

## **OPERATIONS OPTIMIZATION / SURVEY DESIGN AND PLANNING**

## MORE EFFICIENT WORKFLOWS FOR SURVEY DESIGN AND VALIDATION SERCEL AND NORSAR COLLABORATION

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 collaboration between Sercel and NORSAR allows our users to share data across our products, MESA® Expert and NORSAR-3D®, 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 streamlined seismic acquisition and modeling routine, increases efficiency when designing surveys while decreasing 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 software packages
- 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



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

# NORSAR-3D is supported on the following systems:

- Real-Windows 10, Windows 11
- Red Hat Enterprise Linux 7 or higher, CentOS 7 or higher.
- · 64-bit operating system required

#### Minimum system requirements:

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

Latest drivers for graphics cards need to be installed. If the disks are shared or NORSAR-3D is running on Linux - these can still be combined with MESA on Windows.

#### System Requirements for all PCs :

- Monitor resolution: 1280 x 1024 (or higher)
- High-end processor no Celeron or base level
- Microsoft Windows 7, 8 or 10 Workstation, versions 64 bit only. Professional or Business versions, no Home versions
- 4 to 8 GB RAM
- NVidia and ATI graphics systems preferred to internal
- 10 GB minimum free disk space (40 GB disk drive recommended)
- USB port for software security dongle (included with distribution)
- Network interface
- · Printer drivers must be MS Windows compatible
- Malware Software, if beyond Windows pre-Installed, must be business version. Must have capability to Whitelist or Grant Exceptions for MESA and Licensing software

#### Recommended:

- Dual (1280x1024), or better, monitors
- Core i7 or Xeon or Equivalent. Dual, Quad, Hexa or Octa-core preferred
- 16 GB RAM, or higher, is highly recommended. 1 Terabyte, or higher, free disk space
- USB 3.0 for external drive attachment
- Network interface, 100 Mb/Second or 1 Gb second, Wireless 802.11n or 802.11ac for laptop
- Use Windows preinstalled Anti-Malware

#### About SERCEL

Sercel, headquartered in Nantes, France, has been a pioneer in subsurface measurement and monitoring since 1956, supporting sectors from natural resources to energy, infrastructure, and defense. With over 1,500 employees in more than ten countries, it combines advanced technologies and geoscience to deliver precise, high-standard solutions. For more information www.sercel.com or contact csl-sales@sercel.com

#### About NORSAR Innovation

NORSAR Innovation AS, a wholly owned subsidiary of the research foundation NORSAR, specializes in seismic modelling software and services for the E&P industry. For more information visit norsarinnovation.com or contact sales@norsar.com

