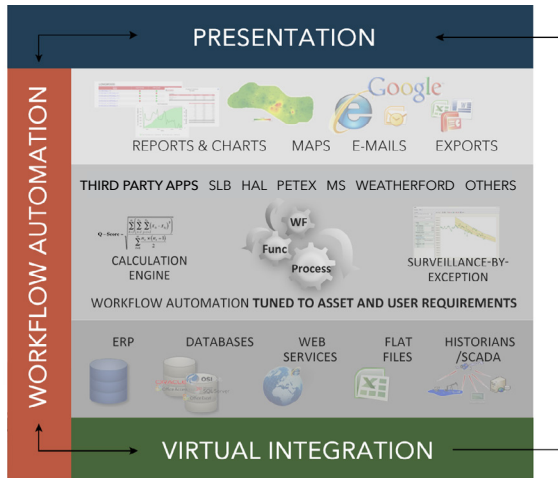


TECHNOLOGY



The One Virtual Source® framework architecture consists of three layers: virtual integration, workflow analytics and automation, and presentation. The virtual integration layer uses live data connections to link historians, ERPs, and other data sources together for interaction in the workflow automation and presentation layers. The workflow automation layer provides a complete design and run-time environment for the capture of analytics and workflow processes. Finally, the presentation layer displays the live output of the virtual integration and workflow layers in easy-to-use reports, charts, maps, and other visualization tools. This flexible architecture allows the OVS framework to be scaled to virtually any type of producing field and provides configurable solutions tuned to asset and user requirements.

One Virtual Source components reflect the distinctive features of the framework and identify areas of E&P integration through workflow automation, application integration, surveillance, and data integration. One Virtual Source impacts clients of all sizes, ranging from global super majors to independent resource holders alike. Built on the .NET 4.0 framework, the flexibility and connectivity of OneVirtual Source ensure solutions configured to your business and engineering needs.

COMPONENTS

ENGINEERING WORKFLOW AUTOMATION

GLO/Plunger Lift/Rod Pump/ESP/PCP
Cyclic Steam Optimization
DCA vs. Production Actuals
Lease Expiration

VENDOR NEUTRAL APPLICATION INTEGRATION

Prosper/PIPESIM	Fekete/Saphir
Mbal	Pipesim
Gap	Olga
Eclipse/CMG	OFM
WellView	PEEP/Aries

ANALYTICS, SURVEILLANCE BY EXCEPTION™ & OPTIMIZATION

Wellbore Review Tool
Mapping (Contour, Bubble...)
Cross Plots, Gauges, Graphs, Tables...
Well Sketch, Log Curves
ESRI, Google Maps...

VIRTUAL DATA INTEGRATION & VISUALIZATION

Historians	ODBC
Oracle	OPC
Open Works	Web Services
SQL	Scada
Excel	Native Providers

CONNECTIVITY

INDUSTRY DATABASE SUPPORT

Avocet
OFM
Aries
DIMS
Excalibur
Rimbase
Energy
Components
FINDER
Decide
Peep
WellView
Procount
PPDM DB
P2 Energy
PDMS
SAP
OpenWorks
OpenWells

Text Files
UriCsv
UriXls
UriXml
Writsml
Aclaro
Volts
Quorum
Historians
OSIsoft PI
Active Factory
OPCDA
OPCHDA
Yokogawa
Lowis
IP2I
Honeywell
Cygnet

DATA PROTOCOLS & APP INTEGRATION

Data
TCP/IP
Web services
XML
SQL
OPC
SCADA
Native providers
Applications
DLLs
DCOM
API
WORKFLOWS
.NET
Application integration
-Third Party
-In-House

VISUALIZATION & REPORTING

"Wizard"
HTML
Charts
Maps
Gauges
Tables
Grids
Wellbore schematic
PPT
WORD
EXCEL