

Annex G – MSG-068 NETN EXPERIMENT FIRST IMPRESSION REPORT

(November 5, 2010)

G.1 AIM AND SCOPE

HQ-SACT, JWC, JFTC, NC3A, NATO M&S CoE and Nations, i.e., Bulgaria, France, Germany, Hungary, the Netherlands, Spain, Sweden, Turkey, the UK and the US, conducted a standalone experiment, NETN EXPERIMENT 10, from 25 October – 5 November 2010, distributed, in Bydgoszcz, The Hague, Paris, Porton Down and Ottobrunn in order to produce the best possible environment within which to obtain data and information required to validate the MSG-068 recommendations for:

- A secure, persistent, on-demand training capability that integrates national centers and NATO;
- Capability and readiness of NATO, Nations and national simulation centers to link into NETN;
- Distributed simulation integrating NATO and national M&S capabilities;
- Multi-granularity;
- Technical standards;
- Distributed training involving national and NATO C2 and simulation systems; and
- Shared scenarios.

The experiment achieved the objectives. The final report for the experiment will be a part of the final MSG-068 technical report. This document is the first impression report about the hypothesis tested during the experiment.

G.2 OBSERVATIONS

Figure G-1 is the statistics about observations as of November 5 at 09:00 (Z). The full list of observations is at Appendix 2.

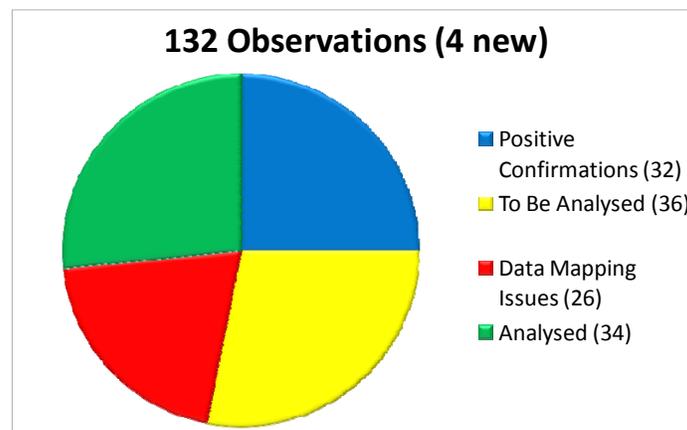


Figure G-1: Observation Statistics.

Draft recommendations based on the analysis of observations are as following:

- Network performance must be ensured before the event and must be constantly monitored.
- FAFD must specify:
 - The order and timing of joining the federation. *Observations show that under specific conditions, the order of joining the federation is important. Other observations show that late joiners had issues joining.*
 - The conditions of using the FOM (flat, modular, mixed). *Observations show that it is important what type of FOM federates use, since this influences the required joining sequence.*
- There must be a mechanisms to ensure compliance of federates:
 - Federates must be compliant with technical standards, FAFD and FOM. *Observations show that federates fail/crash due to not handling various data correctly.*
 - Data mapping issues must be prevented. *Observations show that federates fail to perform due to data not being correctly mapped.*
 - Failure of one federate shouldn't stop the whole operation. *Observations show that if a federate fails, the whole operation stops and cannot continue until the issue is fixed. In an exercise, it may not be possible to just skip an important phase of an operation. A backup solution is needed. C2 systems need to be taken into account here as well.*
 - It must be clear how federates are time synchronized and time co-ordinated. The federation was not time constrained. *Observations show that some patterns require complex time co-ordination.*
 - QoS must be ensured at application level (HLA) to prevent non-important communication block important communication. *Observations show that federates were blocked by update requests while trying to perform an important activity.*
 - Terrain must be correlated across the whole federation. *Observation show that entities appear at unexpected locations.*
- Further recommendations:
 - There should be mechanisms to allow dynamic entities and interactions. *Observations show that there dynamic entities and interactions were required but are currently not supported.*
 - Sustain robustness in federation execution (Booster-like). *Observations show that federation could recover from short network failures.*
 - There should be mechanisms to monitor federation execution that enable instant analysis of what is/was going on in the federation. *Observations show that it is difficult to analyse even simple failures in the federation.*
 - Means to coordinate simulation operators is necessary. *Observations show that co-ordination was good at high level (federation steering), but it was not good at lower level (federate interaction). Examples are airspace management, aircraft location co-ordination during refuelling.*
 - A procedure or tool is needed to detect and remove/hide unwanted/leftover objects from the federation. *Observations show that federates do not remove objects (e.g., detonations) from the federation, which clutters the picture.*

- Ensure that all simulation developers use the same, approved, source code base for en/decoding of HLA classes and interactions.
- Include perception in the FOM. *Aggregate level models are expected to provide side-wide perception. They need perception information from entity-level models.*
- Issues arising from multi-resolution (location, tracks, damage state, etc.) should be addressed and properly understood by operators. *Observations show that operators of entity-level models can be confused by behaviour of shadowed entities controlled by aggregate-level models.*

G.3 THE FIRST IMPRESSION OF THE EXPERIMENT AUDIENCE ABOUT THE HYPOTHESIS TESTED IN THE EVENT

Hypothesis 1: MSG-068 NETN Reference FOM and Federation Agreement Recommendations are Feasible for NETN

MSG-068 FAD is proved to be feasible. However, MSG-068 FAD is not as comprehensive as it could be. For example:

- FAD is not tested for large scenarios with large number of entities.
- Current FAD does not include agreements for Transfer of Ownership.
- Time management and DDM services are not tested.

FOM and FAD agreements are not enough for NETN. There needs to be more, e.g., data correlation and data reconciliation process were not entirely sufficient.

FEDEP should be used. For example, interoperability was achieved between federates during the air refuel injection, but the representation of the process is still not sufficient. FEDEP could have helped that.

There are unnecessary complications, especially in the RPR2 FOM, which is the standalone baseline FOM for NETN. FAD should address them. FAD can specify which parts are not used by any federate.

Hypothesis 2: CFBLNet is Feasible as Persistent Network Architecture for NETN

It is true as long as the bearer network satisfies QoS requirements for NETN.

Hypothesis 3: NLVC is Compatible with the NETN Reference Federation Architecture

Yes. NLVC, as tested, is compatible with the current MSG-068 FOM and FAD.

The reverse hypothesis has not been tested during the experiment. Some audience has concerns about the reverse hypothesis because RPR2 FOM supports only a subset of capabilities that some federates can offer to the federation. However, new FOM modules can be added to address this issue in the future as needed.

Hypothesis 4: NLVC is a Viable and Useful Tool to Support Distributed FAC Training Over a Wide Area Network

Yes.

Hypothesis 5: VBS2 NATO is a Viable and Useful Tool to Support Distributed C-IED Training

Yes.

G.4 CONCLUSION

The experiment flow is at Appendix 1. The detailed observations are collected by the analysis team by using JEMM application and enclosed at Appendix 2. They will be analyzed before the final report is released.

Appendices

- 1 – MSG-068 Experimentation Flow
- 2 – MSG-068 Experiment Observations

EXERCISE SCRIPT REPORT

01: CFBLNet Infrastructure

01.02 Establish CFBLNet and the Internet connections (*Storyline*)

Story

All nations and NATO organizations connect to CFBLNet.

01.02.O01 Outcome for ping and ftp tests (*Intended Storyline Outcome*)

Description

- Ensure that the connections (both the Internet and CFBLNet) are ready for the experiment.
- Make propagation delay and throughput measurements

01.02.A01 NETN-U open (*Action*)

Planned Date:	27OCT2010 0800Z	State	Completed
Actual Date		Protagonist	
Duration	1h	Excon Cell	
Location		Actors	

Description

NETN-U is open and ready for connections from experiment participants

01.02.A02 JFTC connects to NETN-U (*Action*)

Planned Date:	27OCT2010 0830Z	State	Completed
Actual Date		Protagonist	
Duration	30m	Excon Cell	
Location		Actors	

Description

JFTC connects to NETN-U via its PoP

01.02.I01 [EXAMPLE] JFTC connected to NETN-U (*Injection*)

Planned Date:	27OCT2010 0845Z	State	Draft
Actual Date		Means	CHAT
Injector	JFTC RC	Coordinating Cell	EXPCEN
Location		Receiver	NATO,

Description

JFTC reports successful connection to NETN-U

01.02.A03 EXPCELL-ACT prepares a large file (20 GB) (*Action*)

Planned Date:	27OCT2010 1600Z	State	Completed
Actual Date		Protagonist	
Duration	0m	Excon Cell	EXPCELL-ACT
Location		Actors	

Description

EXPCELL-ACT prepares a 20 GB file with any content in it, and informs all the other EXPCELL about

the location of the file. The other experimentation cells should be able to ftp the file. The file should be available both in CFBLNet and in the Internet.

 **01.02.I04 Repeat ping tests in the Internet (Injection)**

Planned Date:	28OCT2010 1200Z	State	Cancelled
Actual Date		Means	E-MAIL
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCCELL-NLD, EXPCCELL-ACT, EXPCCELL-GBR, EXPCCELL-SWE, EXPCCELL-FRA, EXPCCELL-DEU,

Description

Repeat Injection 01-02-I02 for the Internet

 **01.02.R01 Throughput, delay and jitter report (Return)**

Planned Date:	28OCT2010 1500Z	State	Draft
Actual Date			
Sender	EXPCCELL-NC3A	Receiver	EXPCEN

Description

EXPCCELL-NC3A collects the observations and reports from all experimentation cells and send a report to EXPCEN. The first draft of the report should be send before the coordination conference on October 28.

 **01.02.I02 Start ping tests (Injection)**

Planned Date:	28OCT2010 0900Z	State	Injected
Actual Date	05NOV2010 0731Z	Means	CHAT
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCCELL-NLD, EXPCCELL-ACT, EXPCCELL-GBR, EXPCCELL-SWE, EXPCCELL-FRA, EXPCCELL-DEU,

Description

All experimentation cells ping all the other experimentation cells one by one, and observe the round trip time.

 **01.02.I03 Start ftp tests (Injection)**

Planned Date:	05NOV2010 0801Z	State	Injected
Actual Date	05NOV2010 0731Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCCELL-ACT,

Description

- All experimentation cells ftp the file from EXPCCELL-ACT
- All experimentation cells ftp the same file from EXPCCELL-SWE
- EXPCCELL-FRA, EXPCCELL-DEU ftp the same file from EXPCCELL-NL; EXPCCELL-ACT, EXPCCELL-SWE ftp the same file from EXPCCELL-DEU; EXPCCELL-UK and EXPCCELL-NL ftp the same file from EXPCCELL-ACT. All ftp at this item should start almost at the same time. The observations should be carried out when all sites are ftping.

 **01.02.I05 Repeat ftp tests for the Internet (Injection)**

Planned Date:	28OCT2010 1230Z	State	Injected
Actual Date	05NOV2010 0731Z	Means	E-MAIL
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCCELL-NLD, EXPCCELL-ACT, EXPCCELL-GBR, EXPCCELL-SWE, EXPCCELL-FRA, EXPCCELL-DEU,

Description

Repeat the same tests as in the Injection 01-02-I03 for the Internet

[01.03 Manage and monitor CFBLNet infrastructure \(Storyline\)](#)

Story

NC3A manages and monitors the CFBLNet infrastructure.

[01.03.O01 Monitor CFBLNet \(Intended Storyline Outcome\)](#)

Description

EXPCCELL-NC3A monitors the following throughout the experiment:

- Utilization of bandwidth
- Throughput
- Round trip delay
- Jitter

[01.03.R01 Report the CFBLNet measurements \(Return\)](#)

Planned Date:	27OCT2010 0000Z	State	Draft
Actual Date			
Sender	EXPCCELL-NC3A	Receiver	EXPCEN

Description

Report about the CFBLNet Measurements:

- Utilization
- Throughput
- Round trip delay
- Jitter

02: Operational Scenarios

[02.01 Logistics \(MEDEVAC\) \(Storyline\)](#)

Story

Two troops modeled in VR-Forces by EXPCCELL-ESP are wounded. A medical evacuation plan is developed by the operational people in EXPCCELL-ACT send their plan to MEDEVAC response cell in EXPCCELL-DEU. Then EXPCCELL-DEU implements this plan in KORA to evacuate the wounded troops modelled in VR-Forces. All incident is also observed in the other models (i.e., JCATS, JTLS, TYR, VBS2).

[02.01.O01 MSG-068 Federation \(Intended Storyline Outcome\)](#)

Description

Prove the operational usefulness of MSG-068 federation and concept.

[02.01.R01 Report about MEDEVAC Experiment \(Return\)](#)

Planned Date:	27OCT2010 0000Z	State	Draft
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Actual Date
 Sender EXPCELL-DEU Receiver EXPGEN

Description

Report about the feed back from the logistics experimentation audience.

 **02.01.I01 Operational planning (Injection)**

Planned Date: 04NOV2010 0830Z State Injected
 Actual Date 03NOV2010 1149Z Means DELIVERED IN PERSON
 Injector EXPCELL-DEU Coordinating Cell EXPCELL-DEU
 Location Receiver Logistics Audience,

Description

Information of Experimentation Audience about planned engagement against terrorist camp

 **02.01.I02 Capability gap identification focused on medical support (Injection)**

Planned Date: 03NOV2010 1149Z State Injected
 Actual Date 03NOV2010 1150Z Means DELIVERED IN PERSON
 Injector UNKNOWN Coordinating Cell EXPCELL-DEU
 Location Receiver Audience,

Description

Information of Experimentation Audience about the need for additional MEDEVAC capacity

 **02.01.I03 Request and provision of additional medical support (Injection)**

Planned Date: 03NOV2010 1150Z State Injected
 Actual Date 03NOV2010 1150Z Means PHONE
 Injector UNKNOWN Coordinating Cell EXPCELL-DEU
 Location Receiver Audience,

Description

Based on the operational planning of the combat troops LOCON requests additional MEDEVAC support

 **02.01.I04 OPORD (Operation Order) Distribution (Injection)**

Planned Date: 03NOV2010 1150Z State Injected
 Actual Date 03NOV2010 1150Z Means DELIVERED IN PERSON
 Injector UNKNOWN Coordinating Cell EXPCELL-DEU
 Location Receiver Audience,

Description

Information of Experimentation Audience about the medical reinforcement planning

 **02.01.A01 Create TIC in VR-Forces and JCATS (Action)**

Planned Date: 04NOV2010 0857Z State Completed
 Actual Date 04NOV2010 0852Z Protagonist
 Duration 2h Excon Cell EXPCELL-ESP
 Location Actors JEMM, JEMM, JEMM,

Description

Create a group of terrorists (the number is not important) and a blue team in contact with the terrorists. Two of the team embers are wounded. (58o38'12"N 15o18'58"E).

 **02.01.I05 Start the MEDEVAC** *(Injection)*

Planned Date:	04NOV2010 0900Z	State	Injected
Actual Date	04NOV2010 0852Z	Means	JEMM
Injector	UNKNOWN	Coordinating Cell	EXPCELL-DEU
Location		Receiver	EXPCELL-ACT, Logistics Audience, EXPCELL-ESP, EXPCELL-DEU,

Description

HICON deploys medical elements according to OPPLAN

 **02.01.A02 Call Immediate Report to MEDEVAC Audience in EXPCELL-ACT** *(Action)*

Planned Date:	04NOV2010 0902Z	State	Completed
Actual Date	04NOV2010 0909Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-ESP
Location		Actors	JEMM, JEMM,

Description

EXPCELL-ESP sends an immediate report and then carry the wounded personnel to the safe house which will become Casualty Collecting Point which is at 58o38'98"N 15o18'22"E.

 **02.01.A03 EXPCELL-ESP sends a METHANE to the MEDEVAC Audience in EXPCELL-A** *(Action)*

Planned Date:	04NOV2010 0907Z	State	Completed
Actual Date	04NOV2010 0911Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-ESP
Location		Actors	JEMM,

Description

EXPCELL-ESP sends a METHANE report and gives the details about the location (CCP) and casualties.

 **02.01.A04 MEDEVAC Audience request evacuation of the casualties** *(Action)*

Planned Date:	04NOV2010 0909Z	State	Completed
Actual Date	04NOV2010 0923Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM,

Description

MEDEVAC Audience in EXPCELL-ACT request from EXPCELL-DEU the evacuation of casualties by helicopter

 **02.01.A05 Evacuate the casualties** *(Action)*

Planned Date:	04NOV2010 0912Z	State	Completed
Actual Date	04NOV2010 0931Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-DEU
Location		Actors	JEMM, JEMM,

Description

A helicopter in Kora evacuates the wounded personnel in VR-Forces.

 **02.02 C-IED (Storyline)**

Story

Two subject matter experts (SME) will be tasked by HQ-SACT and one staff officer will be tasked by JFTC for this incident. These SMEs and the staff officer will act as the trainers for a distributed C-IED training using VBS2-NATO as the training tool. Apart from that 10 trainees will be assigned by HQ-SACT. Trainers will be in EXPCELL-ACT in Bydgoszcz, and the trainees will stay in Norfolk. All the data communications will be via the Internet.

 **02.02.001 Analyze distributed training effectiveness (Intended Storyline Outcome)**

Description

1. Trainers will be surveyed to determine if they were able to conduct effective C-IED training by using VBS2-NATO although the trainees are in a remote site.
2. The following will also be examined:
 - Time and effort required to prepare the training.
 - The user friendliness of the overall procedures and systems for the trainees.
 - The time and effort required to actually establish the training session.

 **02.02.A02 Start the VBS2 scripts and scenario to support the training (Action)**

Planned Date:	04NOV2010 1500Z	State	Completed
Actual Date		Protagonist	
Duration	1d 2h	Excon Cell	EXPCELL-ACT
Location		Actors	VBS2 (NATO),

Description

The simulation orders and scenario is not known yet. The trainers will develop them and coordinate them with the operators at least 24 hour before the initial injection in the storyline.

 **02.02.R01 (Return)**

Planned Date:	05NOV2010 1000Z	State	Draft
Actual Date			
Sender	C-IED Audience	Receiver	EXPEN

Description

Completed questioneries

 **02.02.A01 Establish connectivity (Action)**

Planned Date:	05NOV2010 1430Z	State	Unknown
Actual Date		Protagonist	
Duration	30m	Excon Cell	EXPCELL-ACT
Location		Actors	VBS2 (NATO),

Description

Check and ensure that the trainees in HQ-SACT can access VBS2-NATO server in JFTC, and they have voice communications with the trainers.

 **02.02.I01 Start lessons planned (Injection)**

Planned Date:	05NOV2010 1500Z	State	Draft
Actual Date		Means	DELIVERED IN PERSON
Injector	EXPCELL-ACT	Coordinating Cell	EXPCELL-ACT

Location Receiver C-IED Audience,

Description

Trainers from C-IED Audience will be asked to start their training session.

 **02.03 NLVC-1 (Storyline)**

Story

Forward observers located in JFTC (EXPCELL-ACT) and using FACSIM FAC station controls air mission (air to ground attack) that fly in FACSIM (F16). FLAMES (F18) in JFTC (EXPCELL-ACT controlled) fly combat air patrol. 3 VBS2-VTK UAVs observe villiage (1 X GBR @ DSTL, 1 X NLD @ TNO, 1 X JWC UAV but controlled from JFTC). Targets are armed vehicles in the villiage and any escaping vehicles. The objective is to demonstrate that NLVC concept and federation work efficiently, make observations on the technical performance/procedures for NLVC, and determine utility for the NLVC capability to support Distributed Training and Exercises.

 **02.03.O01 NLVC concept and federation (Intended Storyline Outcome)**

Description

The objective is to demonstrate that NLVC concept and federation work efficiently, make observations on the technical performance/procedures for NLVC, and determine utility for the NLVC capability to support Distributed Training and Exercises.

 **02.03.I01 FACs are given tactical briefing (Injection)**

Planned Date:	04NOV2010 1000Z	State	Injected
Actual Date	04NOV2010 0943Z	Means	DELIVERED IN PERSON
Injector	EXPCELL-ACT	Coordinating Cell	EXPCELL-ACT
Location		Receiver	NLVC Audience,

Description

The forward air controllers (FACs) receive a tactical briefing to set the situation for the execution of the vignette. The briefing will direct them to destroy armed vehicles in and around the village.

 **02.03.A01 FACs initiate process to coordinate F16 support (Action)**

Planned Date:	04NOV2010 1200Z	State	Completed
Actual Date	04NOV2010 1216Z	Protagonist	
Duration	3h	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM,

Description

NLVC scenario starts. FAC observes villiage and identifies targets that will consist of 1 toyota land cruiser and 3 flatbed trucks, all armed with machineguns. FAC will initiate putting together his call to the aircraft (F16). When he is done he will contact aircraft and talk him onto the target until the target is destroyed. 2 X F18s continue overhead air patrol while 3 UAVs watch villiage. Executing simulations are FACSIM (FAC station @ JFTC), FLAMES, FACSIM (Pilot station @ TNO). Observing simulations are VBS2 (@ TNO and UK), VBS2 (@ JFTC), JCATS (@ JFTC).

 **02.03.A02 Vehicles attempt escape from village (Action)**

Planned Date:	04NOV2010 1217Z	State	Completed
Actual Date	04NOV2010 1233Z	Protagonist	
Duration	3h	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM, JEMM, JEMM,

JEMM, JEMM, JEMM, JEMM,
 JEMM, JEMM, JEMM,

Description

FAC observes escamping terrorists moving to the south east of the village. Decides to redirect F16 onto these vehicles to prevent escape. 2 X F18s continue overhead air patrol while 3 UAVs watch village. Executing simulations are FACSIM (FAC station @ JFTC), FLAMES, FACSIM (Pilot station @ TNO). Observing simulations are VBS2 (@ TNO and UK), VBS2 (@ JFTC), VR-Forces (@ FRA), WAGRAM (@ FRA), ORQUE (@ FRA), JCATS (@ JFTC), JTLS (@ JFTC).

 **02.03.R01 Observation reports by NLVC Audience (Return)**

Planned Date:	04NOV2010 1245Z	State	Draft
Actual Date			
Sender	NLVC Audience	Receiver	EXPCEN

Description

Send the following reports to EXPCEN:
 - Technical requirements (bandwidth, delay and jitter) for NLVC federation
 - Performance reports (crashes, crash details, execution speed, time to start up the federation)
 - User observation reports

 **02.04 Shared Scenarios (Storyline)**

Story

A prototype of the tool designed for the shared scenarios project and shared scenario procedures will be experimented. All the national experiment cells and ACT experiment cell will join to this experiment.

 **02.04.O01 Comments on shared scenarios (Intended Storyline Outcome)**

Description

Receive feed back from the nations on shared scenarios concept and on the demonstrator.

 **02.04.A01 Prepare Shared Scenario Tool for the experiment (Action)**

Planned Date:	03NOV2010 1600Z	State	Scheduled
Actual Date		Protagonist	
Duration	1d 0h	Excon Cell	EXPCEN
Location		Actors	

Description

Prepare the Shared Scenario Tool for the experiment by installing it and loading the appropriate databases. The Shared Scenario Tool should be accessible from the Internet. Prepare also a questionnaire and send to all Experiment Cells.

 **02.04.A02 Access portal on internet server and download submission form (Action)**

Planned Date:	04NOV2010 1527Z	State	Ongoing
Actual Date	04NOV2010 1526Z	Protagonist	
Duration	10m	Excon Cell	EXPCCELL-ACT
Location		Actors	

Description

Access portal on internet server and download submission form.

URL: <http://82.177.169.139/SharedScenarios/Default.aspx>

then click the link 'Download Scenario Contribution Tool'

 **02.04.A03 Fill in description of a scenario that you have used** (Action)

Planned Date:	04NOV2010 1541Z	State	Ongoing
Actual Date	04NOV2010 1526Z	Protagonist	
Duration	1h	Excon Cell	EXPCELL-ACT
Location		Actors	

Description

Fill the description of an exercise scenario that you have used in the past. You can start by adding the setting description and subsequently describe the scenario that was built using the setting.

 **02.04.I02 Briefing to participants on Shared Scenario Library Project** (Injection)

Planned Date:	04NOV2010 1400Z	State	Injected
Actual Date	04NOV2010 1526Z	Means	DELIVERED IN PERSON
Injector	EXPCELL-ACT	Coordinating Cell	EXPEN
Location		Receiver	Audience,

Description

Introductory on shared scenario project objectives and role of experiment in achieving them.

 **02.04.I03 Request to access portal and download submission form** (Injection)

Planned Date:	04NOV2010 1556Z	State	Injected
Actual Date	04NOV2010 1526Z	Means	CHAT
Injector	EXPCELL-ACT	Coordinating Cell	EXPEN
Location		Receiver	Audience,

Description

Request to download submission form from portal on internet

 **02.04.A04 Send submission back for inclusion** (Action)

Planned Date:	04NOV2010 1627Z	State	Ongoing
Actual Date	04NOV2010 1527Z	Protagonist	
Duration	2m	Excon Cell	EXPCELL-ACT
Location		Actors	

Description

Send submission back for inclusion.

Either

- mail to: blackstone.steven@gmail.com
- use Skype to transfer file to msg68expcell-nc3a
- use USB Memory stick (JFTC only)

 **02.04.A05 Consolidate inputs into library** (Action)

Planned Date:	04NOV2010 1532Z	State	Scheduled
Actual Date		Protagonist	
Duration	30m	Excon Cell	EXPCELL-ACT
Location		Actors	

Description

NC3A shared scenario team consolidate inputs from participants into library

 **02.04.I05 Request to fill in questionnaire (Injection)**

Planned Date:	05NOV2010 0700Z	State	Draft
Actual Date		Means	CHAT
Injector	EXPCCELL-ACT	Coordinating Cell	EXPCEN
Location		Receiver	Audience,

Description

Request to fill in questionnaire for the shared scenario library part

 **02.04.I01 Send shared scenarios questionarie to experiment cells (Injection)**

Planned Date:	27OCT2010 0000Z	State	Injected
Actual Date	05NOV2010 0730Z	Means	E-MAIL
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCCELL-NLD, EXPCCELL-ACT, EXPCCELL-GBR, EXPCCELL-SWE, EXPCCELL-ESP, EXPCCELL-FRA, EXPCCELL-DEU,

Description

Shared Scenarios observer sends the questionarie to al the experiment cells, which will have access to JEST to answer the questions in the questionarie.

 **02.04.I04 Request to search library (Injection)**

Planned Date:	05NOV2010 0800Z	State	Draft
Actual Date		Means	CHAT
Injector	EXPCCELL-ACT	Coordinating Cell	EXPCEN
Location		Receiver	Audience,

Description

Request participants to search the library. find their own submitted scenario. Look for other scenarios.

 **02.04.A06 Search scenario library (Action)**

Planned Date:	05NOV2010 0801Z	State	Unknown
Actual Date		Protagonist	
Duration	45m	Excon Cell	
Location		Actors	

Description

Search scenario library
either through your RTA account: <http://nsrl.rta.nato.int/nsrl/login.do>
or through:
<http://82.177.169.139/SharedScenarios>

 **02.04.R01 Report about shared scenarios (Return)**

Planned Date:	05NOV2010 1000Z	State	Draft
Actual Date			

Sender EXPCELL-ACT Receiver EXPCEN

Description

Send a report about the feed back from the experimentation cells.

 **02.05 NLVC-2 (Storyline)**

Story

Forward observers located in JFTC (EXPCELL-ACT) and using FACSIM FAC station controls air mission (air to ground attack) that fly in FACSIM (F16). FLAMES (F18) in JFTC (EXPCELL-ACT controlled) fly combat air patrol. 3 VBS2-VTK UAVs observe villiage (1 X GBR @ DSTL, 1 X NLD @ TNO, 1 X JWC UAV but controlled from JFTC). Targets are armed vehicles in the villiage and any escaping vehicles. The objective is to demonstrate that NLVC concept and federation work efficiently, make observations on the technical performance/procedures for NLVC, and determine utility for the NLVC capabiltiy to support Distributed Training and Exercises.

 **02.05.O01 NLVC concept and federation (Intended Storyline Outcome)**

Description

The objective is to demonstrate that NLVC concept and federation work efficiently, make observations on the technical performance/procedures for NLVC, and determine utility for the NLVC capabiltiy to support Distributed Training and Exercises.

 **02.05.I01 FACs are given tactical briefing (Injection)**

Planned Date:	04NOV2010 1000Z	State	Injected
Actual Date	04NOV2010 0943Z	Means	DELIVERED IN PERSON
Injector	EXPCELL-ACT	Coordinating Cell	EXPCELL-ACT
Location		Receiver	NLVC Audience,

Description

The forward air controllers (FACs) receive a tactical briefing to set the situation for the execution of the vignette. The briefing will direct them to destroy armed vehicles in and around the village.

 **02.05.R01 Observation reports by NLVC Audience (Return)**

Planned Date:	04NOV2010 1245Z	State	Draft
Actual Date			
Sender	NLVC Audience	Receiver	EXPCEN

Description

Send the following reports to EXPCEN:
 - Technical requirements (bandwidth, delay and jitter) for NLVC federation
 - Performance reports (crashes, crash details, execution speed, time to start up the federation)
 - User observtion reports

 **02.05.A01 FACs initiate process to coordinate F16 support (Action)**

Planned Date:	04NOV2010 1300Z	State	Completed
Actual Date		Protagonist	
Duration	3h	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM,

Description

NLVC scenario starts. FAC observes villiage and identifies targets that will consist of 1 toyota land cruiser and 3 flatbed trucks, all armed with machineguns. FAC will initiate putting together his call to the

aircraft (F16). When he is done he will contact aircraft and talk him onto the target until the target is destroyed. 2 X F18s continue overhead air patrol while 3 UAVs watch village. Executing simulations are FACSIM (FAC station @ JFTC), FLAMES, FACSIM (Pilot station @ TNO). Observing simulations are VBS2 (@ TNO and UK), VBS2 (@ JFTC), JCATS (@ JFTC).

 **02.05.A02 Vehicles attempt escape from village** (*Action*)

Planned Date:	04NOV2010 1301Z	State	Completed
Actual Date		Protagonist	
Duration	3h	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM,

Description

FAC observes escamping terrorists moving to the south east of the village. Decides to redirect F16 onto these vehicles to prevent escape. 2 X F18s continue overhead air patrol while 3 UAVs watch village. Executing simulations are FACSIM (FAC station @ JFTC), FLAMES, FACSIM (Pilot station @ TNO). Observing simulations are VBS2 (@ TNO and UK), VBS2 (@ JFTC), VR-Forces (@ FRA), WAGRAM (@ FRA), ORQUE (@ FRA), JCATS (@ JFTC), JTLS (@ JFTC).

 **02.06 NLVC-3** (*Storyline*)

Story

Forward observers located in JFTC (EXPCELL-ACT) and using FACSIM FAC station controls air mission (air to ground attack) that fly in FACSIM (F16). FLAMES (F18) in JFTC (EXPCELL-ACT controlled) fly combat air patrol. 3 VBS2-VTK UAVs observe villiage (1 X GBR @ DSTL, 1 X NLD @ TNO, 1 X JWC UAV but controlled from JFTC). Targets are armed vehicles in the villiage and any escaping vehicles. The objective is to demonstrate that NLVC concept and federation work efficiently, make observations on the technical performance/procedures for NLVC, and determine utility for the NLVC capability to support Distributed Training and Exercises.

 **02.06.O01 NLVC concept and federation** (*Intended Storyline Outcome*)

Description

The objective is to demonstrate that NLVC concept and federation work efficiently, make observations on the technical performance/procedures for NLVC, and determine utility for the NLVC capability to support Distributed Training and Exercises.

 **02.06.I01 FACs are given tactical briefing** (*Injection*)

Planned Date:	04NOV2010 1000Z	State	Injected
Actual Date	04NOV2010 0943Z	Means	DELIVERED IN PERSON
Injector	EXPCELL-ACT	Coordinating Cell	EXPCELL-ACT
Location		Receiver	NLVC Audience,

Description

The forward air controllers (FACs) receive a tactical briefing to set the situation for the execution of the vignette. The briefing will direct them to destroy armed vehicles in and around the village.

 **02.06.R01 Observation reports by NLVC Audience** (*Return*)

Planned Date:	04NOV2010 1245Z	State	Draft
Actual Date			
Sender	NLVC Audience	Receiver	EXPCEN

Description

Send the following reports to EXPCEN:

- Technical requirements (bandwidth, delay and jitter) for NLVC federation
- Performance reports (crashes, crash details, execution speed, time to start up the federation)
- User observation reports

 **02.06.A01 FACs initiate process to coordinate F16 support** (*Action*)

Planned Date:	04NOV2010 1400Z	State	Completed
Actual Date		Protagonist	
Duration	3h	Excon Cell	EXPCCELL-ACT
Location		Actors	JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM,

Description

NLVC scenario starts. FAC observes villiage and identifies targets that will consist of 1 toyota land cruiser and 3 flatbed trucks, all armed with machineguns. FAC will initiate putting together his call to the aircraft (F16). When he is done he will contact aircraft and talk him onto the target until the target is destroyed. 2 X F18s continue overhead air patrol while 3 UAVs watch villiage. Executing simulations are FACSIM (FAC station @ JFTC), FLAMES, FACSIM (Pilot station @ TNO). Observing simulations are VBS2 (@ TNO and UK), VBS2 (@ JFTC), VR-Forces (@ FRA), WAGRAM (@ FRA), ORQUE (@ FRA), JCATS (@ JFTC), JTLS (@ JFTC).

 **02.06.A02 Vehicles attempt escape from villiage** (*Action*)

Planned Date:	04NOV2010 1401Z	State	Completed
Actual Date	04NOV2010 1429Z	Protagonist	
Duration	3h	Excon Cell	EXPCCELL-ACT
Location		Actors	JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM, JEMM,

Description

FAC observes escamping terrorists moving to the south east of the villiage. Decides to redirect F16 onto these vehicles to prevent escape. 2 X F18s continue overhead air patrol while 3 UAVs watch villiage. Executing simulations are FACSIM (FAC station @ JFTC), FLAMES, FACSIM (Pilot station @ TNO). Observing simulations are VBS2 (@ TNO and UK), VBS2 (@ JFTC), VR-Forces (@ FRA), WAGRAM (@ FRA), ORQUE (@ FRA), JCATS (@ JFTC), JTLS (@ JFTC).

 **03: Technical Scenarios**

 **03.01 Assault Campaign 1 (Internet with booster)** (*Storyline*)

Story

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

 **03.01.O01 Campaign 1** (*Intended Storyline Outcome*)

Description

- Prove that
- MSG-068 NETN concept is feasible
 - MSG-068 NETN Reference Federation Architecture is practical

 **03.01.A01 Sea lift (Action)**

Planned Date:	02NOV2010 0856Z	State	Completed
Actual Date	02NOV2010 0856Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-FRA
Location		Actors	JEMM, JEMM, JEMM,

Description

Orque will provide transportation service.
 WAGRAM will consume the service provided by Orque.
 VR-Forces will also consume.
 Port for embarkation is VISBY.
 Port for debarkation is OXELÖSUND.
 The units to be transfered will be selected by the related experimentation cell.
 Once embarkation is complete, simulation time will be increased during transfer.
 During transport the unit modeled in WAGRAM will be inactive. All subscribing systems shall handle the inactive state and set the new location once the service has been completed and the unit has debarked.

 **03.01.I01 Sea lift (Injection)**

Planned Date:	02NOV2010 0858Z	State	Injected
Actual Date	02NOV2010 0856Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-ESP, EXPCELL-FRA,

Description

Sea lift of forces

 **03.01.I02 UAV Recce (Injection)**

Planned Date:	02NOV2010 0911Z	State	Injected
Actual Date	02NOV2010 0909Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-GBR,

Description

UAV is tasked to monitor the area

 **03.01.A02 UAV Recce (Action)**

Planned Date:	02NOV2010 0909Z	State	Completed
Actual Date	02NOV2010 0910Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-GBR
Location		Actors	JEMM, JEMM,

Description

The UAV Reconnaissance vignette demonstrates the use of RPR-FOM based, platform level, virtual simulation VBS2 and constructive simulation JCATS. Radio simulation is used to model communication between UAV operator and ground commander. JCATS stimulates VBS2 with entities representing the terrorist camp buildings, vehicles and individual humans. VBS2 simulates UAV and generates a UAV feed over the area including visualization of JCATS generated entities.

Fly a predator in VBS2. Initial location for the predator is 57.388402, 18.189365, 2000.

Move entities in JCATS around building1 (58.643177, 15.316343, 0) and building 2 (58.639517,

15.311118, 0)

 **03.01.A03 Cruise missile** (*Action*)

Planned Date:	02NOV2010 0923Z	State	Completed
Actual Date	02NOV2010 0923Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-FRA
Location		Actors	JEMM, JEMM, JEMM, JEMM,

Description

This vignette demonstrates the representation of RPR-FOM based munition objects with Weapon Fire and Munition Detonation interactions. Based on target information collected during UAV Recce and Identification, a french SCALP Naval cruise missile is launcehd from a french FREMM frigate off the coast of Bogaland. The target has been identified as a terrorist weapon depot in the northen group of buildings of the terrorist camp. Location and target parameters are reported and a fire mission communicatted using radio (PLEXcomm) to the ShipCmd. The french simulation Orque models the frigate and the cruise missile launch, flight and detonation. Effects are observed by UAV modeled using VBS2.

UAV is a predator and initial location (when the injection is given) is 57.388402, 18.189365, 2000.

The location of FREMM is 57.511, 18.055,0.

The target of SCALP is a building at location 58.643177, 15.316343, 0.

The building is an entity in JCATS.

 **03.01.I03 Cruise missile** (*Injection*)

Planned Date:	02NOV2010 0924Z	State	Injected
Actual Date	02NOV2010 0923Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-NLD, EXPCELL-ACT, EXPCELL-GBR, EXPCELL-FRA,

Description

Cruise strike ordered and executed

 **03.01.I04 Ground Strike with CAS/CCA** (*Injection*)

Planned Date:	02NOV2010 0938Z	State	Injected
Actual Date	02NOV2010 0936Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-NLD, EXPCELL-ACT, EXPCELL-GBR, EXPCELL-ESP, EXPCELL-FRA,

Description

Ground strike with CAS/CCA

 **03.01.A05 Marine blocking** (*Action*)

Planned Date:	02NOV2010 0951Z	State	Cancelled
Actual Date		Protagonist	
Duration	0m	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM,

Description

USMC in JCATS positioned south of Terrorist Camp in Blocking position. Terrorists (both in JCATS and

VBS2-GBR) moving south from the camp will be engaged by USMC.

 **03.01.A06 MEDEVAC** (Action)

Planned Date:	02NOV2010 0951Z	State	Cancelled
Actual Date		Protagonist	
Duration	0m	Excon Cell	EXPCELL-DEU
Location		Actors	JEMM, JEMM,

Description

Evacuate wounded Spanish infantry in VR-Forces using German medevac units.in Kora. The wounded soldier will be in the vicinity of the ground strike. Exact location will be determined based on the ground strike. The wounded soldier can be evacuated to any field hospital selected by EXPCELL-DEU.

 **03.01.I05 Marine Blocking Position** (Injection)

Planned Date:	02NOV2010 0951Z	State	Cancelled
Actual Date		Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-GBR,

Description

Marine blocking position

 **03.01.I06 MEDEVAC** (Injection)

Planned Date:	02NOV2010 0951Z	State	Cancelled
Actual Date		Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ESP, EXPCELL-DEU,

Description

MEDEVAC

 **03.01.A04 Ground strike** (Action)

Planned Date:	02NOV2010 0936Z	State	Completed
Actual Date	02NOV2010 1006Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM, JEMM, JEMM,

Description

Multinational combined ground-strike from north of terrorist camp. Swedish MBT platoon approach from north supported by indirect fire from French 221st Motorized Infantry Battalion and mechanized infantry from US and Spain (Mech Coy: BIMZ I/31 Covadonga 3rdCia).

- FRA (Indirect Fire Support, 221BATINF 48xVBCI + 16xVAB + 8xMo120mm + 16xMilan) at WAGRAM.
- USA (APC Stryker)at JCATS.
- ESP (AFV ASCOD PIZARRO, BIMZ I/31 Covadonga 3th Coy: 13xPizarro, 4xTruks, 84xsoldiers) at VR-Forces.
- JPECT will conduct an air strike.
- VR-Forces will also conduct a close air support

 **03.01.R01 Report about the results of Campaign 1 with Booster** (Return)

Planned Date:	02NOV2010 1100Z	State	Draft
Actual Date			
Sender	EXPCCELL-ACT	Receiver	EXPCEN

Description

Report about the results of Campaign 1 with Booster.

 **03.02 Assault Campaign 2 (CFBLNet with booster) (Storyline)**

Story

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

 **03.02.O01 MSG-068 NETN Concept and Reference Federation (Intended Storyline Outcome)**

Description

Prove that
- MSG-068 NETN concept is feasible
- MSG-068 NETN Reference Federation Architecture is practical

 **03.02.R01 Report about the results of Campaign 2 with Booster (Return)**

Planned Date:	03NOV2010 1100Z	State	Draft
Actual Date			
Sender	EXPCCELL-ACT	Receiver	EXPCEN

Description

Report about the results of Campaign 2 with Booster.

 **03.02.A01 UAV Recce (Action)**

Planned Date:	03NOV2010 1239Z	State	Completed
Actual Date	03NOV2010 1239Z	Protagonist	
Duration	2h	Excon Cell	EXPCCELL-ACT
Location		Actors	JEMM, JEMM,

Description

The UAV Reconnaissance vignette demonstrates the use of RPR-FOM based, platform level, virtual simulation VBS2 and constructive simulation JCATS. Radio simulation is used to model communication between UAV operator and ground commander. JCATS stimulates VBS2 with entities representing the terrorist camp buildings, vehicles and individual humans. VBS2 simulates UAV and generates a UAV feed over the area including visualization of JCATS generated entities.

Fly a predator in VBS2(NLD). Initial location for the predator is 57.388402, 18.189365, 2000.

Move entities in JCATS around building1 (58.643177, 15.316343, 0) and building 2 (58.639517, 15.311118, 0)

 **03.02.I01 UAV Recce (Injection)**

Planned Date:	03NOV2010 1300Z	State	Injected
Actual Date	03NOV2010 1239Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN

Location Receiver EXPCELL-NLD, EXPCELL-ACT,

Description

UAV is tasked to monitor the area. JCATS entities are reflected in VBS2.

 **03.02.A02 Implement air strikes by using VBS2-NLD, VBS2-UK and JPECT** (Action)

Planned Date:	03NOV2010 1314Z	State	Completed
Actual Date		Protagonist	
Duration	15m	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM, JEMM, JEMM,

Description

Air missions flying in FLAMES strike the terrorist camp in JCATS. Select any type of aircraft and ammunition.
UAVs in VBS2 UK and VBS2 NLD observe.
JCATS shoots the air missions in FLAMES.

 **03.02.I02 Air Strike** (Injection)

Planned Date:	03NOV2010 1254Z	State	Injected
Actual Date	03NOV2010 1314Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-NLD, EXPCELL-ACT, EXPCELL-GBR, UNKNOWN,

Description

Air strike ordered and executed

 **03.02.I03 Air refuel** (Injection)

Planned Date:	03NOV2010 1329Z	State	Injected
Actual Date	03NOV2010 1314Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-SWE, EXPCELL-FRA,

Description

Start air refuel incident

 **03.02.A03 Air refuel** (Action)

Planned Date:	03NOV2010 1314Z	State	Completed
Actual Date	03NOV2010 1322Z	Protagonist	
Duration	15m	Excon Cell	EXPCELL-SWE
Location		Actors	JEMM, JEMM, JEMM,

Description

A request for air refule is coming from an aircraft modelled by JTLS in the south of Bogaland. A tanker aircraft in Orque offers supply service to this aircraft and the services are supplied, and both aircraft goes on their way.TYR is passive.

 **03.02.A04 Ground strike (aggregate)** (Action)

Planned Date:	03NOV2010 1356Z	State	Completed
Actual Date	03NOV2010 1356Z	Protagonist	

Duration	15m	Excon Cell	EXPCELL-FRA
Location		Actors	JEMM, JEMM, JEMM, JEMM,

Description

Terrorists are in JCATS and in the camp area.
Aggregate units in TYR, WAGRAM and JTLS (select appropriate one from your ORBAT) engage terrorist camp.

 **03.02.I04 Ground strike 2 (Aggregated) (Injection)**

Planned Date:	03NOV2010 1329Z	State	Injected
Actual Date	03NOV2010 1356Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-SWE, EXPCELL-FRA,

Description

Indirect fire (platform-level)

 **03.02.I05 Marine Blocking (Injection)**

Planned Date:	03NOV2010 1411Z	State	Injected
Actual Date	03NOV2010 1412Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-NLD, EXPCELL-ACT,

Description

Marine blocking

 **03.02.A05 Marine blocking (Action)**

Planned Date:	03NOV2010 1412Z	State	Completed
Actual Date	03NOV2010 1428Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM,

Description

USMC in JCATS positioned south of Terrorist Camp in Blocking position. Terrorists (both in JCATS and VBS2-NLD) moving south from the camp will be engaged by USMC.

 **03.02.I06 Hostage Situation (Injection)**

Planned Date:	03NOV2010 1427Z	State	Injected
Actual Date	03NOV2010 1429Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-SWE,

Description

Hostage taken and situation resolved

 **03.02.A06 Hostage situation (Action)**

Planned Date:	03NOV2010 1429Z	State	Completed
Actual Date	03NOV2010 1434Z	Protagonist	

Duration	0m	Excon Cell	EXPCELL-SWE
Location		Actors	JEMM, JEMM,

Description

TYR will request the transport a group of hostages held outside the terrorist camp and PitchActors will provide the transport.

 **03.02.I08 Ammunition resupply (Injection)**

Planned Date:	03NOV2010 1444Z	State	Injected
Actual Date	03NOV2010 1443Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-FRA,

Description

Ammunition resupply

 **03.02.A07 Repair (Action)**

Planned Date:	03NOV2010 1444Z	State	Cancelled
Actual Date		Protagonist	
Duration	15m	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM,

Description

JCATS request the repair of a broken down vehicle. A vehicle that needs maintenance after the ground strike.... WAGRAM provides an engineering unit supplying the service.

 **03.02.A08 Ammunition resupply (Action)**

Planned Date:	03NOV2010 1443Z	State	Completed
Actual Date	03NOV2010 1444Z	Protagonist	
Duration	15m	Excon Cell	EXPCELL-FRA
Location		Actors	JEMM, JEMM,

Description

JCATS requests an ammunition resupply and WAGRAM provides that.

 **03.02.I07 Repair (Injection)**

Planned Date:	03NOV2010 1444Z	State	Cancelled
Actual Date		Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-FRA,

Description

Repair logistics pattern

 **03.03 Assault Campaign 1 (CFBLNet with booster) (Storyline)**

Story

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists. Intel is that there is a terrorist camp, terrorist activity has happened.

The decision to attack has been taken.

 **03.03.001 Campaign 1** (*Intended Storyline Outcome*)

Description

Prove that
 - MSG-068 NETN concept is feasible
 - MSG-068 NETN Reference Federation Architecture is practical

 **03.03.R01 Report about the results of Campaign 1 with Booster** (*Return*)

Planned Date:	02NOV2010 1100Z	State	Draft
Actual Date			
Sender	EXPCELL-ACT	Receiver	EXPCEN

Description

Report about the results of Campaign 1 with Booster.

 **03.03.A01 Sea lift** (*Action*)

Planned Date:	03NOV2010 0745Z	State	Completed
Actual Date	03NOV2010 0745Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-FRA
Location		Actors	JEMM, JEMM, JEMM,

Description

Orque will provide transportation service.
 WAGRAM will consume the service provided by Orque.
 VR-Forces will also consume.
 Port for embarkation is VISBY.
 Port for debarkation is OXELÖSUND.
 The units to be transferred will be selected by the related experimentation cell.
 Once embarkation is complete, simulation time will be increased during transfer.
 During transport the unit modeled in WAGRAM will be inactive. All subscribing systems shall handle the inactive state and set the new location once the service has been completed and the unit has debarked.

 **03.03.I01 Sea lift** (*Injection*)

Planned Date:	03NOV2010 0745Z	State	Injected
Actual Date	03NOV2010 0745Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-ESP, EXPCELL-FRA,

Description

Sea lift of forces

 **03.03.A02 UAV Recce** (*Action*)

Planned Date:	03NOV2010 0804Z	State	Completed
Actual Date	03NOV2010 0804Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-GBR
Location		Actors	JEMM, JEMM,

Description

The UAV Reconnaissance vignette demonstrates the use of RPR-FOM based, platform level, virtual simulation VBS2 and constructive simulation JCATS. Radio simulation is used to model communication

between UAV operator and ground commander. JCATS stimulates VBS2 with entities representing the terrorist camp buildings, vehicles and individual humans. VBS2 simulates UAV and generates a UAV feed over the area including visualization of JCATS generated entities.

Fly a predator in VBS2. Initial location for the predator is 57.388402, 18.189365, 2000.

Move entities in JCATS around building1 (58.643177, 15.316343, 0) and building 2 (58.639517, 15.311118, 0)

 **03.03.I02 UAV Recce** (*Injection*)

Planned Date:	03NOV2010 0800Z	State	Injected
Actual Date	03NOV2010 0804Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-GBR,

Description

UAV is tasked to monitor the area

 **03.03.I03 Cruise missile** (*Injection*)

Planned Date:	03NOV2010 0819Z	State	Injected
Actual Date	03NOV2010 0903Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-NLD, EXPCELL-ACT, EXPCELL-GBR, EXPCELL-FRA,

Description

Cruise strike ordered and executed

 **03.03.A03 Cruise missile** (*Action*)

Planned Date:	03NOV2010 0903Z	State	Completed
Actual Date	03NOV2010 0915Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-FRA
Location		Actors	JEMM, JEMM, JEMM, JEMM,

Description

This vignette demonstrates the representation of RPR-FOM based munition objects with Weapon Fire and Munition Detonation interactions. Based on target information collected during UAV Recce and Identification, a french SCALP Naval cruise missile is launcehd from a french FREMM frigate off the coast of Bogaland. The target has been identified as a terrorist weapon depot in the northen group of buildings of the terrorist camp. Location and target parameters are reported and a fire mission communicatted using radio (PLEXcomm) to the ShipCmd. The french simulation Orque models the frigate and the cruise missile launch, flight and detonation. Effects are observed by UAV modeled using VBS2.

UAV is a predator and initial location (when the injection is given) is 57.388402, 18.189365, 2000.

The location of FREMM is 57.511, 18.055,0.

The target of SCALP is a building at location 58.643177, 15.316343, 0.

The building is an entity in JCATS.

 **03.03.A04 Ground strike** (*Action*)

Planned Date:	03NOV2010 0952Z	State	Completed
Actual Date	03NOV2010 0952Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-ACT

Location	Actors	JEMM, JEMM, JEMM, JEMM, JEMM,
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Description

Multinational combined ground-strike from north of terrorist camp. Swedish MBT platoon approach from north supported by indirect fire from French 221st Motorized Infantry Battalion and mechanized infantry from US and Spain (Mech Coy: BIMZ I/31 Covadonga 3^oCia).

- FRA (Indirect Fire Support, 221BATINF 48xVBCI + 16xVAB + 8xMo120mm + 16xMilan) at WAGRAM.
- USA (APC Stryker)at JCATS.
- ESP (AFV ASCOD PIZARRO, BIMZ I/31 Covadonga 3th Coy: 13xPizarro, 4xTruks, 84xsoldiers) at VR-Forces.
- FLAMES flies air to ground attack (CAS) and observe that with FACSIM

 **03.03.I04 Ground Strike with CAS/CCA (Injection)**

Planned Date:	03NOV2010 0918Z	State	Injected
Actual Date	03NOV2010 0952Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCCELL-NLD, EXPCCELL-ACT, EXPCCELL-GBR, EXPCCELL-ESP, EXPCCELL-FRA,

Description

Ground strike with CAS/CCA

 **03.03.A05 Marine blocking (Action)**

Planned Date:	03NOV2010 1007Z	State	Cancelled
Actual Date		Protagonist	
Duration	0m	Excon Cell	EXPCCELL-ACT
Location		Actors	JEMM, JEMM,

Description

USMC in JCATS positioned south of Terrorist Camp in Blocking position. Terrorists (both in JCATS and VBS2-GBR) moving south from the camp will be engaged by USMC.

 **03.03.A06 MEDEVAC (Action)**

Planned Date:	03NOV2010 1007Z	State	Cancelled
Actual Date		Protagonist	
Duration	0m	Excon Cell	EXPCCELL-DEU
Location		Actors	JEMM, JEMM,

Description

Evacuate wounded Spanish infantry in VR-Forces using Pitch Actors. The wounded soldier will be in the vicinity of the ground strike. Exact location will be determined based on the ground strike. The wounded soldier can be evacuated to any field hospital selected by EXPCCELL-NLD.

 **03.03.I05 Marine Blocking Position (Injection)**

Planned Date:	03NOV2010 1007Z	State	Cancelled
Actual Date		Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN

Location Receiver EXPCELL-ACT, EXPCELL-GBR,

Description

Marine blocking position

 **03.03.106 MEDEVAC** (Injection)

Planned Date: 03NOV2010 1007Z	State	Cancelled
Actual Date	Means	PLEXComm Radio
Injector EXPCEN	Coordinating Cell	EXPCEN
Location	Receiver	EXPCELL-ESP, EXPCELL-DEU,

Description

MEDEVAC

 **03.04 Assault Campaign 2 (Internet with booster)** (Storyline)

Story

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists. Intel is that there is a terrorist camp, terrorist activity has happened. The decision to attack has been taken.

 **03.04.O01 MSG-068 NETN Concept and Reference Federation** (Intended Storyline Outcome)

Description

Prove that
- MSG-068 NETN concept is feasible
- MSG-068 NETN Reference Federation Architecture is practical

 **03.04.A01 UAV Recce** (Action)

Planned Date: 02NOV2010 1300Z	State	Completed
Actual Date 02NOV2010 1300Z	Protagonist	
Duration 2h	Excon Cell	EXPCELL-ACT
Location	Actors	JEMM, JEMM,

Description

The UAV Reconnaissance vignette demonstrates the use of RPR-FOM based, platform level, virtual simulation VBS2 and constructive simulation JCATS. Radio simulation is used to model communication between UAV operator and ground commander. JCATS stimulates VBS2 with entities representing the terrorist camp buildings, vehicles and individual humans. VBS2 simulates UAV and generates a UAV feed over the area including visualization of JCATS generated entities.

Fly a predator in VBS2(NLD). Initial location for the predator is 57.388402, 18.189365, 2000.

Move entities in JCATS around building1 (58.643177, 15.316343, 0) and building 2 (58.639517, 15.311118, 0)

 **03.04.I01 UAV Recce** (Injection)

Planned Date: 02NOV2010 1300Z	State	Injected
Actual Date 02NOV2010 1300Z	Means	PLEXComm Radio
Injector EXPCEN	Coordinating Cell	EXPCEN
Location	Receiver	EXPCELL-NLD, EXPCELL-ACT,

Description

UAV is tasked to monitor the area. JCATS entities are reflected in VBS2.

 **03.04.A02 Implement air strikes by using VBS2-NLD, VBS2-UK and JPECT** (Action)

Planned Date:	02NOV2010 1317Z	State	Completed
Actual Date	02NOV2010 1317Z	Protagonist	
Duration	15m	Excon Cell	EXPCCELL-ACT
Location		Actors	JEMM, JEMM, JEMM, JEMM,

Description

Air missions flying in JPECT strike the terrorist camp in JCATS.
 Select any type of aircraft and ammunition. UAVs in VBS2 UK and VBS2 NLD observe.

 **03.04.I02 Air Strike** (Injection)

Planned Date:	02NOV2010 1315Z	State	Injected
Actual Date	02NOV2010 1317Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCCELL-NLD, EXPCCELL-ACT, UNKNOWN, EXPCCELL-GBR,

Description

Air strike ordered and executed

 **03.04.A03 Air refuel** (Action)

Planned Date:	02NOV2010 1329Z	State	Completed
Actual Date	02NOV2010 1329Z	Protagonist	
Duration	15m	Excon Cell	EXPCCELL-SWE
Location		Actors	JEMM, JEMM, JEMM,

Description

A request for air refuel is coming from an aircraft modelled by JTLS in the south of Bogaland. A tanker aircraft in Orque offers supply service to this aircraft and the services are supplied, and both aircraft goes on their way.TYR is passive.

 **03.04.I03 Air Refuel** (Injection)

Planned Date:	02NOV2010 1332Z	State	Injected
Actual Date	02NOV2010 1329Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCCELL-ACT, EXPCCELL-SWE, EXPCCELL-FRA,

Description

Air refuel

 **03.04.I04 Ground strike 2 (Aggregate)** (Injection)

Planned Date:	02NOV2010 1344Z	State	Injected
Actual Date	02NOV2010 1349Z	Means	E-MAIL
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCCELL-ACT, EXPCCELL-SWE,

EXPCELL-FRA,

Description

Ground strike (aggregate)

 **03.04.A04 Ground strike (aggregate) (Action)**

Planned Date:	02NOV2010 1349Z	State	Completed
Actual Date	02NOV2010 1353Z	Protagonist	
Duration	15m	Excon Cell	EXPCELL-FRA
Location		Actors	JEMM, JEMM, JEMM, JEMM,

Description

Terrorists are in JCATS and in the camp area.
Aggregate units in TYR, WAGRAM and JTLS (select appropriate one from your ORBAT) engage terrorist camp.

 **03.04.I05 Marine Blocking (Injection)**

Planned Date:	02NOV2010 1404Z	State	Injected
Actual Date	02NOV2010 1410Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-NLD, EXPCELL-ACT,

Description

Marine blocking

 **03.04.A05 Marine blocking (Action)**

Planned Date:	02NOV2010 1410Z	State	Completed
Actual Date	02NOV2010 1412Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-ACT
Location		Actors	JEMM, JEMM,

Description

USMC in JCATS positioned south of Terrorist Camp in Blocking position. Terrorists (both in JCATS and VBS2-NLD) moving south from the camp will be engaged by USMC.

 **03.04.I06 Hostage Situation (Injection)**

Planned Date:	02NOV2010 1425Z	State	Injected
Actual Date	02NOV2010 1457Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-SWE, EXPCELL-DEU,

Description

Hostage taken and situation resolved

 **03.04.A06 Hostage situation (Action)**

Planned Date:	02NOV2010 1457Z	State	Completed
Actual Date	02NOV2010 1500Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-DEU
Location		Actors	JEMM, JEMM,

Description

TYR will request the transport a group of hostages held outside the terrorist camp and Kora will provide the transport.

 **03.04.A09 MEDEVAC** (Action)

Planned Date:	02NOV2010 1508Z	State	Completed
Actual Date	02NOV2010 1508Z	Protagonist	
Duration	0m	Excon Cell	EXPCELL-DEU
Location		Actors	JEMM, JEMM,

Description

Evacuate wounded Spanish infantry in VR-Forces using German medevac units.in Kora. The wounded soldier will be in the vicinity of the ground strike. Exact location will be determined based on the ground strike. The wounded soldier can be evacuated to any field hospital selected by EXPCELL-DEU.

 **03.04.I07 MEDEVAC** (Injection)

Planned Date:	02NOV2010 1512Z	State	Injected
Actual Date	02NOV2010 1508Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ESP, EXPCELL-DEU,

Description

execute medevac injection

 **03.04.R01 Report about the results of Campaign 2 with Booster** (Return)

Planned Date:	03NOV2010 1100Z	State	Draft
Actual Date			
Sender	EXPCELL-ACT	Receiver	EXPCEN

Description

Report about the results of Campaign 2 with Booster.

 **03.04.I08 Ammunition resupply** (Injection)

Planned Date:	04NOV2010 1000Z	State	Injected
Actual Date	04NOV2010 1004Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	EXPCELL-ACT, EXPCELL-FRA,

Description

Ammunition resupply

 **03.04.A08 Ammunition resupply** (Action)

Planned Date:	04NOV2010 1004Z	State	Completed
Actual Date	04NOV2010 1005Z	Protagonist	
Duration	15m	Excon Cell	EXPCELL-FRA
Location		Actors	JEMM, JEMM,

Description

JCATS requests an ammunition resupply and WAGRAM provides that.



OBSERVATION TASK REPORT

Storyline Observation Tasks

STOR01 (Storyline Observation Task)

Observe and report the following to EXPCELL-NC3A and EXPCCEN:

- Bandwidth utilization
- Roundtrip delay
- Throughput
- Jitter

Date 28 Oct 2010 till 28 Oct 2010

Training Audience: none

Observers: ObserverDEU, ObserverGBR, Olsson Lennart, Peter Langeslag, Robert Forsgen, Roger Jansen, Vladimir Manda

Observer Teams: none

Response Cell EXPCELL-FRA, EXPCELL-ACT, EXPCELL-DEU, EXPCELL-GBR,

Observers: EXPCELL-NLD, EXPCELL-NC3A, EXPCELL-SWE

01.02 Establish CFBLNet and the Internet connections (Storyline)

All nations and NATO organizations connect to CFBLNet.

EO01 Secure, persistent, on-demand training capability (Primary Training Objective)

To validate MSG-068 recommendations for a secure, persistent, on-demand training capability that integrates national centres and NATO

EO05 Technical standards (Secondary Training Objective)

To validate the MSG-68 recommendations for technical standards

STOR02 (Storyline Observation Task)

Report the following about the CFBLNet performance throughout the experiment:

- Utilization
- Round trip delay
- Throughput
- Jitter

Date 28 Oct 2010 till 05 Nov 2010

Training Audience: EXPCELL-NC3A

Observers: Edgar Harsen, Vladimir Manda

Observer Teams: none

Response Cell EXPCELL-NC3A

Observers:

01.03 Manage and monitor CFBLNet infrastructure (Storyline)

NC3A manages and monitors the CFBLNet infrastructure.

EO01 Secure, persistent, on-demand training capability (Primary Training Objective)

To validate MSG-068 recommendations for a secure, persistent, on-demand training capability that integrates national centres and NATO

 Observation 59

JTLS Observe that initial joining the federation is perceived as being slower / more sluggish compared to federation join the day before. Perception is not backed by data. After join everything 'feels' normal.

CFBLNet is backbone is NGCS. Yesterdays configuration: No CFBLNet, Internet, VPN with booster.

NLVC also reported problems when joining. After joining all felt normal.

Date: 03 Nov 2010
08:03:00
Observer: ANALYSTTECH4
TECHNICAL
Observer Role: ANALYSIS AND
OBSERVATION

 Observation 66

CFBLNet connection to TNO has been lost.

Loss of connection was related to asymmetry in network performance.

Network router has been rebooted and the connection was restored, to be lost again at 09:08Z.

Up again at 09:12Z

Lost at 09:15Z

09:16Z all connections lost

09:18Z all connections back up

CFBLNet technical staff are investigating the problem

Date: 03 Nov 2010
08:23:00
Observer: ANALYSTTECH4
TECHNICAL
Observer Role: ANALYSIS AND
OBSERVATION

 Observation 103

Procedures around CFBLNet connectivity are perceived as being too burocratic and irresponsible. There are too many documents and complicated forms involved; it takes a long time to receive reply to questions.

National POC keep changing, it is very hard to know who is the POC at any given time.

Date: 04 Nov 2010
08:53:00
Observer: ANALYSTTECH4
TECHNICAL
Observer Role: ANALYSIS AND
OBSERVATION

 Observation 104

NGCS as service provider is perceived as showing slow response time.

Requests for support have taken more than one week to give an initial reply.

Feedback with actual measurements is not given.

Date: 04 Nov 2010
08:56:00
Observer: ANALYSTTECH4
Observer Role: TECHNICAL
ANALYSIS AND
OBSERVATION

 Observation 105

During a CFBLNet switch from NGCS to VPN tunnel backbone, where physical connections between sites were lost, the booster functionality managed to keep the federation up and running; federation execution has been successfully resumed after the physical connections had been reestablished.

This was observed both with controlled and uncontrolled network interruptions.

Date: 04 Nov 2010
08:59:00
Observer: ANALYSTTECH4
Observer Role: TECHNICAL
ANALYSIS AND
OBSERVATION

 Observation 106

CFBLNet has been used in two different configurations with regards to the underlying infrastructure: Internet and NGCS.

Latency and bandwidth data have been recorded and need to be supplied and analyzed.

As an average:

Internet latency

35 ms roundtrip time from JFTC to TNO

65 ms roundtrip time from JFTC to DSTL

110 ms roundtrip time from JFTC to Paris

Numbers have been recorded using the pingplotter software.

Internet bandwidth

2Mb/s between JFTC and DSTL

4Mb/s between JFTC and TNO

unknown for Paris (< 1Mb/s)

Numbers have been recorded using the iperf software.

NGCS latency

200 ms roundtrip time from JFTC to TNO

220 ms roundtrip time from JFTC to DSTL

300 ms roundtrip time from JFTC to Paris

Numbers have been recorded using the pingplotter software.

NGCS bandwidth

1.2Mb/s between JFTC and DSTL

2Mb/s between JFTC and TNO

unknown for Paris (< 1Mb/s)

Numbers have been recorded using the iperf software.

Date: 04 Nov 2010
09:02:00
Observer: ANALYSTTECH4
Observer Role: TECHNICAL
ANALYSIS AND
OBSERVATION

 Observation 107

There has been no perceived overhead in terms of performance due to the extra cryptographic equipment in CFBLNet over Internet compared to the configuration using Internet only.

Detailed data have been recorded and can be analyzed afterwards.

Date: 04 Nov 2010
09:10:00
Observer: ANALYSTTECH4
Observer Role: TECHNICAL
ANALYSIS AND
OBSERVATION

 **STOR03** (Storyline Observation Task)

Observe the technical quality of the environment.
Prepare and hand over a questionnaire to the audience.
Analyze and report the results of the questionnaire.

Date: 04 Nov 2010 till 04 Nov 2010
Training Audience: C-IED Audience
Observers: CIEDOBSERVER
Observer Teams: none
Response Cell Observers: EXPCELL-ACT

 **02.02 C-IED** (Storyline)

Two subject matter experts (SME) will be tasked by HQ-SACT and one staff officer will be tasked by JFTC for this incident. These SMEs and the staff officer will act as the trainers for a distributed C-IED training using VBS2-NATO as the training tool. Apart from that 10 trainees will be assigned by HQ-SACT. Trainers will be in EXPCELL-ACT in Bydgoszcz, and the trainees will stay in Norfolk. All the data communications will be via the Internet.

EO06 Distributed training (Primary Training Objective)

To validate the MSG-68 recommendations for distributed training involving national and NATO C2 and simulation systems

 **STOR04** (Storyline Observation Task)

Observe the following:

- The time required to start the federation
- Execution time (sim time real time ratio that can be achieved)
- Crashes and reasons for crashes

Prepare a questionnaire about the usefulness of the NLVC concept and federation, and ask NLVC experiment audience to complete it.

Date: 04 Nov 2010 till 04 Nov 2010
Training Audience: NLVC Audience
Observers: Clive Wood, Jaap Middelburg, NLVCSPV1, NLVCSPV2
Observer Teams: none
Response Cell: EXPCELL-NLD
Observers:

02.03 NLVC-1 (Storyline)

Forward observers located in JFTC (EXPCELL-ACT) and using FACSIM FAC station controls air mission (air to ground attack) that fly in FACSIM (F16). FLAMES (F18) in JFTC (EXPCELL-ACT controlled) fly combat air patrol. 3 VBS2-VTK UAVs observe village (1 X GBR @ DSTL, 1 X NLD @ TNO, 1 X JWC UAV but controlled from JFTC). Targets are armed vehicles in the village and any escaping vehicles. The objective is to demonstrate that NLVC concept and federation work efficiently, make observations on the technical performance/procedures for NLVC, and determine utility for the NLVC capability to support Distributed Training and Exercises.

EO06 Distributed training (Primary Training Objective)

To validate the MSG-68 recommendations for distributed training involving national and NATO C2 and simulation systems

EO05 Technical standards (Secondary Training Objective)

To validate the MSG-68 recommendations for technical standards

EO04 Multi-granularity (Secondary Training Objective)

To validate the MSG-68 recommendations for multi-granularity



Observation 2

Federation started in 2 min 35 sec.

Date: 29 Oct 2010 11:52:00
Observer: CAYIRCIE
Observer Role: CHIEF EXPCEN



Observation 124

VBS2 NATO crashed when vehicle got destroyed.

Date: 04 Nov 2010 13:42:00
Observer: ANALYSTTECH3
Observer Role: TECHNICAL OBSERVATION AND ANALYSIS



Observation 125

VBS2 crash during NLVC game. Aircraft fired on vehicle.

lines from VBS2 LVC Error log

```
[LVCGame] 11/04/10 12:39:08 ERROR  
(HLA1516E::RPR_COMMON::AntennaPatternStruct::unmarshal) **BufferUnderrun**  
AntennaPatternStruct expects 4 bytes, found 0  
[LVCGame] 11/04/10 12:39:08 ERROR  
(HLA1516E::RPR_COMMON::AntennaPatternStruct::unmarshal) **BufferUnderrun**
```

AntennaPatternStruct expects 4 bytes, found 0
[LVCGame] 11/04/10 12:40:36 WARNING (LVCGame_API::entityCreated) VBS->LVC No mappings found for entity type '#destructioneffects'
[LVCGame] 11/04/10 12:40:36 WARNING (LVCGame_API::entityCreated) VBS->LVC No mappings found for entity type '#objectdestroyed'
[LVCGame] 11/04/10 12:51:31 WARNING (LVCGame_API::entityCreated) VBS->LVC No mappings found for entity type '#destructioneffects'
[LVCGame] 11/04/10 12:51:31 WARNING (LVCGame_API::entityCreated) VBS->LVC No mappings found for entity type '#objectdestroyed'
[LVCGame] 11/04/10 12:52:03 INFO (HLA1516E::HLAManager::resign) Resigning from federation...
[LVCGame] 11/04/10 12:52:03 INFO (HLA1516E::HLAManager::resign) Resigned from federation!

Date: 04 Nov 2010 14:53:00
Observer: BROWNA
Observer Role: JEMM ADMIN

 Observation 126

NLVC federation observation.

Vehicles disappearing in VBS2.

HLA config change:

hla1516e.deleteTimeout = 6000

changed to

hla1516e.deleteTimeout = 0

This is the time in milliseconds to wait for updates from a remote entity before it automatically gets deleted. zero turns this off.

Date: 04 Nov 2010 14:57:00
Observer: BROWNA
Observer Role: JEMM ADMIN

 **STOR05** (Storyline Observation Task)

Report about both the following technical and operational issues:

Technical:

- The time required to start the experiment
- The execution speed (the simulation time to real time ratio that can be achieved)
- The overhead of federating instead of running the same scenario at a single simulation

Operational

- The realism
- The training value

Date: 04 Nov 2010 till 04 Nov 2010
Training Audience: Logistics Audience
Observers: ObserverDEU
Observer Teams: none

Response Cell Observers: EXPCELL-ESP, EXPCELL-ACT, EXPCELL-DEU

 **02.01 Logistics (MEDEVAC) (Storyline)**

Two troops modeled in VR-Forces by EXPCELL-ESP are wounded. A medical evacuation plan is developed by the operational people in EXPCELL-ACT send their plan to MEDEVAC response cell in EXPCELL-DEU. Then EXPCELL-DEU implements this plan in KORA to evacuate the wounded troops modelled in VR-Forces. All incident is also observed in the other models (i.e., JCATS, JTLS, TYR, VBS2).

EO06 Distributed training (Primary Training Objective)

To validate the MSG-68 recommendations for distributed training involving national and NATO C2 and simulation systems

EO03 Distributed simulation integrating NATO and national M&S capabilities (Secondary Training Objective)

To validate MSG-068 recommendations for distributed simulation integrating NATO and national M&S capabilities

 **STOR06 (Storyline Observation Task)**

Observe and report the following:

- Orque can provide and WAGRAM can consume Convoy service
- Orque can provide and VR-Forces consume Convoy service
- JTLS NETN surface vessels are reflected in Orque
- VR-Forces aggregate units are reflected in WAGRAM and JTLS
- WAGRAM units are reflected in VR-Forces
- JTLS units are reflected in VR-Forces
- Orque units are reflected in JTLS

Date: 02 Nov 2010 till 02 Nov 2010

Training Audience: none

Observers: Ellen Roland, Enrique Banales, Jose Ruiz

Observer Teams: none

Response Cell: EXPCELL-ESP, EXPCELL-FRA, EXPCELL-ACT

Observers:

 **03.01 Assault Campaign 1 (Internet with booster) (Storyline)**

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists. Intel is that there is a terrorist camp, terrorist activity has happened. The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.01.101 Sea lift (Injection)**

Planned Date:	02NOV2010 0858Z	State	Injected
Actual Date	02NOV2010 0856Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Sea lift of forces

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start sea lift.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 5

JTLS observe that the federation is locked up and we don't know if the issue is being addressed.

Date: 02 Nov 2010 08:04:00
Observer: ANALYSTTECH3
Observer Role: TECHNICAL OBSERVATION AND ANALYSIS

 Observation 6

JTLS observe that there are JTLS units and ships published but there is no action for them. Consulted with EXPCEN/Erdal and the guidance is that in Campaign 1 there is no activity, but there can be some in the other campaigns.

Date: 02 Nov 2010 08:05:00
Observer: ANALYSTTECH3
Observer Role: TECHNICAL OBSERVATION AND ANALYSIS

 Observation 8

JTLS HLA component (HIP) came down while decoding an entity for an ASCII dump

Date: 02 Nov 2010 09:00:00
Observer: ANALYSTTECH3
Observer Role: TECHNICAL OBSERVATION AND ANALYSIS

 Observation 21

The first attempt was not successful. Not all the federates managed to join. After changing the order (JTLS, Alligator, VR-Forces) the federation got going.

Date: 02 Nov 2010 10:31:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 116

Remark 1 : ORQUE received a Convoy request from WAGRAM
Provider is "MISTRAL" and Consumer is "244EEI"

Remark 2 : Some incompatibilities between ALLIGATOR and VRFORCE are noticed. Request can't be achieved.
Some local test were needed to continue the incident "Sealift".

Remark 3 : Aircraft and surface vessel from JTLS were reflected in ORQUE and WAGRAM

Remark 4 : Aggregate units from VRFORCE were not reflected in ORQUE and ORQUE

Date: 04 Nov 2010 10:49:00
Observer: OBSERVERFRA
Observer Role: OBSERVER AND ANALYST IN
EXPCELL-FRA

 **STOR07** (Storyline Observation Task)

Repeat STOR6. Is there any difference comparing to your observations during STOR6. Observe the differences also in performance (i.e., delay, and simulation speed that can be achieved).

Date 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Ellen Roland, Enrique Banales, Jose Ruiz
Observer Teams: none
Response Cell
Observers: EXPCELL-ESP, EXPCELL-FRA, EXPCELL-ACT

 **03.03 Assault Campaign 1 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.03.101 Sea lift** (Injection)

Planned Date:	03NOV2010 0745Z	State	Injected
Actual Date	03NOV2010 0745Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Sea lift of forces

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start sea lift.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 58

PLEXCOMM was not set with correct parameters, operators were transmitting on the wrong frequencies. Likely due to missing training

Date: 03 Nov 2010 08:00:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 70

JTLS successfully published 3 ships.
JTLS reflected VR-Forces and ORQUE units.
JTLS air missions successfully published and reflected in GE Adapter.

Date: 03 Nov 2010 09:53:00
Observer: ANALYSTTECH3
Observer Role: TECHNICAL OBSERVATION AND ANALYSIS

 Observation 71

Air mission have to have pre-defined names to be recognized in the federation. There is no flexibility.

Date: 03 Nov 2010 09:57:00
Observer: ANALYSTTECH3
Observer Role: TECHNICAL OBSERVATION AND ANALYSIS

 Observation 76

Position of VR-Forces entities (namely Sea lift convoy) seemed to be in a different location than the one planned for the injection.

Date: 03 Nov 2010 12:26:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 118

Remark 1 : ORQUE received a Convoy request and acheive Transport with WAGRAM
Provider is "MISTRAL" and Consumer is "244EEI"

Remark 2 : ORQUE received a Convoy request and negotiate the offer with VRFORCE
Provider is "TONNERRE" and Consumer is "BIMZ31/I/3Coy"
Moving of "BIMZ31/I/3Coy" to the point of On Board is to long to acheive Transport.

Remark 3 : Aircraft and surface vessel from JTLS were reflected in ORQUE and WAGRAM

Remark 4 : Aggregate units from VRFORCE were reflected in ORQUE.

Date: 04 Nov 2010 10:53:00
Observer: OBSERVERFRA
Observer Role: OBSERVER AND ANALYST IN EXPCELL-FRA

 **STOR08** (Storyline Observation Task)

Oserve the following:

- JCATS entities are reflected in VBS2-UK
- VBS2-UK entities are reflected in JCATS

Date: 02 Nov 2010 till 02 Nov 2010
Training Audience: none
Observers: Andy Brown, ObserverGBR
Observer Teams: none
Response Cell: EXPCELL-ACT, EXPCELL-GBR

Observers:

 **03.01 Assault Campaign 1 (Internet with booster) (Storyline)**

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.01.102 UAV Recce (Injection)**

Planned Date:	02NOV2010 0911Z	State	Injected
Actual Date	02NOV2010 0909Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

UAV is tasked to monitor the area

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start the UAV mission.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 10

2 different UAVs managed by 2 different VBS2 (TNO & UK) flying together and seeing each other in a single federation

Date:	02 Nov 2010 09:26:00
Observer:	CHIEFANALYST
Observer Role:	CHIEF ANALYST AND OBSERVER

 Observation 23

JCATS managed to properly reflect the UAVs updated by VBS2.
One of the objects in JCATS (a plain terrorist) could not be presented and shown properly because of a mapping problem in JCATS

Date:	02 Nov 2010 10:34:00
Observer:	ANALYSTTECH2
Observer Role:	TECHNICAL ANALYSIS

 Observation 64

VBS2 UAV operator was able to see the entities produced by JCATS and to identify 9 vehicles, (represented as pick-up trucks, Jeeps and small vans).
Some were tracked moving around the camp. Some remained stationary.
The moving vehicles stayed on or near the roads in the VBS2 terrain.
Frame rates were good

Date:	02 Nov 2010 09:30:00
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Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 **STOR09** (Storyline Observation Task)

Repeat STOR8. Is there any difference comparing to your observations during STOR8. Observe the differences also in performance (i.e., delay, and simulation speed that can be achieved).

Date: 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Andy Brown, ObserverGBR
Observer Teams: none
Response Cell Observers: EXPCELL-ACT, EXPCELL-GBR

 **03.03 Assault Campaign 1 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.03.102 UAV Recce** (Injection)

Planned Date:	03NOV2010 0800Z	State	Injected
Actual Date	03NOV2010 0804Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

UAV is tasked to monitor the area

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start the UAV mission.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 62

JCATS Entities experimented unplanned firing against flying objects during the injection (VBS2 UK controlled UAV)

Date: 03 Nov 2010 08:22:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 63

VBS2 UK were able to see JCATS entities - Cultural features, platforms and lifeforms.
Frame rate was good. Platforms and lifeforms seen to move at reasonable speeds.

JCATS fire and detonations NOT seen in VBS2. Possible enumeration mapping issue - we will investigate

Date: 03 Nov 2010 09:02:00
Observer: OBSERVERGBR
Observer Role: OBSERVER AND ANALYST IN EXPCELL-GBR

 Observation 69

VBS2-UK entities are reflected in JCATS as planned

Date: 03 Nov 2010 09:45:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 74

JCATS tried to shoot down a UAV, but did not manage (munition mapping problem)

Date: 03 Nov 2010 10:47:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 **STOR10** (Storyline Observation Task)

Observe the following:

- Orque munition objects are reflected in JCATS
- Orque munition detonations are reflected in JCATS, VBS2-UK and VBS2-NLD
- JCATS updates of damage state of cultural features, platforms and life forms are reflected in VBS2
- VBS2-UK and VBS2-NLD entities are reflected in JCATS and Orque
- JCATS entities are reflected in VBS2-NLD and VBS2-UK

Date: 02 Nov 2010 till 02 Nov 2010
Training Audience: none
Observers: Andy Brown, Jose Ruiz, ObserverGBR, Roger Jansen
Observer Teams: none
Response Cell Observers: EXPCELL-FRA, EXPCELL-ACT, EXPCELL-GBR, EXPCELL-NLD

 **03.01 Assault Campaign 1 (Internet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.01.103 Cruise missile** (Injection)

Planned Date:	02NOV2010 0924Z	State	Injected
Actual Date	02NOV2010 0923Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating	EXPCEN

Location

Cell
Receiver

Description

Cruise strike ordered and executed

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start cruise missile strike

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 11

Orque to speed up the simulation by 5 times

Date: 02 Nov 2010 09:33:00

Observer: CHIEFANALYST

Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 61

no detonations and no damage to entities shown in the interface- either from VBS2 or JCATS

Date: 02 Nov 2010 09:43:00

Observer: CHIEFANALYST

Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 13

VBS2-NLD saw a ground vehicle speeding around the area.

In the beginning of the vignette there all of a sudden was a burning vehicle in the urban area.

VBS2-NLD UAV/camera seemed to lag a lot, jumping all over the area. When Alligator left the federation it was very smooth again.

Date: 02 Nov 2010 09:43:00

Observer: ANALYSTTECH

Observer Role: OBSERVATION AND AALYSIS CHIEF FOR TECH ISSUES

 Observation 60

VBS2 UK UAV operator was able to see the entities produced by JCATS.

Also able to identify 9 vehicles, (represented as pick-up trucks, Jeeps and small vans).

Some were tracked moving around the camp. Some remained stationary.

The moving vehicles stayed on or near the roads in the VBS2 terrain.

2 buildings from JCATS also received.

There were 4 dismounted terrorists spotted also - these were moving at an appropriate speed.

No issues with simulation speed.

Date: 02 Nov 2010 09:05:00

Observer: CHIEFANALYST

Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 17

JCATS did not reflect the missile object and was not able to adjudicate damage against the building; both issues are due to lack of data mapping in JCATS. This has been corrected for subsequent testing.

Date: 02 Nov 2010 10:07:00
Observer: OBSERVERUSA
Observer Role: OT

 Observation 22

When ORQUE joined VBS2 UK lost simulation speed and dropped to a very slow frame rate. JCATS entities - platforms and lifeforms and cultural features all appeared in VBS2

No visible detonations, no damaged entities observed or recorded in our entity state viewer from the detonation event.

There was 1 damaged entity identified, a UAV HERTI.13 which was from the TNO VBS2 Cell, - but we think it ran out of fuel.

This appeared as a K-Killed unit and was grounded.

Date: 02 Nov 2010 10:36:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 25

Munition objects are not reflected in JCATS
Munition detonations are not reflected in JCATS
A UAV (VBS2-NLD) is reflected, but not moving
Missiles and detonations are not mapped in JCATS

Date: 02 Nov 2010 10:37:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 115

Remark 1 : mobile Platform from JCATS and VBS2 are reflect in ORQUE.

Remark 2 : Missile use for ORQUE fire is : 2.9.71.1.8.0.0

Date: 04 Nov 2010 10:48:00
Observer: OBSERVERFRA
Observer Role: OBSERVER AND ANALYST IN EXPCELL-FRA

 **STOR11** (Storyline Observation Task)

Repeat STOR10. Is there any difference comparing to your observations during STOR10. Observe the differences also in performance (i.e., delay, and simulation speed that can be achieved).

Date: 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Andy Brown, Jose Ruiz, ObserverGBR, Roger Jansen

Observer Teams: none
Response Cell
Observers: EXPCELL-FRA, EXPCELL-ACT, EXPCELL-GBR, EXPCELL-NLD

 **03.03 Assault Campaign 1 (CFBLNet with booster) (Storyline)**

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
 Intel is that there is a terrorist camp, terrorist activity has happened.
 The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.03.103 Cruise missile (Injection)**

Planned Date:	03NOV2010 0819Z	State	Injected
Actual Date	03NOV2010 0903Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Cruise strike ordered and executed

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start cruise missile strike

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 3

test

Date: 01 Nov 2010 12:59:00

Observer: browna

Observer Role: JEMM admin

 Observation 4

fghfghfghf

Date: 01 Nov 2010 13:00:00

Observer: browna

Observer Role: JEMM admin

 Observation 12

Date: 02 Nov 2010 09:43:00

Observer: CHIEFANALYST

Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 15

Date: 02 Nov 2010 09:59:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 65

CFBLNet went down for line issues. When stood up again, the federation was still up and running

Date: 03 Nov 2010 09:32:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 67

VBS2-NLD reflected ground units, a winged UAV and a helicopter.
Munitions, munition detonations and damage status changes were not visible in VBS2-NLD.

Date: 03 Nov 2010 09:39:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION AND AALYSIS CHIEF FOR TECH ISSUES

 Observation 68

Munition objects are not reflected in JCATS
Munition detonations are not reflected in JCATS
UAVs (VBS2-NLD, VBS2-UK and VBS2-JWC) are reflected in JCATS
Missiles and detonations are not mapped in JCATS

Date: 03 Nov 2010 09:43:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 72

VBS2 was able to see JCATS entities: cultural features, platforms and lifeforms.
Cruise missile was logged and detonations received but NOT visualised.
No damaged entities recorded. No change in damage states of JCATS entities.
Frame rate was reduced from earlier vignette (UAV recee)

Date: 03 Nov 2010 10:17:00
Observer: OBSERVERGBR
Observer Role: OBSERVER AND ANALYST IN EXPCELL-GBR

 Observation 120

Remark 1 : mobile Plateform from JCATS and VBS2 are reflect in ORQUE.

Remark 2 : Missile use for ORQUE fire is : 2.9.71.1.8.0.0

Date: 04 Nov 2010 10:53:00
Observer: OBSERVERFRA
Observer Role: OBSERVER AND ANALYST IN EXPCELL-FRA

 **STOR12** (Storyline Observation Task)

Observe the following:

- WAGRAM indirect fire munition detonations are reflected in JCATS, VR-Forces, VBS2-UK, VBS2-NLD and FLAMES
- VR-Forces platforms are reflected in VBS2-UK, VBS2-NLD and FLAMES
- JCATS entities/units are reflected in WAGRAM, VR-Forces, VBS2-NLD, VBS2-UK and FLAMES
- VR-Forces direct fire and munition detonation is reflected in WAGRAM, JCATS, VBS2 and FLAMES
- JCATS updates of damage state of cultural features, platforms and live forms are reflected in VBS2, VR-Forces and FLAMES
- VR-Forces aggregate units are reflected in JCATS, WAGRAM and FLAMES
- VBS2-UK fire and detonations are reflected in VR-Forces and FLAMES
- VR-Forces updates of damage state is reflected in VBS2-UK and FLAMES
- FLAMES entities/units are reflected in WAGRAM, VR-Forces, VBS2-NLD, VBS2-UK and JCATS
- FLAMES fires/detonations are reflected in WAGRAM, VR-Forces, VBS2-NLD, VBS2-UK and JCATS
- FLAMES updates of damage state of cultural features, platforms and life forms are reflected in VR-Forces, VBS2-NLD, VBS2-UK and JCATS

Date 02 Nov 2010 till 02 Nov 2010

Training Audience: none

Observers: Andy Brown, Enrique Banales, Jose Ruiz, ObserverGBR, Roger Jansen, Clive Wood

Observer Teams: none

Response Cell EXPCELL-ESP, EXPCELL-FRA, EXPCELL-ACT, EXPCELL-GBR,

Observers: EXPCELL-NLD

 **03.01 Assault Campaign 1 (Internet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.

Intel is that there is a terrorist camp, terrorist activity has happened.

The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.01.104 Ground Strike with CAS/CCA** (Injection)

Planned Date:	02NOV2010 0938Z	State	Injected
Actual Date	02NOV2010 0936Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Ground strike with CAS/CCA

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start the ground strike with CAS/CCA

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 54

VBS2 UK & NLD controlled UAVs crashed while flying in the same federation

Date: 02 Nov 2010 10:00:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 18

JCATS again has difficulty joining the federation.

Date: 02 Nov 2010 10:11:00
Observer: OBSERVERUSA
Observer Role: OT

 Observation 55

After its detonation, munition object generated by FLAMES didn't move away from federation

Date: 02 Nov 2010 10:15:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 20

VBS2-NLD received entities and airstrike detonations but no indirect fire.

Date: 02 Nov 2010 10:24:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION AND AALYSIS CHIEF FOR
TECH ISSUES

 Observation 24

VBS2 UK initially was joined to the federation. Frame rate slowed and then the simulation froze. Unable to rejoin the federation after restarting and did not participate in the injection.

Date: 02 Nov 2010 10:38:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 26

JCATS had problems connecting to the federation. It was resigned from the federation and had to restart.

Bombs are not removed after detonation are still shown by JCATS.

VR-Forces direct fire and detonations are reflected by JCATS.

VR-Forces aggregate units are not reflected in JCATS.

FLAMES entities are reflected in JCATS.

FLAMES detonations are reflected in JCATS.

Date: 02 Nov 2010 10:57:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 28

See comments in STOR21 - We did not federate with WAGRAM

FLAMES did not see VBS2-UK detonations but did see the effect of the air to air collision

Date: 02 Nov 2010 11:08:00
Observer: SCENARIONLVC
Observer Role: SCENARIO

 Observation 29

JCATS entities reflected in FLAMES
VBS2-UK entities reflected in FLAMES
VBS2-NL entities reflected in FLAMES
FLAMES detonations were reflected in JCATS
FLAMES detonations were reflected in VBS-2NL
VBS2-UK crashed just before the air strike
UAV piloted by VBS2-UK crashed into the UAV piloted by VBS2-NL
VJCATS entities reflected in NLVC Stealth View and NLVC Plan View Display
VBS2-UK entities reflected in NLVC Stealth View and NLVC Plan View Display
VBS2-NL entities reflected in NLVC Stealth View and NLVC Plan View Display
FLAMES detonations were reflected in NLVC Stealth View and NLVC Plan View Display
FLAMES detonations were reflected in NLVC Stealth View and NLVC Plan View Display
VR-FORCES entities were reflected in NLVC Stealth View and NLVC Plan View Display.
However one of the VR-FORCES entities was positioned on top of a tree.
VR-FORCES detonations (direct fire) were reflected in NLVC Stealth View and NLVC Plan View Display

During the execution there seemed to be a problem when FACSIM (using DIS) joined the federation through a Gateway - FLAMES received unexpected UDP traffic and eventually crashed.

Since the test FACSIM has joined the federation through the gateway as expected with no additional UDP traffic.

NOTE: for the FAC Vignette on Thursday the PlexComm radios need to be on the same Federation as the FACSIM, VBS-2 NL, FLAMES etc as there is a requirement to communicate to the ASTi Radios (DIS) at TNO and JFTC.

Date: 02 Nov 2010 11:11:00
Observer: SCENARIONLVC
Observer Role: SCENARIO

 Observation 30

JCATS was unable to process some of the VRForces MunitionDetonation Interactions due to use of non-ORBAT munition type, e.g. FiringObjectIdentifier: VRF24:129, munitiontype=2.2.225.2.1.1.0

Date: 02 Nov 2010 11:31:00
Observer: OBSERVERUSA
Observer Role: OT

 Observation 31

Flames updates of damages are reflected in JCATS

Date: 02 Nov 2010 12:07:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 114

Remark 1 : Aggregate units and Aircraft from all simulation were reflected in WAGRAM.

Remark 2 : Munition use for WAGRAM fire is : 2.9.205.2.11.0.0

Date: 04 Nov 2010 10:48:00
Observer: OBSERVERFRA
Observer Role: OBSERVER AND ANALYST IN EXPCELL-FRA

 **STOR13** (Storyline Observation Task)

Repeat STOR12. Is there any difference comparing to your observations during STOR12. Observe the differences also in performance (i.e., delay, and simulation speed that can be achieved).

Date 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Andy Brown, Enrique Banales, Jose Ruiz, ObserverGBR, Roger Jansen
Observer Teams: none
Response Cell EXPCELL-ESP, EXPCELL-FRA, EXPCELL-ACT, EXPCELL-GBR,
Observers: EXPCELL-NLD

 **03.03 Assault Campaign 1 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.03.104 Ground Strike with CAS/CCA** (Injection)

Planned Date:	03NOV2010 0918Z	State	Injected
Actual Date	03NOV2010 0952Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Ground strike with CAS/CCA

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start the ground strike with CAS/CCA

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 16

Date: 02 Nov 2010 10:00:00
Observer: CHIEFANALYST

Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 19

Date: 02 Nov 2010 10:15:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 33

Date: 02 Nov 2010 13:25:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 42

Date: 02 Nov 2010 14:06:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 73

VBS2-NLD received one kind of detonations and damage status updates on entities. Operator of VBS2-NLD could not tell for certain if it was WAGRAMs indirect fire or VR-forces direct fire that caused the detonations, but the operator thinks it is one detonation missing.

Date: 03 Nov 2010 10:21:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION AND AALYSIS CHIEF FOR TECH ISSUES

 Observation 75

WAGRAM indirect fire was not reflected in JCATS
VR-Forces direct fire and munition detonation were reflected in JCATS
FLAMES entities/fire and detonations/updates of damage were reflected in JCATS

Date: 03 Nov 2010 10:49:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 119

Remark 1 : Aggregate units and Aircraft from all simulation were reflected in WAGRAM.

Remark 2 : Munition use for WAGRAM fire is : 2.9.205.2.11.0.0

Date: 04 Nov 2010 10:53:00
Observer: OBSERVERFRA
Observer Role: OBSERVER AND ANALYST IN EXPCELL-FRA

 **STOR14** (Storyline Observation Task)

Observe the following:

- VBS2-UK platform and life form are reflected in JCATS
- JCATS platforms and munition detonations are reflected in VBS2-UK
- VBS2-UK damage states are reflected in JCATS

Date 02 Nov 2010 till 02 Nov 2010
Training Audience: none
Observers: Andy Brown, ObserverGBR
Observer Teams: none
Response Cell
Observers: EXPCELL-ACT, EXPCELL-GBR

 **03.01 Assault Campaign 1 (Internet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.01.105 Marine Blocking Position** (Injection)

Planned Date:	02NOV2010 0951Z	State	Cancelled
Actual Date		Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Marine blocking position

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

START MARINE BLOCKING POSITION

*** EXERCISE *** EXERCISE *** EXERCISE ***

 **STOR15** (Storyline Observation Task)

Repeat STOR15. Is there any difference comparing to your observations during STOR15. Observe the differences also in performance (i.e., delay, and simulation speed that can be achieved).

Date 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Andy Brown, ObserverGBR
Observer Teams: none
Response Cell
Observers: EXPCELL-ACT, EXPCELL-GBR

 **03.03 Assault Campaign 1 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
 Intel is that there is a terrorist camp, terrorist activity has happened.
 The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.03.105 Marine Blocking Position** (Injection)

Planned Date:	03NOV2010 1007Z	State	Cancelled
Actual Date		Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Marine blocking position

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

START MARINE BLOCKING POSITION

*** EXERCISE *** EXERCISE *** EXERCISE ***

 **STOR16** (Storyline Observation Task)

Observe the following:

- KORA can provide and VR-Forces consume convoy pattern
- VR-Forces entities are reflected in Kora
- VR-Forces aggregate units are reflected in KORA
- KORA entities are reflected in VR-Forces
- KORA aggregate units are reflected in VR-Forces

Date: 02 Nov 2010 till 02 Nov 2010
Training Audience: none
Observers: Enrique Banales, ObserverDEU
Observer Teams: none
Response Cell: EXPCELL-ESP, EXPCELL-DEU
Observers:

 **03.01 Assault Campaign 1 (Internet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
 Intel is that there is a terrorist camp, terrorist activity has happened.
 The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.01.106 MEDEVAC** (Injection)

Planned Date:	02NOV2010 0951Z	State	Cancelled
Actual Date		Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN

Location	Cell
	Receiver
Description	
MEDEVAC	
Functional Area Message	
*** EXERCISE *** EXERCISE *** EXERCISE ***	
Start MEDEVAC	
*** EXERCISE *** EXERCISE *** EXERCISE ***	

 **STOR17** (Storyline Observation Task)

Observe the following:

- PitchActors can provide and VR-Forces consume convoy pattern
- VR-Forces entities are reflected in PitchActors
- VR-Forces aggregate units are reflected in PitchActors
- PitchActor entities are reflected in VR-Forces
- PitchActor aggregate units are reflected in VR-Forces

Date 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Enrique Banales, Olsson Lennart
Observer Teams: none
Response Cell
Observers: EXPCELL-ESP, EXPCELL-NLD

 **03.03 Assault Campaign 1 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
 Intel is that there is a terrorist camp, terrorist activity has happened.
 The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.03.106 MEDEVAC** (Injection)

Planned Date:	03NOV2010 1007Z	State	Cancelled
Actual Date		Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description
 MEDEVAC
Functional Area Message
 *** EXERCISE *** EXERCISE *** EXERCISE ***
 Start MEDEVAC
 *** EXERCISE *** EXERCISE *** EXERCISE ***

 **STOR18** (Storyline Observation Task)

Observe the following:

- JCATS entities are reflected in VBS2-NLD
- VBS2-NLD entities are reflected in JCATS

Date 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Andy Brown, Roger Jansen
Observer Teams: none
Response Cell
Observers: EXPCELL-ACT, EXPCELL-NLD

 **03.02 Assault Campaign 2 (CFBLNet with booster) (Storyline)**

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists. Intel is that there is a terrorist camp, terrorist activity has happened. The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.02.101 UAV Recce (Injection)**

Planned Date:	03NOV2010 1300Z	State	Injected
Actual Date	03NOV2010 1239Z	Means	PLEXComm Radio
Injector	EXPEN	Coordinating Cell	EXPEN
Location		Receiver	

Description

UAV is tasked to monitor the area. JCATS entities are reflected in VBS2.

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start the UAV recce, and inform the other experiment cells.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 80

VBS2-NLD are receiving the JCATS entities.

Date: 03 Nov 2010 12:36:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION AND AALYSIS CHIEF FOR TECH ISSUES

 Observation 77

unplanned firing by JCATS entities was not reflected into VBS2 NLD. Neither detonations were observed

Date: 03 Nov 2010 12:45:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 81

JCATS is able to reflect entities from the other federates
JWC has dropped out. JWC restarts again
JCATS shoots at the UAVs but no reaction is seen (munition mapping problem)

Date: 03 Nov 2010 13:18:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 87

VBS2:- A UAV operator has the possibility to choose another UAV from a different federated VBS2 model using the control link mechanism in VBS2. Co-ordination is required to see if he has the ability to control the UAV.

Date: 03 Nov 2010 13:51:00
Observer: BROWNA
Observer Role: JEMM ADMIN

 **STOR19** (Storyline Observation Task)

Observe the following:
- JCATS entities are reflected in VBS2-NLD
- VBS2-NLD entities are reflected in JCATS

Date: 02 Nov 2010 till 02 Nov 2010
Training Audience: none
Observers: Andy Brown, Roger Jansen
Observer Teams: none
Response Cell: EXPCELL-ACT, EXPCELL-NLD
Observers:

 **03.04 Assault Campaign 2 (Internet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 Observation 36

VBS2-NLD received entities, but no detonation or detonations were in the wrong location.

Date: 02 Nov 2010
13:53:00
Observer: ANALYSTTECH
OBSERVATION
AND AALYSIS
Observer Role: CHIEF FOR TECH
ISSUES

 Observation 47

VBS2-NLD entities are reflected in JCATS as planned

Date:

02 Nov 2010
14:47:00

Observer:

ANALYSTTECH2

Observer Role:

TECHNICAL
ANALYSIS

 Observation 52

We need a federation agreement for understanding when an aircraft is flying. A convention I have seen in other federations is setting the PowerPlantOn attribute of BaseEntity.PhysicalEntity to True when an aircraft object is flying. When the aircraft lands, the PowerPlantOn attribute is changed to False. This doesn't have to be the agreement for this federation, e.g. we can agree on a minimum velocity which constitutes flight, etc., but we should agree on something.

Date:

02 Nov 2010
15:05:00

Observer:

OBSERVERUSA

Observer Role:

OT

 **STOR20** (Storyline Observation Task)

Observe the following:

- JCATS entities are reflected in JPECT, VBS2-NLD and VBS2-UK
- JPECT munition objects are reflected in JCATS
- JPECT detonations are reflected in VBS2-UK and VBS2-NLD
- JPECT munition detonations are reflected in JCATS
- JCATS updates of damage state of cultural features, platforms and life-forms are reflected in VBS2-UK, VBS2-NLD and JPECT

Is there any difference comparing to your observations during STOR21. Observe the differences also in performance (i.e., delay, and simulation speed that can be achieved).

Date 03 Nov 2010 till 03 Nov 2010

Training Audience: none

Observers: Andy Brown, Clive Wood, ObserverGBR, Roger Jansen

Observer Teams: none

Response Cell EXPCELL-ACT, EXPCELL-GBR, EXPCELL-NLD

Observers:

 **03.02 Assault Campaign 2 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists. Intel is that there is a terrorist camp, terrorist activity has happened. The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.02.102 Air Strike (Injection)**

Planned Date:	03NOV2010 1254Z	State	Injected
Actual Date	03NOV2010 1314Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Air strike ordered and executed

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start air strike.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 79

Flames entities performed air strike. VBS2 TNO saw multiple detonations, VBS2 UK saw no detonations but reported number of craters and damaged vehicles.

FLAMES saw no detonations on the ground.

JCATS entities fired at both FLAMES and VBS2 ENTITIES, no effects for them.

Date:	03 Nov 2010 13:10:00
Observer:	CHIEFANALYST
Observer Role:	CHIEF ANALYST AND OBSERVER

 Observation 82

JCATS entities seen in VBS2; cultural features, platforms and lifeforms.

FLAMES detonations were seen in VBS2 and recorded in the VBS2 log. A number of the munitions dropped by FLAMES were not deleted after the detonation event and were persisting in the federation as K-killed entities in the VBS2 log.

VBS2 saw damage states of K-KILL for JCATS platforms and lifeforms. These were visualised in VBS2 correctly.

Date:	03 Nov 2010 13:19:00
Observer:	OBSERVERGBR
Observer Role:	OBSERVER AND ANALYST IN EXPCCELL-GBR

 Observation 83

JCATS entities are reflected in Flames, VBS2-NLD and VBS2-UK, VBS2-JWC

Flames munition objects are reflected in JCATS

Flames munition detonations are reflected in JCATS

JCATS updates of damage state of cultural features, platforms and life-forms are reflected in VBS2-UK, VBS2-NLD Flamse and VBS2-JWC

JCATS shoots at the VBS2-UK UAV, and Flames federate crashes

JCATS is planning to shoot at planes updated by FLAMES. Planes are too fast and JCATS doesn't manage to react and shoot at the planes

Date:	03 Nov 2010 13:20:00
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Observer:

ANALYSTTECH2

Observer Role:

TECHNICAL ANALYSIS

 Observation 90

JCATS firing with MANPAD on FLAMES aircraft (late insertion in the scenario) was not observed in FLAMES, MaK stealth and NLVC Plan View Display.

Date:

03 Nov 2010 14:32:00

Observer:

SCENARIONLVC

Observer Role:

SCENARIO

 Observation 92

JCATS entities were observed in NLVC PVD
JCATS updates were observed in NLVC PVD
VBS2 entities were observed in NLVC PVD

Date:

03 Nov 2010 14:38:00

Observer:

SCENARIONLVC

Observer Role:

SCENARIO

 **STOR21** (*Storyline Observation Task*)

Observe the following:

- JCATS entities are reflected in JPECT, VBS2-NLD and VBS2-UK
- JPECT munition objects are reflected in JCATS
- JPECT detonations are reflected in VBS2-UK and VBS2-NLD
- JPECT munition detonations are reflected in JCATS
- JCATS updates of damage state of cultural features, platforms and life-forms are reflected in VBS2-UK, VBS2-NLD and JPECT

Date 02 Nov 2010 till 02 Nov 2010

Training Audience: none

Observers: Andy Brown, Clive Wood, ObserverGBR, Roger Jansen

Observer Teams: none

Response Cell EXPCELL-ACT, EXPCELL-GBR, EXPCELL-NLD

Observers:

 **03.04 Assault Campaign 2 (Internet with booster)** (*Storyline*)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.

Intel is that there is a terrorist camp, terrorist activity has happened.

The decision to attack has been taken.

EO05 Technical standards (*Primary Training Objective*)

To validate the MSG-68 recommendations for technical standards

 **03.04.102 Air Strike** (*Injection*)

Planned Date: 02NOV2010 1315Z

State Injected

Actual Date 02NOV2010 1317Z

Means PLEXComm Radio

Injector EXPCEN

Coordinating EXPCEN

Location

Cell
Receiver

Description

Air strike ordered and executed

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start air strike.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 27

TO BE DELETED**

Date: 02 Nov 2010 10:51:00
Observer: SCENARIONLVC
Observer Role: SCENARIO

 Observation 32

VBS2 UK UAV pc crash, will not rejoin after reboot

Date: 02 Nov 2010 13:22:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 56

VBS2 NLD didn't see FLAMES detonations

Date: 02 Nov 2010 13:25:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 43

FLAMES reflected JCATS entities
NLVC Stealth / NLVC Plan View Display refelectd JCATS entities
FLAMES/ NLVC Stealth/ NLVC Plan View Display - reflected VBS2-NLD entites
VBS2-UK crashed at start and did not rejoin
NLVC Stealth and NLVC Plan View Display reflected detonation
VBS2-NLD did not reflect the detonation (as reported by radio)

Date: 02 Nov 2010 13:45:00
Observer: SCENARIONLVC
Observer Role: SCENARIO

 Observation 48

Flames munition objects and detonations are reflected in JCATS
VBS2-Uk crashed

Date: 02 Nov 2010 14:48:00
Observer: ANALYSTTECH2

Observer Role: TECHNICAL ANALYSIS

 **STOR22** (Storyline Observation Task)

Observe the following:

- Orque can provide and JTLS can consume supply service
- Orque entities are reflected in JTLS
- JTLS entities are reflected in Orque
- JTLS aggregate units are reflected in TYR
- TYR aggregate units are reflected in JTLS

Is there any difference comparing to your observations during STOR24. Observe the differences also in performance (i.e., delay, and simulation speed that can be achieved).

Date 02 Nov 2010 till 02 Nov 2010

Training Audience: none

Observers: Andy Brown, BIROL GUVENC, Clive Wood, Jose Ruiz, Max Karlstrom

Observer Teams: none

Response Cell EXPCELL-FRA, EXPCELL-ACT, EXPCELL-SWE

Observers:

 **03.04 Assault Campaign 2 (Internet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.04.103 Air Refuel** (Injection)

Planned Date:	02NOV2010 1332Z	State	Injected
Actual Date	02NOV2010 1329Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Air refuel

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start air refuel.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 34

It took too much time for JTLS to join due to high number of update requests. Resigned and tried again. Whoever kept asking for updates is not doing it anymore.

Date:

02 Nov 2010
13:39:00

Observer: ANALYSTTECH3
Observer Role: TECHNICAL
OBSERVATION
AND ANALYSIS

 Observation 35

Orque entities are received by but not reflected in JTLS due to JHIP issue

Date: 02 Nov 2010
13:45:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST
AND OBSERVER

 Observation 38

JTLS failed to reflect the tanker in the model, although it was reflected in HIP. The cause may be related to previous observation when JTLS had to resign and rejoin the federation.

Date: 02 Nov 2010
13:54:00
Observer: ANALYSTTECH3
Observer Role: TECHNICAL
OBSERVATION
AND ANALYSIS

 Observation 37

VBS2-NLD participated and received aircraft entity from JTLS, marking 212.F352-02 DIS 1,2,225,1,12,0,0. Outside the terrain of VBS2-NLD.

Date: 02 Nov 2010
13:55:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION
AND AALYSIS
CHIEF FOR TECH
ISSUES

 Observation 44

FLAMES could not reflect the ORQUE and JTLS entities because it was not set up to subscribe. The effect of this was that the air tracks were not propogated to the Recognised Air Picture. NLVC Stealth and Plan View Display couldreflect the ORQUE , JTLS and TYR entities

Date: 02 Nov 2010
14:11:00
Observer: SCENARIONLVC
Observer Role: SCENARIO

 Observation 84

JTLS sent the fuel request, Alligator responded, JTLS accepted the response and vectored the aircraft toward the refueler aircraft. The refuel aircraft moved away from the JTLS aircraft forcing the latter to speed up to overtake the refueler; this is a poor (overall) representation of how the process works in the real world. A refueler a/c might continue its orbit, but would either slow to

allow the other a/c to catch up or it would temporarily decrease the size of the orbit so that it could intercept the a/c needing fuel before it ran out.

Date: 03 Nov 2010
13:41:00
Observer: OBSERVERUSA
Observer Role: OT

 Observation 99

There is no identifying attribute for an airmission to indicate its intent as a refueler. Although a receiving mission is aware of another mission carrying extra fuel, there is no method to determine whether the fuel on that mission is for a mid-air refuel or simply for forward resupply.

Date: 03 Nov 2010
15:36:00
Observer: JTLSOP1
Observer Role: JTLS OP

 Observation 100

When the aircraft requested air-refuel from the tanker, the "Offer service" interaction was not sent timely. What we hope for is a quick offer from each refueler that we requested from. In this way, we can apply proper logic for choosing the appropriate tanker for refueling.

Date: 03 Nov 2010
15:45:00
Observer: JTLSOP1
Observer Role: JTLS OP

 Observation 101

During the interactions for refueling, after the requesting aircraft sent "Ready to Receive Service" interaction, the tanker did not send "Service Started" interaction but instead it only sent "Service Completed" interaction. What we hoped for was to receive "Service Started" interaction in order to facilitate our refuel logic.

Date: 03 Nov 2010
15:50:00
Observer: JTLSOP1
Observer Role: JTLS OP

 Observation 102

It is possible for the HIP Federate to discover the Site_Id and Application_Id Values. And from this, the publishing federate is discovered. However, there is currently no method for the name of the publishing federate to be reflected on the object in the WHIP.

Date: 04 Nov 2010
07:50:00
Observer: JTLSOP1
Observer Role: JTLS OP

 Observation 113

CANCELLED. Some problem for JTLS to play the incident

Date: 04 Nov 2010

10:47:00

Observer:

OBSERVERFRA

Observer Role:

OBSERVER AND
ANALYST IN
EXPCCELL-FRA

 **STOR23** (Storyline Observation Task)

Observe the following:

- WAGRAM reflects TYR NETN_aggregate objects
- TYR reflects WAGRAM NETN-aggregate objects
- JCATS reflects WAGRAM NETN-aggregate objects
- JCATS reflects TYR NETN-aggregate objects
- JCATS reflects WAGRAM munition-detonation interactions

Date 03 Nov 2010 till 03 Nov 2010

Training Audience: none

Observers: Andy Brown, Clive Wood, Jose Ruiz, Max Karlstrom

Observer Teams: none

Response Cell Observers: EXPCCELL-FRA, EXPCCELL-ACT, EXPCCELL-NLD

 **03.02 Assault Campaign 2 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.02.104 Ground strike 2 (Aggregated)** (Injection)

Planned Date:	03NOV2010 1329Z	State	Injected
Actual Date	03NOV2010 1356Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Indirect fire (platform-level)

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start indirect fire

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 88

TYR reflected terror aggregate entities south of Linköping.

None of the terror entities in Kvarn had aggregate entities published, so TYR did not see entities in Kvarn.

Date: 03 Nov 2010 14:12:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION AND ANALYSIS CHIEF FOR TECH ISSUES

 Observation 93

JCATS reflects WAGRAM NETN-aggregate objects
JCATS reflects TYR NETN-aggregate objects
JCATS reflects WAGRAM munition-detonation interactions

Date: 03 Nov 2010 14:41:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 121

Remark 1 : Aggregate units from TYR were reflected in WAGRAM.

Remark 2 : Munition use for WAGRAM fire is : 2.9.205.2.11.0.0

Date: 04 Nov 2010 10:54:00
Observer: OBSERVERFRA
Observer Role: OBSERVER AND ANALYST IN EXPCELL-FRA

 **STOR25** (*Storyline Observation Task*)

Observe the following:

- WAGRAM reflects TYR NETN_aggregate objects
- TYR reflects WAGRAM NETN-aggregate objects
- JCATS reflects WAGRAM NETN-aggregate objects
- JCATS reflects TYR NETN-aggregate objects
- JCATS reflects WAGRAM munition-detonation interactions
- JTLS reflects TYR NETN_aggregate objects
- JTLS reflects WAGRAM NETN-aggregate objects
- JTLS reflects JCATS NETN-aggregate objects
- WAGRAM reflects JTLS NETN_aggregate objects
- TYR reflects JTLS NETN-aggregate objects
- JCATS reflects JTLS NETN-aggregate objects

Date 02 Nov 2010 till 02 Nov 2010

Training Audience: none

Observers: Andy Brown, Clive Wood, Jose Ruiz, Max Karlstrom, Amy Grom, Andy Bowers, Ellen Roland

Observer Teams: none

Response Cell Observers: EXPCELL-FRA, EXPCELL-ACT, EXPCELL-SWE

 **03.04 Assault Campaign 2 (Internet with booster)** (*Storyline*)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (*Primary Training Objective*)

To validate the MSG-68 recommendations for technical standards

 **03.04.104 Ground strike 2 (Aggregate)** (*Injection*)

Planned Date:	02NOV2010 1344Z	State	Injected
Actual Date	02NOV2010 1349Z	Means	E-MAIL
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Ground strike (aggregate)

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start ground strike

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 39

TYR did not participate, problems with, amongst other things, JTLS entities.

Date: 02 Nov 2010 13:56:00

Observer: ANALYSTTECH

Observer Role: OBSERVATION AND AALYSIS CHIEF FOR TECH ISSUES

 Observation 40

during terrorist camp attack, position correlation failure occurred between WAGRAM and JCATS

Date: 02 Nov 2010 13:59:00

Observer: CHIEFANALYST

Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 41

TYR joined well after the start of the injection and federation

Date: 02 Nov 2010 14:05:00

Observer: CHIEFANALYST

Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 57

JCATS didn't observe detonations due to data mapping issues

Date: 02 Nov 2010 14:06:00

Observer: CHIEFANALYST

Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 49

JCATS reflects WAGRAM, TYR and JTLS objects

JCATS does not reflect WAGRAM Munition Detonation interactions

Date: 02 Nov 2010 14:50:00

Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 112

Remark 1 : Aggregate units from TYR were reflected in WAGRAM.

Remark 2 : Munition use for WAGRAM fire is : 2.9.205.2.11.0.0

Date: 04 Nov 2010 10:46:00
Observer: OBSERVERFRA
Observer Role: OBSERVER AND ANALYST IN EXPCELL-FRA

 **STOR26** (Storyline Observation Task)

Observe the following:

- VBS2-NLD platform and lifeforms are reflected in JCATS
- JCATS platforms and munition detonations are reflected in VBS2-NLD
- VBS2-NLD damage states are reflected in JCATS

Date: 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Andy Brown, Clive Wood, Roger Jansen
Observer Teams: none
Response Cell
Observers: EXPCELL-ACT, EXPCELL-NLD

 **03.02 Assault Campaign 2 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.02.105 Marine Blocking** (Injection)

Planned Date:	03NOV2010 1411Z	State	Injected
Actual Date	03NOV2010 1412Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Marine blocking

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Implement marine blocking.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 89

VBS2-NLD saw only one other vehicle/lifeform in the injection.

Date: 03 Nov 2010 14:31:00

Observer: ANALYSTTECH

Observer Role: OBSERVATION AND ANALYSIS CHIEF FOR TECH ISSUES

 Observation 96

VBS2-UK platform and lifeforms are reflected in JCATS

VBS2-UK damage states are not reflected in JCATS

JCATS does not react to shootings by VBS2-UK

Date: 03 Nov 2010 14:45:00

Observer: ANALYSTTECH2

Observer Role: TECHNICAL ANALYSIS

 **STOR27** (Storyline Observation Task)

Observe the following:

- VBS2-NLD platform and lifeforms are reflected in JCATS
- JCATS platforms and munition detonations are reflected in VBS2-NLD
- VBS2-NLD damage states are reflected in JCATS

Date 02 Nov 2010 till 02 Nov 2010

Training Audience: none

Observers: Andy Brown, Clive Wood, Roger Jansen

Observer Teams: none

Response Cell EXPCELL-ACT, EXPCELL-NLD

Observers:

 **03.04 Assault Campaign 2 (Internet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.

Intel is that there is a terrorist camp, terrorist activity has happened.

The decision to attack has been taken.

E005 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.04.105 Marine Blocking** (Injection)

Planned Date:	02NOV2010 1404Z	State	Injected
Actual Date	02NOV2010 1410Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Marine blocking

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Implement marine blocking.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 45

Due to the rescheduling of this STOR, VBS2-NLD is not connected.

Date: 02 Nov 2010 14:24:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION AND AALYSIS CHIEF FOR TECH ISSUES

 Observation 46

VBS2 UK didn't observe detonations of JCATS objects due to VBS2 ammunition effects mapping

Date: 02 Nov 2010 14:25:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 50

JCATS reflects VBS2-UK (not VBS2-NLD) entities.
VBS2-UK damage states are reflected in JCATS. However VBS2-UK did not observe detonations of JCATS objects (probably because of problem with VBS2 ammunition effects mapping)

Date: 02 Nov 2010 14:52:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 **STOR28** (*Storyline Observation Task*)

Observe the following:

- KORA can provide and TYR consume convoy pattern
- TYR entities are reflected in KORA
- KORA entities are reflected in TYR

Date: 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Max Karlstrom, ObserverDEU
Observer Teams: none
Response Cell: EXPCELL-DEU, EXPCELL-SWE
Observers:

 **03.02 Assault Campaign 2 (CFBLNet with booster)** (*Storyline*)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (*Primary Training Objective*)

To validate the MSG-68 recommendations for technical standards

 **03.02.106 Hostage Situation (Injection)**

Planned Date:	03NOV2010 1427Z	State	Injected
Actual Date	03NOV2010 1429Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Hostage taken and situation resolved

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start hostage situation

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 94

KORA did not participate, Pitch Actors acts as a stand-in.

Transportation pattern was a success according to plan.
During the transport the TYR entities did not update their position.
Update on position was done when the service was completed

Date: 03 Nov 2010 14:32:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION AND AALYSIS CHIEF FOR TECH ISSUES

 Observation 91

as KORA currently unable to run on CFBLNet, it will be replaced by PitchActors for Evacuation Transport, with TYR to model the objects.

Date: 03 Nov 2010 14:37:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 **STOR29 (Storyline Observation Task)**

Observe the following:
- KORA can provide and TYR consume convoy pattern
- TYR entities are reflected in KORA
- KORA entities are reflected in TYR

Date 02 Nov 2010 till 02 Nov 2010
Training Audience: none
Observers: Max Karlstrom, ObserverDEU
Observer Teams: none
Response Cell
Observers: EXPCELL-DEU, EXPCELL-SWE

 **03.04 Assault Campaign 2 (Internet with booster) (Storyline)**

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards *(Primary Training Objective)*

To validate the MSG-68 recommendations for technical standards

 **03.04.106 Hostage Situation** *(Injection)*

Planned Date:	02NOV2010 1425Z	State	Injected
Actual Date	02NOV2010 1457Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Hostage taken and situation resolved

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start hostage situation

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 51

TYR could not fully reflect KORA entities. TYR can only reflect entities in the orbat, that might be the problem.

So convoy pattern could not be consumed.

KORA seemed to be able to reflect TYR entities, judged from the voice communication.

Date: 02 Nov 2010 15:06:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION AND AALYSIS CHIEF FOR TECH ISSUES

 Observation 53

experiment delayed to tomorrow as KORA doesn't see TYR data

Date: 02 Nov 2010 15:09:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 **STOR30** *(Storyline Observation Task)*

Observe the following:

- WAGRAM can provide and JCATS consume repair pattern
- JCATS entities are reflected in WAGRAM
- WAGRAM entities are reflected in JCATS

Date 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: Andy Brown, Jose Ruiz
Observer Teams: none
Response Cell EXPCELL-FRA, EXPCELL-ACT

Observers:

 **03.02 Assault Campaign 2 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
 Intel is that there is a terrorist camp, terrorist activity has happened.
 The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.02.107 Repair** (Injection)

Planned Date:	03NOV2010 1444Z	State	Cancelled
Actual Date		Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Repair logistics pattern

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start repair

*** EXERCISE *** EXERCISE *** EXERCISE ***

 **STOR31** (Storyline Observation Task)

Observe the following:

- WAGRAM can provide and JCATS consume repair pattern
- JCATS entities are reflected in WAGRAM
- WAGRAM entities are reflected in JCATS

Date 02 Nov 2010 till 02 Nov 2010

Training Audience: none

Observers: Andy Brown, Jose Ruiz

Observer Teams: none

Response Cell EXPCELL-FRA, EXPCELL-ACT

Observers:

 **03.04 Assault Campaign 2 (Internet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
 Intel is that there is a terrorist camp, terrorist activity has happened.
 The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.04.107 MEDEVAC** (Injection)

Planned Date:	02NOV2010 1512Z	State	Injected
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Actual Date	02NOV2010 1508Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

execute medevac injection

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start repair

*** EXERCISE *** EXERCISE *** EXERCISE ***

 **STOR32** (Storyline Observation Task)

Observe the following:

- WAGRAM can provide and JCATS can consume supply pattern
- JCATS entities are reflected in WAGRAM

Date 03 Nov 2010 till 03 Nov 2010

Training Audience: none

Observers: Andy Brown, Jose Ruiz

Observer Teams: none

Response Cell Observers: EXPCELL-FRA, EXPCELL-ACT

 **03.02 Assault Campaign 2 (CFBLNet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists. Intel is that there is a terrorist camp, terrorist activity has happened. The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.02.108 Ammunition resupply** (Injection)

Planned Date:	03NOV2010 1444Z	State	Injected
Actual Date	03NOV2010 1443Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Ammunition resupply

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start ammunition resupply

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 97

WAGRAM having trouble to decode service request from JCATS as JCATS didn't set up time

stamp in a proper way

Date: 03 Nov 2010 14:57:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 98

JCATS entities are reflected in WAGRAM
First request from JCATS had a small time window and is timed out. A second request with larger time window is sent and received by WAGRAM.
The incident stopped earlier than planned

Date: 03 Nov 2010 15:08:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 117

Remark 1 : JCATS can only send the request with platform entities and wagram can only provides aggregates entities (units reflected in WAGRAM). Supply can't be offer!

Date: 04 Nov 2010 10:52:00
Observer: OBSERVERFRA
Observer Role: OBSERVER AND ANALYST IN EXPCELL-FRA

 **STOR33** (Storyline Observation Task)

Observe the following:

- WAGRAM can provide and JCATS can consume supply pattern
- JCATS entities are reflected in WAGRAM

Date: 02 Nov 2010 till 02 Nov 2010
Training Audience: none
Observers: Andy Brown, Jose Ruiz
Observer Teams: none
Response Cell: EXPCELL-FRA, EXPCELL-ACT
Observers:

 **03.04 Assault Campaign 2 (Internet with booster)** (Storyline)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (Primary Training Objective)

To validate the MSG-68 recommendations for technical standards

 **03.04.108 Ammunition resupply** (Injection)

Planned Date:	04NOV2010 1000Z	State	Injected
Actual Date	04NOV2010 1004Z	Means	PLEXComm Radio
Injector	EXPCEN	Coordinating	EXPCEN

Location
Cell
Receiver

Description

Ammunition resupply

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start ammunition resupply

*** EXERCISE *** EXERCISE *** EXERCISE ***

 **STOR34** (Storyline Observation Task)

Prepare a questionnaire and collect the following data:

- Functionality of demonstrated Library Tool as a shared scenarios tool (i.e., does it satisfy the requirements, what are the weaknesses)
- Usability of the Scenario Data Submission form
- Reliability (crashes and reasons of crash if known)
- Speed local (Retrieve the scenario in EXPCELL-ACT and measure the time it needs to load the scenario)
- Speed remote (Ask all the other experimentation cells to retrieve the scenario and time it)
- Stress test on the maximum number of users (both local and remote)
- Stress test on the query load (both local and remote)

Date 04 Nov 2010 till 04 Nov 2010

Training Audience: none

Observers: Andy Brown, Enrique Banales, Jose Ruiz, Max Karlstrom, ObserverDEU, ObserverGBR, Roger Jansen

Observer Teams: none

Response Cell EXPCELL-ESP, EXPCELL-FRA, EXPCELL-ACT, EXPCELL-DEU,

Observers: EXPCELL-GBR, EXPCELL-NLD, EXPCELL-SWE

 **02.04 Shared Scenarios** (Storyline)

A prototype of the tool designed for the shared scenarios project and shared scenario procedures will be experimented. All the national experiment cells and ACT experiment cell will join to this experiment.

E007 Shared scenarios (Primary Training Objective)

To validate the MSG-68 recommendations for shared scenarios

E006 Distributed training (Secondary Training Objective)

To validate the MSG-68 recommendations for distributed training involving national and NATO C2 and simulation systems

E001 Secure, persistent, on-demand training capability (Secondary Training Objective)

To validate MSG-068 recommendations for a secure, persistent, on-demand training capability that integrates national centres and NATO

 **02.04.101 Send shared scenarios questionnaire to experiment cells** (Injection)

Planned Date:	27OCT2010 0000Z	State	Injected
Actual Date	05NOV2010 0730Z	Means	E-MAIL
Injector	EXPCEN	Coordinating Cell	EXPCEN
Location		Receiver	

Description

Shared Scenarios observer sends the questionnaire to all the experiment cells, which will have access to JEST to answer the questions in the questionnaire.

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start shared scenarios experiment. Use the questionnaire sent to you.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 129

The library allows submitting and sharing only scenarios. It had better to allow also the settings and scenario modules.

Date: 04 Nov 2010 15:32:00
Observer: CAYIRCIE
Observer Role: CHIEF EXPCEN

 **STOR35** (Storyline Observation Task)

Prepare a questionnaire for the overall NETN and NETN reference architecture.

Date: 02 Nov 2010 till 05 Nov 2010
Training Audience: none
Observers: Steven Blackstone, Vladimir Manda
Observer Teams: none
Response Cell Observers: EXPCELL-ACT

 **01.03** Manage and monitor CFBLNet infrastructure (Storyline)

NC3A manages and monitors the CFBLNet infrastructure.

EO01 Secure, persistent, on-demand training capability (Primary Training Objective)

To validate MSG-068 recommendations for a secure, persistent, on-demand training capability that integrates national centres and NATO

 Observation 7

JTLS are missing perception information in the federation. Without it, JTLS can't show what external systems perceive and thus provide incomplete picture, although the system is on the same side.

Date: 02 Nov 2010 08:49:00
Observer: ANALYSTTECH3
Observer Role: TECHNICAL
OBSERVATION AND
ANALYSIS

 Observation 9

JTLS would appreciate if the FOM and FAFD package included C++/C#/Java classes for en-/decoding of all classes and interactions. This would allow everybody use the same code base and actually save a lot of time implementing their own en-/decoding technique.

Date: 02 Nov 2010 09:06:00

Observer:

Observer Role:

 **STOR36** (Storyline Observation Task)

Incident will be run from 1200-1245Z, 1300-1345Z, and 1400-1445Z.

Can you observe the entities and interactions (detonation and fire), respectively:

- FACSIM F16
- FLAMES F18 pair
- FACSIM stationary vehicles in the village
- FACSIM moving vehicles escaping the village
- GBR VBS2-VTK UAV
- TNO VBS2-VTK UAV
- JWC VBS2-VTK UAV

Has the NLVC capability proved interoperable with the MSG-068 recommendations?

Date 04 Nov 2010 till 04 Nov 2010

Training Audience: NLVC Audience

Observers: Andy Bowers, Andy Brown, Goos Cleveringa, ObserverGBR, Peter Langeslag, Roger Jansen, Ellen Roland, Enrique Banales

Observer Teams: none

Response Cell none

Observers: none

 **02.03 NLVC-1** (Storyline)

Forward observers located in JFTC (EXPCELL-ACT) and using FACSIM FAC station controls air mission (air to ground attack) that fly in FACSIM (F16). FLAMES (F18) in JFTC (EXPCELL-ACT controlled) fly combat air patrol. 3 VBS2-VTK UAVs observe village (1 X GBR @ DSTL, 1 X NLD @ TNO, 1 X JWC UAV but controlled from JFTC). Targets are armed vehicles in the village and any escaping vehicles. The objective is to demonstrate that NLVC concept and federation work efficiently, make observations on the technical performance/procedures for NLVC, and determine utility for the NLVC capability to support Distributed Training and Exercises.

EO06 Distributed training (Primary Training Objective)

To validate the MSG-68 recommendations for distributed training involving national and NATO C2 and simulation systems

EO05 Technical standards (Secondary Training Objective)

To validate the MSG-68 recommendations for technical standards

EO04 Multi-granularity (Secondary Training Objective)

To validate the MSG-68 recommendations for multi-granularity

 **02.03.001 NLVC concept and federation** (Intended Storyline Outcome)

The objective is to demonstrate that NLVC concept and federation work efficiently, make observations on the technical performance/procedures for NLVC, and determine utility for the NLVC capability to support Distributed Training and Exercises.

 **02.03.101 FACs are given tactical briefing** (Injection)

Planned Date:	04NOV2010 1000Z	State	Injected
Actual Date	04NOV2010 0943Z	Means	DELIVERED IN PERSON

Injector	EXPCELL-ACT	Coordinating Cell	EXPCELL-ACT
Location		Receiver	

Description

The forward air controllers (FACs) receive a tactical briefing to set the situation for the execution of the vignette. The briefing will direct them to destroy armed vehicles in and around the village.

Functional Area Message

*** EXERCISE EXERCISE EXERCISE***

Observation 123

In the first F16 run guided by SIMFAC, entities to be attacked were not reflected in VBS2

Date:	04 Nov 2010 12:22:00
Observer:	CHIEFANALYST CHIEF ANALYST
Observer Role:	AND OBSERVER

Observation 132

NLVC Run #1, #2, AND #3 operational observations made by the FACs are uploaded to the documents section of JEMM. They are named NLVC run 1, NLVC run 2, NLVC run 3.

Date:	04 Nov 2010 15:05:00
Observer:	SCENARIONLVC
Observer Role:	SCENARIO

Observation 128

F-16 (FACSIM) aircraft seen in VBS2 UK. Appeared visually to have an incorrect altitude (aircraft were seen to fly below the UAV); but were showing correctly in local log.

F-18 (FLAMES) aircraft not visualized; showing in local log.

Static target vehicles (FACSIM) were visualized when VBS2 was running before entities were created in FACSIM. Entities timed-out and disappeared visually until change in entity state (i.e. K-KILL). We believe this was caused by FACSIM not providing regular updates to entities - but only updating when the state changed. This was fixed for VBS2 by changing a setting in VBS2 LVCGame configuration (changing to: hla1516e.deleteTimeout=0); and did not occur in the third vignette. Static vehicles displayed correctly in local log.

Moving vehicles displayed correctly both visually & in local log.

No munition detonations were observed from either system (FACSIM or FLAMES) – but entity state changes caused by both systems (K-KILL of target vehicles) was correctly visualized & shown in local log.

In the second vignette there was a delay of a second or two between PLEXcomm radio call of munition release / firing and the entity state change.

In the third vignette there was very poor PLEXcomm radio quality; and a poor frame-rate in VBS2. Frame-rate in other vignettes was good.

In order to operate VBS2 UAV at 8000 feet it was necessary to extend the terrain & object draw distances. This required us to reduce graphics quality (terrain detail, object detail, texture detail, shading detail, post-process effects, anisotropic filtering, shadow detail, anti-aliasing & blood) all to "LOW". There was no noticeable degradation for UAV operations by this change; however a noticeable lag before texture was redrawn was observed when the UAV camera was slewed round to a new location.

A number of additional entity types had to be mapped in VBS2 to accommodate entities generated by FACSIM.

In the first vignette the UAV was directed to relocate to a new orbit 2NM west of the original location. Due to limitations in the display of distance measurements in VBS2 – this distance had to be estimated by the UAV operator.

AJP

Date:	04 Nov 2010 15:16:00
Observer:	OBSERVERGBR OBSERVER AND ANALYST IN EXPCCELL- GBR
Observer Role:	

 Observation 131

The FACSIM vehicles and aircraft were visible in the FACSIM helmet mounted display (HMD) all through the vignette.

During the larger part of this vignette the facsim vehicle entities were visible in the VBS2 UAV feed. Initially they were not due to setting problems.

Date:	04 Nov 2010 16:19:00
Observer:	SCENARIO NLVC
Observer Role:	SCENARIO

 Observation 133

Observation of Run 3 in JCATS-

All ground and air entities were reflected in JCATS. Bombs were seen dropped by the F18A but no impact was observed. JCATS did reflect the damage state of terrorists in the model.

Date:	05 Nov 2010 10:13:00
Observer:	USAEXPFLOW
Observer Role:	RC, OT

 **STOR37** (Storyline Observation Task)

Report the following about the network performance throughout the experiment:

- Utilization
- Round trip delay
- Throughput
- Jitter

Date 02 Nov 2010 till 05 Nov 2010
Training Audience: none
Observers: Steven Blackstone, Vladimir Manda
Observer Teams: none
Response Cell
Observers: EXPCELL-ACT

 **01.02 Establish CFBLNet and the Internet connections** (*Storyline*)

All nations and NATO organizations connect to CFBLNet.

EO01 Secure, persistent, on-demand training capability (*Primary Training Objective*)

To validate MSG-068 recommendations for a secure, persistent, on-demand training capability that integrates national centres and NATO

EO05 Technical standards (*Secondary Training Objective*)

To validate the MSG-68 recommendations for technical standards

 Observation 14

Judging from Booster Manager screen the Internet connection to TNO has been lost.

Connection has been restored as of 09:52

Date: 02 Nov 2010 09:40:00
Observer: ANALYSTTECH4
Observer Role: TECHNICAL ANALYSIS AND OBSERVATION

 Observation 108

Observation of the current architecture/layout of the network indicates that the current layout is based on a hub-and-spoke topology. This topology may have an impact on scalability.

Location of the hub in this topology is crucial with respect to performance and planning.

Date: 04 Nov 2010 09:17:00
Observer: ANALYSTTECH4
Observer Role: TECHNICAL ANALYSIS AND OBSERVATION

 Observation 109

A network configuration using Internet only has been used.

Latency and bandwidth data have been recorded and need to be supplied and analyzed.

As an average:

Latency
CHECK ms roundtrip time from JFTC to TNO
CHECK ms roundtrip time from JFTC to DSTL
CHECK ms roundtrip time from JFTC to Paris
Numbers have been recorded using the pingplotter software.

Bandwidth
CHECK between JFTC and DSTL
CHECK between JFTC and TNO

unknown for Paris
Numbers have been recorded using the iperf software.

Date: 04 Nov 2010 09:21:00
Observer: ANALYSTTECH4
Observer Role: TECHNICAL ANALYSIS AND OBSERVATION

 Observation 110

During the experiment it was observed that there has been a lack of appropriate tools allowing to perform specific simulation centric network measurements.

Tools for measuring network performance were available, but not deployed at all spoke sites.

Date: 04 Nov 2010 09:24:00
Observer: ANALYSTTECH4
Observer Role: TECHNICAL ANALYSIS AND OBSERVATION

 **STOR38** (*Storyline Observation Task*)

Observe the following:

- Orque can provide and JTLS can consume supply service
- Orque entities are reflected in JTLS
- JTLS entities are reflected in Orque
- JTLS aggregate units are reflected in TYR
- TYR aggregate units are reflected in JTLS

Is there any difference comparing to your observations during STOR22. Observe the differences also in performance (i.e., delay, and simulation speed that can be achieved).

Date: 03 Nov 2010 till 03 Nov 2010
Training Audience: none
Observers: ChiefAnalyst, Farshad Moradi
Observer Teams: none
Response Cell: EXPCELL-ACT, EXPCEN
Observers:

 **03.02 Assault Campaign 2 (CFBLNet with booster)** (*Storyline*)

Terrorist Camp Assault built from vignettes - contains all vignettes

The campaign is to destroy the terrorist camp and capture the terrorists.
Intel is that there is a terrorist camp, terrorist activity has happened.
The decision to attack has been taken.

EO05 Technical standards (*Primary Training Objective*)

To validate the MSG-68 recommendations for technical standards

 **03.02.001 MSG-068 NETN Concept and Reference Federation** (*Intended Storyline Outcome*)

Prove that

- MSG-068 NETN concept is feasible
- MSG-068 NETN Reference Federation Architecture is practical

 **03.02.103 Air refuel** (*Injection*)

Planned Date: 03NOV2010 1329Z
Actual Date 03NOV2010 1314Z
Injector EXPCEN

State Injected
Means PLEXComm Radio
Coordinating Cell EXPCEN
Receiver

Location

Description

Start air refuel incident

Functional Area Message

*** EXERCISE *** EXERCISE *** EXERCISE ***

Start aggregate level ground strike.

*** EXERCISE *** EXERCISE *** EXERCISE ***

 Observation 86

TYR reflected some of the entities ok from JTLS, such as the aircraft to be refuelled, but many entities were not fully reflected. CallSign and EntityType seemed to be reflected, but other necessary attributes for TYR was not, like position, velocity etc. Though these entities were probably not relevant for the Air Refuel injection.

A400m the air-to-air refuel aircraft was not reflected to TYR. TYR team thinks A400m did not follow the orbit.

The refuelling procedure worked, service started as the crossed path, so the refuelling aircraft had to turn around and catch up before the service could be completed. Refuelling aircraft had to do an instant drop to the elevation of the air-to-air refuel aircraft.

Date: 03 Nov 2010 13:50:00
Observer: ANALYSTTECH
Observer Role: OBSERVATION AND ANALYSIS CHIEF FOR TECH ISSUES

 Observation 85

Orque provided and JTLS consumed supply service
Entities are reflected in both JTLS and Orque. Vicinity of tracks was difficult due to difference in systems (High resolution/ Highly aggregated).

Date: 03 Nov 2010 13:50:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 95

Orque entities are reflected in JTLS
TYR aggregate units are reflected in JTLS
Interactions are reflected in JTLS as planned

Date: 03 Nov 2010 14:43:00
Observer: ANALYSTTECH2
Observer Role: TECHNICAL ANALYSIS

 Observation 122

Remark 1 : ORQUE received a supply request and acheive refueling with JTLS.
 Provider is A400M and Consumer is 212.F351

Remark 2 : Aircraft of JTLS was reflected in ORQUE. Aircraft use for the supply was reflected.

Remark 3 : Unit from TYR was also reflected in ORQUE

Date: 04 Nov 2010 10:55:00
Observer: OBSERVERFRA
 OBSERVER AND
 ANALYST IN EXPCELL-
 FRA
Observer Role:

 **STOR39** (Storyline Observation Task)

Ask the logistics audience:

- Is radio simulation a realistic and usefull tool for such training?
- Are simulation tools realistically simulating a MEDEVAC?
- Can this environment enhance the training?

Apart from that observe:

- VBS2 entities are reflected in VBS2-JWC and KORA
- KORA can pick up the casualties in VR-Forces

Date 04 Nov 2010 till 04 Nov 2010
Training Audience: Logistics Audience
Observers: Andy Brown
Observer Teams: none
Response Cell
Observers: none

 **02.01 Logistics (MEDEVAC)** (Storyline)

Two troops modeled in VR-Forces by EXPCELL-ESP are wounded. A medical evacuation plan is developed by the operational people in EXPCELL-ACT send their plan to MEDEVAC responce cell in EXPCELL-DEU. Then EXPCELL-DEU mplements this plan in KORA to evacuate the wounded troops modelled in VR-Forces. All incident is also observed in the other models (i.e., JCATS, JTLS, TYR, VBS2).

EO06 Distributed training (Primary Training Objective)

To validate the MSG-68 recommendations for distributed training involving national and NATO C2 and simulation systems

EO03 Distributed simulation integrating NATO and national M&S capabilities (Secondary Training Objective)

To validate MSG-068 recommendations for distributed simulation integrating NATO and national M&S capabilities

 **02.01.105 Start the MEDEVAC** (Injection)

Planned Date:	04NOV2010 0900Z	State	Injected
Actual Date	04NOV2010 0852Z	Means	JEMM
Injector	UNKNOWN	Coordinating Cell	EXPCELL-DEU

Location

Receiver

Description

HICON deploys medical elements according to OPPLAN

Functional Area Message

none

 Observation 111

During the experiment, permanent radio contacts among participants were assured. Oral reports were broadcasted iaw the scenario and simulated situation. Radio simulation might add realism to such a training in case the background of the operators is on the same level. Radio should anyway be operated by operationally and/or technically experienced/ trained operators for the benefit of the activities

Date: 04 Nov 2010 09:32:00
Observer: CHIEFANALYST
Observer Role: CHIEF ANALYST AND OBSERVER

 Observation 127

VBS2 was crashing due to the hardware not able to handle a combination of:

map size, joining the federation and VBS2 video options.

A laptop with more powerful graphics and up to date hardware running Windows 7 with stop most of the VBS2 crashes.

Date: 04 Nov 2010 15:03:00
Observer: BROWNA
Observer Role: JEMM ADMIN

Process Observation Tasks

Generic Observation Tasks

 **GEN40** (*Generic Observation Task*)

General observations that you couldn't put under specific observation tasks

Date: 27 Oct 2010 till 05 Nov 2010
Training Audience: none
Observers: ACTOP, Amy Grom, ANALYSTOPR, Andy Bowers, Andy Brown, BIROL GUVENC, BROWNA, ChiefAnalyst, Chris Hall, CIEDOBSERVER, Clive Wood, David James, Edgar Harnsen, Ellen Roland, Enrique Banales, Farshad Moradi, Goos Cleveringa, Ivan Vianello, Jaap Middelburg, JCATSOP1, JCATSOP2, Jose Ruiz, Laszlo Csepely, Max Karlstrom, NLVCSPV1, NLVCSPV2, ObserverDEU, ObserverGBR, Olsson Lennart, Peter Langeslag, Robert Forsgen, Roger Jansen, SCENARIOBOGALAND, SCENARIOMEDEVAC, SCENARIONLVC, SHAREDSCEOB1, SHAREDSCEOB2, SHAREDSCEOB3, Steven Blackstone, Vilmos Kovacs, Vladimir Manda
Observer Teams: none

 Observation 130

The tempo/pace of the experiment, while beneficial in enabling comparison of the campaign execution over different network architectures, was too rapid to enable immediate analysis and resolution of problems during individual incidences. Over the course of the two technical experiment days, issues with most of the incidences were resolved; as a result the fourth execution of the campaign was much smoother than the first. This suggests that the network load of these different campaigns was less comparable than would have been possible if both campaigns had a full "dress rehearsal" prior to the first official day of execution.

Date:	04 Nov 2010 15:38:00
Observer:	OBSERVERUSA
Observer Role:	OT