



## PACTOS Realtime

### PACTOS - User interactive and networked PATRIOT air defense simulation

PACTOS<sup>1</sup> provides the following functions:

- simulation of one *ICC*<sup>2</sup> and up to six *ECS*<sup>3</sup>
- realistic, graphical user-interface for two Manstations
- simulation of Radar Set, Launching Stations and missiles
- PDB Version 7.0 operational software
- IEEE 1278, DIS and TADIL-J/LINK 16 interface
- Legacy consoles with original PATRIOT type switches / indicators
- Modernized Manstation with Touch capability

PACTOS is a sophisticated simulation of the PATRIOT weapons system for

- crew drill training,
- operational practice and
- distributed and netted exercises.

PACTOS is used in these environments or exercises:

- NATO ITB<sup>4</sup>
- TAWZ<sup>5</sup>
- Virtual Elite
- JPOW

<sup>1</sup> **P**ATRIOT **A**dvanced **C**apabilities **T**echnical and **O**perational **S**imulation

<sup>2</sup> **I**nformation and **C**oordination **C**entral

<sup>3</sup> **E**ngagement **C**ontrol **S**tation

<sup>4</sup> NATO Integrated **T**est **B**ed

<sup>5</sup> **T**aktisches **A**us- und **W**eiterbildungs-**Z**entrum, Tactical Training Center of the German Air Force

## System Layout

The **PACTOS** system layout is highly flexible and can be adapted to any given scenario. It is possible to simulate a whole battalion or only one fire unit. Each simulated *ECS* or *ICC* can be completed with an optional Operator Manstation.

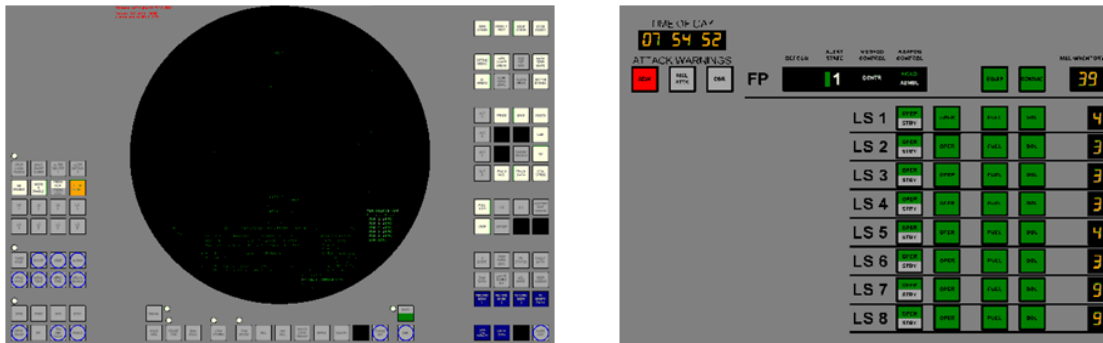
### Minimum Configuration:

ECS autonomous, single console mode: 1 PC

### Maximum Configuration:

1x ICC, TD / TDA<sup>6</sup>, 6x ECS, TCO / TCA<sup>7</sup> each: 14 PCs

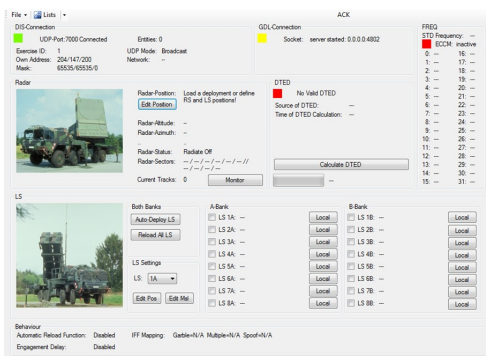
## PACTOS User Interface



## Technical Data

- Possible platforms are Laptop or Desktop with Microsoft® Windows 7, 8, 10
- Display / Console:
  - Wide screen monitor with HD resolution or better recommended
  - Input via Mouse, Trackball or Touch Screen
  - A console version with original switches/ indicators is optional
- SIMPLE / Link 16 Implementation according to STANAG 5602 and STANAG 5516
- DIS
  - According to IEEE 1278.1, 1278.1a
  - External DIS scenario feed required

## Radar/Weapons User Interface



## Hardware Consoles



## Simulation function

The PACTOS Simulation is to be operated under NATO RESTRICTED classification. All weapon system models (Radar/Missiles/C<sup>2</sup>) contain generic algorithms only. The simulation provides system behavior that is similar to the original system for training purpose. Automated ECS available for ICC-Training.

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<sup>6</sup> TD: **Tactical Director** / TDA: **Tactical Director Assistant**

<sup>7</sup> TCO: **Tactical Control Officer** / TCA: **Tactical Control Assistant**