IBM Chemical and Petroleum Integrated Information Framework helps customers achieve integrated operations and unit efficiency

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At a glance

The Chemical and Petroleum Integrated Information Framework is a semantic-model-based integration framework, a software platform that is designed to allow customers to build integrated solutions with common processes and services to help:

- Improve the productivity of skilled people by giving them real-time visibility to measurements in the context of instrumented, interconnected equipment
- Speed decision making with enterprise wide access to real-time process performance relative to Key Performance Indicators (KPIs)
- Reduce costs with more intelligent decisions that leverage federated information with performance comparisons across multiple assets across the enterprise
- Reduce planned and unplanned shutdowns, increase production and decrease maintenance costs based on enterprise wide, event-based information

Overview

To help customers in the chemical and petroleum industry improve implementation of projects and achieve integrated operations, IBM® delivers the Chemical and Petroleum Integrated Information Framework, (IBM Chem and Petro Framework) a software platform based on industry and IT standards.

This software platform contains industry-specific content enabling the consistent representation of chemical and petroleum processes. This leverages a reference semantic model incorporating process equipment with connectivity, measurements, production calculation, key performance indicators and business events for use within workflows of business processes and visualization in context. A reference semantic model instance is built for each customer solution.

Based on IBM service oriented architecture (SOA) software, this framework enables smarter oil and gas industry solutions such as upstream integrated operations for monitoring well field and platform rotating equipment, turnaround optimization and integrated asset management to identify problems before breakdowns occur, thereby helping improve availability and decrease costs. The same software platform enables industry solutions connecting offshore platforms with onshore experts inside the company and with partners for real-time collaboration to help respond more quickly and accurately, optimizing human and production resources.
Oil and gas companies have extensive control systems and other production systems implemented at the facility and/or plant level, and resource planning systems at the administrative and/or enterprise level. There is a need for operations management and intelligence systems integrating and consolidating the applications in the domain between these systems. IBM Chem and Petro Framework helps bridge these domains. Existing equipment can be leveraged with incremental expansion across assets and processes as business needs dictate.

### Key prerequisites

- IBM ILOG JViews Diagrammer V8.6
- IBM Websphere ILOG JRules V7.0
- SISCO UIB Core 412-095
- SISCO UIB Adapter for OPC Client 412-095
- SISCO UIB Adapter for OPC Server 412-095


### Planned availability date

- August 14, 2009 (Electronic availability)
- September 11, 2009 (Physical availability)

### Description

The framework delivers a software platform that gives standards-based access to integrated information about production processes and assets across multiple facilities. Chemical and Petroleum Integrated Information Framework delivers Business Process Management (BPM) with common services. It includes the following build, run and manage capabilities:

- **Build Server Edition and build Client Edition** contain tooling and model ontology for chemical and petroleum companies to model their facilities and operations into an abstracted industry-specific reference semantic model. Build includes software architecture, process modeling, the semantic modeling of assets and locations, and publishing reusable services in the services repository. Visual clickable representations of the assets with process and instrumentation views are provided using ILOG JViews product based on Web 2.0.

- **Run Edition** enables users to process business events and to execute their business process using business process execution language (BPEL) to invoke the services. It uses adapters to integrate the operation's equipment (for example, distributed control system (DCS), programmable logic controllers (PLC)) and systems (for example, historian, equipment monitoring) and is the platform on which the model-driven integration capability in the reference semantic model is implemented at run time. This ontology gives federated access to data without replication. This means that data remains in the emitting systems, avoiding error-prone replication of data.

The integration pattern, reference semantic model and services pattern facilitate access to and utility of real-time information, specifically in the upstream and downstream operations of the chemical and petroleum industry. This access to process tag data by any human or application anywhere in an enterprise, easily and in real time, provides an information transfer model that serves as a directory so users can find data and documents. Business events are defined and managed...
to help automate and standardize processes involving massive amounts of data to speed pre-defined processes and alert experts with timely insight.

- **Manage Server Edition and manage Client Edition** deliver the robust monitoring and management capabilities that implementing integrated processes in real time operations require. This standards-based tool can monitor the process orchestrations and services originated on the run infrastructure to help allow chemical and petroleum customers to deliver the expected systems and application performance and availability.

**Key benefits**

The Chemical and Petroleum Integrated Information Framework helps deliver new business benefits such as turn-around optimization and increased production by utilizing distinctive new technology approaches, including the reference semantic model based on industry standards, Web browser visualization software, and enablement in an open SOA environment. This capability enables the delivery of a consistent unit operations representation, standardization of processes and performance measures, service patterns, and business event filtering with advanced alerting and visualization capabilities in context of the equipment operations.

The Chemical and Petroleum Integrated Information Framework supports industrial standards, leveraging OPC and information mapped to reference-semantic-model ontology measurement values, and using key industry standards such as ISA S88/S95, ISO 15926, IEEE 61970/68, and MIMOSA/Open O&M for asset and physical hierarchy representation.

Users can work smarter as a result of the framework implementation. The framework is designed to help improve productivity of skilled users by allowing them to interpret equipment measurements in context in real time measurements. It can help reduce costs by using federated information to provide performance comparisons across multiple assets throughout the enterprise. This helps reduce risk and time to value with a pretested platform that can be customized to customers' specific needs.

Using the Chemical and Petroleum Integrated Information Framework Build Edition, Run Edition, and Manage Edition capabilities can help users reduce planned and unplanned shutdowns by performance analysis through integration with asset management applications such as Maximo® Oil & Gas, and increase production and decrease maintenance costs based on delivery of enterprise-wide event-based information. Finally, this framework can help a business become more agile by extending business process management and best practices with the capability to incrementally add additional assets and processes as the enterprise grows.

**Solutions architecture**

Given extensive instrumentation across oil fields, pipelines, refineries and chemical plants, their integrated operations vision now requires improving integrated business process management and visualization in context. The IBM Chem and Petro Framework helps increase interconnected and intelligent operations with a new approach for accessing disperse control system, historian, and asset data and delivering it to key users and systems in a context ideal for taking smarter action and improving business process execution. This helps transform the way business users view and interact with their upstream and downstream assets and teams.

This framework is designed to deliver production decision-makers with new or improved capabilities:

- **Visualization of contextual oil field information:** View the oil field or refinery through an intuitive graphical interface, running on a thin client, where sensor and machine data is presentable in clickable, hierarchal levels of detail, ready for analysis and decision making.

- **Better decisions utilizing interconnected, instrumented assets, and predictive analysis:** Perform™ more sophisticated analysis of oil field or refinery production, viewing KPIs and measurements in the right business context, to aid both real-time decision-making and operational planning.
• **Intelligent alerts and event management:** Detect, evaluate, and respond to business events with actions to both human and system participants. Predefine business events to speed action from massive amounts of data received.

• **Optimized automation and integration:** Help provide an open enterprise data and process integration framework for existing and new manufacturing applications

• **Expert collaboration:** Enable or extend the ability to collaborate with experts on challenges and solutions instantly via collaboration technologies, shared information, all available from an exciting new vision of the business control

• **Enterprise connectivity with enterprise asset management, enterprise resource planning, and other systems:** Share critical operational information with other enterprise applications enabling extended business users to better plan, forecast, and respond to business imperatives.

**Why IBM?**

As one of the world’s largest and most successful consulting and technology solutions companies, IBM has the credentials and capabilities to deliver Chemical and Petroleum Integrated Information Framework software supporting the smarter oil and gas idea that is part of helping IBM create a smarter planet.

Perhaps what really differentiates IBM from other solution providers is our deep understanding, investment, and experience in delivering solutions to enterprise-class chemical and petroleum companies around the world. The IBM Chem and Petro Framework product includes proven SOA software that is already in the field at top companies delivering real results.

For more information about the IBM Chemical and Petroleum Integrated Information Framework contact your IBM representative or visit

http://ibm.com/software/industry/frameworks/chemical_petroleum

You may also contact us at 800-IBM-4YOU (800-426-4968).

**Accessibility by people with disabilities**

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at


**Product positioning**

This Chemical and Petroleum Integrated Information Framework product delivers a high-value IBM software platform that is complementary to customers' enterprise asset management, back office, and enterprise resource planning (ERP) applications. In addition to the Chemical and Petroleum specific capabilities, the following are included in these bundles:

**Build Server Edition**

• WebSphere® Service Registry and Repository
• WebSphere Application Server Network Deployment

**Build Client Edition**

• WebSphere Integration Developer
• Rational® Software Architect for WebSphere
• Rational Asset Manager
**Run Edition**

- WebSphere Process Server for Multiplatforms
- WebSphere Business Events
- WebSphere Application Server Network Deployment

**Manage Server Edition**

- Tivoli® Composite Application Manager for Applications
- Tivoli Business Service Manager

**Manage Client Edition**

- Tivoli Business Service Manager Tier 1
- Tivoli Composite Application Manager for SOA Platform
- Tivoli Composite Application Manager for Applications

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### Offering Information

Product information is available via the Offering Information Web site

http://www.ibm.com/common/ssi

Also, visit the Passport Advantage® Web site

http://www.ibm.com/software/passportadvantage

### Publications

All product publications are provided in softcopy format on the product CD-ROMs.

The following publications can also be downloaded in PDF format at planned availability. To download, use the Publications Center or contact your IBM representative.

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The IBM Publications Center

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications
are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements
For details, refer to the Web site listed in the Software requirements section.

Software requirements
All hardware and software requirements are available on the following Web site


The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Packaging
The media pack for each edition includes:

- Product code and documentation on DVD and CD-ROM
- License Information in hardcopy form
- Quick Start Guide in hardcopy form
- Quick Start CD

Security, auditability, and control

Chemical and Petroleum Integrated Information Framework V1.3 uses the security and auditability features of the host hardware or software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Ordering information

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Product group: Other
Product Identifier Description (PID)
IBM Chemical and Petroleum Integrated Information Framework (S724-Y59)

Product category: Application Integration Middleware Other
For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit

http://www.ibm.com/software/support/pa.html

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**Processor Value Unit (PVU)**

PVU is the unit of measure by which this program is licensed. PVU entitlements are based on processor families (vendors and brands). A Proof of Entitlement (PoE) must be obtained for the appropriate number of PVUs based on the level or tier of all processor cores activated and available for use by the Program on the server. Some programs allow licensing to less than the full capacity of the server’s activated processor cores, sometimes referred to as sub-capacity licensing. For programs which offer sub-capacity licensing, if a server is partitioned utilizing eligible partitioning technologies, then a PoE must be obtained for the appropriate number of PVUs based on all activated processor cores available for use in each partition where the program runs or is managed by the program. Refer to the International Passport Advantage Agreement Attachment for Sub-Capacity Terms or the program’s License Information to determine applicable sub-capacity terms. The PVU entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with PVU entitlements of another program.

For general overview of PVUs for processor families (vendors and brands), go to


To calculate the exact PVU entitlements required for the program, go to

https://www.ibm.com/software/howtobuy/passportadvantage/valueunitcalculator/

**Authorized User**

Authorized User is the unit of measure by which this program is licensed. An Authorized User is an individual (named or unnamed) within or outside of your enterprise. The program may be installed on one or more computers or servers and accessed by the number of users authorized by the Proof of Entitlement (PoE). You must have an entitlement for each Authorized User accessing the program or any program component in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means.
The following programs in this announcement have Value Unit-based pricing.

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The program’s License Information will be available for review on the IBM Software License Agreement Web site


**Limited warranty applies**

Yes

**Limited warranty**

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.
IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

http://www.ibm.com/support/handbook

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program technical support
This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates, releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months’ notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

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If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

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Volume orders (IVO)
No

Passport Advantage applies
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http://www.ibm.com/software/passportadvantage

**System i Software Maintenance applies**

No

**Variable charges apply**

No

**Educational allowance available**

Education allowance does not apply.

Education software allowance does not apply.

Special education prices are available for qualified customers through Passport Advantage.

**IBM Electronic Services**

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The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent
for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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**Prices**

Contact your local IBM representative for the applicable one-time charge (OTC).

**Passport Advantage**

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