



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

For ordering, contact your IBM® representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: SE001).

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

- Windows® Server 2003 Standard Edition, SP1 & SP2
- 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

For currently supported operating environment, visit

<http://www.ibm.com/software/integration/chempetroframework/sysreqs/index.html>

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 dispersed 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, hierarchical 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

http://www.ibm.com/able/product_accessibility/index.html

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

Program number

Program number	VRM	Program name
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5724-Y59	v1.3	Chemical and Petroleum Integrated Information Framework
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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.

Title	Order number
Quick Start Guide	GI11-9310
Deployment and Configuration Procedure	SC23-9696
Interface Specifications for Generic Web Services	SC23-9697
Model Management Guide	SC23-9700
Troubleshooting Guide	GC23-8605

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

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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

<http://www.ibm.com/software/integration/chempetroframework/sysreqs/index.html>

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.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

IBM Global Business Services (GBS) has resources targeted to provide IBM Chemical and Petroleum Integrated Information Framework planning, implementation, configuration, and steady state operations support for customer engagements.

For more GBS information visit

<http://www.ibm.com/bcs/chemicalpetroleum>

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

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 (5724-Y59)

Product category: Application Integration Middleware Other

Charge metric

PID number	Charge metric	Program name
5724-Y59	Processor Value Unit	Chemical and Petroleum Integrated Information Framework Build Server Edition
5724-Y59	Authorized User	Chemical and Petroleum Integrated Information Framework Build Client Edition
5724-Y59	Processor Value Unit	Chemical and Petroleum Integrated Information Framework Run Edition
5724-Y59	Processor Value Unit	Chemical and Petroleum Integrated Information Framework Manage Server Edition
5724-Y59	Processor Value Unit	Chemical and Petroleum Integrated Information Framework Manage Client Edition

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

http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

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.

Program number	Program name	Value Unit exhibit
5724-Y59	Chemical and Petroleum Integrated Information Framework Build Server Edition	VUE100
5724-Y59	Chemical and Petroleum Integrated Information Framework Run Edition	VUE100
5724-Y59	Chemical and Petroleum Integrated Information Framework Manage Server Edition	VUE100
5724-Y59	Chemical and Petroleum Integrated Information Framework Manage Client Edition	VUE100

The following program in this announcement has Authorized User-based pricing.

Program number	Program name	Value Unit exhibit
5724-Y59	Chemical and Petroleum Integrated Information Framework Build Client Edition	N/A

Passport Advantage

Program name	Part number
Chemical and Petroleum Integrated Information Framework Build Server Edition V1.3 for Windows, English Media Pack	BA0WBEN
Chemical and Petroleum Integrated Information Framework Build Server Edition Processor Value Unit Lic+SW Subscription & Support 12 Mo	D0A3XLL
Chemical and Petroleum Integrated Information Framework Build Server Edition Processor Value Unit Annual SW Subscription & Support Rnwl	E07CFLL
Chemical and Petroleum Integrated Information Framework Build Server Edition Processor Value Unit SW Subscription & Support Reinstate 12 Mo	D0A3YLL
Chemical and Petroleum Integrated Information Framework Build Client Edition V1.3 for Windows, English Media Pack	BA0W8EN
Chemical and Petroleum Integrated Information Framework Build Client Edition Authorized User Lic+SW Subscription and Support 12 Mo	D0A3ZLL

Chemical and Petroleum Integrated Information Framework Build Client Edition Authorized User Annual SW Subscription & Support Rnw1	E07CGLL
Chemical and Petroleum Integrated Information Framework Build Client Edition Authorized User SW Subscription & Support Reinstate 12 Mo	D0A40LL
Chemical and Petroleum Integrated Information Framework Run Edition V1.3 for Windows, English Media Pack	BA0W9EN
Chemical and Petroleum Integrated Information Framework Run Edition Processor Value Unit Lic+SW Subscription & Support 12 Mo	D0A3RLL
Chemical and Petroleum Integrated Information Framework Run Edition Processor Value Unit Annual SW Subscription & Support Rnw1	E07CCLL
Chemical and Petroleum Integrated Information Framework Run Edition Processor Value Unit SW Subscription & Support Reinstate 12 Mo	D0A3SLL
Chemical and Petroleum Integrated Information Framework Manage Server Edition V1.3 for Windows, English Media Pack	BA0WAEN
Chemical and Petroleum Integrated Information Framework Manage Server Edition Processor Value Unit Lic+SW Subscription & Support 12 Mo	D0A3TLL
Chemical and Petroleum Integrated Information Framework Manage Server Edition Processor Value Unit Annual SW Subscription & Support Rnw1	E07CDLL
Chemical and Petroleum Integrated Information Framework Manage Server Edition Processor Value Unit SW Subscription & Support Reinstate 12 Mo	D0A3ULL
Chemical and Petroleum Integrated Information Framework Manage Client Edition V1.3 for Windows, English Media Pack	BA0WCEN
Chemical and Petroleum Integrated Information Framework Manage Client Edition Processor Value Unit Lic+SW Subscription & Support 12 Mo	D0A3VLL
Chemical and Petroleum Integrated Information Framework Manage Client Edition Processor Value Unit Annual SW Subscription & Support Rnw1	E07CELL
Chemical and Petroleum Integrated Information Framework Manage Client Edition Processor Value Unit SW Subscription & Support Reinstate 12 Mo	D0A3WLL

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The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

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License information form number

License Information Form Number	Product Number	Product name
L-ROSL-7RMNP8	5724-Y59	Chemical and Petroleum Integrated Information Framework Build Client Edition
L-TDEN-7SQKAA	5724-Y59	Chemical and Petroleum Integrated Information Framework Build Server Edition
L-ROSL-7RU3HC	5724-Y59	Chemical and Petroleum Integrated Information Framework Run Edition
L-ROSL-7RU44T	5724-Y59	Chemical and Petroleum Integrated Information Framework Manage Client Edition
L-TDEN-7SQKFX	5724-Y59	Chemical and Petroleum Integrated Information Framework Manage Server Edition

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

<http://www.ibm.com/software/sla/sladb.nsf>

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>

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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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Authorization for use on home/Portable computer

You may not copy and use this program on another computer without paying additional license fees.

Volume orders (IVO)

No

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Yes, and through the Passport Advantage Web site at

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IBM Operational Support Services - SoftwareXcel

No

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

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

Passport Advantage

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