start and full training effect already in the beginning of the exercise
- Optimization of Exercise Control Activities – cut time
- Support of all stages of Training Process
- Reduce Exercise Control organization – few train many
- Distribute without specific Simulator software – web
- Reuse system design
- Increase the ability to operate within the information arena

”The Future”
(New Security Climate)

- Connection to National Defence
- Adopted scenario
- Regular Unit HQ (Army, Air Force)
- CPX & LIVEX (Blended Exercises)
- Developed Tech platform/Federation
  - Federated Mission Network (FMN)
  - Hybrid warfare
- Disaster Prevention
- Cyber WARFARE
- Information WARFARE
- Total Defence (Resilience)

SOME WORDS ABOUT VIKING!

Q & A