

## Annex A – TECHNICAL ACTIVITY PROGRAM

<b>Activity</b>	TG	<b>Activity Title</b>	<b>Approval</b> TBA
<b>Activity Ref. Number</b>	MSG-1xx	Distributed Training and Exercises (DTE)	<b>Start</b> 06/2011
<b>Location and Dates</b>		Multiple locations	<b>End</b> 06/2014
<b>Coordination with other bodies</b>	NMSG, ACT, NC3A, NATO M&S COE		
<b>NATO Classification of Activity</b>		UU	<b>Non NATO Invited</b> Yes
<b>Publication Data</b>		TR	UU
<b>Keywords</b>	Interoperability, Simulation, Planning, Analysis, Operational support, Combined Joint Operations		

### I. BACKGROUND AND JUSTIFICATION

In 2007, HQ-SACT initiated a NATO Education and Training Network (NETN) project, which later became Program Snow Leopard, to establish a persistent, joint NETN capability at the strategic, operational, and tactical levels by leveraging existing national capabilities. In 2010 Snow Leopard was renamed Distributed Training and Exercises (DTE) to more clearly identify the program's purpose.

The DTE vision provides dynamic, capability-based training for NRF, CJTF, and NATO and Partner Nation forces in support of NATO security objectives across a full range of integrated operations. DTE will comprise virtual and constructive (VC) environments, and leverage distributed training and shared resources to ensure that NATO and Partner forces receive state-of-the-art training relevant to current operational requirements.

NATO M&S Group 068 developed initial technical solutions to enable DTE. A final Stand Alone Experiment (SAE) showed the technical feasibility of a network of distributed simulations. A demonstration during I/ITSEC 2010 elicited strong interest from numerous nations for a reference architecture and community standards.

However, the initial technical capability is insufficient to support the full DTE vision. NMSG-068 recommended additional technical development. NMSG-068 noted the lack of an established long term process for the maintenance of the initial reference architecture and standards, nor provisions for improvement. Finally, NMSG-068 was unable to more closely link or assess its capabilities against the operational support requirements.

### II. OBJECTIVE(S)

The objective of the Task Group (TG) is to establish a long term process for the maintenance of the initial reference architecture and standards. The TG will also recommend a process consistent with the IEEE 1516.3 Federation Development and Execution Process (FEDEP) whereby Nations and Partners may

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recommend and realize improvement in the reference architecture and standards. Finally, the Task Group will act on NMSG-068 recommendations for technical development to evolve the initial reference architecture and standards to a degree sufficient to support NRF, CJTF, and NATO and Partner Nation exercises.

### **III. TOPICS TO BE COVERED**

- 1) Establish a long term maintenance process for DTE products (FOM, FAFD, certification, standardisation).
- 2) Establish a process for DTE product improvement consistent with the IEEE 1516.3 FEDEP.
- 3) Establish a process for scenario generation and data correlation sufficient to support NRF, CJTF, and NATO and Partner Nation exercises.
- 4) Enable transfer of modelling responsibility/ownership transfer in DTE federations to support NRF, CJTF, and NATO and Partner Nation exercises.
- 5) Recommend means to improve scalability in DTE federations sufficient to support NRF, CJTF, and NATO and Partner Nation exercises.
- 6) Provide guidance for the organization and management of distributed exercises.
- 7) Support distributed exercises proposed by the nations.

### **IV. DELIVERABLES AND/OR END PRODUCT**

- 1) Process for DTE maintenance and product improvement consistent with the IEEE 1516.3 FEDEP.
- 2) Improved DTE products (data mapping, transfer ownership, scalability, etc.).
- 3) Guidance for the organization and management of distributed exercises using DTE.
- 4) Recommendations for the DTE product updates.
- 5) Lessons learned in DTE product support of a NATO and/or Partner Nation exercise(s).
- 6) Testing Documentation, results, and recommendations.
- 7) Final technical report.

### **V. TECHNICAL TEAM LEADER AND LEAD NATION**

ACT

LTC Laurent Tard, France

Ms. Amy Grom, USA

Sweden (Ulf Jinestrand) will be contacted by France (TBC)

### **VI. NATIONS AND ORGANIZATIONS WILLING TO PARTICIPATE**

Canada (?), France, Germany (?), The Netherlands (?), Spain (?), Sweden (?), United Kingdom (?), United States of America, ACT, Joint Warfare Centre (JWC) (?), NC3A (?), NATO M&S COE (?), Others ???

## **VII. NATIONAL AND/OR NATO RESOURCES NEEDED**

- 1) National and NATO technical staff.
- 2) Travel costs for nations and NATO organizations.
- 3) Unclassified information about national training lessons learned.
- 4) Tools for distributed exercises.
- 5) Network assets.
- 6) Unclassified national and NATO ORBAT data.
- 7) HQ-SACT funding for the NC3A participation.
- 8) Support from national and NATO centres of simulation and training.
- 9) Invitations to support distributed exercises.

## **VIII. RTA RESOURCES NEEDED**

MSCO support.

Publication of reports.

