PROFESSIONAL EDITION



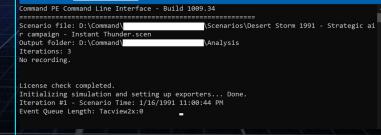
WEGO-STYLE MULTIPLAYER

Up To 16 Players - Vs & Coop - Umpire & Observer

COMMAND-LINE VERSION

Automating massive-scale analysis





WHAT IS COMMAND PROFESSIONAL EDITION?



01

04

CMANO

SUPERSET of Command: Modern Air/Naval Operations (CMANO)



02

03

Product

Physics-based Battlespace Environment Simulation tool.



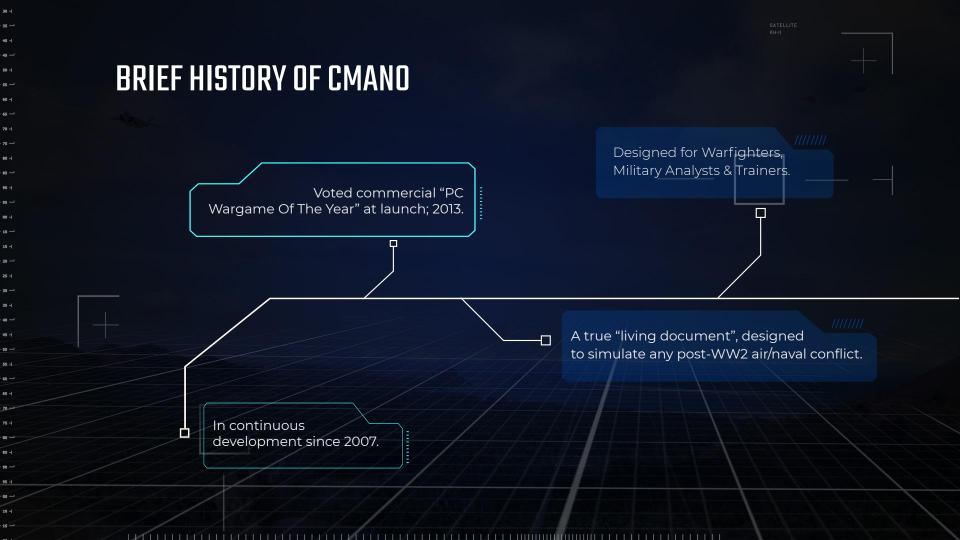
Contractors

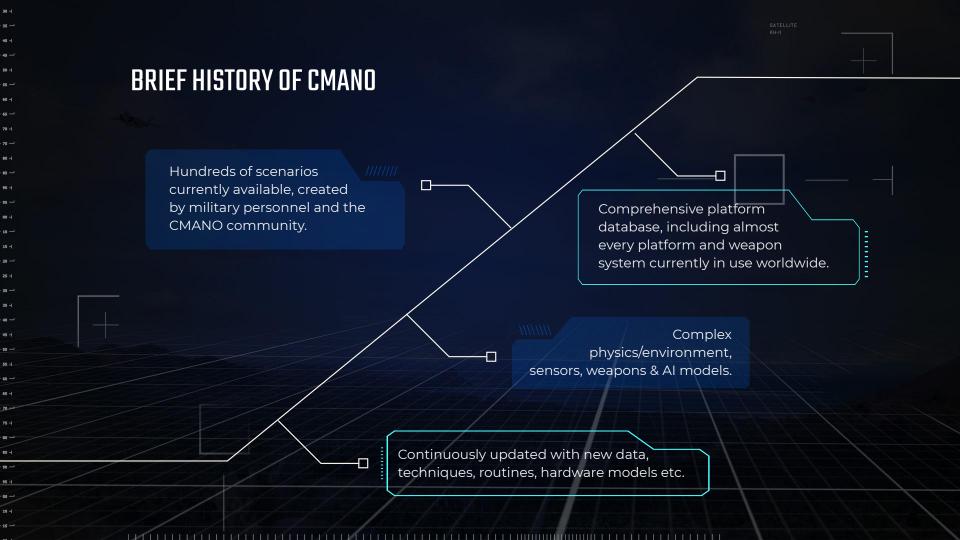
Currently In use by US & NATO military contractors.

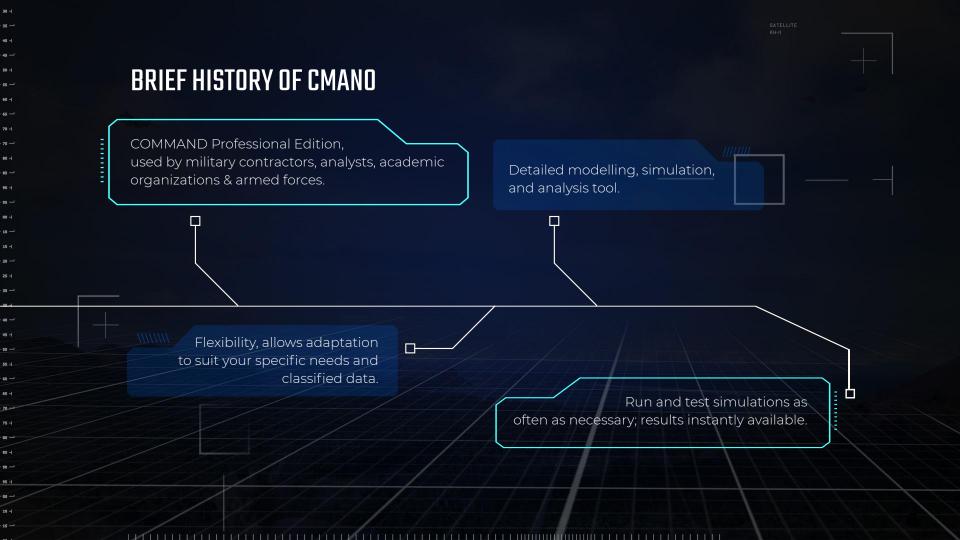


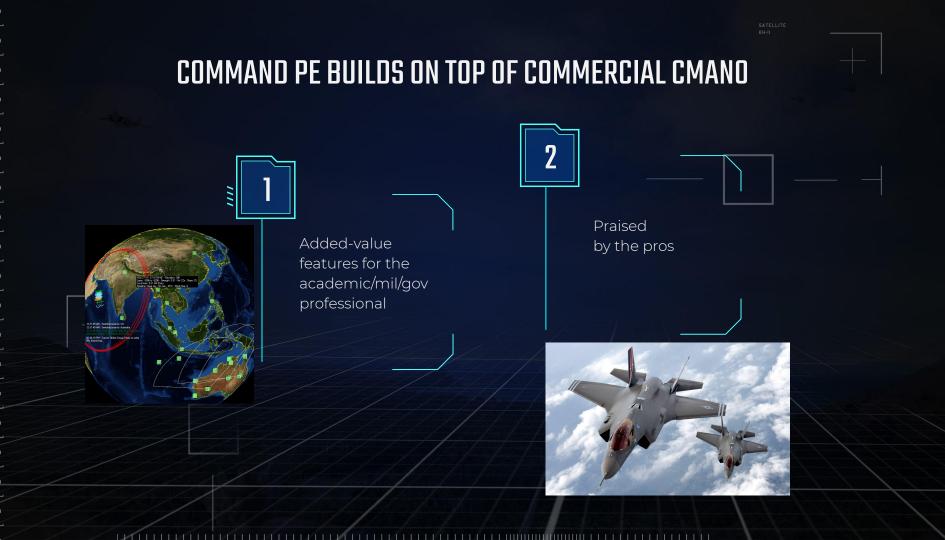
Military

Logistics, training and analysis:
Currently in use by US & NATO Air and Naval Forces









USED & TRUSTED WORLDWIDE

Armed forces & defence contractors throughout US & NATO use CPE for analysis, planning & procurement









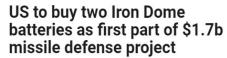












Systems to be deployed next year; \$373m. purchase could lead to far bigger deal if Israeli system proves able to defeat more complex threats than it was originally designed for



















HCSW Hypersonic Missile

The Air Force has notified Lockheed Martin it has cancelled the Hypersonic Conventional Strike Weapon as of Feb. 10, in favor of the AGM-183 Air-Launched Rapid Response Weapon. The cancellation is not because of poor performance but because of other "budget priorities

A B-52 out of Edwards Air Force Base, California,

Air Force Cancels

in Favor of ARRW

90

15 ⊣ 20 → 25 ⊣

35 -l 40 --

45 -| 45 -| 50 --|

65 H

75 -l 80 -J 85 -l

93 T

15 —

PRAISED BY THE PROS:

"Far surpasses anything I have ever seen"
"This should be issued immediately to the field"
"In my 34 years of service, I've never seen anything like this"
"The 505th Command and Control Wing needs this"

"Command will find a following not only among civilian gamers but might have value among military, government, and policy circles as a simulator of modern warfare"

"I would list the names of people who have been talking to me about this game for the last year, but I feel like I would be name dropping. Needless to say the range of people involved in beta testing range from an Admiral in the US Navy to professors at the US Naval War College to some distinguished Fellows of several think tanks" CSAF ACP Senior Leader assessments

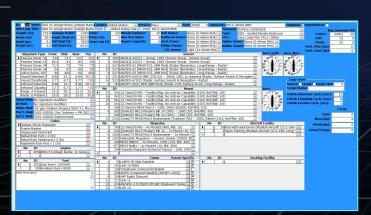
US Naval Institute

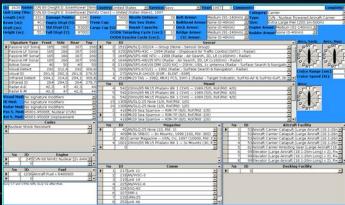
Information Dissemination

FULL DATABASE EDITOR

Modify existing systems or create entirely new ones

Rapid change-testrepeat cycle







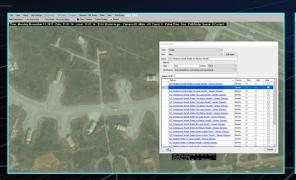
RAPID SCENARIO DEVELOPMENT



Powerful, GUI-driven integrated scenario editor allows creating elaborate scenarios in minutes

Save & re-use sprawling facility installations or nationwide defence complexes - or batch-import from your own data

Turbocharge creation speed with parallel development & scenario merging

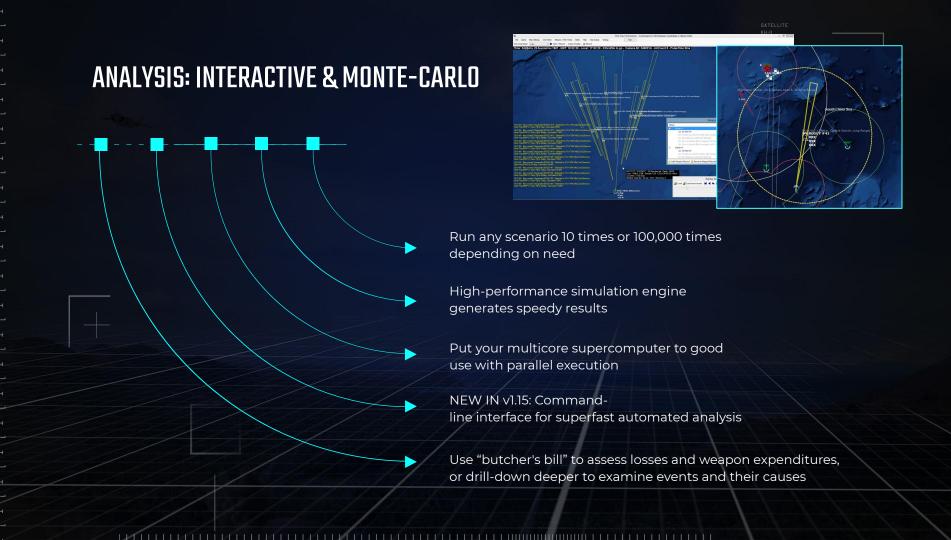




"Wargaming with Command is an Order of Magnitude faster than our previous tool."

ON-DEMAND FREE & COMMERCIAL IMAGERY





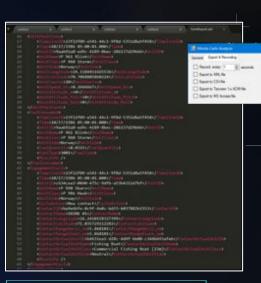
EVENT EXPORT



Export various sim events for external analysis; unit positions & movements, fuel consumption, weapons fired, units hit/destroyed, fuel transfer and much more

Export to XML, CSV, MS-Access, Tacview, SQL-Server & SQLite





More destinations available on request e.g. SQL Server, Oracle etc.

EDIT & CUSTOMIZE THE SIMULATION

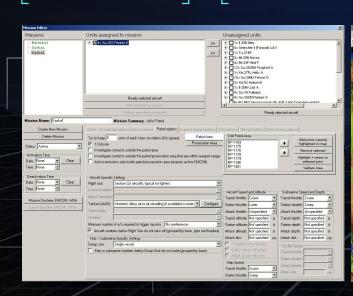
Multiple ways of customizing data & models:

DB editor

Mechanics overrides

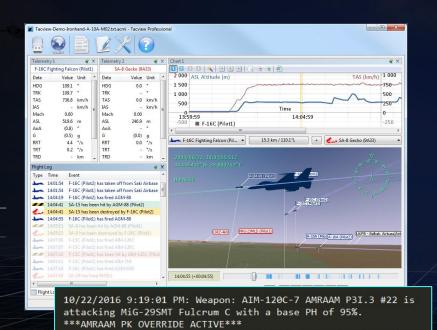
Lua plugin API

Direct editing of raw scenario state (via XML)





PLUG-IN YOUR OWN MODEL: MECHANICS OVERRIDES



Weapon is AIM-120A/B/C and target is MiG-29; using override.

external DLL..... Result: 82% probability.

Final PH: 82%. Result: 92 - MISS

Inputs for high-fidelity model: Weapon speed: 2500 kts. Target speed: 724.8661 kts. Impact angle: 91.65361 deg. Calling

Create and edit
your own models &
mechanics using
Mechanics overrides,
in-code, or remote
connection to Lua API.

Overrides configurable per session - Additional methods can be added on request.

RICH 3d VISUALIZATION - EXPANDED OPTIONS

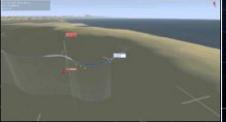
Export simulations to Tacview, SIMDIS or ANY DIS-compatible viewer for comprehensive, all-aspect 3D view of the battlefield

Stand back and observe the big picture, or zoom-in for more detail or pan from a different angle to view a new perspective

Go forwards or backwards in time and observe trends and subtle factors

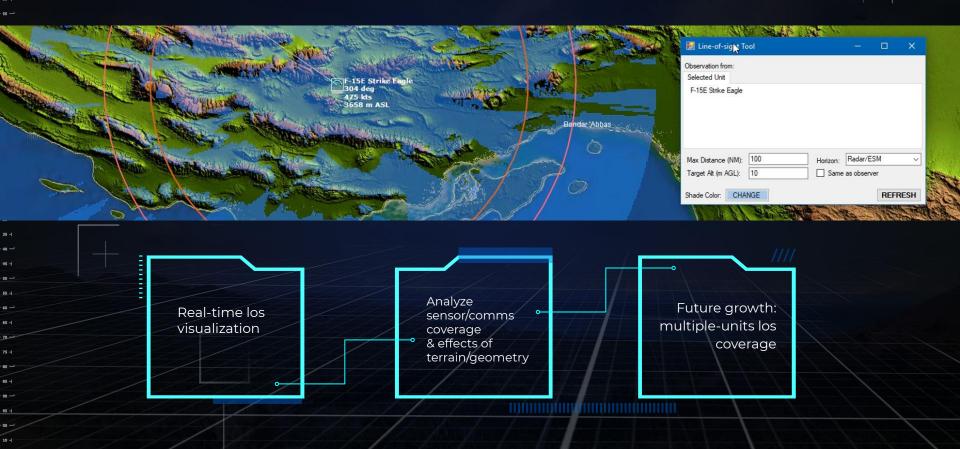
After-action and real-TIme modes supported - CIGI support in future







LINE-OF-SIGHT ANALYSIS



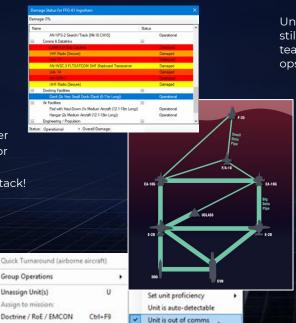
COMMUNICATIONS JAMMING & DISRUPTION

How well can your forces operate in the dark?

Communication jamming & disruption and out-of-contact units explicitly modelled

Execute in different ways: either broadly via comms jamming, or more specifically through Lua scripting e.g. cyber/network attack!

Optionally override built-in comms model with outside simulation for high-fidelity comms (e.g. Exata network simulator)



Copy unit ID to clipboard

Ctrl+D

Range + Bearing Tool Scenario Editor Units are not entirely blind, they can still fight alone, but the advantages of teaming, fire coordination etc. are lost; ops efficiency is severely degraded

Allows analysis of disrupted comms networks

Future options: Isolated local-area networks, variable comm quality/data rates

TACTICAL / OPERATIONAL LOGISTICS & CARGO

Getting your forces to the theater - and sustaining them

Units have finite weapons, fuel & stores - consider your staging ports & bases carefully Rich cargo model places realistic volume/weight/personnel restrictions on your supply chain capacity

Amphibious landings and airdrops: Perform multi-dimensional, multi-domain manouvering to secure your objectives







DETAILED DAMAGE AND TURN-AROUND

Live to fight another day

All platforms are complex systems made of discrete components - each individually damaged/destroyed

& re-arm - But this costs time!

Surviving units may return to

Discrete armour levels for hull/superstructure/fuselage etc. and per-component

Use Command's built-in ETIC & turn-around estimators, or override with your own data/models

ports/airbases/carriers to repair, refuel







WEAPONS OF THE PRESENT & THE FUTURE

New Weapon Types



High energy lasers multiple subtypes, each with its own peculiarities



Tactical EMP weapons, both omni-directional "grenade" warheads and directional systems like CHAMP



Hypersonics: cruisers and boost-glide vehicles



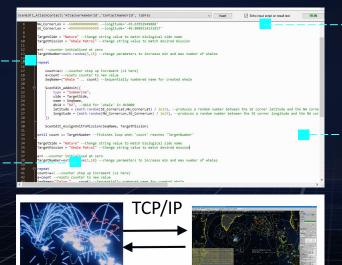
Railguns and HVPs

LUA SCRIPTING & PLUGIN API

Go beyond the graphical interface

Built-in Lua console provides direct access to the internals of the running simulation

Script commands can be either human- or machine-driven (HAL or WOPR/Joshua as adversary!)



TCP/IP socket
access to Lua API –
remote-control
Command from any
external console or
application

Lua I/O (optional) – use any of Lua's built-in input/output abilities to facilitate information import & export

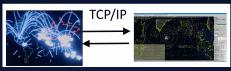
INTER-SIMULATION CONNECTIVITY & INTEGRATION

Talks to what you already use

Join existing distributed simulations through DIS (v6 & v7 support)

Complete import/export of scenario state via XML: allows changes to everything

Rich event-export framework to output data to other existing systems







TCP/IP socket access to Lua API – remote-control Command from any external console or application

> Mechanics Overrides: Use your siloed data & models directly inside Command

Future Growth: HLA, CIGI, other

LVC Integration with external simulations

