Setting the Standard for Advanced Workflows

New release provides complete suite of geoscience and engineering applications.

Paradigm’s latest release is the broadest set of innovative technologies and improvements to existing solutions ever produced by the largest independent software vendor in the upstream E&P industry. Building on the Epos 4 infrastructure and integration platform commercialized in 2009, Paradigm 2011 sets the standard for advanced geoscience and engineering workflows at new heights.

Ergonomics have been further improved, busting the myth that sophisticated technology is difficult to learn or time-consuming to utilize. The new Windows 7 version of the complete interpretation, visualization, characterization, and data management suite, in addition to the modeling, petrophysics, engineering, and drilling solutions that already support the Windows platform, allows Paradigm customers to freely choose their IT platform for their upstream software.

The solution features new technologies, workflow integration capabilities, and performance gains including:

• **Prestack interpretation in the post-stack world.** Paradigm’s flagship interpretation system, SeisEarth, can include full prestack data (2-D or 3-D) both for visualization and interpretation purposes using exactly the same tools as for traditional interpreted seismic data. As well as a powerful quality-control tool in complex settings, the validation of amplitude vs. offset/amplitude vs. azimuth anomalies, verifications to the velocity model, and quantified seismic response analysis are now easier than ever;

• **Modeling while interpreting.** This is a further evolution of the solution offered in 2009, with accelerated modeling computation and the ability to verify interpretation integrity with the built-in paleo-flattening of the SKUA modeling platform. As the only system that can truly model any number of faults, any number of boundaries, and any level of complexity related to erosional or structural alterations, there is no need for any simplification of the interpretation prior to modeling;

• **Redefining geology.** Redefining geological interpretation with the most up-to-date geological cross-section and correlation tools available, Paradigm 2011 introduces automated log correlation, integrated production data, a direct and shared environment integrating seismic and modeling activities, and real-time map updating while interpreting;

• **Redefining seismic interpretation.** Interpreters now have a comprehensive solution to multi-attribute picking, characterization and calibration, and multi-well synthetics to produce more meaningful well-to seismic relations in areas of dense drilling. Seismic facies, now expanded to work on 2-D as well as 3-D datasets, and attribute cross-plotting are available in the standard interpretation windows, making it even easier to use the powerful capabilities of these tools to characterize complex depositional environments. The all-new VoxelGeo now leverages GPU processing power to accelerate 20x the rendering of seismic data while dramatically improving the quality and 3-D feel of the data;

• **Full-azimuth decomposition, imaging, and interpretation in a single pass.** Paradigm 2011 finally brings to mainstream geoscience workflows the wealth of information contained in modern full-azimuth seismic data. Whether it is applied to detecting stress orientations in shale gas formations or unraveling the most complex subsalt illumination problems with brio, the EarthStudy 360 suite revolutionizes the way interpreters look at seismic; and

• **Complex geologic settings.** The latest release incorporates reverse time migration (using CPU clusters or GPU-based architectures) and paleostratigraphic velocity modeling for improved imaging in complex geologic settings.

Please stop by Paradigm at booth 1028 for further information.