NEWSIMWEB

web-based simulation for academy training
Topics

- Overview NEWSIM<sup>WEB</sup>
- Label Menus and Color States
- Airspaces (used for ACS Training)
- Available Workspaces
- Examples of use
- Implementation in ACS Training Event Plan
Topics

- **Overview NEWSIM**
- Label Menus and Color States
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NEWSIM\textsuperscript{WEB} is a cloud-based ATC simulator developed by DFS that allows students remote access to simulation training.
With an option for VRR (voice recognition and response) functionality, it allows flexible training in addition to the simulator training.
Overview NEWSIM\textsuperscript{WEB}

NEWSIM\textsuperscript{web} optimizes simulation of modern ATM systems with 4D trajectories and label-based interactions.
Topics

- Overview NEWSIM$^\text{WEB}$
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Label color states
Label color states

- Assumed
Label color states

- Assumed
- Assumed Transfer
Label color states

- Assumed
- Assumed Transfer
- Advanced
Label color states

- Assumed
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- Advanced Transfer
Label color states

- Assumed
- Assumed Transfer
- Advanced
- Advanced Transfer
- Unconcerned
Adaptable Menus and Labels

**SWR541**
- **ASSUME**
  - SEND
  - NFL (380)
  - XFL (380)
  - CFL (380)
  - PFL (380)

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  - SEND
  - NFL (380)
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  - PFL (380)

**SWR541**
- **ASP**
  - K
    - 0.85
    - 0.84
    - 0.83
    - 0.82
    - 0.81
    - 0.80
    - 0.79
    - 0.78
  - M

**SWR541**
- **Assign Direct**
  - DEKEL
  - AMALI
  - IRKIS
  - ABASO
  - ELKIM
  - MAKEL
  - GESKA
  - MONAK

**SWR541**
- **Create ELV**
- **EXECUTE**

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Topics

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Airspace

PTT

PTP
PTT Airspace

**PTT** (Part Task Trainer)

Generic airspace

- Box-shaped
- Easy structure
- Task-oriented routes and constraints
- Reduced number of adjacent sectors
- No level splits within the sectors
PTP Airspace

**PTP (Part Task Practice)**

**EDUU WUR sector**

- Academy adaption of actual sector
- Complex routes and constraints
- Task-oriented adjacent sectors and level splits
- Close to Operational procedures (LoAs, Operational Orders)
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Parallel Available Workspaces

Choose Workspace

- [ ] A1
- [ ] Z11-E stenner
- [ ] Z11-P

Simulator Ready

START SIMULATION  TERMINATE
Parallel Available Workspaces

- **Adjacent (sectors)**

Choose Workspace

- A1
- Z11-E
- Z11-P

Simulator Ready

**START SIMULATION**  **TERMINATE**
Parallel Available Workspaces

- Adjacent (sectors)
- Executive (controller)
Parallel Available Workspaces

- Adjacent (sectors)
- Executive (controller) **incl. VRR option**

Choose Workspace

- A1
- Z11-E
- Z11-P

Simulator Ready

START SIMULATION   TERMINATE
Parallel Available Workspaces

- Adjacent (sectors)
- Executive (controller)
- Planner (controller)
Adjacent View
Color Codes and Rights

Executive

AAL9094
FORCE ASSUME
SEND
NFL (330)
XFL (250)
CFL (330)
PFL (330)

Adjacent

AAL9094
ASSUME
SEND
NFL (330)
XFL (250)
CFL (330)
PFL (330)
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# Potential use

## Combination depending on task

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Examples of use

Debriefing of a simulator run

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Debriefing of a simulator run
### Examples of use

#### Consolidation of a new Objective

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![Image of a classroom setting]
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Example ACS rating objective **SPEED CONTROL**

**ATM 43** Speed Control 1

Speeds in general (civil) IAS vs. Mach, limits, speed during climb and descent, application of speed control, phraseology, Military aircraft speed.

**ATM 44** Speed Control 2

Speed Control briefing – application, enroute and initial arrival sequencing

**ATM 45 – 48** Speed Control 1

PTP, Application of speed control enroute + PTT

**ATM 49** Speed Control 1 Debriefing

Recap and Questions

**ATM 50 – 53** Speed Control 2

PTP, Application of speed control enroute + PTT

**ATM 54** Speed Control 2 Debriefing

Recap and Questions

**ATM 55 – 56** Speed Control

Consolidation speed control 1+2 PTT (web-based WUR sector)
Example ACS rating objective **SPEED CONTROL**

**ATM 43** Speed Control 1

**ATM 44** Speed Control 2

ATM 45 – 48 Speed Control 1 PTP + PTT

ATM 49  Speed Control 1 Debriefing

ATM 50 – 53 Speed Control 2 PTP + PTT

ATM 54  Speed Control 2 Debriefing

ATM 55 – 56 Speed Control  consolidation

Theory lessons in classroom
Example ACS rating objective **SPEED CONTROL**

ATM 43 Speed Control 1

ATM 44 Speed Control 2

**ATM 45 – 48 Speed Control 1 PTP + PTT**

ATM 49  Speed Control 1 Debriefing

ATM 50 – 53 Speed Control 2 PTP + PTT

ATM 54  Speed Control 2 Debriefing

ATM 55 – 56 Speed Control consolidation
Example ACS rating objective **SPEED CONTROL**

ATM 43 Speed Control 1
ATM 44 Speed Control 2

**ATM 45 – 48 Speed Control 1 PTP + PTT**

ATM 49 Speed Control 1 Debriefing
ATM 50 – 53 Speed Control 2 PTP + PTT
ATM 54 Speed Control 2 Debriefing
ATM 55 – 56 Speed Control consolidation

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### Example ACS rating objective **SPEED CONTROL**

ATM 43 Speed Control 1
ATM 44 Speed Control 2

**ATM 45 – 48 Speed Control 1 PTP + PTT**

ATM 49 Speed Control 1 Debriefing
ATM 50 – 53 Speed Control 2 PTP + PTT
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ATM 55 – 56 Speed Control consolidation

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| ATM 43 | Speed Control 1 |
| ATM 44 | Speed Control 2 |
| **ATM 45 – 48** | Speed Control 1 PTP + PTT |
| ATM 49 | Speed Control 1 Debriefing |
| ATM 50 – 53 | Speed Control 2 PTP + PTT |
| ATM 54 | Speed Control 2 Debriefing |
| ATM 55 – 56 | Speed Control consolidation |

#### Airspace | VRR | System Input (as pilot command) | Classroom (CBT) | Outside academy | Individual student | Small group | Whole class |
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**ATM 49 Speed Control 1 Debriefing**  
ATM 50 – 53 Speed Control 2 PTP + PTT  
ATM 54 Speed Control 2 Debriefing  
ATM 55 – 56 Speed Control consolidation

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Example ACS rating objective **SPEED CONTROL**

ATM 43 Speed Control 1
ATM 44 Speed Control 2
ATM 45 – 48 Speed Control 1 PTP + PTT
ATM 49 Speed Control 1 Debriefing
ATM 50 – 53 Speed Control 2 PTP + PTT
ATM 54 Speed Control 2 Debriefing
ATM 55 – 56 Speed Control consolidation

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| ATM 54 | Speed Control 2 Debriefing |
| **ATM 55 – 56** | Speed Control consolidation |

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Individual Training

Available Exercises

1001PT05  
Speed control 1

1001PT06  
Speed control 2

1040H1VT05  
Speed Control 1

1040H1VT06  
Speed Control 2

1041PTM06  
mission Dep EDOM speed control pc5104

Chat

kuettler  
left chat

Grimm  
left chat

schumm  
left chat

stanner  
left chat

ewsim  
entered chat

Type Message...
Individual Training

Available Exercises

1001PT05
Speed control 1

1001PT06
Speed control 2

1040H1VT05
Speed Control 1

1040H1VT06
Speed Control 2

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Individual Training

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1040H1VT06
Speed Control 2

1041PTM06
mission Dep EDOM speed control pc5104

Missions
Missions

Specific Missions
(related to the objective)

Example

Integration of Departure Traffic into the Traffic flow using speed control
# Individual Training

## Individual Training of a new Objective

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![Image of individuals using laptops]
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Thank you for your attention!