



Danish use of Commercial Games

Presented at

MSG-108

Exploiting Commercial Games and Technology for use in NATO

QinetiQ, UK October 2011

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Danish Defence Acquisition and Logistics Organization

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Danish use of Commercial Games



Simulation Models / Serious Games used :

Steel Beasts Pro

- Tactical trainer (Squad to Company size exercises)
- Platoon Trainer (Leopard 2A5)
- Crew Trainer (Leopard 2A5 , OHW)

VBS2

- Video Feed from UAV (BDE / DIV staff exercises, JCATS)

IFACTS

- FAC trainer

IRAS*Comm / IRAS*Trainer

- Simulated radios (eg. Intercom)

JCATS

**Basic connection to BMS / C2 systems - needed in order to achieve
“Train as you Fight”**



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Steel Beasts 1



Tactical Trainer



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Steel Beasts 2



Crew Trainer



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Steel Beasts 3



Platoon Trainer



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Steel Beasts 4



Over Head Weapon Station Gunner Trainer



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VBS 2



Simulation Federation of JCATS and VBS 2
Staff Exercise at BDE / DIV
LOCON Overview at typical exercise



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VBS 2



JCATS use 2D display (map) covers a large area with many entities
VBS 2 use 3D (first person shooter game)
The NATO Training Federation (NTF) is JTLS - JCATS - VBS 2
VBS 2 primarily used to provide realistic video feed from UAVs



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IFACTS 1



Forward Air Controller Trainer

IFACTS provides both a FAC Station and a simple Pilot station

JCATS is used to provide the Ground / “non-FAC” scenario



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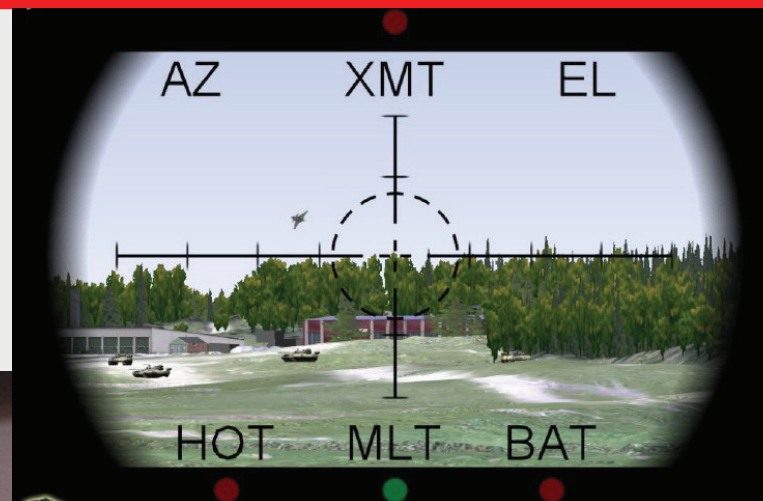


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IFACTS 2



Forward Air Controller Trainer



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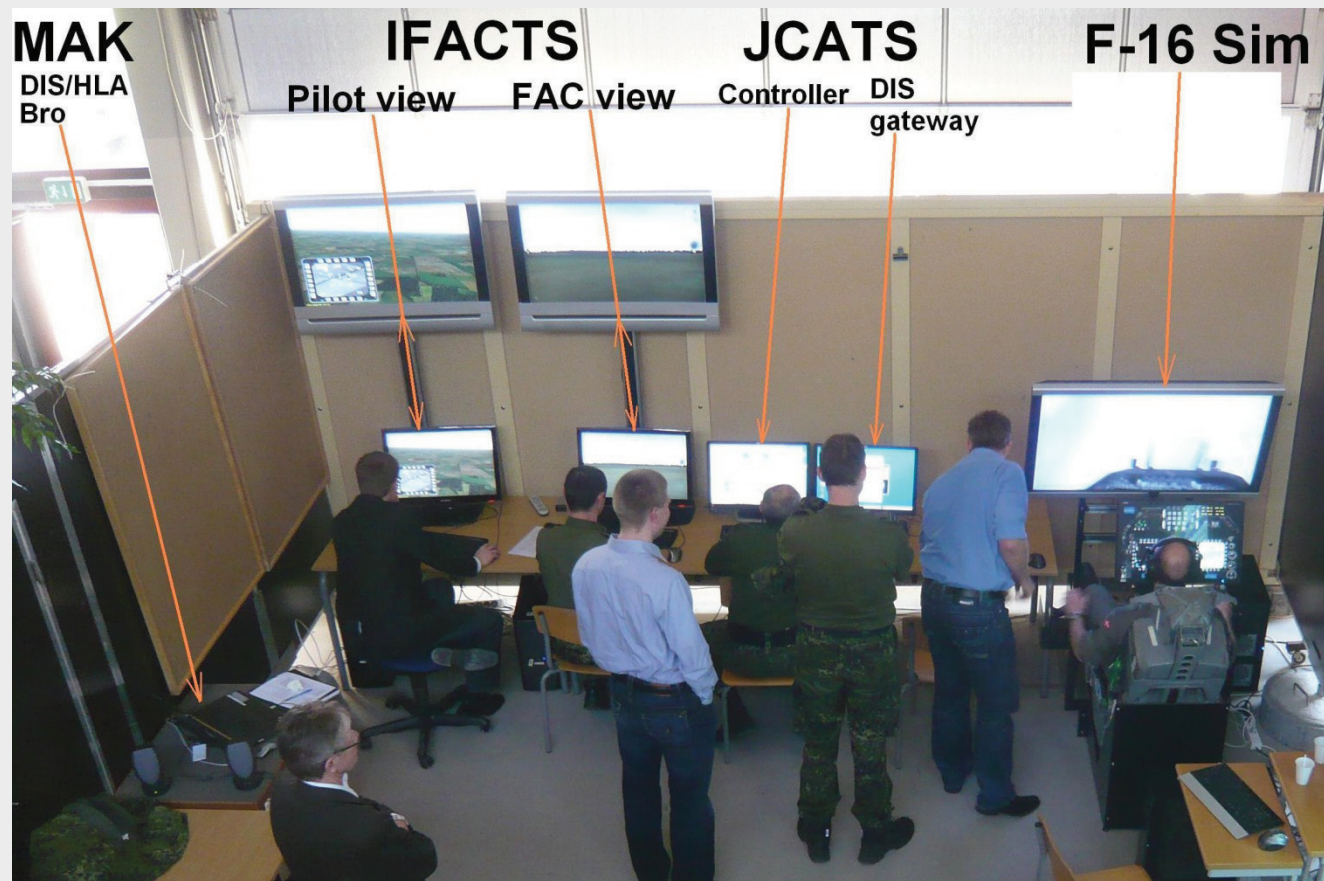


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Forward Air Controller Trainer

DEMO of federation with F-16 simulator



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Danish use of Commercial Games IRAS*COMM



Simulated Radios

Can be installed on the same PC's as Model / Game



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Danish use of Commercial Games Integration / Federation 1



Getting a Simulation Gateway (SimGW)

**Connecting Steel Beasts Pro and JCATS
to Danish Army BMS / C2 systems (Blue Force Positions)**

- **Steel Beasts - BMS**
- **JCATS - BMS**
- **Steel Beasts - C2**
- **JCATS - C2**

**Simulated Radios may be installed wherever desired
And VBS 2 may also be federated (via JCATS)**

This is the first step for a full integration af C2 and Simulation

**Further integration will need a standard for a Battle Management
Language being developed by MSG-085**

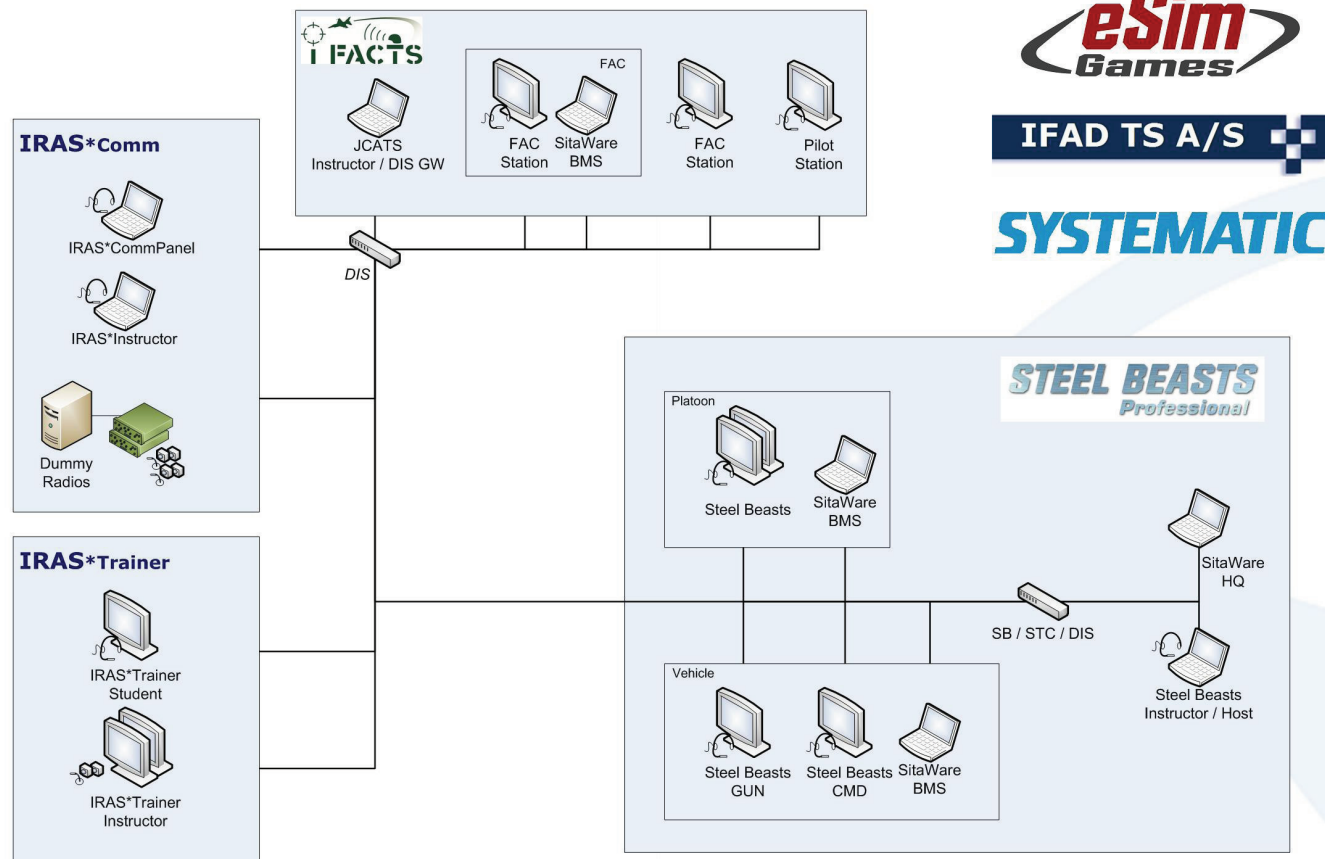


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A Possible Future Integration (presented at MSG-087)

ITEC 2011 Demonstration



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Danish use of Commercial Games Integration / Federation 3



A Possible Future Integration (shown at ITEC)



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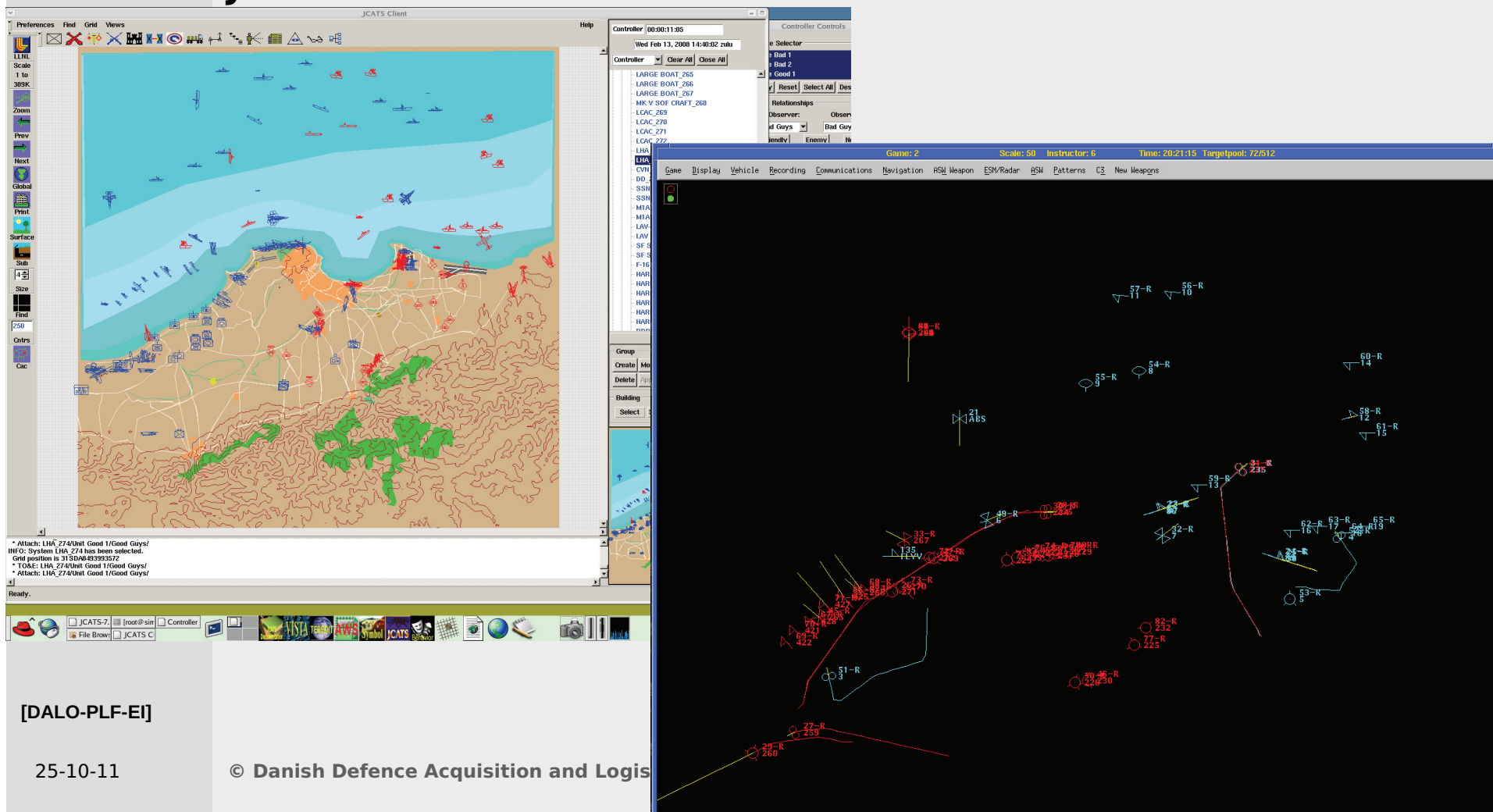
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DEMONSTRATED Possible Integration JCATS - Naval TAK Trainer





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To Sum up :

Steel Beasts Pro

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- Crew Trainer (Leopard 2A5 , OHW)

VBS2

- Video Feed from UAV (BDE / DIV staff exercises, JCATS)

IFACTS

- FAC trainer

IRAS*Comm / IRAS*Trainer

- Simulated radios (eg. Intercom)

JCATS

BMS / C2

-- All being integrated in order to “Train as You Fight” --



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Questions and Comments