Accurate positioning of the wellbore in the target zone is a critical element to maximizing recovery in any well that is drilled. With the rise in the number of complex wells that involve multi-laterals, severe deviations and long horizontals, this becomes even more important. More horizontal wells are being drilled faster, closer together, with thin target zones, and in previously developed fields. To respond, engineers must drill quickly while avoiding geologic hazards and well collisions to steer the bit to the profitable pay zone.

COMPASS™ software is the industry’s premiere application for directional well path planning, survey data management, plotting and anti-collision analysis. This software, designed for both oil companies and drilling contractors, can improve safety, efficiency and cost effectiveness of directional well programs.

Now Landmark offers a new license software package for COMPASS™ software called COMPASS™ Directional Rig Package. By having access to the industry’s premier well path planning and survey data management technology at the rig site, service companies can now deliver wells with greater precision allowing for more complex well paths and smaller targets to be drilled while reducing the risk of wellbore collision. Using COMPASS Directional Rig Package enables service companies to directly update COMPASS applications in the office, removing the need and risks for manually transposing data to and from files and e-mails.

**BENEFITS**

*Perform surveying and anti-collision analyses at the rig site*

- Increase wellbore placement accuracy for reservoir contact and collision avoidance
- Simplify data exchange process when using COMPASS software in the office
- In compliance with oil and gas operators using COMPASS software

![Graphs showing anti-collision calculations](image)

*The industry’s most trusted anti-collision calculations now available in a single-user package.*
COMPASS™ Directional Rig Package gives single users the access to the industry’s premier well path planning and survey data management technology at the rig site. Service companies can now deliver wells with greater precision allowing for more complex well paths and smaller targets to be drilled while reducing the risk of wellbore collision.

**Avoid costly collision incidents**
Drilling in mature fields or in unconventional shale opportunities requires close monitoring to avoid colliding with existing wellbores. To always keep users aware, anti-collision scans can be run interactively with planning, surveying or projecting ahead, and users can be alerted when well paths converge at specified minimum criteria.

**FEATURES**

**Survey data management**
Surveys can be spliced together to form a definitive well path. Incoming survey data can be analyzed for quality via several methods. Users can project ahead from any point in a survey and determine the optimum path to get back on plan or to hit a target.

**Anti-collision analysis**
COMPASS software provides spider, ladder (including equivalent magnetic distance), 3-D proximity and traveling cylinder plots, as well as numerous hard-copy reports. Anti-collision scans can be run interactively with planning, surveying or projecting ahead while recording new survey stations.

**Industry Standard Geomagnetic models (BGGM and NOOA) support**
If a company subscribes to BGGM and NOOA support services, COMPASS software allows the calculation of geomagnetic declination for survey azimuthal correction using these models.

**SYSTEM AND SOFTWARE**

**SOFTWARE REQUIREMENTS**

- Engineer’s Data Model™ (EDM™)
- Microsoft Database Engine (MSDE)

**OPERATING SYSTEMS**

- Microsoft® Windows® 7 Enterprise 64-bit with SP1
- SQL Server 2008 R2 SP1

**Landmark offers solutions to help you deliver on your business strategies. For questions or to contact your Landmark representative, visit us at landmarksoftware.com.**