

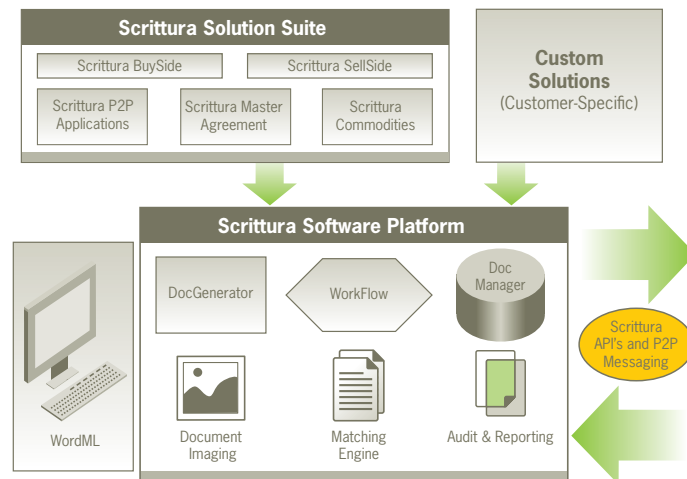
Data Sheet

Scrittura Messaging

Interwoven's Scrittura is recognized as the leading enterprise content management solution suite developed exclusively to automate and manage the full lifecycle of trade documentation for the financial securities and capital markets. Scrittura Messaging comprises the messaging infrastructure of the Scrittura software platform—specifically designed to enable Straight Through Processing (STP) of OTC derivatives trading for global dealers and investment managers.

With the volume and complexity of OTC trading continually increasing, Scrittura Messaging automatically generates and validates FpML and other XML-based electronic confirmation messages, delivering details of the product structure agreement to trading and matching utilities such as DTCC, EDX, and SWIFT. In addition, Scrittura Messaging converts data from proprietary and third-party trading and risk systems to generic messages used for automated central matching. This conversion significantly enhances data integrity and minimizes operational risk by eliminating manual processes and bringing certainty to the confirmation process.

Besides automatic generation, routing, and matching of paper-based confirmations, Scrittura Messaging now receives trades and determines if they are eligible for STP. Vanilla trades are automatically routed to the appropriate matching utility and require no human intervention. However, more complex trades produce paper-based confirmations which can be routed for additional modifications and approvals.



These features are further enhanced by Scrittura software platform's complete audit trail, variable-level user access, and real-time reporting.

Scrittura Messaging benefits

Increase efficiency with automated message generation, validation, and routing

Scrittura Messaging helps financial institutions sustain market growth by bringing efficiency to their OTC derivatives business. Specialists are relieved of manual tasks—such as generating spreadsheets and printing/faxing documents—and they are increasingly able to apply their skills to improving execution. Furthermore, users can directly configure and control the business logic associated with message matching and confirmation processing, reducing their

dependence on IT and increasing the overall efficiency of back-office processing.

Establish legal certainty and mitigate operational risks

Integrating clients' trading, risk, counterparty, and other systems of record, Scrittura Messaging enables automatic dispatch and receipt of information critical to the trade confirmation process. Risk is significantly reduced by minimizing manual errors and ensuring that trades are tracked, routed, and electronically stored.

Facilitate regulatory compliance with real-time status and audit reporting

Scrittura Messaging can be made available to anyone with a Web browser, for direct access to trade confirmations or participation in the workflow through login or email

notification. Real-time status reporting on all outstanding trades, as well as detailed audit trails of each trade confirmation in the workflow process, greatly contribute to effectively meeting regulatory requirements for back-office departments of financial firms.

The Scrittura software platform

The Scrittura software platform allows capital markets operations to easily configure and deploy enabling solutions utilizing a robust, scalable, extensible, and cost-effective technology that is closely aligned to the process needs of financial institutions. Scrittura's Web-enabled software is built on the J2EE platform using EJB, JSP, Servlets, JMS, and JDBC in compliance with the J2EE 1.3 specification, including EJB 2.0 and JSP 1.2. Scrittura supports BEA's WebLogic 8.1 as its application and Web server, and Oracle 8/9/10, Sybase 12.5, and SQL Server 2000/2005 as the relational database.

The Scrittura software platform is based on the following fully re-usable components:

- DocGenerator—document generation engine
- DocManager—document management system
- Workflow Manager—workflow engine
- Scrittura WordML® editor using Microsoft Word
- Scrittura Messaging
- Document imaging framework
- Audit & reporting framework
- Matching engine for OTC messages

Key Features	
Key feature	What it does
Full life-cycle message generation and management	<i>Scrittura Messaging provides the infrastructure to generate and manage the full message lifecycle for vendor- and instrument-specific FpML and other XML-based message types for use with central trading and matching services such as DTCC, EDX, and SWIFT.</i>
Automated workflow	<i>Scrittura's Workflow Manager can automate most manual processes, including the application of business rules that let market conditions dictate the confirmation process—whether choosing among matching vendors, employing bilateral matching, or generating paper confirmations.</i>
Management and regulatory reporting	<i>Clients can view reports on all of the information regarding their OTC derivatives business in one place, whether the trade is manually confirmed, matched by fax or passed to a central matching service.</i>
Specification updates	<i>Scrittura keeps you current with the rapidly evolving FpML and messaging standards and provide updates that drop into your Scrittura configuration. This approach is a lower-cost solution than in-house development and also has the advantage of broad application and error checking by numerous parties.</i>
Control and audit	<i>All variables in Scrittura can be viewed, edited, and downloaded at the user's command. A full audit trail lets the user locate the status of a trade confirmation in the workflow process at any time.</i>
Web services	<i>Scrittura provides browser-based access to trading, middle-office, back-office, legal, and counterparties. It also enables integration with other systems and databases—such as order management, risk, counterparty, and compliance—to share important data, which improves decision making for all stakeholders.</i>

Key Scrittura Messaging interfacing components:

- Scrittura server-side application
- WebDAV-based client (optional)
- DocGenerator
- DocManager
- Workflow Manager
- Document imaging framework
 - Image transfer engine
 - Optical Character Recognition (OCR) engine

Scrittura Solution Suite

Learn more about all the Scrittura solutions and why they are the trusted choice of more than 30 of the world's largest dealers and investment managers to transact billions of dollars in derivatives every day.

- Scrittura P2P™
- Scrittura Master Agreement
- Scrittura BuySide
- Scrittura SellSide
- Scrittura Commodities

Interwoven is a global leader in content management solutions

Interwoven's software and services enable organizations to effectively leverage content to drive business growth by improving the customer experience, increasing collaboration, and streamlining business processes in dynamic environments.

Our unique approach combines user-friendly simplicity with robust IT performance and scalability to unlock the value of content.

Today, nearly 3,800 enterprise and professional services organizations worldwide have chosen Interwoven, including: adidas, Airbus, Avaya, Cisco, DLA Piper, the Federal Reserve Bank, FedEx, HSBC, LexisNexis, Microsoft, Samsung, Shell, Samsonite, White & Case, and Yamaha. Over 18,000 developers and over 300 partners enrich and extend Interwoven's offerings. To learn more about Interwoven, please visit www.interwoven.com.

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