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General Information

Date	**March 28, 2022**
Products	**GVERSE® Petrophysics, GVERSE® Geophysics, GVERSE® Geomodeling, GeoAtlas, WellBase, QueryBuilder, XSection, WellXchangePlus, ProjectExplorer, DepthRegistration**
Version	**2019.4 Service Pack 4 for GeoGraphix®**
Build Number	**19.4.19879.0**
ECCN	**This GeoGraphix service pack is exported under license exception TSU**
Platform	**Windows® 7 or 10, 64-bit**
Prerequisite Updates	**GeoGraphix 2019.4.3 must be installed**
Supersedes Version	**None**
Compatible Releases	**2019.4.3**
Checksum for .exe (MD5)	**c3da4cf83498b6549e2d9d1b4404a649 Discovery2019.4.4setup.exe**

What's in this Release?

This service pack includes new features, bug fixes and enhancements. The Fixed Issues section highlights the customer reported bugs fixed in this service pack.

Service Pack Dependencies

GeoGraphix 2019.4.3 must be installed prior to the installation of this service pack. Discovery on OpenWorks (DOW) is partially supported for this service pack, and may not work for all the workflows.

New Features

GVERSE Geophysics

Digitize Navigation Information

Navigation information for 2D seismic lines can be digitized directly from images. Images can also be georeferenced within the workflow using the **GVERSE Geophysics Main Map View (MMV)**. Once the image is georeferenced, it can be used to digitize shot points for 2D lines which are then exported to a **SEG P1** file.

GVERSE Petrophysics

Post Well Treatment Data on PRT Template

Well Treatment data from **IP** table of **WellBase** can now be posted on the log template to view treatment information from the appropriate data source.

Updated UI to Support Longer Curve Names

Certain dialog boxes have been redesigned to accommodate for longer curve names.

XSection

Line of Section at Bottom Hole Location for Deviated Wells

The line of section can now be positioned at bottom hole locations for deviated wells in **XSection** layers, which can be displayed in any compatible application.

Viewing Remarks on Cross Sections

You can now view remarks from Formation table in **WellBase** on **XSection** cross sections.

WellBase

Remarks and Qualifier Fields Added

Remarks and **Qualifier** fields for **ZoneManager Zone** attributes have been added to the **Zones** tab. These attributes can be posted on a new or existing **WellBase** layer. This data can also be included when the **Excel Pivot report** is generated for zone data. You can also import this data using the **Excel Spreadsheet Importer**.

Protecting Data in Grid View

You can now protect multiple fields or columns for one or more wells in **Grid View** with complete ease.

Row Change Date Column Added

A **Row Change Date** column has been added to the **Formations** tab which keeps track of record creation/edits by different users.

Improved Well Trajectories

The accuracy of well trajectories has been improved by increasing the decimal precision to 6 digits for latitude/longitude. This allows users to work with greater accuracy for well trajectories.

GeoAtlas

Node Decimation Tool

A new feature has been introduced which allows you to decimate contour/polygon nodes, resulting in easier editing for these objects.

Displaying Desired Data Point Labels on IsoMap Layer

You now have control over the data point labels (**Elevation** and/or **Source**) that you want to display on the **IsoMap** layer.

QueryBuilder

Updated ZoneManager Attributes

Remarks and **Qualifier** fields have been added to the **Zone Data** table. Filters can now be applied on the basis of these new **ZoneManager** attributes.

WellXchangePlus

Transferring ZoneManager Attributes

Remarks and **Qualifier** attributes have been added, which can be transferred for all **GXDB** to **GXDB** projects using **WellXchangePlus**.

Fixed Issues

GVERSE Geophysics

ID	Fix Description
230062	When a new horizon was created, **Rainbow** color palette was assigned to it instead of the default color palette. This issue has been fixed.
230073	In certain scenarios, scrolling arblines caused the application to crash due to a memory leak issue. This issue has been fixed.

WellBase

ID	Fix Description
150787	The **Batch Proposed Survey** calculation was not honoring any filters that were applied. This issue has been fixed.
224565	The users were unable to edit a well that had picks from other users. This issue has been fixed.
228463	The **Delete Data – Formations** option has been renamed to **Delete Data – Formation Tops**. The former name implied that formation names were being deleted from the **Strat Column Manager (SCM)** which was not the case. Using this option deletes the formation tops from SCM, not the formation names.
229244	The accuracy of well trajectories has been improved by increasing the decimal precision to 6 digits for latitude/longitude. This allows users to work with greater accuracy for well trajectories.
229245	The **Calc All Zones** option in the **Edit Zones and Zone Attributes** dialog boxes used to calculate all zones and attributes, including the ones hidden or filtered by the user. The issue has been fixed and now the user's active zone filter is honored.
230177	In some cases, importing data from the **Spreadsheet Importer** resulted in an error and empty log file. There was an issue with the macro which has been fixed.
230396	Reopening a resized **Strat Column Manager (SCM)** dialog box did not preserve the previously set state and reverted to the default size. This issue has been fixed.
230425	In certain scenarios, data was not imported using the **Spreadsheet Importer** because some private picks were saved in different alphabetical case. This issue has been fixed.

GeoAtlas

ID	Fix Description
230313	The **Zone Attributes** dialog box when accessed from **WellBase Layer Create** dialog box has been resized on the request of a customer.
231311	In certain cases, creating/updating layers without selecting the **Hyperlink** check box still allocated memory for hyperlinks in the **.dbf** file. This issue has been fixed.

GVERSE Geomodeling

ID	Fix Description
230285	The **Calculate Well(s) in Zone** option used to ignore calculations for previous zones. This issue has been fixed and now the calculations include sum of all zone data for the well.

XSection

ID	Fix Description
228351	When **GVERSE Petrophysics** template (**.prt**) was applied on **XSection** cross sections and downhole posted data was displayed, scrolling the mouse vertically caused a rendering issue which posted duplicate data. This issue has been fixed.
228819	Longer **IsoMap** layer and **XSection** cross section names were truncated in different dialog boxes. This issue has been fixed by resizing the relevant dialog boxes.

DepthRegistration

ID	Fix Description
231346	If **Top** and **Base** depth lines were incorrectly defined in the input **XML** file, depth registered data was not imported properly and the depth registered images were not displayed in **GVERSE Petrophysics**, **GVERSE Geomodeling**, or **XSection** cross sections. The issue has been fixed.

ProjectExplorer

ID	Fix Description
231036	In certain scenarios, newly created layers did not appear in **ProjectExplorer** and other **GeoGraphix/GVERSE** applications. This issue has been fixed.
231832	In some cases, the **GeoGraphix Geosync** service stopped working if one of the broadcasting servers were unreachable. The issue has been fixed and now the service skips the unreachable server and moves on to the next servers in the list.

Architecture

ID	Fix Description
10948	In certain network scenarios, simultaneous requests from multiple client machines to connect to the server timed out and some clients were unable to connect to the server. This issue has been fixed and now the server automatically detects the timed out client requests and connects them.
17805	In certain scenarios, clients that had lost their connections to the server remained in the list of clients that were connected to the server. This issue has been fixed by adding a **Remove** button to remove such clients from the list. The **Refresh** button may also be clicked to manually rebroadcast the service and allow disconnected clients to get reconnected to the server. These buttons are in **ProjectManager** which can be accessed from the system tray.

Install Instructions

To install:

1. **GeoGraphix 2019.4.3** must be installed.
2. Shutdown all **GeoGraphix 2019.4.3** applications and services.
3. Download **Discovery2019.4.4Setup.exe** to a folder on your hard drive.
4. Right-click **Discovery2019.4.4Setup.exe**, and then select **Run as Administrator** from the context menu.

Uninstall Instructions

To uninstall the GeoGraphix service pack:

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 2019.4.4**.
4. Right-click and select **Uninstall** from the context menu to remove the service pack.

DISCLAIMER

If you have any questions or encounter any problems, please visit the **GVERSE GeoGraphix website**:
http://gverse.com/
Or, contact Customer Support in your region. Refer to the **Contacting LMKR** section 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)
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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 **GVERSE GeoGraphix Customer Support Portal**: https://gverse.com/support

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.