



Version 1.00- May 2021

FEATURES (DESCRIPTION BELOW)	Mil / Gov	Academic	Standard	Premium
Award-Winning CMO Simulation Engine	✓	✓	✓	✓
Run as non-admin	✓	✓	✓	✓
Bathymetry layer & Offline maps	✓	✓	✓	✓
Benchmark Mode	✓	✓	✓	✓
Forum Support	✓	✓	✓	✓
Help Desk Support		✓	✓	✓
Export to Tacview & SIMDIS		✓	✓	✓
Extended Pro Simulation Features (Comms jamming, PCLS etc)		✓	✓	✓
On-demand imagery		✓ Requires Microsoft Bing Maps license		
Interactive analysis + event export		✓	✓	✓
Monte Carlo analysis			✓	✓
Full database editor & entire-scenario XML import/export			✓	✓
Extended LUA Features (TCP socket etc.)			✓	✓
High-resolution terrain elevation data & offline satellite maps			✓	✓
Command Line & Multiple-instances (AI / ML)				✓
Model Overrides (e.g. use an external sensor system)				✓
DIS Support				✓
Database Migration/Merge Tools				✓
Can run in secure environment (without Internet)				✓

FEATURE DETAILS

Run as non-admin	CPEv2 offers a revised filesystem layout for its writable data, which enables the application to run in a restricted (ie. non-administrator) mode. This makes it possible to install and run CPE in high-security environments where admin powers for an application are a non-starter.
New bathymetry layer & Offline Maps	The "Relief" map layer has been enhanced with its marine counterpart, a rich bathymetric map that illustrates the differences in bottom depth on different map locations. In addition all map layers (apart from those provided externally by Stamen Design) are now bundled in their entirety as part of the installation (including, optionally, the massive "Sentinel-2 Cloudless" layer) and can thus be used in offline machines. This greatly enhances map quality and performance in systems that are isolated from the Internet (incl. highly-secure networks).
Benchmark mode	This provides an objective way to measure & compare a system's performance and suitability for CPE, by repeatedly running any selected scenario in headless mode (similar to Monte-Carlo execution, but without any analysis results). The execution is run using finegrained pulse mode (ie. 0.1-sec pulses) in order to stress-test the simulation engine and the hardware resources.
Forum Support	We have an active forum where the team provides support and the community also helps each other.
Help Desk	We run a help desk to support customer and help fix their problems.
Export to Tacview & SIMDIS	Make use of powerful 3D-visualization capabilities with on-demand overhead imagery, exported to SIMDIS and Tacview.
Extended Features	Additional simulation features such as integrated comms jamming, directional-EMP weapons and hypersonic glide vehicles.
Interactive Analysis & Event Export	Tremendous data export & analysis capabilities, both for real-time use (live dashboards, telemetry, data output and more) as well as long-term statistical analysis.
On Demand Imagery	If you have a Bing Maps license you can pull high resolution on demand satellite imagery in to the simulation or pre cache it if running in a secure environment.
Monte Carlo Analysis	Run your simulation tens, hundreds of thousands of times to output large data sets to determine patterns of behaviour and trends. You are only limited by your hardware and time available.
Full Database Editor	Completely customizable simulation database and terrain data. Change as much or as little of the out-of-the-box package as you desire, to tailor it to your own needs & environment.
Extended LUA Features	Rich interoperability & connectivity options with access to the simulation API through TCP/IP connection.
High-resolution terrain	While it can still use CMANO/CPEv1's DTED-0 level terrain elevation set, CPEv2 now also offers the option to use a global-scale SRTM3-format terrain dataset with 90m/cell resolution (DTED-1 equivalent). When activated, the higher resolution automatically applies to calculations dealing with the terrain elevation, such as terrain slope for ground units navigation, line of sight, surface/bottom clutter for look-down sensors etc.
Command Line	In Command Line mode the software runs without a user interface and runs vastly quicker. It can also be configured to run multiple instances simultaneously with the only limitation being the hardware available. Vast amounts of data can be generated this way to support AI and machine learning.
Model Overrides	Command has the ability to bypass parts of its built in model and call external systems. For example you might want to replace the sensor system with your own system and model overrides allow this.
DIS	Rich interoperability & connectivity options with support for DIS.
Database Migration Tools	We provide tools to help users collaborate on projects and merge their databases together.
Run in Secure Environment	This allows the software to run without an internet connection and be used in a secure offline environment.