

# FpML Tools Vendor List

*The tools that are listed on this page have NOT been reviewed by ISDA in any way.*

These are listed based solely on vendor interest in FpML and at their request. A listing of a tool carries no explicit or implicit endorsement or certification by ISDA. Use of any tool on this page requires your own due diligence and is carried out at your own risk.

<a href="#">AgentIdea Solutions</a>	<a href="#">FireStar Software, Inc.</a>	<a href="#">Kronos Software Ltd</a>	<a href="#">RCP Consultants Ltd</a>
<a href="#">Century 24 Solutions Ltd</a>	<a href="#">Global Electronic Markets LLC</a>	<a href="#">Liquid Technologies</a>	<a href="#">Sonic Software, Inc.</a>
<a href="#">Code Synthesis Tools CC</a>	<a href="#">Global Electronic Markets LLC and Systemwire, Ltd</a>	<a href="#">Magoo Software</a>	<a href="#">Systemwire</a>
<a href="#">ETL Solutions</a>	<a href="#">HandCoded Software Ltd</a>	<a href="#">MDXSYS Limited</a>	<a href="#">Systinet WASP Server for Java</a>
<a href="#">Financial Fusion</a>	<a href="#">HCL Perot Systems</a>	<a href="#">Pi4 Technologies Foundation, Ltd</a>	<a href="#">Universal Data Interface Corporation</a>
<a href="#">Finetix</a>	<a href="#">Ipedo</a>	<a href="#">PolarLake Ltd</a>	<a href="#">Zeliade Systems</a>

## 1. AgentIdea Solutions

Tool Name	<b>AgentIdea Solutions TOOLKIT</b>
Category	Storage Tools (FpML Repository Queriable by XQL) Development Tools (Adapter Toolkit) Service Components (Rule Engine)
Short Description	The AIS Toolkit consists of XML-based frameworks, components and a repository, which enables the development of real-time distributed financial industry applications for the front, middle and back-office.

Key Features	Platform and Language Agnostic Based on Open Standards (W3C, J2EE, .NET) LDAP-based Repository Integration with XML (e.g. FpML) and non-XML Protocols (e.g. FIX)
Technical Details	Our toolkit is an aggregation of practical know-how, industry proven practices and our skill-set, represented by the following elements: <a href="http://www.agentidea.com/toolkit.html#Frameworks">Frameworks</a> ( <a href="http://www.agentidea.com/toolkit.html#Frameworks">http://www.agentidea.com/toolkit.html#Frameworks</a> ) , <a href="http://www.agentidea.com/toolkit.html#Components">Components</a> ( <a href="http://www.agentidea.com/toolkit.html#Components">http://www.agentidea.com/toolkit.html#Components</a> ) and a <a href="http://www.agentidea.com/toolkit.html#Repository">Repository</a> ( <a href="http://www.agentidea.com/toolkit.html#Repository">http://www.agentidea.com/toolkit.html#Repository</a> ) . Based on Open Standards, this enterprise design pattern uses XML message routing to initiate and dynamically execute Commands on remote servers. Peer-to-Peer XML messaging Heterogeneous components SOAP-compatible message format Event-driven Business Process Repository For further information: <a href="http://www.agentidea.com/toolkit.html">www.agentidea.com/toolkit.html</a> ( <a href="http://www.agentidea.com/toolkit.html">http://www.agentidea.com/toolkit.html</a> ) <b>Supported Version of FpML :</b> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> </ul>
Contact	Email: <a href="mailto:bizspeak@agentidea.com">bizspeak@agentidea.com</a> ( <a href="mailto:bizspeak@agentidea.com">mailto:bizspeak@agentidea.com</a> ) <a href="http://www.agentidea.com">www.agentidea.com</a> ( <a href="http://www.agentidea.com">http://www.agentidea.com</a> )

## 2. Century 24 Solutions Ltd

Tool Name	<b>C24 Integration Objects (C24 IO)</b>
Category	Development Tools, Application Components, Service Components
Short Description	<ul style="list-style-type: none"> <li>• Low cost Java integration components utilizing standard open technology.</li> <li>• The C24 IO toolkit is designed to provide complex metadata modeling, acquisition, version</li> </ul>

## FpML Tools Vendor List

	<p>management and binding.</p> <ul style="list-style-type: none"> <li>• It is an efficiency tool for developers, technical architects, and meta-data management architects involved in message and transaction data development and integration projects.</li> </ul>
<p>Key Features</p>	<ul style="list-style-type: none"> <li>• Meta-data standards driven integration using the C24 IO Editor development environment and libraries of standards message libraries</li> <li>• Off the shelf and fully maintained meta-data libraries for FpML as well as SWIFT FIN, ISO20022/UNIFI, CREST DEX/ISO and other financial services standards</li> <li>• Meta-data modeling, acquisition from XML instance documents, DTD/Schema, RDBMS, XMI, flat file instances etc, and quick and easy specializations and version management</li> <li>• Java binding from standard and specialized data models</li> <li>• Deployment, management and specialization of standard data-models and validation schemes</li> <li>• Deploy financial services integration solutions using Java open source code generation and components based on industry technology standards</li> <li>• Pay for the integration components you need when you need them per production deployment only</li> </ul>
<p>Technical Details</p>	<p>The FpML Support Pack is designed to meet the needs of firms transacting derivatives business who need their applications to communicate effectively using the International Swaps and Derivatives Association [ISDA – <a href="http://www.isda.org">www.isda.org</a> ] FpML standards [ <a href="http://www.fpml.org">www.fpml.org</a> ], both intra-firm and externally across the corporate boundary with their external trading partners. Subscription to the FpML Support Pack enables access to a maintained collection of components and services focused very specifically at the FpML power user.</p> <p>The C24 Integration Objects toolkit - Enterprise Edition: - unlimited developer seats for the C24 IO data modelling, meta-data management, transformation, and messaging integration toolkit, as used by tier 1 investment banks, industry utilities and clearing services, central banks, and embedded within many other</p>

## FpML Tools Vendor List

	<p>software vendor applications to power their messaging needs. C24 IO Enterprise Edition is a platform for rapid development of data model-driven Java integration and messaging components. It can be used either stand-alone or orchestrated into your own application framework to provide parsing, validation and transformation services, not just for XML-derived data models, but for literally any data format you may need to handle.</p> <p>The C24 IO FpML Support Pack implementations are based on the FpML specifications released by ISDA on <a href="http://www.fpml.org">www.fpml.org</a>. These specifications are implemented and maintained by C24 to ensure access to a fully maintained reference implementation of the latest standards.</p> <p><b>Supported Version of FpML :</b></p>											
	<table border="1"> <thead> <tr> <th data-bbox="834 877 1432 934">Release</th> <th data-bbox="1432 877 1624 934">Validation Rules</th> </tr> </thead> <tbody> <tr> <td data-bbox="834 934 1432 991">FpML 4.2 WD#3 2006-02-15</td> <td data-bbox="1432 934 1624 991">FpML Rules 4</td> </tr> <tr> <td data-bbox="834 991 1432 1047">FpML 4.2 WD#2 2005-10-12</td> <td data-bbox="1432 991 1624 1047">FpML Rules 4</td> </tr> <tr> <td data-bbox="834 1047 1432 1304">                     FpML 4.2 WD#1 2005-05-04                      FpML 4.1 REC 2005-07-14                      FpML 4.1 TREC#2 2005-03-02                      FpML 4.1 TREC#1 2004-12-10                      FpML 4.1 LCWD 2004-10-18                      FpML 4.1 WD#2 2004-07-19                      FpML 4.1 WD#1 2004-02-20                      FpML 4.0 REC 2004-04-02                 </td> <td data-bbox="1432 1047 1624 1304">                     Before FpML 4 specifications cumulative.                      All Shared contracts                      Credit Derivatives                 </td> </tr> <tr> <td data-bbox="834 1304 1432 1417">                     FpML 3.0 TREC 2003-06-27                      FpML 2.0 REC 2003-05-05                      FpML 1.0 REC 2001-05-14                 </td> <td data-bbox="1432 1304 1624 1417">None Published</td> </tr> </tbody> </table>	Release	Validation Rules	FpML 4.2 WD#3 2006-02-15	FpML Rules 4	FpML 4.2 WD#2 2005-10-12	FpML Rules 4	FpML 4.2 WD#1 2005-05-04 FpML 4.1 REC 2005-07-14 FpML 4.1 TREC#2 2005-03-02 FpML 4.1 TREC#1 2004-12-10 FpML 4.1 LCWD 2004-10-18 FpML 4.1 WD#2 2004-07-19 FpML 4.1 WD#1 2004-02-20 FpML 4.0 REC 2004-04-02	Before FpML 4 specifications cumulative. All Shared contracts Credit Derivatives	FpML 3.0 TREC 2003-06-27 FpML 2.0 REC 2003-05-05 FpML 1.0 REC 2001-05-14	None Published	
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	<p>REC = Recommendation                      TREC = Trial Recommendation                      WD = Working Draft</p> <p>Each FpML standards release is packaged and maintained by C24 within the C24 IO FpML Support Pack and includes:</p> <ul style="list-style-type: none"> <li>The associated specifications as published on <a href="http://www.fpml.org">www.fpml.org</a> — FpML Schema and examples, validation rules narrative, and applicable Errata</li> <li>C24 data model implementations of the</li> </ul>											

	<p>validation rules with mapping definitions from the rules implementation to the data model resulting from importing the XML Schema</p> <ul style="list-style-type: none"><li>• Comprehensive XML instance test data</li></ul> <p>The C24 IO data model implementations of the full set of published FpML validation rules, for use in conjunction with the imported schemas. C24 IO validation rules are expressed as XPath constraints that are compiled into the Java code components derived from the FpML data models. Any FpML instance document can then be checked for both schema compliance and adherence to the ISDA-originated validation rules as a single operation, or as a precursor to a semantic transformation to some other arbitrary format. Subscription to the support pack guarantees that you will be kept right up to date with the latest validation rules as they are published by ISDA.</p> <p><b>Key technical features:</b></p> <ul style="list-style-type: none"><li>• The ability to extend and specialize from the FpML base standard - crucial within the context of FpML, IO Enterprise Edition also provides you with an object-oriented meta-data modelling environment within which you can easily extend and specialise the base FpML models and associated validation rules to suit the unique requirements of your own trading and application environments. C24 IO Enterprise Edition has also been proven with SwapsWire and Murex derivations of the base XML constructs used to describe and exchange derivatives trade data.</li><li>• The C24 IO FpML Support Pack Service Level guarantee that you can use C24 IO to import and support FpML, and round-trip all published versions of the FpML schemas. The FpML schemas are amongst the most complex and all-encompassing in terms of their usage of w3c schema constructs, and so it is vital for us to be able to support them, and indeed round-trip them. Subscription to the Support Pack provides you with the confidence that you and your applications will be able to do the same.</li><li>• The ability to validate against ISDA published code-lists, firm specific extensions, and generic domain constraints. This makes modifications to the enumerated values in the base standard a</li></ul>
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	<p>quick and easy operation by utilising the built-in FpML extension hooks.</p> <ul style="list-style-type: none"><li>• The ability to deploy C24 IO components on any Java run-time deployment infrastructure environment and transport, but predicated on no specific implementation. C24 IO is designed to leverage open technology standards such as XSD, DTD, XMI, Hibernate, various VCS, and to be deployed as POJOs, on App Servers, in Spring containers, in Jini environments, with various ESB implementations, JMS, Mule... and the list keeps evolving based on real world demand.</li><li>• And finally all C24 IO Support Packs include access to C24 IO Enterprise Edition software updates, full access to remedial support and online issue tracking and discussion forums.</li></ul> <p>So in summary, the C24 FpML Support Pack provides fully maintained FpML data model and validation rule implementations that are guaranteed to be kept up to date, access to a regression testing platform that will ensure your applications are 100% compliant with latest practice and procedure, and all this on top of a toolkit for developers and meta-data architects that will save time and money in deploying integration solutions from these message standards.</p> <p>If you're interested in a test drive, the C24 IO FpML Reference Implementation is a package based on the latest "Recommendation" FpML Release. This is a full example of a C24 IO deployed solution based on the FpML Support Pack. It is intended for system architects and developers to review and appreciate the complexity of the FpML integration problem domain, and the capabilities of the C24 IO technology to simplify it. It includes:</p> <ul style="list-style-type: none"><li>• Deployed C24 IO java source code and Ant scripts</li><li>• Associated C24 IO generated class libraries</li><li>• Developer reference JavaDoc</li><li>• JUnit test cases</li><li>• Integration code examples</li><li>• An instance of the IO API .jar for run time deployments</li><li>• Implementations of all shared constraint validation rules</li></ul> <p>This Reference Implementation package is available for download at <a href="http://www.c24.biz/refimpl/fpml">www.c24.biz/refimpl/fpml</a></p>
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## FpML Tools Vendor List

	( <a href="http://www.c24.biz/refimpl/fpml">http://www.c24.biz/refimpl/fpml</a> )
Contact	Tel: +44 (0) 20 7117 0024 Email: <a href="mailto:info@c24.biz">info@c24.biz</a> ( <a href="mailto:info@c24.biz">mailto:info@c24.biz</a> ) <a href="http://www.c24.biz">www.c24.biz</a> ( <a href="http://www.c24.biz">http://www.c24.biz</a> )

### 3. Code Synthesis Tools CC

Tool Name	<b>CodeSynthesis XSD</b>	
Category	Development Tools, Application Components	
Short Description	CodeSynthesis XSD is an open-source, cross-platform W3C XML Schema to C++ data binding compiler. Provided with the FpML schemas, it generates C++ classes that represent the FpML vocabulary as well as parsing and serialization code. You can then access the data stored in XML using types and functions that semantically correspond to your application domain rather than dealing with intricacies of reading and writing XML. This results in a significantly shorter release cycle as well as increased reliability, readability, and maintainability of your code.	
Key Features	<ul style="list-style-type: none"> <li>• Elegant C++ mappings and portable generated code</li> <li>• In-memory and stream-oriented processing models</li> <li>• Comprehensive XML Schema feature coverage</li> <li>• Easy integration with existing IDEs and build systems</li> <li>• Open-source (dual licensed under the GPL and a proprietary license)</li> <li>• Cross-platform: available on all major operating systems</li> </ul>	
Technical Details	<b>Supported platforms</b>	Windows, GNU/Linux, and AIX
	<b>Supported compilers:</b>	Visual C++, GCC, and IBM XL C++
	<b>Supported versions of FpML:</b>	FpML 4.1
Contact	Product URL:	

	<a href="http://www.codesynthesis.com/products/xsd">http://www.codesynthesis.com/products/xsd</a> (http://www.codesynthesis.com/products/xsd/) Email: <a href="mailto:info@codesynthesis.com">info@codesynthesis.com</a> (mailto:info.at.codesynthesis.com)
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#### 4. ETL Solutions

Tool Name	<b>ETL Solutions - transformation Manager</b>
Category	Storage Tools (Object and Relational Mapping to XML, FpML Repository, Versioning) Development Tools (Data transformation Authoring, Testing, Object Binding Tool) Application Components (Java Wrapper, Validation, Format transformation, Integrations, EAI, EII, SOA, ESB) Service Components (Matching Service, Schemes Management)
Short Description	In use by several major banks, Transformation Manager (™) has been used in a range of projects to rapidly implement FpML based data, messages and systems and helps bridge the gap between developer and analyst when integrating FpML into the enterprise. A generic transformation and integration tool, TM combines a high level view of the integration models and rules with the ability to do complex and low level transformations. Code generation with a simple and lightweight runtime interface enables proven deployment into any enterprise system, including J2EE, Murex and proprietary messaging systems. TM is being used to integrate FpML derivatives with databases, Java APIs, flat files, documentation and non FpML-based XML schemas.
Key Features	Comprehensive IDE combining easy to use GUI, 300+ built-in functions, wizards, debugger and test tools, deployment tool etc with a unique powerful high level mapping syntax. TM generates portable Java code offering complete flexibility and freedom to deploy in client architectures Open Interface provides access and viewing of almost any kind of data Metadata driven

## FpML Tools Vendor List

	Many additional features including validation, cleansing, test driven design, and reconciliation Support virtually any data sources and targets
Technical Details	<p>Transformation Manager allows the user to describe the links or transforms between the different types of data at the highest possible semantic level using either an in-built "Simple transformation Language" SML or W3C's XSLT transformation language if this is preferred, or indeed a mixture of these. Very complex logic embedded in the tool is then used to generate code for deployment, either Java or XSLT (or again a mixture of these), that perform the transform.</p> <p>This paradigm solves a whole range of problems - from the simple problem of taking standalone Microsoft Excel data and updating a local database to the complex issues of generating and controlling the transformations embedded in types of global distributed applications required by the new era of e-Business.</p> <p>XML is the key piece in the building of the loosely coupled integration architectures and is being used by most major corporations to build web applications. These distributed architectures draw upon open standards such as the OMG's CORBA, Sun's J2EE or Web Services. transformation Manager fully supports these international standards and is application-vendor neutral. These features are extremely important in an integration product intended for widespread market acceptance. In short the product offers:</p> <ul style="list-style-type: none"><li>• <b>Model enhancement.</b> TM enables the basic XSD model to be enhanced with additional or modified relationships, properties and facets. For example, whereas FpML schema may refer to a list of generic party elements, TM can identify parties more specifically, such as counter parties, and refer to them by name within the business rules.</li><li>• <b>Validation.</b> XML schema cannot validate all constraints, for example elements which are optional for some message types, and mandatory for others. Business rules can be added to perform this sort of validation, with violations collected in a report or causing a fatal exception.</li></ul>

	<ul style="list-style-type: none"> <li>• <b>Ordering.</b> When creating XML, including FpML, TM orders the output according to the schema, allowing the user to ignore low level details of creating target elements in the correct order.</li> <li>• <b>Versioning.</b> TM is ideal for migrating instances from one schema version to another. With the model comparator, support for identity transforms, assisted creation of transforms for similar sources and targets, developers of such transforms can concentrate on the differences between the two models.</li> <li>• <b>Flexibility.</b> Whether storing FpML into a relational database, producing documentation, transforming to an internal schema, instantiating equivalent Java business objects or creating FpML from any of these sources, TM uses the same interface to describe the business rules of how this is achieved. Runtime deployments are designed for minimal disruption to existing systems, and as pure Java code operate within workflow engines such as Murex, proprietary messaging systems, J2EE application servers, and batch/bulk load environments.</li> </ul> <p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> <li>• FpML 3.0</li> <li>• FpML 4.0</li> <li>• FpML 4.1</li> <li>• FpML 4.2</li> </ul>
Contact	<p>Karl Glenn            Email: <a href="mailto:kg@etlsolutions.com">kg@etlsolutions.com</a>            (mailto:kg@etlsolutions.com)            Tel: +44 (0) 191 289-4040  <a href="http://www.etlsolutions.com">http://www.etlsolutions.com</a></p>

## 5. Financial Fusion

Tool Name	<b>Financial Fusion Server</b>
Category	Development Tools (Object Binding Tool) Application Components (Format transformation)
Short Description	Financial Fusion Server provides the ability to

## FpML Tools Vendor List

	communicate via FpML, FIX, SWIFT, GSTPA, ISO15022, OMGEO from a single scalable platform. Our message broker technology allows easy integration and message transformation.
Key Features	Full FIX connectivity, FpML, SWIFT, GSTPA, OMGEO message sets, Message Broker transformation, STP middleware product.
Technical Details	Application server based, 100% JAVA EJB compliant.
Contact	Chris Fink Tel: +44 207 285 4079 (EU) Will Stevenson Tel: 001 978 287 2437 (US) <a href="http://www.financialfusion.com">www.financialfusion.com</a> ( <a href="http://www.financialfusion.com">http://www.financialfusion.com</a> )

## 6. Finetix

Tool Name	<b>Reportix</b>
Category	Application Components (Document Generation)
Short Description	Reportix is an Open Source project that aims to apply the power of XML, FpML, XSL, XSL:FO, Xerces, Xalan, FOP and J2EE to PDF formatted wholesale banking report generation. It is highly standards compliant and designed to integrate cleanly and swiftly in a J2EE environment. The range of potential applications for wholesale banking institutions is broad, and includes the automatic generation of confirmation notes, contracts, position reports, value at risk reports and credit netting reports.
Key Features	Automatic translation of FpML to PDF document
Technical Details	Reportix is an Open Source product and is based on the Apache XML tools. Using XSL transforms Reportix translates an FpML document into XSL:FO, which is then used to generate PDFs. <b>Supported Version of FpML :</b> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> <li>• FpML 3.0</li> </ul>

Contact	John O'Sullivan <a href="http://www.finetix.com">www.finetix.com</a> ( <a href="http://www.finetix.com">http://www.finetix.com</a> )
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## 7. FireStar Software, Inc.

Tool Name	<b>ObjectSpark</b>
Category	Storage Tools (Object and Relational Mapping to XML) Development Tools (Data transformation Authoring) Application Components (Integration Tools e.g. Excel)
Short Description	FireStar Software's ObjectSpark™ is the industry's first infrastructure software that structures and automates the development and deployment of data and message services, a critical layer in multi-tiered or distributed applications. The patented technology includes out-of-the-box data services with easy to use visual tools that enable customization and deployment. ObjectSpark delivers scalable, high performance data service objects and web services. These components can be used in Microsoft and Java (J2EE) development environments. ObjectSpark provides support for XML messages, documents, and links to major messaging systems. It is fully extensible to support specific implementations like the FpML message standards. ObjectSpark also provides native support for major databases as well as general support for ADO/JDBC accessible data sources.
Key Features	<ul style="list-style-type: none"> <li>Simple graphical interface to enable applications by mapping FpML application objects.</li> <li>Automatically generates object APIs for rapid development in Microsoft environments.</li> <li>Integrated SOAP server.</li> <li>Universal Adapter that runs in production applying mapped semantic data to/from messages or other data sources.</li> <li>Insulates application from the XML variants, so as standards evolve.</li> </ul>

## FpML Tools Vendor List

	<p>minimal.</p> <p>Saves at least 20% on any new development project and follow o coding and automating documentation.</p> <p>Maps applications to heterogeneous data sources.</p> <p>Supports association, aggregation, or composition based relations</p>
Technical Details	<p>Platforms supported are J2EE, EJB, COM+, .NET</p> <p>Databases supported are Oracle, DB2, SQL Server</p> <p>Supports XML/SOAP</p> <p>Runs in-process or on a separate server</p> <p>Implements optimization - data caching, lazy reads, attribute sha</p> <p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> <li>• FpML 3.0</li> </ul>
Contact	<p>Customers in the US:            Alan Dipietro            Tel: +1 978 635 9320            Email: <a href="mailto:dipietro@firestarsoftware.com">dipietro@firestarsoftware.com</a>            (mailto:dipietro@firestarsoftware.com)</p> <p>Customers outside the US:            Stephen Ford            VP, International            Mobile: +1 443 722 1611            Email: <a href="mailto:ford@firestarsoftware.com">ford@firestarsoftware.com</a>            (mailto:ford@firestarsoftware.com)</p> <p>FireStar Software:            FireStar Software, Inc.            31 Nagog Park            Acton, MA 01720            USA            Tel: +1 978 635 9320            Fax: +1 978 635 9312  <a href="http://www.firestarsoftware.com">www.firestarsoftware.com</a>            (http://www.firestarsoftware.com)</p>

## 8. Global Electronic Markets LLC

Tool Name	<b>GemDelta - FpML Comparison Tools</b>
Category	Application Components, User Tools
Short Description	GemDelta is a tool for comparing FpML documents. We are currently offering a version integrated with GemScribe, our FpML viewer/editor.
Key Features	GemDelta performs a configurable, heuristically guided match between trades, reporting only meaningful differences. It categorizes differences by type, and generates an overall match quality score. When integrated with GemScribe, GemDelta is IE 5+ based and runs entirely within the browser. No applets or ActiveX controls are required. It supports easy match customization using configuration files. It generates output in the form of HTML displays and highlighted views of the original trade display. When packaged as a standalone product, it can run from the command line or as a server process on Unix or Windows platforms.
Technical Details	<p>Java based components</p> <p>J2EE compliant components</p> <p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 2.0</li> <li>• FpML 3.0</li> </ul>
Contact	Email: <a href="mailto:sales@global-emarkets.com">sales@global-emarkets.com</a> (mailto:sales@global-emarkets.com) <a href="http://www.global-emarkets.com/">www.global-emarkets.com/</a> (http://www.global-emarkets.com/)

## 9. Global Electronic Markets LLC

Tool Name	<b>GemScribe - FpML Viewer/Editor</b>
Category	Application Components, User Tools
Short Description	GemScribe is a web-browser based tool for viewing and editing FpML documents.
Key Features	GemScribe is IE 5+ based and runs entirely within the browser. No applets or ActiveX

## FpML Tools Vendor List

	controls are required. It supports easy customization using template-driven layouts and XML formats, and CSS stylesheets for customizing look and feel. GemScribe can read FpML files from the Internet or from the local file system, or can create new FpML files from template deals. It can save FpML files to the local file system or to a web server.
Technical Details	Java based components
	J2EE compliant components
	<b>Supported Version of FpML :</b> <ul style="list-style-type: none"> <li>FpML 2.0</li> </ul>
Contact	Email: <a href="mailto:sales@global-emarkets.com">sales@global-emarkets.com</a> (mailto:sales@global-emarkets.com) <a href="http://www.global-emarkets.com/">www.global-emarkets.com/</a> (http://www.global-emarkets.com/)

## 10. Global Electronic Markets LLC

Tool Name	<b>GemVault - FpML trade Archive</b>
Category	Application Components, User Tools
Short Description	GemVault is a web-server based system for archiving, querying, and retrieving FpML documents.
Key Features	GemVault is based on the Apache HTTP server, Open SSL, BerkeleyDB, and mod_perl. It provides an efficient way to store large numbers of FpML documents, and to index and retrieve the documents. Features include "find a trade like this" and portfolio matching, for quickly matching trades in a portfolio supplied by a partner to existing trades in the archive. It integrates with GemScribe, for displaying trades, and GemDelta, for comparing different versions of trades (either from different sources or at different times.).
Technical Details	<b>Supported Version of FpML :</b> <ul style="list-style-type: none"> <li>FpML 1.0</li> <li>FpML 2.0</li> <li>FpML 3.0</li> </ul>

Contact	Email: <a href="mailto:sales@global-emarkets.com">sales@global-emarkets.com</a> (mailto:sales@global-emarkets.com) <a href="http://www.global-emarkets.com/">www.global-emarkets.com/</a> (http://www.global-emarkets.com/)
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## 11. Global Electronic Markets LLC and Systemwire, Ltd

Tool Name	<b>FpML Mediator</b>
Category	Application Components, User Tools
Short Description	FpML Mediator is an advanced FpML validation, matching and reconciliation engine. It is entirely rule driven, enabling the business to control which business rules to apply, which elements should be matched, which sensitivities should be applied, and where optional matches are desired. FpML Mediator supports all FpML products and versions, and can reconcile trades of different versions. FpML Mediator can support both intra-day matching for new activity, and periodic batch processing of large trade inventories.
Key Features	Validation implements all FpML business rules. Matching allows inventories of many thousands of trades to be processed at thousands of trades per minute, based on configurable matching rules. Trade reconciliation is highly configurable, supporting a wide variety of scoring, optionality and tolerance policies. Mediator seamlessly supports client extensions to FpML.
Technical Details	<p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> <li>• FpML 3.0</li> <li>• FpML 4.0</li> <li>• FpML 4.1 (1Q 2005)</li> </ul> <p>Supports FpML 4.0 matching, confirmation, and trade status mes</p>
Contact	Email: <a href="mailto:sales@fpml-mediator.com">sales@fpml-mediator.com</a> (mailto:sales@fpml-mediator.com)

## 12. HandCoded Software Ltd.

Tool Name	<b>Toolkit for FpML Processing</b>
Category	Development Tools, Application Components, Service Components
Short Description	The HandCoded Toolkit for FpML processing provides a core set of functions for manipulating FpML documents, including a high performance implementation of the FpML business rules for validation and inter-version conversion.
Key Features	<ul style="list-style-type: none"> <li>• Low cost Java and C# toolkit providing FpML related document processing using standard open technology.</li> <li>• Efficient implementation of FpML business rule validation including enhancements for older DTD based documents and schemes.</li> <li>• Automatic conversion of FpML documents from earlier to later releases</li> <li>• Extendable financial product identification and classification</li> </ul>
Technical Details	<p>The HandCoded Toolkit is available in both Java and C# varieties, both containing the same core functions for FpML document validation and conversion. Designed for high performance the toolkits use standard programming languages and runtime APIs along with a object-orient framework that allow easy development and maintenance of custom user rule sets or conversions.</p> <p>In addition implementing the standard FpML business rules for FpML 4.0 and 4.1 the toolkit applies appropriate rules to previous releases of FpML and provides strict data type validation for DTD based documents. A set of user customizable data files are provided to allow all the standard 'scheme' code values to be validated during processing and the toolkit can be attached to local data sources for further party and security code checking.</p> <p>Toolkit functionality can be easily integrated into existing applications or with a minimum amount of code and the functions are compatible with all the releases of FpML from 1.0 to the latest working draft.</p>

	A demonstration application that illustrates the validation and conversion capabilities of the toolkit is available from the HandCoded website (see <a href="http://www.handcoded.com">http://www.handcoded.com</a> ) .
Contact	Email: <a href="mailto:information@handcoded.com">information@handcoded.com</a> (mailto:information@handcoded.com)

### 13. HCL Perot Systems

Tool Name	<b>HPS FpML Tool Kit</b>
Category	Application Components (FpML Validator, FpML Format transformer) Service Components (FpML Matching Service, FpML Rule Engine)
Short Description	<p>The Validator validates an FpML message against an XML Schema.</p> <p>The Format transformer converts input streams into FpML message files.</p> <p>The Matcher performs an equivalence check on two FpML messages using a matching algorithm.</p> <p>An easy-to-use Rule Engine validates an FpML message against specified rules.</p>
Key Features	<p>Component Architecture - components may be combined, if required.</p> <p>Java based GUI components.</p> <p>Online reference documentation.</p> <p>Rules based processing.</p> <p>Scalable environment - integrates with J2EE based enterprise applications.</p>
Technical Details	<p>Java based components</p> <p>J2EE compliant components</p> <p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> </ul>

## FpML Tools Vendor List

Contact	Email: <a href="mailto:padma.parthasarathy-india@hpsglobal.com">Padma Parthasarathy</a> (mailto:padma.parthasarathy-india@hpsglobal.com) <a href="http://www.hclperot.com">www.hclperot.com</a> (http://www.hclperot.com/)
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### 14. Ipedo

Tool Name	<b>Ipedo XML Information Platform (XIP)</b>
Category	Storage Tools, Development Tools (Ipedo XIP) Application Components (Ipedo FpML Accelerator plug in)
Short Description	Ipedo helps manage OTC derivative trades, trade histories and other data to better manage risk, reduce operational costs, and reduce capital requirements. Ipedo provides XML-based integration, information management and custom reporting. You can use Ipedo to centralize the collection and management of financial data, automate the processing and reduce risk.
Key Features	<p>XML Feeds Provides connection through listeners to message queues</p> <p>XML Views Provides virtual integration with non-XML sources, such as real-time Web Services feeds</p> <p>XML Rules Allows introspection of inbound and managed XML documents</p> <p>XQuery Engine Provides detailed search and analysis over local and remote data sources</p> <p>XML Pipelines Supports inbound data format conversion and output generation</p> <p>FpML Accelerator A plug in set of application components for building FpML applications</p>
Technical Details	<p>Ipedo XIP acts as a platform that works in conjunction with an organization's existing systems to access relevant financial data in real time. The Ipedo FpML Accelerator is a set of components built specifically to process FpML and related custom XML to perform critical OTC derivatives functions. With Ipedo, firms can automate information aggregation, integrate more trade and risk data, perform analysis across trade documents, and allow for long-term active archiving for compliance needs.</p> <p><b>Data and Content Federation:</b> Aggregates information and performs queries over multiple data sources using the XML Query language XQuery</p> <p><b>Query Management and Optimization:</b> Actively evaluates queries over external data sources are optimized through a "capacity management" engine</p>

## FpML Tools Vendor List

	process. All predicates and constraints are pushed down to the base execution and minimize network traffic
	<b>Bi-Directional Update:</b> Synchronizes data bi-directionally and in using XML messages transported over HTTP or JMS
	<b>Inbound Filtering and QC:</b> Allows custom business rules to be application specific Java filters. Also allows standard XML processing filtering through XSLT and XQuery
	<b>XML Schema Management:</b> Performs incremental validation when maintain conformance; supports schema evolution: documents are when changes are made
	<b>XML Query Engine:</b> Supports the XPath and XQuery specifications improve search performance, and easily performs single document queries
	<b>Index Management:</b> Indexes any XML element, attribute, or path improves search performance; automatic index maintenance insu across updates without requiring a manual index rebuild
	<b>Security Management:</b> Manages access to system resources by password authentication
	<b>XML Pipelining:</b> Uses stepwise model for processing XML content Stylesheet Language (XSL) transformations are broken down into Pipelines also allow complex, multi-step processing via XSL and
	<b>Platforms:</b> AIX, Linux, Solaris, Windows
	<b>Supported Version of FpML :</b>
	<ul style="list-style-type: none"> <li>• FpML 3.0</li> <li>• FpML 4.0</li> </ul>
Contact	<p>Ipedo, Inc.            1001 Marshall Street            Redwood City , CA 94063            (650) 306-4000</p> <p>Email: <a href="mailto:info@ipedo.com">info@ipedo.com</a> (mailto:info@ipedo.com)  <a href="http://www.ipedo.com">www.ipedo.com</a> (http://www.ipedo.com)</p>

### 15. Liquid Technologies

Tool Name	<b>Liquid Technologies XML Data Binding Wizard</b>
Category	Development Tools

## FpML Tools Vendor List

	Application Components
Short Description	<p>Our XML Data Binding Wizard will produce a set of simple wrapped schemas. These classes have simple strongly typed properties corresponding to attributes in the schema.</p> <p>These Object Oriented classes then make it simple to read and write XML, removing a significant amount of code you normally have to write. This increases reliability, making your code more readable &amp; maintainable, while not requiring in-depth knowledge of XML and XSDs etc.</p>
Key Features	<p>Because FpML is quite a complex schema, without expert knowledge of XSDs it is easy to create invalid XML documents. Our product prevents this, and removes the need to waste time and effort trying to understand the more ambiguous sides of the W3C's XSD standard.</p> <p>Supported Languages : C#, Java, Visual Basic 5/6, C++ (cross platform) Supported Schemas : XSD, XDR, Dtd</p> <p>A full set of HTML documentation is also generated along with the code, making it even easier to use.</p>
Technical Details	<p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> <li>• FpML 3.0</li> <li>• FpML 4.0</li> <li>• FpML 4.1</li> </ul>
Contact	<p>Email: <a href="mailto:fpml@Liquid-Technologies.com">fpml@Liquid-Technologies.com</a> (mailto:fpml@Liquid-Technologies.com) <a href="http://www.liquid-technologies.com">http://www.liquid-technologies.com</a></p>

## 16. Kronos Software Ltd

Tool Name	<b>Kronos Developer Toolkits</b>
Category	Development Tools (Object Binding Tool)
Short Description	<p>Class libraries for developers that need to rapidly add FpML capability to existing systems or build robust e-commerce and STP applications in a fraction of the time. Kronos FpML Toolkits are designed for both developers</p>

	and end-users. These toolkits allow you to rapidly adopt the FpML protocol within your organisation. The toolkits comprise Developer Toolkits, Excel Add-ins and the FpML Editor.
Key Features	Object-Orientated Type-safe Classes Complete implementation FpML inheritance hierarchy Support for schemes Support for references Support for choices Source code environment support GUI components (Java only) Online reference documentation
Technical Details	Java, C++, and VB class libraries Evaluation copies can be downloaded from the following link: <a href="http://www.risk.sungard.com/standards/fpml.php">http://www.risk.sungard.com/standards/fpml.php</a> <b>Supported Version of FpML :</b> <ul style="list-style-type: none"> <li>FpML 1.0</li> </ul>
Contact	Email: <a href="mailto:marketing@risk.sungard.com">marketing@risk.sungard.com</a> (mailto:marketing@risk.sungard.com) FpML products: <a href="http://www.risk.sungard.com/standards/fpml.php">http://www.risk.sungard.com/standards/fpml.php</a>

## 17. Magoo Software

Tool Name	<b>MagooClient</b>
Category	Development Tools/Application Components (Viewer/Editor/Validator)
Short Description	MagooClient combines XML messaging, editing and scripting to provide a comprehensive graphical user client environment for sending, receiving, editing and validating FpML documents.
Key Features	MagooClient is a complete FpML Viewer/Editor/Validator and has been fully tested against the FpML 4.0 schemas and sample instances provided by the FpML specification. Specific features include: <ul style="list-style-type: none"> <li><b>Synchronized Form and Hierarchical Tree Views</b> support rapid navigation of complex</li> </ul>

## FpML Tools Vendor List

	<p>trades. The form view uses the FpML schema information to render FpML documents as variable-length text fields, tickboxes, radio-buttons and drop-down lists to support correct data entry.</p> <ul style="list-style-type: none"> <li>• <b>Messaging:</b> MagooClient supports the sending and receiving of FpML documents using a range of transports including HTTP/HTTPS, Email and enterprise messaging products compliant with the JMS specification.</li> <li>• <b>Full Schema Validation Capability</b> automatically flags errors in document structure and element/attribute content.</li> <li>• <b>Id Cross-Referencing</b> is supported using dynamic drop-down lists which offer current Ids within the document (e.g. Business Center, Party Ids). Stale or invalid ID references are automatically detected.</li> <li>• <b>Comprehensive Support for FpML Editing:</b> pop-up menus on the tree view support element/attribute addition and deletion, substitution groups, derivative complex types, choices and support for the XML Schema 'any' wildcard. This allows users to easily manipulate FpML document structure without needing specialist XML Schema knowledge.</li> <li>• <b>Integrated JavaScript + XML environment</b> allows FpML supplementary validation rules to be implemented and applied.</li> <li>• <b>Annotation Panel</b> displays FpML documentation and any relevant validation errors.</li> </ul>
Technical Details	<p>Java-based portable solution</p> <p><b>Supported Version of FpML:</b></p> <ul style="list-style-type: none"> <li>• FpML 4.0</li> </ul>
Contact	<p>Website (<a href="http://www.magoosoft.com">www.magoosoft.com</a>) (<a href="http://www.magoosoft.com">http://www.magoosoft.com</a>) )</p> <p>Contact Email(<a href="mailto:info@magoosoft.com">info@magoosoft.com</a>) (<a href="mailto:info@magoosoft.com">mailto:info@magoosoft.com</a>) )</p>

## 18. MDXSYS Limited

Tool Name	<b>XML Objective (plus FpML Integration Libraries)</b>
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## FpML Tools Vendor List

Category	General-purpose XML developer tool, in the form of a gui desktop application plus custom libraries.
Short Description	XMLobjective is a developer productivity tool to assist in the development and integration of XML and XMLSchema with existing systems in C++, Java and RDBs (using JDBC/SQL).
Key Features	<p><b>XMLSchema Editor</b></p> <ul style="list-style-type: none"> <li>* create and edit structures</li> <li>* content, design and code views</li> <li>* wizards to build/edit components, namespaces</li> <li>* XMLschema-aware editing and validation</li> </ul> <p><b>XML Document Editor</b></p> <ul style="list-style-type: none"> <li>* data and xml views</li> <li>* gui component, tree or text editing</li> <li>* schema aware for valid element / attribute content displays</li> </ul> <p><b>Object Editor and CodeBuilder</b></p> <ul style="list-style-type: none"> <li>* integration object editor</li> <li>* generate integration code</li> <li>* integration for C++, Java and RDBs (using JDBC/SQL)</li> </ul>
Technical Details	<p><b>Available for this product:</b></p> <ul style="list-style-type: none"> <li>• XMLobjective Free is a freely available version, supporting the editing and validation of FpML document instances</li> <li>• The commercial version of XMLobjective provides an off-the-shelf “Integration Package”. This package provides pre-built integration libraries for FpML 4-0 in the languages of C++, Java and RDBs</li> <li>• An evaluation download is available from the product website (see below), which includes the integration package for FpML</li> <li>• Create Fully extensible C++/SQL/Java library based on FpML products</li> </ul> <p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 4.0</li> <li>• FpML 4.1</li> <li>• FpML 4.x (templates)</li> </ul>
Contact	The integration package currently supports the swap and swaption product types. The package can be easily extended however to cover other product types. We will be happy to extend the package on request of any FpML users. Any

## FpML Tools Vendor List

	requests of this kind may be directed to the company website ( <a href="http://www.xmlobjective.com">www.xmlobjective.com</a> ( <a href="http://www.xmlobjective.com">http://www.xmlobjective.com</a> ) , or to the Contact email ( <a href="mailto:fpml@xmlobjective.com">fpml@xmlobjective.com</a> ( <a href="mailto:fpml@xmlobjective.com">mailto:fpml@xmlobjective.com</a> ) ).
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### 19. Pi4 Technologies Foundation Ltd

Tool Name	<b>Pi4SOA WS-CDLTool Suite</b>
Category	Modeling tool for describing business processes in WS-CDL
Short Description	The open source tool provides an eclipse based editor to enable users to create, WS-CDL compliant, descriptions of business processes from a neutral perspective with no one participant having dominion over any other. The tool also provides a scenario editor and a mechanism for validating scenarios of message exchanges against a, WS-CDL compliant, description.
Key Features	editor tool for creating business process descriptions/dynamic models editor tool for creating scenarios of message exchanges validating tool for validating scenarios against a business process descriptions/dynamic models
Technical Details	<b>Supported Version of FpML :</b> <ul style="list-style-type: none"> <li>• FpML 4.2</li> <li>• FpML 4.3</li> </ul>
Contact	Steve Ross-Talbot Email: <a href="mailto:steve@hattricksoftware.com">steve@hattricksoftware.com</a> ( <a href="mailto:steve@hattricksoftware.com">mailto:steve@hattricksoftware.com</a> ) Tool available from <a href="http://www.pi4tech.org">www.pi4tech.org</a> ( <a href="http://www.pi4tech.org">http://www.pi4tech.org</a> )

### 20. PolarLake Ltd

Tool Name	<b>PolarLake</b>
Category	Application Components (Format transformation)

*FpML Tools Vendor List*

	Service Components (Validation, Matching)
Short Description	<p>PolarLake is an enterprise grade software platform providing the full set of the services required to develop, assemble and deploy advanced FpML, other XML and Web Services applications in Java. The development process consists of developing new components or integrating existing components and applications and then, by defining rules and document flows, graphically assembling these components into XML applications which represent business processes. This approach reduces the skills required and increases the flexibility of the resulting solution.</p> <p>PolarLake allows enterprises to create applications and service components which process FpML documents. Its rules based and component assembly development approach sympathetic to the matching and transformation requirements. Furthermore, the developed applications and service components can be easily integrated into enterprise technologies, such as EJB, COM and messaging middleware supporting JMS. PolarLake is XML schema standard neutral and PolarLake applications can easily process documents from multiple schema standards such as FpML or XBRL as well as Web Services.</p>
Key Features	<p>A Java platform for developing FpML processing applications and service components</p> <p>A 100% pure Java Open, Extensible Standards based platform.</p> <p>A productive development platform supporting rules based flexibility. Rules based FpML schemas can be easily generated from standard FpML schemas.</p> <p>A productive and flexible deployment platform.</p> <p>A fully distributed and scalable enterprise centric architecture.</p> <p>Integrates with Enterprise applications based on FpML, other XML and Web Services.</p> <p>Integrates with Enterprise infrastructure such as databases, messaging systems XML Schema standard neutral: can process any Web Services.</p>
Technical Details	Fully featured enterprise class XML platform.

*FpML Tools Vendor List*

	Powerful rules-based processing framework.	
	Support for enterprise wide deployment and management.	
	Multithreaded and scalable environment.	
	Complete process and resource management.	
	Fully extensible. All system components are extensible including	
	Full support for the software lifecycle.	
	PolarLake Designer: a graphical workbench for building PolarLake Rule definition in XPath.	
	PolarLake Monitor: a distributed debugging tool that allows XML I complementing Java code-level debugging available in leading Ja	
	PolarLake Management Console: a fully featured distributed appl system for PolarLake.	
	An Open Standards based development environment Java/XSLT, using standards. Development process is integrated with leading for Java.	
	Automated creation of Web Service providers from existing Java, EJB and COM components.	
	Support for creation of Composite Web Services and Web Service adapters handling Web Service specific formats (SOAP and WSD	
	Web server support with supplied servlet. XML document transmission using: HTTP(S), SMTP, JMS, file system. Platform support:	
	Supports any JVM v1.2 and up.	
	Installation media for: Solaris, Linux, NT/2000.	
Compatible with and leverages J2EE platform. Compatible with COM, integrating native COM components through the COM gateway.		
Contact	<p>PolarLake Headquarters - Ireland            Email: <a href="mailto:info@polarlake.com">info@polarlake.com</a>            (mailto:info@polarlake.com)            Tel: +353 (1) 449 1010            Fax: +353 (1) 449 1011            PolarLake            Block F1            East Point Business Park            Dublin 3</p>	

	<p>Ireland  PolarLake USA  Email: <a href="mailto:info@polarlake.com">info@polarlake.com</a>  (mailto:info@polarlake.com)  Tel: +1 (212) 672 1773  Fax: +1 (212) 792 4001  PolarLake USA  39th Floor  245 Park Avenue  New York, NY 10167  USA  PolarLake Japan  Email: <a href="mailto:japan@polarlake.com">japan@polarlake.com</a>  (mailto:japan@polarlake.com)  PolarLake Japan  17 Fl. Shibuya Mark City  1-12-1 Dogenzaka  Shibuya-ku  Tokyo 150-0043  Japan  <a href="http://www.polarlake.com">www.polarlake.com</a> (<a href="http://www.polarlake.com">http://www.polarlake.com</a>)</p>
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## 21. RCP Consultants Ltd

Tool Name	<b>RCP FX STP Suite</b>
Category	Application components (trade Entry/ Inspection/Format transformation) Development Tools (Testing) Service Components (Validation)
Short Description	<p>Software tools to generate FpML deal tickets in realtime for FX de trading platforms such as Reuters Dealing 3000, EBS, Currenex, application of business-rules to validate FpML data.</p> <p>Software tools to generate application-specific FX deal tickets in r (for example to deliver FpML data to legacy systems).</p> <p>Software tools to split existing FX ticket data streams so that inho testing can proceed in parallel with existing back office systems.</p>
Key Features	RCP specializes in FX and FX Options technology. Components from RCP's STP Suite are in use in over 100 customer sites in 25 countries. FpML is one of the many data protocols supported as standard and translated

## FpML Tools Vendor List

	by these components.
Technical Details	<p>A modular suite of software designed to run on a standard PC running Microsoft NT or Windows 2000. Installed from CD in a few minutes. Don't reinvent your own FX FpML adapters. Call us!</p> <p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> </ul>
Contact	<p>Gavin Smith Global Markets Business Manager RCP Consultants 81 Broadway Didcot, Oxon, UK Tel: +44 (0) 1235 510116 Email: <a href="mailto:banking-sales@rcp.co.uk">banking-sales@rcp.co.uk</a> (mailto:banking-sales@rcp.co.uk) <a href="http://www.rcp.co.uk">www.rcp.co.uk</a> (http://www.rcp.co.uk)</p>

## 22. Sonic Software, Inc.

Tool Name	<b>Sonic Business Integration Suite</b> includes six component products:
	Sonic ESB (enterprise service bus)
	Sonic Orchestration Server
	Sonic XML Server
	Sonic Integration Workbench including Sonic Stylus Studio
	Adapters for Sonic ESB
	SonicMQ (enterprise messaging)
Category	Application Integration and Middleware
Short Description	<p>The Sonic Business Integration Suite is built on the world's first er Sonic, companies can expand integration reach while reducing in enhance business agility. The Sonic integration suite offers a stan infrastructure that reliably and cost-effectively connects applicatio processes across the extended enterprise.</p>
Key Features	Standards-Based Application Integration
	Distributed Services-Oriented Architecture

	<p>Rich Process Modeling and Orchestration</p> <p>Powerful XML Processing and Storage Services</p> <p>Innovative Distributed Deployment Infrastructure</p> <p>Lower Cost Incremental Deployment</p>
Technical Details	<p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> </ul>
Contact	<p>US, Canada , &amp; Latin America          Tel: 1 781 999 7000 ( Main )          Tel: 1 781 999 7100 (Sales)          1 866 GET SONIC (1-866-438-7664)          Email: <a href="mailto:eval@sonicsoftware.com">eval@sonicsoftware.com</a>          (mailto:eval@sonicsoftware.com)          Europe , Middle East &amp; Africa          Tel: +44 (0) 1753 217000          Email: <a href="mailto:info-emea@sonicsoftware.com">info-emea@sonicsoftware.com</a>          (mailto:info-emea@sonicsoftware.com)          Asia Pacific          Email: <a href="mailto:sonic-eval-ap@progress.com">sonic-eval-ap@progress.com</a>          (mailto:sonic-eval-ap@progress.com)</p>

### 23. Systemwire

Tool Name	<b>FpML Validator</b>
Category	Service Components (Business Rule Validation, Reference Data Validation)
Short Description	The Systemwire FpML Validator validates FpML trades against the schema, against business rules and against reference data.
Key Features	<p>Validation against the Schema, including caching</p> <p>Validation against the standard business rules published with FpML</p> <p>Extensibility through the CLiX rule language: add your own rules, tailor the standard rules</p> <p>Validation against reference data: "quick-setup" validation against data items in XML files and databases</p> <p>Performance: 50 trades a second on a 1.4 Ghz</p>

## FpML Tools Vendor List

	<p>PC try the online demo: <a href="http://www.systemwire.com/FpML/validator/web/index.jsp">http://www.systemwire.com/FpML/validator/web/index.jsp</a> There is no other validator for FpML that comes close.</p>
Technical Details	<p>Java-based: 1.3 and 1.4, Windows and Unix Multiple deployment packages: EJB (message-driven, session), JMS, Java API (.jar file), Web Service in development <b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 3.0</li> <li>• FpML 4.0</li> <li>• FpML 4.1</li> </ul>
Contact	<p>Email: <a href="mailto:enquiries@systemwire.com">enquiries@systemwire.com</a> (mailto:enquiries@systemwire.com) <a href="http://www.systemwire.com/FpML">http://www.systemwire.com/FpML</a></p>

## 24. Systinet WASP Server for Java

Tool Name	<b>Systinet WASP Server for Java</b>
Category	Web Services Infrastructure Software
Short Description	Systinet products make it easy to create and deploy secure, high-performance Web services in Java and C.C++.
Key Features	<p>Systinet Web Services software is based on industry standards such as XML, SOAP, WSDL and UDDI. Systinet support XML Schema including FpML, OFX and ACORD.</p>
Technical Details	<p><b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 4.0</li> </ul>
Contact	<p>Email: <a href="mailto:sales@systinet.com">sales@systinet.com</a> (mailto:sales@systinet.com) <a href="http://www.systinet.com">http://www.systinet.com</a></p>

## 25. Universal Data Interface Corporation

Tool Name	<b>TierBroker</b>
Category	Application components (Validation, Format

	transformation, Integration Tool, Enrichment) Development Tools (Adapter Toolkit)
Short Description	<p>TierBroker is a platform-independent processing engine, capable high speed parsing, validation and transformation of complex XML streams. TierBroker can operate in batch or real-time environments and has no external dependencies.</p> <p>TierBroker provides native connectivity to databases, messaging platforms, files, application APIs, and network protocols. TierBroker applications can also be deployed as SOAP services.</p> <p>In TierBroker, rules and transformation logic are represented as a combination of XML and script. There is no compiled code!</p>
Key Features	<p><b>High Performance</b> The TierBroker technology was developed at PriceWaterhouseCoopers over nearly a decade as an integration toolkit for top-tier financial institutions. TierBroker was the product of choice for high-volume ETL applications, with complex and dynamic data transformation requirements. Today, that legacy of high-performance, high complexity implementations forms the foundation of the TierBroker technology. Robust real-time processing capabilities and finely tuned XML facilities round out TierBroker arsenal of data processing weapons.</p> <p><b>Ease of Use</b> There is no transformation tool on the market that is as easy to us. Take our download challenge. In 20 minutes, you can download and install TierBroker, and get your first application up and running.</p> <p><b>SOAP Capabilities</b> TierBroker has rich capabilities for processing and serving SOAP and WSDL. TierBroker hosts SOAP services, and automatically generates WSDL. SOAP applications hosted on TierBroker can also process HTTP Get and Post requests without any modification.</p> <p><b>XML Based System</b> TierBroker application source code is XML. Application logic and configuration is done in XML and is then augmented with callouts to</p>

*FpML Tools Vendor List*

	<p>scripted logic modules or in-memory database operations (see below). The approach of using XML to store project information results in excellent maintainability and reusability.</p> <p><b>Scripting</b> TierBroker applications are developed without the need for compiled code. Business logic can be developed in TierBroker Script, a high performance interpreted language. The benefits to this approach are rapid development time, fast learning curves and unparalleled maintainability.</p> <p>TierBroker Script provides an extensive set of classes aimed and reducing the number of lines of code required to represent complex logic. These classes include, XML node manipulation, XML path traversal, database lookups, calls to external validation services, and error handling. The tenets of TierBroker script are less lines of code, reusability and performance.</p> <p><b>In-memory Database</b> TierBroker includes an in-memory database. This feature is a high-speed caching mechanism controlled with standard SQL statements. Data can be marshaled into the database at rates in the hundreds of thousands of records per second.</p> <p>This is a perfect facility for performing operations on large sets of data, like aggregation, joining or matching.</p> <p><b>Graphical IDE</b> TierBroker also offers a graphical development environment. This tool allows developers to create and edit project documents using a combination of text editing and graphical wizards.</p> <p>The tools also provide visual process previewing for concise and readable documentation.</p>
<p>Technical Details</p>	<p>Platforms: Windows, UNIX, Linux (coming soon) Size: 10 MB <b>Supported Version of FpML :</b></p> <ul style="list-style-type: none"> <li>• FpML 1.0</li> <li>• FpML 2.0</li> <li>• FpML 3.0</li> </ul>
<p>Contact</p>	<p>Universal Data Interface Corporation 95 Wall Street, 21st Floor</p>

	New York, NY 10005 Fax: +1 (212) 607 7620 Email: <a href="mailto:info@udico.com">info@udico.com</a> (mailto:info@udico.com) <a href="http://www.udico.com">www.udico.com</a> (http://www.udico.com)
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## 26. Zeliade Systems

Tool Name	<b>Market Rules Components (MRC)</b>
Category	Processing of equity, interest rate, and credit options
Short Description	For IT departments, Zeliade Systems Market Rules Components (MRC) is a software component for processing market/time/date conventions
Key Features	Guarantees market conventions and date management consistency chain
	Frees developers from low-level implementation details
Technical Details	In short the product offers:
	Comprehensive date and time processing library
	Implements the whole range of derivatives market conventions such as compounding, and day count fractions
	Ready to integrate in a Straight-Through-Processing (STP) environment
	Fully extensible C++ library
	<b>Supported Version of FpML :</b>
	<ul style="list-style-type: none"> <li>FpML 4.1</li> </ul>
Contact	<a href="http://www.zeliade.com">www.zeliade.com</a> (http://www.zeliade.com)

## 27. Zeliade Systems

Tool Name	<b>FpML Software Development Kit (SDK)</b>
Category	Processing of equity, interest rate, and credit options
Short Description	For IT departments, Zeliade Systems FpML Software Development Kit (SDK) is a software

## FpML Tools Vendor List

	component that enables the development of FpML-aware applications as well as the FpML compliancy of legacy applications
Key Features	Shortens the path to achieve Straight-Through-Processing (STP)
	Reduces the costs of the flow of information within and across bu
Technical Details	In short the product offers:
	Object-oriented manipulation of FpML documents
	Built-in schema and semantic validation
	Fully extensible C++ library
	<b>Supported Version of FpML :</b>
	<ul style="list-style-type: none"> <li>FpML 4.1</li> </ul>
Contact	<a href="http://www.zeliade.com">www.zeliade.com</a> (http://www.zeliade.com)