



# Rolta OneView™

Enterprise Intelligence Suite



*Big Data Brings Operational  
Efficiency Closer to Home*

# Using Big Data to Meet Big Business Goals

Even though falling prices in the oil and gas sector are compelling companies to approach the near future with caution, cutting back on a strategic investment in Big Data Analytics is not considered the best course of action. Now more than ever, efforts to drive business efficiencies are Job One. Oil & gas as well as other asset-intensive operations are seeking ways to leverage Big Data to reduce non-productive time and impact the bottom line.

Data-driven optimization found through the integration of operational data across planning silos and the implementation of predictive analytics will help ensure short-term operational effectiveness and long-term competitiveness. In a recent Gartner report entitled "How Forward Thinking Oil and Gas CIOs Should Approach Price Declines," the necessity of strategic investments is underlined:

*"The current low-price scenario is unlike prior ones because digital technologies are enabling the optimization of business performance, which is increasing the ability of firms to compete at lower price levels. In this downturn, the ability of an upstream company to continue making strategic investments that improve its ability to compete may be an essential survival skill. [...] Indeed the capability to use advanced analytics to reduce operating costs and increase production rates faster than competitors may be an essential survival skill."*



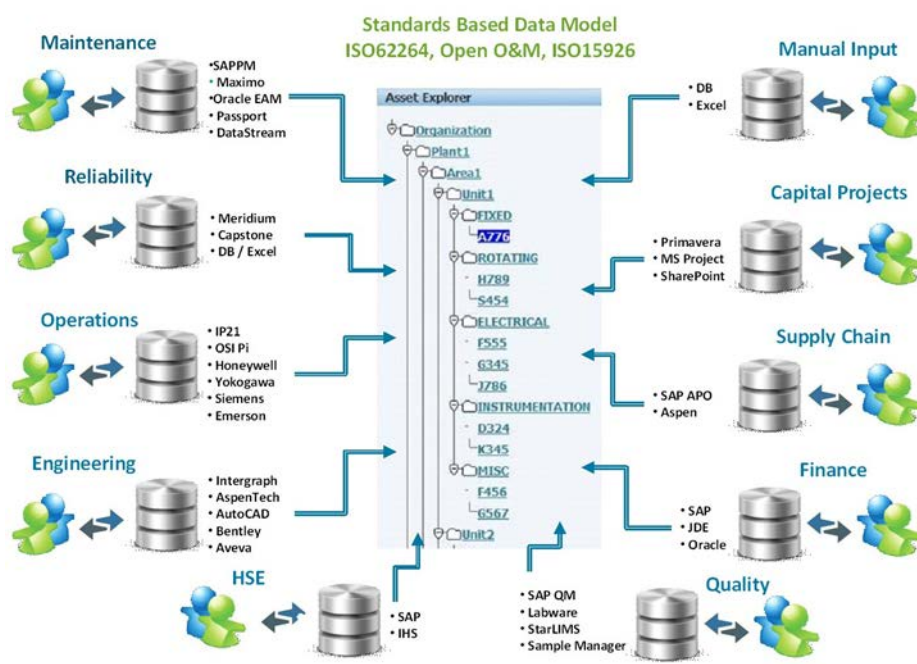
Now that the strategic importance of analytics to oil and gas companies has been attested to, what is required to start integrating operational data and start delivering value through technologies that can model, simulate and predict business performance? Enter predictive analytics, dashboarding and balanced scorecards. It may be helpful to think of these elements as legs in a journey, each of these building on each other. The prerequisite before the journey can begin is clean and consolidated data.

The first stop in the journey then is data integration across organizational silos. This means identifying data sources and creating data extract, transform and load processes to clean up the data. An integrated approach is important. Getting all the parts to communicate with each other is the first challenge.



# Synthesize Complex Data to Identify Risks to Production

Companies must not only connect things, such as real-time information about operations, functions and assets, but also connect field workers with other field workers as well as the various levels of management. Analytics fits squarely within the age of the industrial Internet, where transparency and data are used to de-risk operations and encourage collaboration across functions.



Rolta uses its Connector Framework for data integration and ETLs.

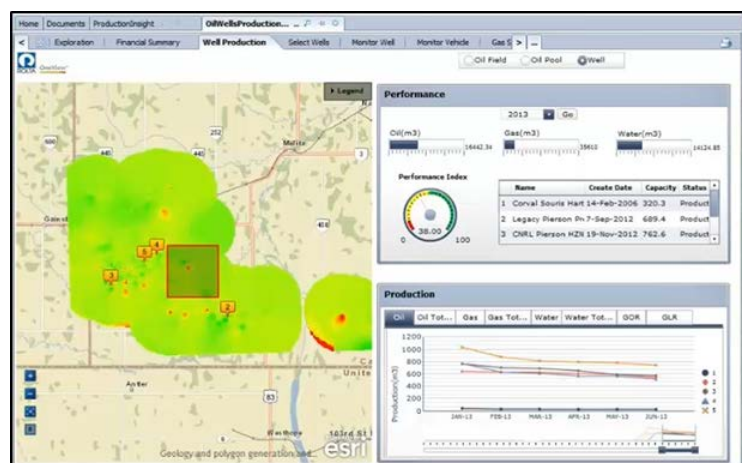
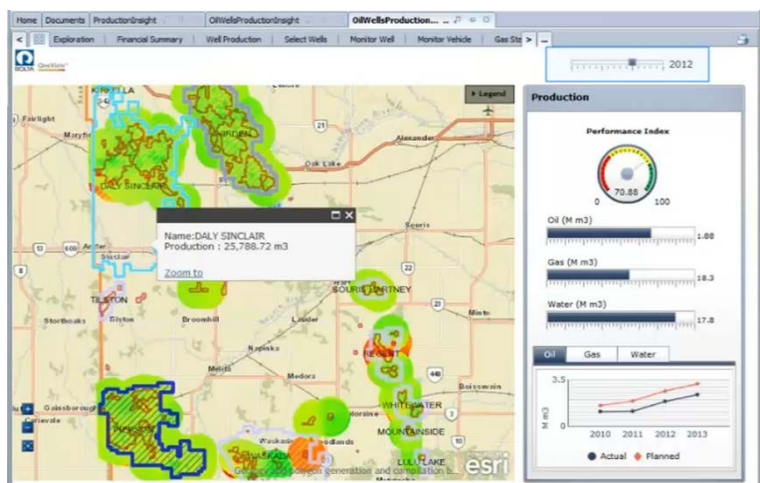
Success in any organization requires that executives determine the strategic goals of the company and define the cross-functional key performance indicators (KPIs) required to achieve them. This is the primary exercise in dashboarding and building balanced scorecards, where it is determined what information must be presented on a series of dashboard views to support data analysis and decision making. The raw material of KPIs of course is the data required to compute them; for example, how events are processed, and threshold limit values determined. Work flows can also be derived from real-time event data. For example, if a threshold limit is breached, an alert can be raised and emailed to those in charge.

The destination we want to reach is predictive analytics. It plays an important role in driving optimization of business performance. Once dashboarding has been mastered and the balanced scorecard approach understood, predictive analytics can be implemented. To be truly effective, a sizable body of data must be available for analysis. Information from disparate sources across the enterprise must be gathered together. It is often seen as a big infrastructure challenge to gather siloed data, but new technologies like Rolta OneView overcome integration issues that otherwise thwart successful operational analytics.

# Rolta OneView™ Predicts Future Performance Based on Historical Results

Key to predictive analytics is developing a model as a base for pattern recognition algorithms. Predictive analytics must be available in real time. Systems must be put in place that monitor production and other key metrics across the organization and that are able to issue alerts when performance is predicted to fall below set benchmarks.

Following are just a few examples of insights available from Rolta OneView for Oil & Gas. Other metrics and KPIs are available for other industry segments.



- View oil production trends geographically to determine geographic correlations to downturns in production levels.
- See oil fields color-coded by production levels. See where new wells have been drilled to understand trends. Having recently drilled wells close to a new site can significantly reduce the cost of getting equipment to the site.
- A heat map depicts the best and worst performing regions. You can drill down into areas to identify issues affecting well production.
- Utilize GPS on transportation vehicles so that dispatchers can notify well site managers when equipment is nearby. As vehicles approach a site, an alert notifies the field to prepare for its arrival.
- Best and worst actors and critical components at risk are some of the results that come from predictive analytics that can be used to drive optimization. Insights enable you to shift assets to more productive areas, improve oil recovery rates and provide self-service business intelligence throughout the enterprise.

# Rolta OneView™ Shows What Works, What Doesn't and What Soon Won't

A sampling of Rolta OneView Performance Measures

Verticals	Count of Performance Measures	For Executives	For Heads of Departments	For Operations
<b>Refineries</b>	<b>230</b>	<b>53</b>	<b>222</b>	<b>221</b>
Asset Insights	15	2	12	15
Business Insights	34	12	33	26
HSE Insights	48	7	46	48
Maintenance & Reliability Insights	37	9	36	37
Operations Insights	33	16	33	33
Project insights	11	2	11	11
Supply Chain Insights	27	2	26	27
Sustainability Insights	25	3	25	24
<b>Chemicals</b>	<b>575</b>	<b>104</b>	<b>575</b>	<b>392</b>
<b>Petrochemicals</b>	<b>578</b>	<b>105</b>	<b>577</b>	<b>396</b>
<b>Power Generation</b>	<b>389</b>	<b>29</b>	<b>389</b>	<b>389</b>
<b>Utilities - Electricity</b>	<b>436</b>	<b>59</b>	<b>436</b>	<b>436</b>
<b>Utilities - Water</b>	<b>426</b>	<b>69</b>	<b>426</b>	<b>426</b>
<b>Oil &amp; Gas Upstream</b>	<b>321</b>	<b>27</b>	<b>68</b>	<b>312</b>
<b>Grand Total</b>	<b>2955</b>	<b>446</b>	<b>2693</b>	<b>2572</b>

Rolta OneView delivers executives a precise yet holistic view of an operation's overall effectiveness and efficiency, along with the tactical data managers need to achieve improvements. Information compiled from disparate systems across the enterprise and presented in dashboard view immediately uncovers critical process, production and asset situations that, without immediate attention, can cause huge production losses and unsafe conditions. It allows executives to quickly understand what is working, what isn't, what soon may not, and to consider "what if" scenarios. Location visualization further enhances operational levels of understanding, showing where assets and issues are situated.



# Rolta OneView delivers a precise yet holistic view of an operation's overall effectiveness

## *Fast Facts about Rolta*

- SAP Global Solutions Partner
- SAP Strategic OEM
- Established public company founded 26 years ago
- Global company with projects in more than 40 countries
- More than 3,500 employees and growing
- Annual revenue of \$600 MM
- Forbes Global 200 Best Companies—4 times in 6 years

## *About Rolta*

Rolta, a global SAP partner, is a strategic original equipment manufacturer (OEM) vendor, integrating its numerous industry solutions with platform technology from SAP. Rolta is the 2014 SAP® Pinnacle Award recipient for OEM Partner of the Year, recognized out of 21,000 partners for the most strategic level of innovation and the fastest new product introductions.

Rolta provides customers with cutting-edge solutions that exploit the power of SAP technology by combining Rolta's products with the technology portfolio offered by SAP. Enterprise-level solutions are built around Rolta's intellectual property and domain expertise to offer deep insights and understanding of industry drivers and supporting business processes that help organizations achieve their business goals.

Rolta is very excited to offer our Rolta OneView capabilities. If you have any questions or would like further information, please call us or email us at any time.

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