SE-Workbench-RF: Radio-Frequency software package description

The SE-Workbench-RF solution allows the experienced users to work with the advanced technology of the OKTAL-SE software. Radar signal, RCS computation, narrow beam approximation SAR images and RF field propagation are computed using ray-tracing technology implementing asymptotic methods. Import capabilities are provided in order to work on existing 3D terrain databases or 3D objects (geometry & texture). A plug-in to 3DSmax™ and SketchUp™ is delivered. Advanced functions are provided to work on 3D objects and to enhance the database of physical materials.

SE-Workbench-RF gives a direct access to:
- EM field computation in 3D
- The response of the 3D scene (Amplitude and Phase) at the receivers locations.
- RCS computation in monostatic and multistatic configurations
- Narrow Beam SAR image computation

The Application Programming Interface (API) enables to integrate the computation process in a customer application.

SE-Workbench-RF includes 3D objects samples, a set of physical materials, the User Manuals, the format documentation and a full description of the implemented Physical Models.

SE-Workbench-RF solution is delivered for (Windows™) operating system (also compatible with Linux system 🐧) in its English version. A USB dongle controls the license.

The SE-Workbench-RF solution can be covered by a support and maintenance contract.