OpenSpirit Web Solutions

Clay Harter
OpenSpirit Technical Symposium
Houston 2010

OpenSpirit right from the start

OpenSpirit Tools

right from the start

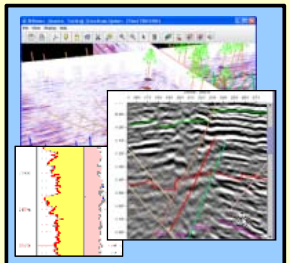
OpenSpirit

Desktop Applications

Copy Manager

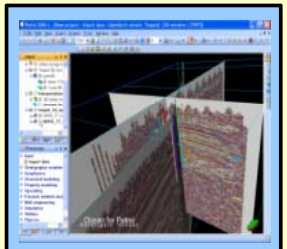
Excel Adapter

LoadIT WITSML



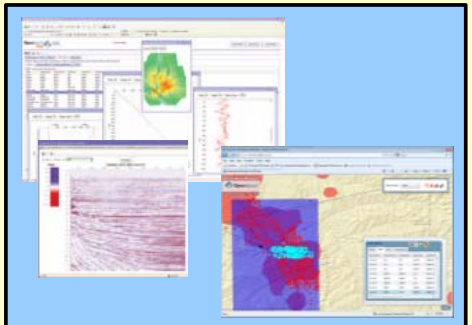
Data Selector
Desktop Viewers

Scan Utility
ArcGIS Extension
Google Earth
ArcGIS Explorer
ArcGIS Server



OPAA
(Petrel plug in)
Plus adapters from other ISVs

Web Applications



Data Selector
Web Viewers
ArcGIS Server Integration

Data Management

GIS Integration

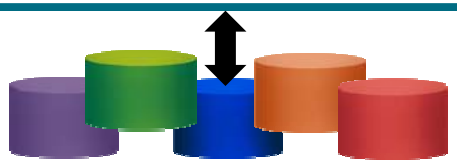
Application Integration

This talk

Web Integration

OpenSpirit **Integration Framework**

Corporate and Project Data Stores

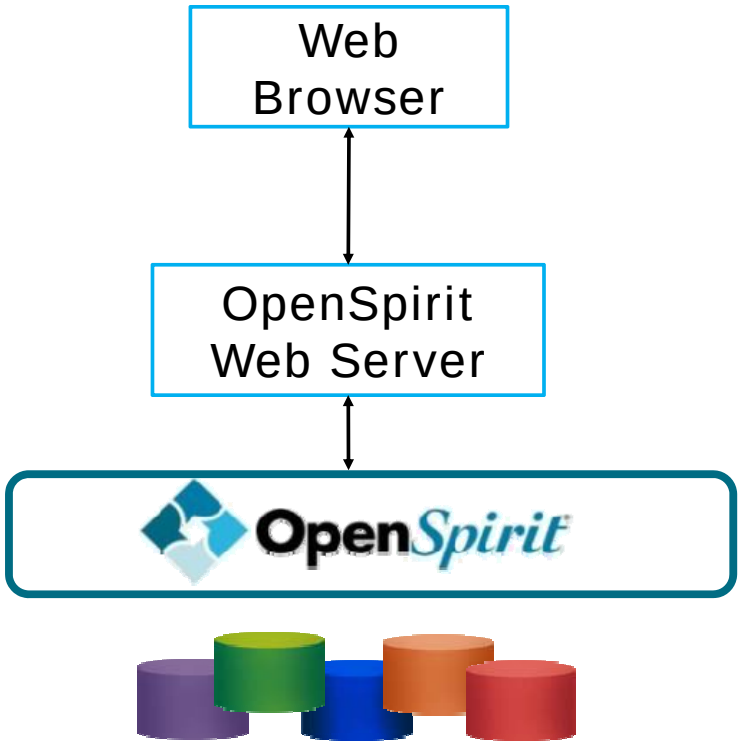


OpenSpirit

OpenSpirit in a Web Environment - Options

- Use shrink wrapped OpenSpirit web server and client
- Use OpenSpirit Web Server services with your own web client
- Build your own web services – J2EE or ASP.NET

OpenSpirit Web Options – 1
Use Shrink Wrap Web Server Product



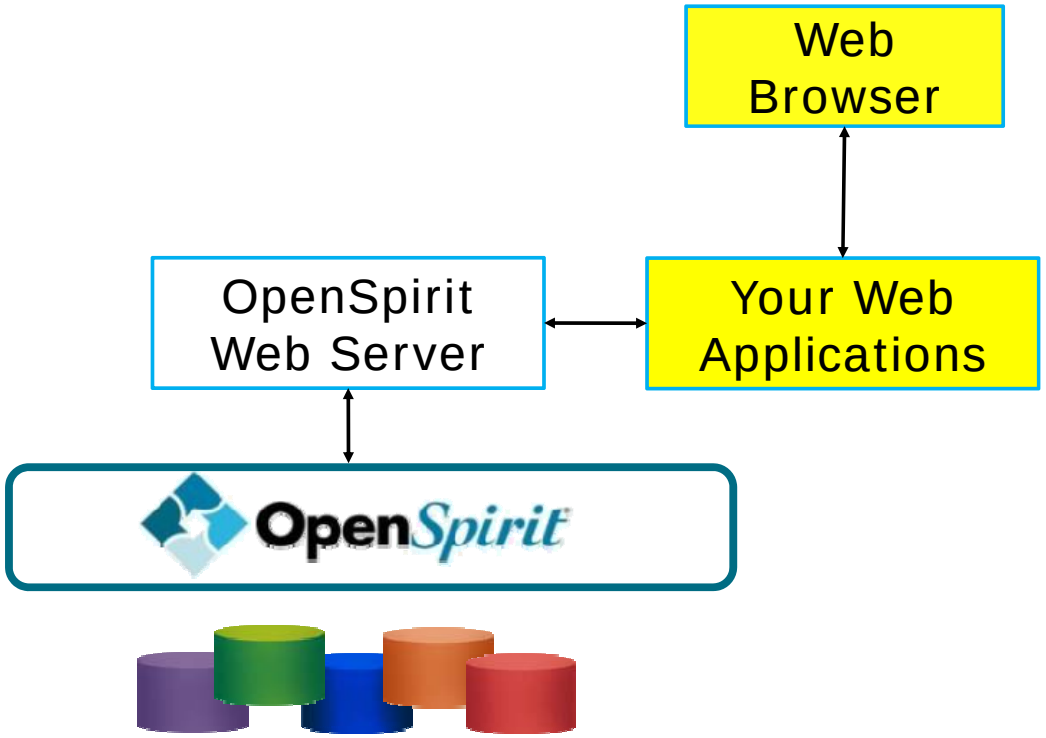
- Browse data in table form
- Plot wellbore, log, checkshot, horizon grid, or 2D/3D seismic data
- Display selected data in Google Earth or ArcGIS explorer
- Display selected data in Excel
- Send data selection events

Live Demo

right from the start

OpenSpirit

OpenSpirit Web Options – 2
Use Web Server in Custom Web Application



Leverage OpenSpirit REST-style Web services

REST Services

- **Login** (to identify user to limit data access or scope events)
- **Query** (read only – any OpenSpirit object from selected projects)
- **Plot** (wellbore, log, checkshot, horizon grid, 2D/3D seismic)
- **Report** (simple details of well, 2D line, 3D survey)
- **Send data selections**

Examples of using REST Web Services

- List available projects

http://wren:8081/WebOsp/servlet/ProjectTreeJson

- List well header info for a given project

http://wren:8081/WebOsp/servlet/TableQueryJson?projectIdsString=TEAPOTDOME_SMALL:ow_Onshore:OpenWorks_R5000&attributesString=name,identifier,totaldepth&tableName=EpiWell_WellBore&parentColumnName

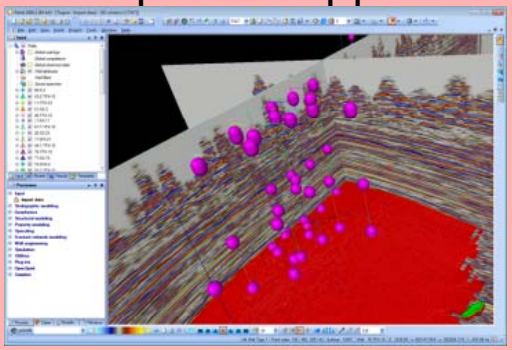
- Plot selected seismic volume

http://wren:8080/WebOsp/servlet/PlotServlet?dataKeys=%3Ckey%20en%3D%22EpiSeismic_PostStack3d%22%20mv%3D%222.9%22%20dn%3D%22ow_Onshore%22%20tn%3D%22OpenWorks%22%20tv%3D%22R5000%22%20pn%3D%22TEAPOTDOME_SMALL%22%3E%3Cse%20n%3D%22gdiSeismicDataSet_t%22%20id%3D%221%22/%3E%3Ca%20n%3D%22seismic_data_set_id%22%20ei%3D%221%22%3E4%3C/a%3E%3C/key%3E

Web-Based GIS Integration

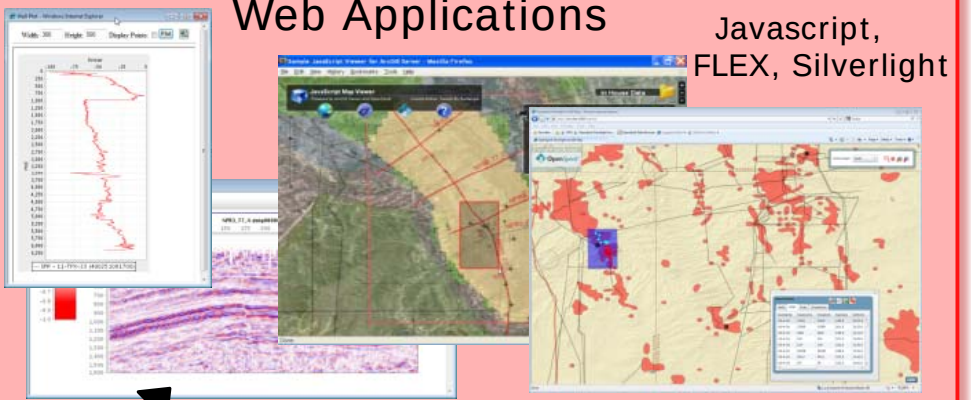
right from the start

Desktop G&G Applications



Web Applications

Javascript, FLEX, Silverlight



Read/write data

Send/receive interaction events

REST API

View data, send data & GIS selection events

REST API

or WebADF

OpenSpirit Integration Framework

ArcGIS Server 9.3+

Finder
PPDM
Managed SEGY
Recall
EPOS (Geolog)
Seabed

OpenWorks
GeoFrame
Kingdom
Petra
SDE

SDE

FGDB

Shape files

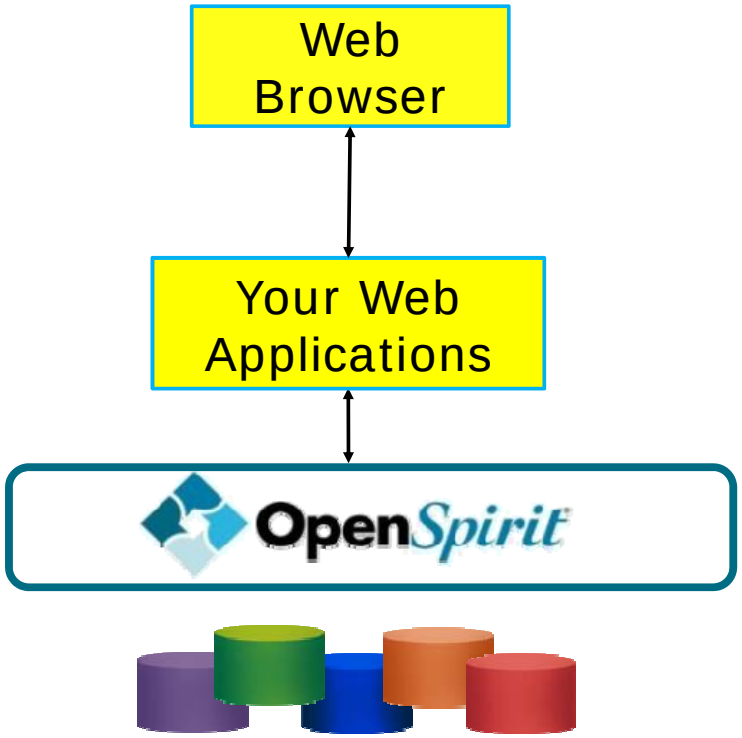
OpenSpirit

Live Demo

right from the start

OpenSpirit

OpenSpirit Web Options – 3
Use Dev Kit in Custom Web Application



- Leverage OpenSpirit Data, Event, Metamodel, Carto, and Unit services in your own J2EE or ASP.NET Web application
- Interact with OpenSpirit- enabled desktop applications

Summary

OpenSpirit may be readily used in a Web environment

- Use OpenSpirit Web server by itself as a simple tool for browsing data

  -or-

- Use the OpenSpirit REST Web services to easily integrate in your own web application

  -or-

- Use the OpenSpirit Java or .NET dev kit in your own Web application

Web Version of Next Gen Desktop?

Is there a customer demand?

Possible uses:

- Browse data without needing local installation
- Support OpenSpirit (use admin tools)
- Manage and run Copy jobs
- Manage and run Scan Jobs

Initial prototype is done – is there a justification to commercialize it?

Clay Harter
clay.harter@openspirit.com
+1 281 295 1400

OpenSpirit
right from the start