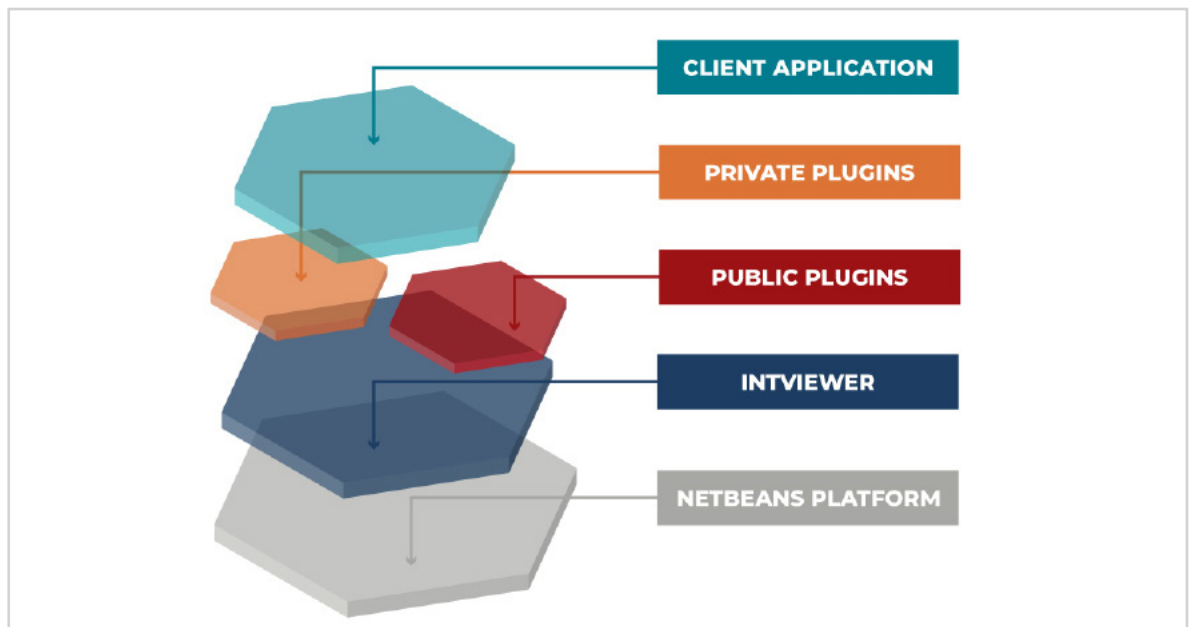


INTViewer 2023

Features and Architecture Overview

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, arbitrary line
- Display Horizons
- Display reservoir
- Display Well Trajectory
- Switch between free camera and follow cursor mode
- Display cylinder log
- Clipping

Map

- 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	ZGY Data
Slideshow	Python Filter
SSH: connect to a python terminal using a SSH client	Space Mouse Adapter
Comments	Lattice Decimation
Gradient Curve	Reservoir
Stacked Curve	Text
Stacked Fills	Signal-to-Noise Analysis
Log Bar	AngleField
Casing markers	Seismic Workbench
Images	Velocity Measurement
Horizon Attribute Extraction	Saddleback
Remote Map (including customer-defined WMS servers)	Microseismic
OpenVDS	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 arbitrary traverse)
- Supports many variations of industry 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 curves

Analysis

- Spectrum
- FK, FT, FX
- Cross-Plot: includes trends, linear and logarithmic, histograms, dynamic filtering
- Signal noise ratios
- AngleField
- Calculator (Seismic and horizon)
- Histograms (can export outliers)
- Playback microseismic acquisition
- Mutes

Interpretation

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

Extended Well

- Well format allowing heterogeneous Z columns 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 Integration
- Many built-in processors

Platform

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 high-level and low-level API
- Documented API, developer documentation for both Python and Java

- Online updates (can be disabled)
- User documentation
- Marketplace to sell your science as plugin
- Geoscience plugins from other vendors
- White label / Branding support to build your specialized application

- 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

Licensing Management

- Flexible license manager
- UI to control token borrowing (plugin available in the update center)