Tigress and OpenSpirit

The Tigress suite of geoscience applications represents the most integrated solution available to the petroleum industry, with a comprehensive set of advanced interpretation tools covering seismic interpretation, petrophysics, log analysis through well correlation to petroleum engineering and reservoir simulation. The suite is totally integrated around the Tigress Project Data Store (PDS).

With Release 4.6, Tigress offers Tigress PC Edition, a fully integrated, PC-based workflow solution. This product is designed for in-field use, and as a mobile platform for geoscientists and managers who need access to key data at all times. Tigress PC Edition is available pre-installed on a Linux laptop, and is integrated with Windows 2000/XP running as a guest operating system through VMware™.

The increased mobility provided by Tigress PC Edition represents a radical change in the way people work, and presents new challenges in the effective use of data and applications. The OpenSpirit Application Integration Framework has been incorporated into key Tigress products in order to resolve these challenges by offering:

- Improved application interoperability and quality of interpretation through the Tigress OpenSpirit Event Gateway, which passes cursor location events between Tigress applications and third party OpenSpirit enabled applications.
- Enhanced data exchange functionality and format coverage through OpenSpirit-TIES, a stand alone, OpenSpirit enabled version of TIES, the Tigress import/export system.

The Tigress OpenSpirit Event Gateway

A key benefit of the OpenSpirit Application Integration Framework is that it allows geoscientists to more readily choose the most appropriate application at any point in the E&P project life cycle, and to integrate the application into their workflow.

The Tigress OpenSpirit Event Gateway provides a link between industry leading Tigress applications and third party applications for cursor location events. Cursor location functionality is supported in Seismic Interpretation, Mapping (Map Editor), Petrophysics and Geology (Well Correlation and Cross Section). These applications broadcast and receive Tigress coordinate events (of the form x, y, TVDSS), which are translated to and from OpenSpirit cursor events by the Tigress OpenSpirit Event Gateway.

Benefits of the event gateway include:

- Improved application interoperability in the key area of cursor location.
- Increased confidence in interpretation products due to the simultaneous use of multiple data types and application views.
OpenSpirit-TIES

The Import/Export System (‘standard’ TIES) is a user-configurable tool that acts as both a data transfer and file conversion hub, supporting a wide variety of industry standard files and databases. OpenSpirit-TIES retains the basic features of standard TIES but has been designed from the ground up to connect to the OpenSpirit Application Integration Framework, producing a flexible, cost-effective standalone application supporting OpenSpirit enabled data sources.

OpenSpirit-TIES offers data integration and replication services to support the use of Tigress and OpenSpirit by:

- **Individual end users**, working within a single discipline, using data of a particular type stored in a single application data store;
- **Multi-disciplinary asset teams** who require access to a broad range of data types, possibly from a number of application data stores;
- **Managers of joint ventures** who may need to compare products from two or more asset teams without making unnecessary copies of data.

Benefits of OpenSpirit-TIES include:

- Transfer of well header, log and deviation data between OpenSpirit enabled data stores and the industry-standard PBAscii data exchange format.
- Use of the extensive two-way linking capability of TIES to transfer data between office-based corporate project data stores (OpenWorks, GeoFrame) and Tigress PC Edition, thereby facilitating off-line working.
- Distributed architecture supporting the exchange of data between a network of users and data stores.
- More effective re-use of a broad range of legacy data.
- An extensible infrastructure which facilitates support of new data types and data formats, offering reduced time to market and broader market potential for new data products.
- Comprehensive data integrity services.

Contact Information

OpenSpirit Corporation is based in Houston and specializes in building a vendor neutral, platform independent application and integration framework that accelerates “time to market” for software vendors and improves workflow integration for oil and gas companies. Additional information on OpenSpirit is available at http://www.openspirit.com, or via e-mail at info@openspirit.com

Additional information about VMware is available at http://www.vmware.com.

For more information about Tigress OpenSpirit products, contact Mike Smith via e-mail at mike.smith@tigress.co.uk.