

bolero.net™ infrastructure for global trade



Overview

A key challenge facing the global Internet economy is how to securely deliver e-business transactions through the Web. Enterprises, net markets, logistics providers, and banks all must assure their e-business transactions are secure, authentic, and acceptable to the parties involved. The bolero.net™ infrastructure provides this needed foundation: digital signature-based security that authenticates identities of trading partners, non-repudiation of messages, receipt verification, and a validated uniform legal framework to govern digital transactions.

The path toward secure global trade requires implementation of sophisticated applications to drive the trade process. Businesses need order fulfillment that creates all the documents, workflow, communications, and data integration that is needed to complete a trade. They need the ability to integrate bolero.net messaging into their existing net market front-ends and back-end enterprise applications. They need the ability to arrange logistics through carriers and to receive tracking information. And they need the ability to settle through their banks by providing documentary information.

TRADEPAQ makes all of this easier. TRADEPAQ offers the boleroPAQ application to deliver bolero.net infrastructure for enterprises, banks, Net markets, and 3PLs. boleroPAQ integrates any business environment with the bolero.net system. It can transmit data, documents, or messages, through bolero.net to the selected destinations. boleroPAQ may also receive data, documents, and messages contained in incoming bolero.net transmissions and put

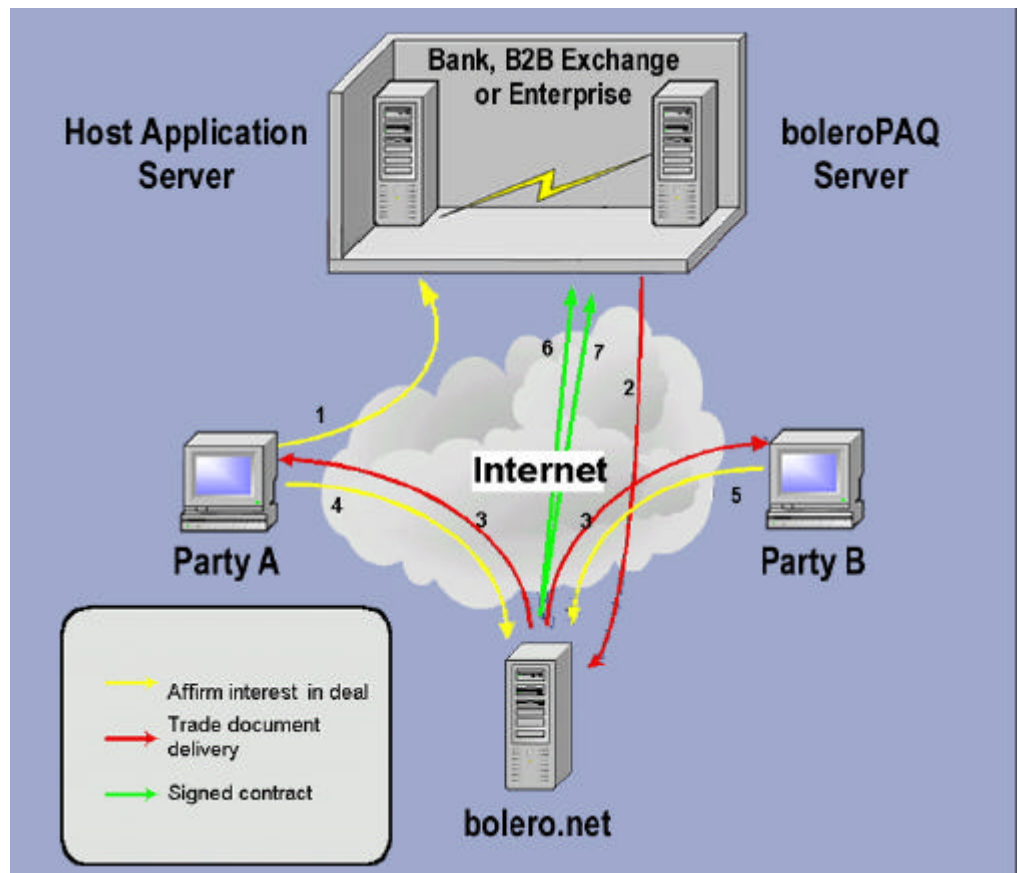
them to a format that delivers the information to the appropriate environment.

boleroPAQ is offered as a standalone application which may be interfaced with any enterprise software. Additionally, boleroPAQ directly integrates with CSI BankTrade™ Banking solutions and TRADEPAQ document and trade finance solutions for exchanges, banks, 3PLs and enterprises.

Application Solutions

- Confirmation and affirmation of transactions—offers can be sent and/or confirmed to provide legal and non-repudiable proof of transaction. The buyer and seller can complete the purchase process by securely exchanging contracts;
- Settlement—B2B exchange buyers and sellers can settle through their

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- 1—Party A requests through his browser that a document be generated and delivered via bolero.net.
- 2—boleroPAQ generates the document and sends it via bolero.net.
- 3—Parties A and B receive the document for review.

- 4&5—Parties A and B send the document back via bolero.net, indicating acceptance.
- 6&7—bolero.net delivers the digitally signed documents to the boleroPAQ, which registers a completed, binding transaction.

banks with the B2B receiving/tracking information—boleroPAQ provides secure access for banks to transact the entire settlement process;

- Order fulfillment—securely provides all documents, workflow, communications, and data integration to complete an order;
- Authentication—boleroPAQ security provides certificate-based electronic signatures and authentication;
- Title Registry—Securely manage changes in ownership of title documents while goods are in transit, assuring the correct parties have access to shipments as goods cross borders;
- Logistics—boleroPAQ provides access to carriers to engage the logistics process. Buyer and seller can arrange logistics through their carrier and receiving/tracking information based upon bolero.net transaction messages.

Benefits

- Digital signature-based security authenticates transaction participants' identities;
- Buyers' offers and sellers' confirmations can be completed via digital signatures;
- b2b exchanges can provide trade execution guarantees to their members;
- Shortens the turnaround time for trade processing;
- Scales to support high transaction volumes and distributed deployment;
- Legal consistency—the Bolero Rule Book can be used to govern digital transactions;
- Buyer and seller can complete the purchase process by exchanging contracts via Bolero

Functions & Features

boleroPAQ is the communications interface that requests bolero.net digital certificates, generates a digital signature key, composes the prescribed message format and attachments, delivers messages

to the bolero.net server, tracks acknowledgements, receives and validates incoming messages, and reconciles transactions.

- An Events Monitor composes standard bolero.net messages and sends them to the Bolero Server for validation and delivery to intended recipients. It receives all bolero.net status messages, as well as incoming messages from other bolero.net users.
- The Workbench tracks and displays all bolero.net messaging transactions, reconciles sent messages with bolero.net™ status messages, and provides all of the information needed for auditing transactions.
- Patented Rules enable the implementation process to accommodate the requirements of any business environment. The rules system can automate much of the functionality for bolero.net operations and ensure that a particular business's policies are extended to this new arena.
- Integrated Document Standards enable implementation of all bolero.net standard XML DTDs.
- Value Added Service (VAS) Implementation assures conformance with each bolero.net Value Added Service such as the Title Registry, and additional VAS products as they are introduced.

boleroPAQ & TRADEPAQ for Documents

- Library of more than 1000 documents ready for immediate use;
- Automatically generates all necessary domestic, import/export, regulatory and logistics documents, and routes them to the proper destination;
- Example documents: Business—Purchase Orders, Invoices, Contract; Regulatory—MSDS, Mill Certificates, Hazardous Material; Logistics—Bills of Lading, Packing Lists, Container Labels; Export / Import—NAFTA, EUR1, SAD, SED, Commercial Invoice, Certificate of Origin.

boleroPAQ & TRADEPAQ for Trade Finance

- Provides access to banks to define, enable, and complete the settlement process;
- Enables complete Management of LCs and their amendments

Technology Highlights

- Integrates with leading b2b exchange front ends, banking systems, and back end ERP applications;
- Supports JAVA browsers such as Internet Explorer or Netscape;
- Full support for all TRADEPAQ and CSI Banktrade products;
- Provides full scalability as your business grows;
- Runs on Microsoft NT operating system;
- Supports interconnect technologies including XML, ebXML, cXML, SWIFT, Bolero.net, ANSI X12 EDI, EDIFACT EDI, W3C XML, and Microsoft BizTalk.



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