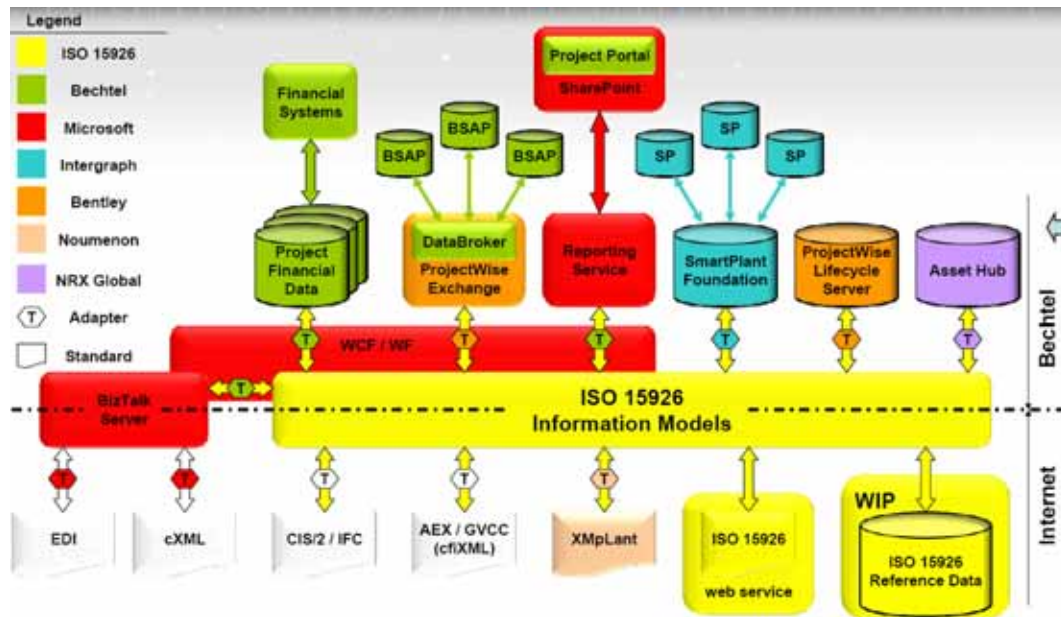


**POSC/Caesar Association
Stavanger, April 2008**



Bechtel's vision of an ISO 15926-based information architecture¹.

This report stems from our attendance at the 2008 'Semantic Days' POSC/Caesar Association (PCA) conference – along with presentations made to the May 2008 OLF Integrated Operations conference. We have concatenated, edited and re-arranged presentations in what we hope offers both an introduction to the business drivers and the underlying technology of Norway's push to integrated operations in the high north, increasing automation and what amounts to a daring bet on the ISO 15926 standard and the World Wide Web Consortium's (W3C) 'semantic' technologies – the web ontology language OWL and the resource description framework (RDF).

As Norway's operations move to more hostile environments with drilling and production taking place hundreds of kilometers from control centers, there is a compelling business case for automation. This in turn mandates systems interoperability which for Norway's OLF trade body means alignment with the ISO 15926 suite of standards for 'Industrial automation systems and integration—Integration of life-cycle data for process plants including oil and gas production facilities.'

We start this report with three presentations on StatoilHydro's 'Global Operations Data Integration' (GODI) and IT infrastructure for interoperability. This is followed by presentations on semantic web technology. We then move over to integrated operations and pilot projects – both in Norway and elsewhere (Petronas). This report winds up with semantic technology applications from other verticals – aerospace, defense and search. Presentations from the 2008 Semantic Days conference are available at <http://www.posccaesar.org/en-GB/PortalObject/3102/POSCCaesar.aspx>, and from the May 2008 OLF Integrated Operations conference on <http://www.olf.no/aktuelt/vel-gjennomfoert-io-konferanse-article1738-223.html>. Another Integrated Operations conference is scheduled for the 21st-22nd October in Trondheim, Norway (<http://www.ioconf.no/english/about>). Next year's Semantic Days are scheduled for 18-20 May 2009 at the Clarion Hotel, Stavanger.

¹ Image courtesy Bechtel.

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[OLF’s Information Strategy – Thore Langeland, OLF](#) (EXPRESS to RDF/OWL)

[IT Architecture for Integrated Operations](#) (Oil and Gas Ontology)

[PCA Modeling methodology and technology group](#) (Ontology, Protégé)

[Semantic technologies and automated drilling](#) (SA-WSDL)

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