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General Information

| Date: | July 14, 2017 |
|-------------------------|--|
| Products: | SeisVision |
| Version: | 2016.1.3 Service Pack for GeoGraphix [®] |
| Build Number | 16.5.16220.0 |
| ECCN: | This GeoGraphix service pack is exported under the license exception TSU |
| Platform: | Microsoft Windows [®] 7 or 10, (64 bit) |
| Prerequisite Updates: | GeoGraphix 2016.1.x must be installed |
| Supersedes Version: | None |
| Compatible Releases: | 2016.1.x |
| Checksum for .exe (MD5) | 54a7b75646e2f159ce9ff66709f3509e Discovery2016.1.3setup.exe |

What's in this Release?

This service pack introduces GVERSE[™] Inversion 2017.1 plug-in for enhanced interpretation, reservoir prediction and geosteering¹. This plug-in is part of the GVERSE application suite by LMKR (<u>http://www.lmkr.com/gverse</u>). Please refer to the *GVERSE Inversion Release Notes* for more information on the plug-in.

This service pack must be installed for the Inversion plug-in to work. For instructions on how to install the plug-in, refer to the *GVERSE Inversion Installation Guide*.

Service Pack Dependencies

GeoGraphix 2016.1.x must be installed prior to the installation of this service pack.

What's New - GVERSE[™] Inversion

This Inversion plug-in is a colored inversion solution that provides a rapid, yet robust, way to derive geological details in the form of relative impedance volume (rock hardness). When geosteering through a reservoir, the high resolution impedances calculated by the colored inversion ensure that the well is drilled through the ideal reservoir.

GVERSE Inversion is accessed from within the SeisVision application. The plug-in receives seismic and well data from SeisVision, processes it, and returns the inverted volume to SeisVision. To launch the plug-in, open the SeisVision module, and then select **Tools > GVERSE Inversion**.

Install Instructions

To install:

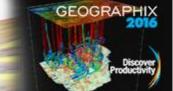
- 1. GeoGraphix 2016.1.x must be installed.
- 2. Shutdown all GeoGraphix 2016.1.x applications and services.
- 3. Download **Discovery2016.1.3Setup.exe** to a folder on your hard drive.
- 4. Right-click **Discovery2016.1.3Setup.exe**, and then select **Run as Administrator** from the context menu.

¹ Powered by FracGeo

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Uninstall Instructions

To uninstall:

- 1. Open the **Programs and Features** applet by selecting **Start > Control Panel > Programs and Features**.
- 2. Click View Installed Updates on the left panel of the Programs and Features applet.
- 3. Select Discovery 2016.1.3.
- 4. Right-click, and then select **Uninstall** to remove the service pack.

Files Updated

SeisVision.exe

Note: To view the file version, right-click the file, and select the **Properties** option from the shortcut menu. The **Properties** dialog displays. Select the **Details** tab.

DISCLAIMER

If you have any questions or encounter any problems, please visit the LMKR Support website: http://support.lmkr.com

Or, contact Customer Support in your region. Refer to the section Contacting LMKR for details.

Contacting LMKR

Our new dedicated system is accessible via local call-in numbers* and is an alternative way for you to submit a technical support case and/or speak directly with a GeoGraphix Support Analyst.

*Contact Us:

North & South America

Toll Free (US/Canada): + 1 855 GGX LMKR (449 5657) Colombia: +57 1381 4908 United States: +1 303 295 0020 Canada: +1 587 233 4004

Europe, Middle East & Africa

UAE: +971 4 3727 999

Asia Pacific & Australian Continent Malaysia: +60 32 300 8777

Southwest Asian countries

Pakistan: +92 51 209 7400

Support via Web Portal

You can also submit a support request directly to LMKR Customer Support by registering a case through the LMKR Customer Support Portal: <u>http://support.lmkr.com</u>

To request support in the LMKR Customer Support Portal:

- 1. In the main support page, **login** using your registered email and password. Please register your email before you access the site.
- 2. Select the Case Management tab or use the Manage Cases link on the main support page.
- 3. In the Case Management tab, click the Create a New Case link.
- 4. In the **Create Case** page, fill in the necessary information. Provide details about your technical concern, including any error messages, the workflow steps where the problem occurred, and attach screenshot that display the problem. You can also attach other files, such as example data files, which may help understanding the issue
- 5. Click the **Create Case** button. A support analyst in the nearest Technical Assistance Center will respond to your request.

We will ensure a quick and satisfactory answer to your query. If the problem cannot be resolved over the phone at the regional level, an escalation team will take over the resolution of your support case and will get back to you without delay.

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