



**SERCEL**

A Viridien Business

# MESA<sup>®</sup>

SURVEY DESIGN & PLANNING

# MORE EFFICIENT WORKFLOWS FOR SURVEY DESIGN AND VALIDATION: MESA EXPERT AND NORSAR 3D TWO-WAY CONNECTION

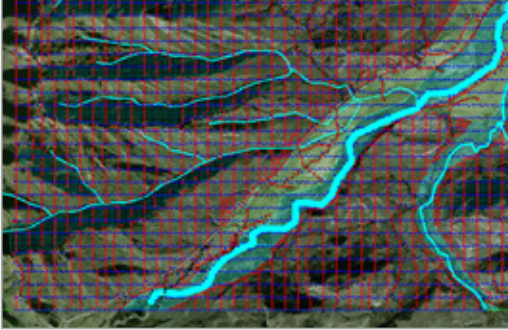
At a time when technical innovation is not enough, our innovative partnership can help customers streamline powerful workflows for survey design optimization across two industry-leading platforms. The two-way connection between MESA Expert and NORSAR 3D allows our users to transfer data seamlessly across our products to design optimal survey acquisitions in the most challenging environments, both surface and subsurface.

The MESA Expert and NORSAR-3D Connector provides our clients with a unique, complementary, and seamless capability to validate coverage of survey designs through exclusive illumination workflows based on seismic modeling. This new streamlined seismic acquisition and modeling routine increases efficiency when designing surveys while decreasing the chances of errors due to data transfers.

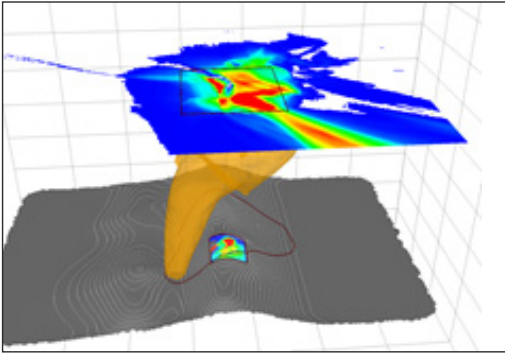
## KEY BENEFITS

- > Access to a complete acquisition design and modeling platform.
- > Time saving through efficient connection of two industry-leading, complementary.
- > Increased confidence in ensuring that the survey design is adequately sized for a given prospect.
- > Enhanced decision making due to the iterative nature of the new interface.

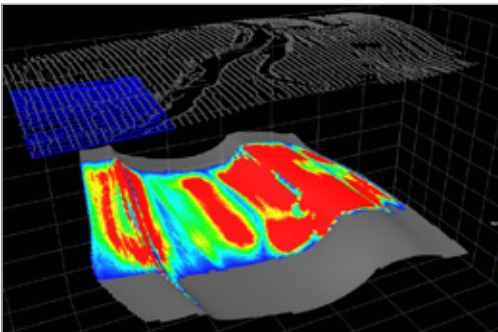




Use MESA Expert's unmatched tools for layout and editing to create and transfer land, OBS, and marine geometries to NORSAR-3D.



Unique raytracing tools within NORSAR-3D provide insight into determining the proper size and orientation of the survey design.



The new workflow combines MESA's survey design features with NORSAR's raytracing capabilities to validate illumination requirements.

While NORSAR 3D runs on either Linux or Windows, and MESA Expert is Windows based only, there is no need for users to switch their NORSAR 3D Linux based application to use the Connector if both platforms share a disk.

Hardware requirements for running MESA Expert and NORSAR 3D using the Connector:

### System Requirements for NORSAR-3D

- Windows 7, Windows 8, and Windows 10 (64-bit OS)
- Red Hat Enterprise Linux 6 or higher, SUSE Linux 12 or higher, CentOS 6 or higher. (64-bit OS)

### Minimum system requirements

- 16 GB RAM.
  - At least 4 GB RAM per CPU core is recommended.
  - For complex models and surveys, 64 GB RAM or more recommended
- 3D graphics accelerator card (Nvidia or AMD recommended). Full HD 1920x1080
- Requirements for NORSAR Software Suite on Linux:
  - X server with OpenGL extension
  - OpenGL runtime libraries with recommended patches

### Storage recommendations

- Estimated disc space for a modelling job with 100k shots / 5k receivers per shot is 200Gb

*Please make sure that you have the latest drivers for your graphics card installed.*

### System Requirements for MESA EXPERT

- Windows 7, Windows 8, and Windows 10 (64-bit OS)

### Recommended

- Intel i7 processor or greater
- 16 GB RAM or greater
- 1TB hard disk. SSD storage highly recommended
- 3D graphics accelerator card (Nvidia or AMD)

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