INTViewer 2023

Features and Architecture Overview

INTVIEWER 5.4 2023.1

CLIENT APPLICATION **PRIVATE PLUGINS PUBLIC PLUGINS** INTVIEWER **NETBEANS PLATFORM**

INTViewer Architecture

Interactive Visualization

Navigation **Features**

Immediate visualization with no project setup

Synchronization between views

Support for multiple screens/windows

Launch several

instances side by side Visual navigation

through data Variable Trace Spacing

(distance or position) Overlay multiple

datasets in one view Overlay seismic with

different steps

Keymaps, shortcuts Click, drag and drop, menus, dialogs,

wizards, flexible window system

Interactive visualization manipulation (pointing, clicking, selecting, dragging, dropping) Create personalized profiles for views Undo/redo Remembers paths

Has color maps ready to use

Session management (user defined, save & restore live sessions)

Sharing capabilities for user saved sessions

Print capabilities (CGM, PDF, Image Export)

Live Presentation/ Slideshow

Slideshow capabilities to combine PPT with live visualization

Export to Excel

Formatted export to Microsoft Office (through Python scripting)

Export to Google Earth Sessions

Lattice Decimation Screen captures

Animation (movies)

Adapts to showrooms Dynamic annotations

Types of Visualization

Geoscience

Seismic (2D lines, 3D volumes, gathers)

Horizon

Pointsets

WellLog Microseismic

Faults

GOCAD VTK

Grid Surface

GIS (shape files) Reservoir

3D Views

Display seismic, inline, crossline, time slice, arbitruary line

Display Horizons

Display reservoir Display Well Trajectory

Switch between free camera and follow cursor mode

Display cylinder log Clipping

Мар

Support for Web Map Tile Service (WMTS): Google, Bing, OpenStreetView...

Support user-defined WMS server (via RemoteMap plugin)

On-the-fly conversions between CRS

Create RMS maps

Automatic detection of corner point geometries (seismic, horizon)

Coordinates conversion tool

GIGS compliant

Export to Google Map format: KMZ/KML

Import from and Export to GeoTIFF (via plugin)

Measure areas

Display Time slices Display seismic lines

Display wellhead location

More Than 65 Plug-Ins

Mineral Rights

Slideshow

SSH: connect to a python terminal using a SSH client

Comments

Gradient Curve

Stacked Curve

Stacked Fills

Log Bar

Casing markers

Images

Horizon Attribute Extraction

Remote Map (including

customer-defined WMS servers)

OpenVDS 3.3.0 GigaReservoir

MatlabCore

ZGY Data Python Filter

Space Mouse Adapter Lattice Decimation

Reservoir

Text

Signal-to-Noise Analysis

AngleField Seismic Workbench

Velocity Measurement Saddleback

Microseismic

Log2D visual

Seismic visual

AND MANY MORE ...

Data Analysis and QC

Data Management

Convert files from one format to another

Save subsets to disk (by range, polygonal area, or abitrary traverse)

Supports many is oi iridustry formats

Supports local and remote data

Supports very large datasets (Petabytes) Data editing: Add

missing traces, remove empty traces, resample

Access numeric data (trace samples, trace headers, log curves). Includes export to CSV

Access EBCDIC header, binary header

Normalize data, move headers, change

sample formats, change EBCDIC header, etc.

Calculate well trajectories from log cur ves

Analysis

Spectrum FK, FT, FX

Cross-Plot: includes trends, linear and logarithmic, histograms, dynamic filterina

Signal noise ratios

AngleField

Calculator (Seismic and horizon) Histograms (can export

Playback microseismic

acquisition Mutes

Interpretation

Horizon Picking and Editing (merge) Fault Picking Attribute Extraction 4D

Velocity Measurement

Extended Well

Well format allowing heterogeneous Z colums for log curves

Well meta data and log curve edition Time/Depth conversion

for curves and markers Import/Export with LAS format

Processing

SU Library Many Integration built-in processors

Extensible Platform

Works on any OS

Easy to install Multiple enterprise deployment options (local, shared, mixed)

Multiple licensing options (machine, user, shared)

UI can be customized to fit in-house workflows

Can be customized to fit custom file formats Can be customized to include your proprietary algorithms

Automate workflow with Python (Python editor agnostic)

AutoCompletion in Python Terminal Seamless integration

with NetBeans IDE Includes both highlevel and low-level API

API, developer documentation for both Python and Java

Documented

Platform

Online updates (can be disabled)

Marketplace to sell your science as plugin Geoscience plugins

User documentation

from other vendors White label / Branding support to build your specialized application

Lithology Support Integration

Extended Well Data Works with J/Geotoolkit (3.10 Release)

Licensing Management

Flexible license manager

UI to control token borrowing (plugin available in the update center)

Integration with Other Systems

Seismic UNIX Petrel Seismic Files (ZGY)

DecisionSpace projects Remote Control from other systems

Part of INTGeo ecosystem (IVAAP)

Multiple picking options, including auto

picking **INTGeoServer**

