MAK ONE

One-World **Multi-Domain** Synthetic Environment

MAK ONE is an open and modular product suite that provides a whole world multi-domain synthetic environment which serves as a digital-twin of planet Earth. It allows end users, system integrators, and simulation designers the ability to conduct training and experimentation exercises in any domain independently or collectively in multi-domain operations.

VR-Vantage
3D Simulation Visualization

Quickly achieve a "big picture" understanding of the simulation while retaining an immersive sense of perspective.

VR-TheWorld Server
Terrain Data Server

Streaming terrain data server for MAK Earth-enabled applications. Terabytes of global elevation, imagery, feature, and land use layers — served via industry-standard GIS protocols.

MAK Earth
Whole Earth Procedural Terrain

The terrain engine within MAK products that procedurally generates whole Earth terrain from GIS data loaded directly or streamed from a server such as VR-TheWorld Server.

VR-Forces
The Complete Simulation Engine

This powerful and flexible computer generated forces platform lets you increase the scale of your synthetic environment with simple or complex behaviors in any domain: urban, battlefield, maritime, air, and space.

VR-Engage
Multi-Role Virtual Simulators

VR-Engage lets users play the role of a first person human character: a vehicle driver, gunner or commander; a pilot of an airplane or helicopter; or a sensor operator.

Use Cases:
- Training
- Experimentation
- Mission rehearsal
- Research and development
- Virtual prototyping

MAK ONE is based on open standards, a unified library of content, and includes robust APIs for customization when needed.

MAK Data Logger
Simulation Recording & Replay

An easy-to-use system for capturing and replaying simulation data and video streams.

Di-Guy SDK
Human Characters

Render human characters into any image generation or game system, including Augmented and Mixed Reality. Custom characters available.

RadarFX SAR
Physics-based Radar Imagery

Add the benefits of Strip SAR, Spot SAR and ISAR to your simulation using the RadarFX server.

SensorFX
Physically Accurate Sensors

Add physically accurate electro-optical, night-vision, and infrared sensors to the simulation system.

VR-Vantage
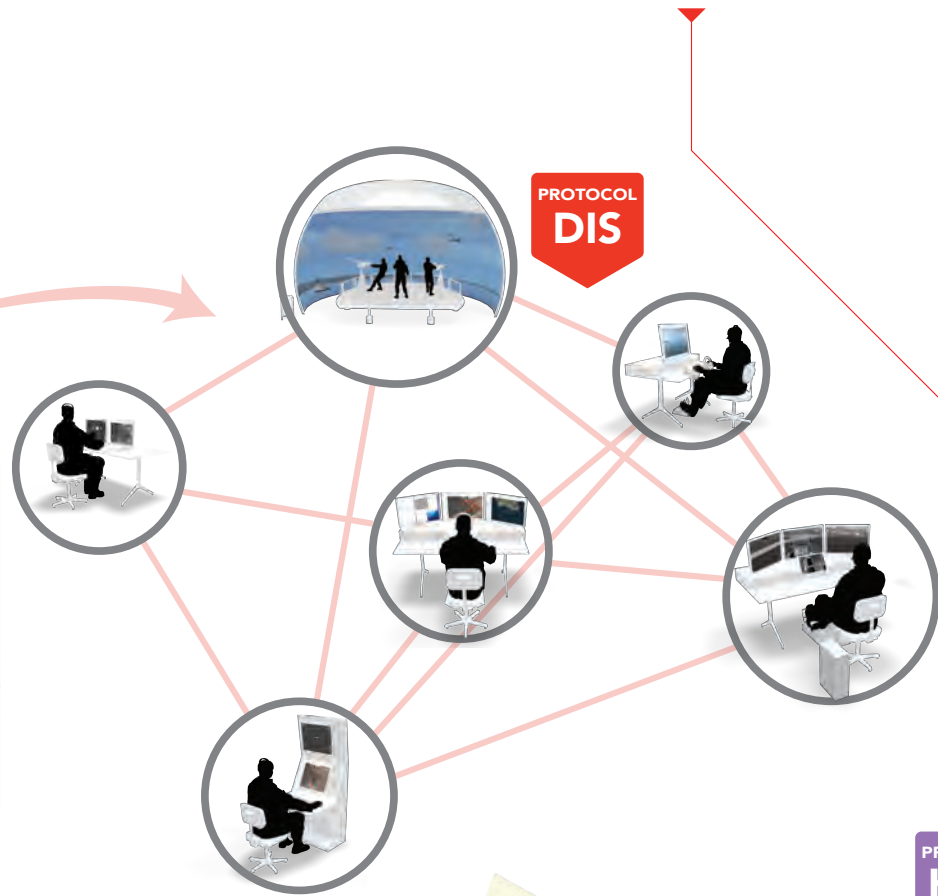*Immersive Visual and Sensor Image Generation*

Game-like visual quality in a high-performance image generator designed by IG experts for training and simulation projects.

VR-Link
HLA & DIS Simulation Networking
VR-Link provides an easy way to network simulators and other virtual reality applications using industry standard protocols.

PROTOCOL HLA
PROTOCOL DIS

MAK RTI
HLA Run Time Infrastructure
With the MAK RTI, connecting your simulation to an HLA federation is as intuitive as connecting your laptop to a WiFi network.

PROTOCOL DIS

VR-Exchange
Protocol Translation & Bridging
The universal translator for distributed modeling and simulation. Perform FOM-to-FOM translation, RTI-to-RTI bridging, DIS, HLA, or custom protocol translation, and simulation-to-C4I interoperability.

Deploy Anywhere
- Desktop
- Server
- Virtual Machine
- Private Cloud
- Public Cloud

WebLVC
Web Connectivity & Apps
Connect mobile devices and web browser-based apps to the simulation federation.

PROTOCOL HTTP

PROTOCOL HLA

PROTOCOL DDS

PROTOCOL CUSTOM

Look What's Inside!
Every project has its own unique requirements for its end users. Our products come loaded with content and capabilities to meet a large variety of those requirements out-of-the-box along with the power and flexibility to build custom solutions.

VR-Engage, **VR-Forces**, and **VR-Vantage** include:
- Procedurally generated whole Earth terrain – powered by the MAK Earth engine using your GIS data or the terabytes of data that comes with VR-TheWorld Server.
- Human characters, animations, and behaviors – powered by DI-Guy.
- DIS/HLA networking interoperability – powered by VR-Link.

MAK Assist
We offer superior technical support, on-site and on-line training, and consulting services to help our customers make the best use of our software products. But sometimes the most effective approach is to carve off a part of the project and let MAK's Training Solutions team develop a solution that meets your requirements.

MAK ONE's Flexibility Extends Beyond Software
MAK products can be licensed à la carte, so you can have just the capabilities you want. But with MAK ONE, you can have the whole suite configured to suit your organization's size, shape, and preferred licensing model.

Get in touch, let us know how we can help you!

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