

**EDIBLE OIL TRADING**  
powered by **ContraXcentral™**

**WHITE PAPER**

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# EXECUTIVE SUMMARY

## About JustCommodity

**JustCommodity Software Solutions P/L** is a software company solely focused on providing solutions to the commodities industries. JustCommodity today provides software solutions and consulting to the Edible Oil sector, and is also extending its product offerings to include other commodities such as wheat, grains, soya, cocoa, coffee, sugar, cotton, and rubber to name a few.

## About ContraXcentral™ Edible Oil

**ContraXcentral™** is the premier contract management and execution software suite, specially designed to support the needs of commodity trading houses.

**ContraXcentral™ Edible Oil** is a fully integrated suite of applications based on the core **ContraXcentral™** framework, specially designed for companies in the trade and production of edible oils and related products. **ContraXcentral™ Edible Oil** covers all aspects of contract management - execution, production, inventory control, logistics and shipping. **ContraXcentral™ Edible Oil** is built with expert Edible Oil domain knowledge, incorporating the current industry practices and regulations including rules from PORAM, MEOMA, FOSFA, NOFOTA and GROFOR. The **ContraXcentral™** framework is flexible, configurable and customizable to suit the needs of individual companies.

## Business Benefits

Currently, the majority of companies in the commodities trade rely on paper-based record keeping and manual telexing. The shortcomings of this approach are:

- Bottlenecks due to manual processes when the number of trades increase
- Errors and oversights which will cause missed contractual deadlines or default situations
- Missed opportunities
- Delays in getting accurate information or a view of the positions to senior management
- Unnecessary duplication of work across various functions and departments

**ContraXcentral™ Edible Oil** helps streamline your back office and logistics processes, resulting in cost savings and operational efficiency through superior information management.

The main benefits of implementing this system are:

- Streamlined operations and contract execution. The computerized contract filing system allows the easy creating and sending of invoices, tracking of contract status and physical shipment, and managing positions.

- Contract details are entered in only once (at trade confirmation stage), and the information is reused in all subsequent processes.
- Automatic drafting of documents (e.g., telexes, faxes, and contracts), with searchable message repository, and log of all communications sent. (This integration of message drafting with data entry is a key feature of **ContraXcentral™** which provides for several important benefits: firstly, you are always assured that your contract database is always fully up-to-date with the latest changes; second, you are assured that the information you have on-line is exactly the same as what you have sent out to your counter parties or service providers; and finally, we eliminate the time-consuming and error-prone process of manual drafting of telexes and faxes.)
- Instant and accurate information. Latest changes are instantly available via the system, providing management with up-to-the-second updates on current positions, exposure, commitments, approaching deadlines, pending activities, P&L, and other vital reports.
- Full audit trail of all changes made to the contracts and shipment files (with details on when each change was made, and by whom.)
- Customizable MIS Reports suited to the specific organizations requirements.
- Recording third party contract information up and down the deal pipeline, allowing the tracking of the full strings as they emerge.
- Flexible system design allows for exceptions and non-standard terms.
- Businesses can implement **ContraXcentral™** using a phased migration approach with minimal disruptions to operations.
- Integrate and streamline process across several branch offices and remote production or storage facilities. **ContraXcentral™** is built with a multi-tier system architecture with HTML-based front-end to allow you to host the system centrally, while easily allowing you to scale up to hundreds or even thousands of users across geographically dispersed sites, by connecting through your corporate LAN, WAN, VPN, or by remote access (dialup) service.

## Technical Summary

**ContraXcentral™** is developed using Sun Microsystems' Java2 Enterprise Edition technologies, which allows it to run on a wide variety of platforms and operating systems, including standard PC-class workgroup servers running Microsoft Windows or RedHat Linux, and enterprise-class Unix servers from Sun, IBM, HP, and others.

**ContraXcentral™** is based on an open architecture and industry accepted application frameworks. This allows it to be easily integrated as required to major Enterprise Resource Planning (ERP) applications, Supply Chain Management (SCM) solutions, and Financial Accounting systems.

**ContraXcentral™** is built on a highly scalable multi-tier client/server architecture. **ContraXcentral™** can efficiently handle small companies with only a handful of users in a single office, while it can easily grow to meet the demands of hundreds if not thousands of users spread across several different offices and plants around the world.

# FEATURE SUMMARY

## Introduction

**ContraXcentral™** modules are built on top of the **ContraXcentral™** platform. Each module consists of a collection of system functions, which support a related set of business processes to be performed per type and basis of contract.



**The ContraXcentral™ Platform**

The **ContraXcentral™** platform is a secure, scalable and robust architecture based on proven technologies. This platform was designed to support the growth of a trading company, not only via increased trading volume but also by diversification (by handling other types of contracts) and by vertical integration (by handling Producer or Shipper functions).

The **ContraXcentral™** platform is designed to allow for easy configuration and customization of existing modules, and for the creation and addition of new modules into the underlying framework.

The **ContraXcentral™** platform also allows for the integration with other accounting packages, ERP systems, or CRM packages as required.

A key **ContraXcentral™** feature – our integrated messaging sub-system – automatically drafts your trade confirmations, vessel nominations, etc. upon data entry. Apart from saving time and extra work, this feature ensures that the documents you send to your counterparty always matches what you have in your **ContraXcentral™** database, and that your system is always accurately up-to-date with the latest contract status.

## Feature Matrix

**ContraXcentral™** “modules” are a matrix of process and contract types. The table below summarizes the standard modules that can be tied in to the core **ContraXcentral™** engine. Other features and modules may be added or customized to fit into the application framework as needed, we leave this to you to tell us what you need.

Note: If there are other areas that we have not covered in the standard modules, our Professional Services team can build them to your requirements.

The subsequent chapters that follow detail more specifics of each module summarized here.

FEATURE	CONTRACT BASIS				
	FOB	CIF/ CNF	Domestic Delivered	Domestic Collection	Futures
<b>Contract Book</b>					
Contract Entry	√	√	√	√	√
Trade Confirmation	√	√	√	√	n/a
Contract Printing	√	√	√	√	n/a
Electronic Contract File showing contract details, execution status, string details, and messages	√	√	√	√	n/a
“Search” feature to find contracts that match specified query parameters	√	√	√	√	√
Full audit trail per contract to track changes made, stamped with details on username and date/time	√	√	√	√	n/a
Multiple, independent contract books for different functions or business units	√	√	√	√	√
<b>Position Book</b>					
Positions Summary	√	√	√	√	√
Track “Open” Positions	√	√	√	√	√
Monitor “Closed” positions	√	√	√	√	√
String/Circle/Washout	√	√	√	√	n/a
Apply physical Purchase to fulfill physical Sale	√	√	√	√	n/a
Allocate Sales to Factory Orders or Inventory Commitments	√	√	√	√	n/a
Allocate Purchase to Inventory	√	√	√	√	n/a

FEATURE	CONTRACT BASIS				
	FOB	CIF/ CNF	Domestic Delivered	Domestic Collection	Futures
<b>Execution Book</b>					
Track Contract Life-Cycle	√	√	√	√	√
Organize and list contracts in specific stages of life-cycle, for easy execution and follow-up monitoring	√	√	√	√	√
Automatic e-mail reminders and alerts for contracts requiring immediate action or approaching specific deadlines	√	√	√	√	√
<b>Shipping Book</b>					
Manage and execute voyage life-cycle for FOB-CNF/CIF shipments	√	√	n/a	n/a	n/a
Track overhead costs for shipping, surveying, insurance, etc.	√	√	n/a	n/a	n/a
Generate per-shipment P&L	√	√	n/a	n/a	n/a
Generate vessel nominations and shipping instructions for all FOB contracts attached to the shipment	√	√	n/a	n/a	n/a
Draft vessel enquiries to shipbrokers	√	√	n/a	n/a	n/a
Full audit trail on all changes and updates	√	√	n/a	n/a	n/a
<b>Domestic Delivery Book</b>					
Track outstanding contract commitments vs deliveries	n/a	n/a	√	n/a	n/a
Plan and coordinate delivery schedules	n/a	n/a	√	n/a	n/a
Print delivery orders	n/a	n/a	√	n/a	n/a
Update discharged quantities and quality for billing adjustments and statistical reports	n/a	n/a	√	n/a	n/a
<b>Domestic Collection Book</b>					
Track outstanding contract commitments vs deliveries	n/a	n/a	n/a	√	n/a
Plan and coordinate collection schedules	n/a	n/a	n/a	√	n/a
Print delivery orders	n/a	n/a	n/a	√	n/a
Update discharged quantities and quality for billing adjustments and statistical reports	n/a	n/a	n/a	√	n/a

FEATURE	CONTRACT BASIS				
	FOB	CIF/ CNF	Domestic Delivered	Domestic Collection	Futures
<p><b>Inventory Management</b></p> <p>Track and manage bulk and packaged inventory at multiple locations</p> <p>FIFO/LIFO/Weighted Average costing</p> <p>Tracks qty on hand vs qty committed to current and forward sales</p> <p>Tracks lot/batch numbers</p> <p>Inventory transfers between locations</p> <p>Integrates with other modules (production, delivery, collection, purchasing) for automatic inventory updates</p> <p>Inventory adjustments for stock taking with variance reports</p> <p>Interfaces to GL module of most mid-range and high-end accounting packages and ERP systems</p>	<p><b>(independent of any contract type)</b></p> <p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p>				
<p><b>Production</b></p> <p>Plan production schedules at multiple production facilities</p> <p>Compare projected production schedules vs inventory/delivery commitments</p> <p>Record production batches with quantity produced and qualitative analysis</p> <p>Automatically update raw material and finished goods inventory at each production run</p> <p>Integrates with Inventory Management and other <b>ContraXcentral™</b> modules for production planning and reporting against allocated contracts and inventory commitments</p>	<p><b>(independent of any contract type)</b></p> <p>√</p> <p>√</p> <p>√</p> <p>√</p> <p>√</p>				

FEATURE	CONTRACT BASIS				
	FOB	CIF/ CNF	Domestic Delivered	Domestic Collection	Futures
<b>Accounts Receivable</b>					
Invoicing for various contract types, either by batch, or per contract as each contract is ready for billing	√	√	√	√	n/a
Incremental invoicing for contracts that require multiple shipments	n/a	n/a	√	√	n/a
Proforma invoices	√	√	√	√	n/a
Customs invoices	n/a	√	n/a	n/a	n/a
Credit/Debit notes	√	√	√	√	n/a
Claims and Adjustments	√	√	√	√	n/a
Record payments received	√	√	√	√	n/a
Record advance payments	√	√	√	√	n/a
Print Statements of Accounts per customer	√	√	√	√	n/a
Standard ageing & receivables reports	√	√	√	√	n/a
Interfaces to GL module of most mid-range and high-end accounting packages and ERP systems	√	√	√	√	n/a
<b>Accounts Payable</b>					
Validate invoices received against contract commitments (purchase contracts, and services rendered per shipment)	√	√	√	√	n/a
Enter validated invoices and track payables	√	√	√	√	n/a
On-line selection and approval for payment by selected (authorized) users	√	√	√	√	n/a
Automatic payment approval against selected vendors, with trigger on invoice age	√	√	√	√	n/a
Print cheques and payment vouchers against payables approved for payment	√	√	√	√	n/a
Standard ageing and payables reports	√	√	√	√	n/a
Interfaces to GL module of most mid-range and high-end accounting packages and ERP systems	√	√	√	√	n/a

FEATURE	CONTRACT BASIS				
	FOB	CIF/ CNF	Domestic Delivered	Domestic Collection	Futures
<b>Standard Trading Reports</b>					
Positions	√	√	√	√	√
Mark-to-Market	√	√	√	√	√
Exposure (against counterparties)	√	√	√	√	√
Market share (vs counterparties)	√	√	√	√	n/a
Profit & Loss per shipment	√	√	√	√	
Profit & Loss for strings/circles (“paper” trades)	√	√	√	√	√
Team Performance	√	√	√	√	√
Traders’ Performance	√	√	√	√	√

The subsequent chapters that follow detail more specifics of each module summarized here.

# CONTRACT BOOK

## Overview

The **ContraXcentral™ Contract Book** has the following main features:

- Lists contracts in chronological order (Master Contract view)



- Allows for data entry of new contracts into the system, with data validation specific for the contract type
- Allows for confirmation of new contracts, and the automatic drafting of trade confirmation telexes and contracts
- Click on a contract number in the master list, and a Contract File window opens. The Contract File shows, in separate sections, the contract details, status, message list, change log (audit trail), and string details, as appropriate for the contract type
- Allows for searching for contracts that match user-specified parameters

## Contract Entry

The following paragraphs detail the features for Contract Entry in the following areas:

Standard Details	entering standard details common to most contracts
Specific Details	entering details specific to the basis of the contract
Validations	system checks performed before committing entered data to the database
Additional Features	other features for ease of use of the application

These features are described below.

## Standard Details

- Type: Direct Trades, Brokered Trades
- Basis/Terms/Commodity:

Basis	Contract Terms
FOB	PORAM 2, FOSFA 52, 53
CIF/CNF	FOSFA 54, 61, 80, 81, Custom
CIF/CNF-Domestic	PORAM 6
Delivery	PORAM 1, FOSFA 70, 72A, 90, 90A, GROFOR, NOFOTA
Collection	PORAM 1, FOSFA 62, 70, 90, 90A, GROFOR, NOFOTA

- Packaging: bulk
- Shipment Period: fixed month, specific dates to suit vessel laycan, or staggered shipment period, whether extension is allowed or not



- Port: confirmed or optional port(s), port price differences
- Specification: confirmed or optional specification(s), specification price differences
- Payment terms: CAD, LC or other
- Commission details: broker, co-broker, and service commissions
- Adjustment details: allow User to specify their own adjustment terms or use the standard terms
- Quality/weight: SQ/SW, SQ/LW, LQ/SW, LQ/LW
- Surveyor appointment: the party responsible for appointing the surveyor, and paying for the surveyor fee
- Special condition(s): other miscellaneous conditions of the contract

## Specific Details

- FOB
  - Additional FOSFA 53 fields, i.e. loading, demurrage and extension rates
  - Time pre-advise: override default deadlines for certain contract execution dates, i.e. port declaration, vessel nomination and shipping instruction
- CNF/CIF
  - Shipment terms: a range of shipment terms, such as restriction on vessel age, vessel flags, and last cargo
- Delivery & Collection
  - Option to convert to CIF, including the discount price if converted to CIF basis
  - Mode of transportation: road tanker, vessel or rail car

## Validations

For every contracts entered, system performed basic validations of the contract details, such as:

- FOB PORAM 2:
  - If current date is beyond the conventional port declaration date, system checks if User entered a confirmed port or an alternative date for port declaration
  - If current date is beyond the conventional vessel nomination date, or if shipment period specified is 7 days, system checks if User entered a vessel name or an alternative date for vessel nomination
  - If current date is beyond the conventional SI issue date, system checks if User entered an alternative date for issuing SI

All validation checks that fail, result in the system producing warning messages. The System Administrator can set whether the system will allow users to override warnings and enter data despite validation checks that fail.

## Additional Features

- Display default values in the Contract Entry form. The values, which are customizable, are:
  - Contract date/time: current date/time
  - Commodity: CPO
  - Shipment period: month next from current
  - Quantity unit: MT
  - Packaging: bulk
  - Currency: fully multi-currency
  - Adjustment: standard
  - Automatic generation of contract reference number, as specified by the user in the system administration section
  - Display contract details entered before committing

## Trade Confirmation

Trade Confirmation is a separate process from Contract Entry, so a more senior person can review and approve contracts entered in the system, and automatically generate the trade confirmation telexes. The features available for Trade Confirmation are:

- Automatic drafting of trade confirmation telexes
- Sending drafted trade confirmation telex to counter-party. Trade confirmation message may also be sent using fax or email
- Printing batch copies of actual contract on a daily basis

The screenshot shows a 'Trade Confirmation' window with a 'Compose' tab selected. It contains a 'Header' section with fields for DATE (02-NOV-2007), REF (184), and FROM (SYNERGY DRIVE). The 'Subject' field contains 'SUBJ : OUR CTR: S/AGC/1207/CP0500184 DATED 02-NOV-2007'. The 'Msg Body' contains the following text: 'WE ARE PLEASD TO CONFIRM THE FING TRADE', '-- SELLER --', 'SYNERGY DRIVE', 'SYNERGY DRIVE CORPORATION DEMO ADDRESS', '-- BUYER --', 'JARHUS KARLSHAMN DENMARK A/S', 'N. P. BRUNNS GATE 27'.

## Contract File

A Contract File is displayed when a user clicks on a contract number in a list, e.g. Master Contract Book or Execution Book. This is designed as an on-screen representation of a physical contract file that users are familiar with.

- Displays contract details and current status
- Allows users to update string parties
- Displays the execution status of a contract and the notices sent to counter-party
- Execute the contract
- Automatically drafts messages for execution notices
- Files messages related to the contract
- Displays an audit trail of all changes and updates to the contract, listing the username, date and time, and the details of the update

The screenshot shows a 'Contract File' window with a 'Basic Contract Details' section. It displays contract information for Contract Ref: S/AGC/1207/CP0500184, dated 02-NOV-2007. The seller is JARHUS KARLSHAMN DENMARK A/S and the buyer is SYNERGY DRIVE CORPORATION DEMO ADDRESS. The commodity is CPO50% and the quantity is 100.0000 MT. The price is 1,323.0000. The contract type is PHYSICAL and the commodity description is CRUDE PALM OIL (SPINAKE). The payment terms are PAYMENT BEFORE DELIVERY.



# LOGISTICS BOOKS

## Overview

ContraXcentral™ has various **Logistics Books** that allow you to track, monitor and manage physical shipments. Contracts enter one of the Logistics Books when it is applied against physical shipment from the Position Book.

## Operations Book

The **Operations Book** manages FOB/CNF/CIF shipments by sea. It efficiently manages the execution and documentation of all international trade both receiving and dispatch. It also allows you to manage voyages where physical stock is taken from Inventory, and sold and delivered CNF/CIF.

- Basis: FOB (purchases), CNF/CIF (sales)
- Operations Book also includes the following sections:
  - *Voyage Files*: lists details of a shipment, including the sales and purchase contracts, vessel name and voyage, freight fixture details, space booked on vessel, load and destination ports, and execution status
  - *Cargo Packages*: lists the applied purchase/sales packages that are not yet assigned to any voyage files

Similar to Position Book, User may close/open the views of the different sections.

- Calculates the balance of sales and purchase contracts, compared to the space booked on vessel for each voyage file

Specification Declaration						
<input type="button" value="Declare"/>						
Spec(s): CPO2%						
Status: <input checked="" type="checkbox"/> Declared						
Date: 03-Nov-2007 9:01 AM						
User: JustCommodity Technical Support						
Message Rate: 15%						
Destination Port Declaration						
<input type="button" value="Declare"/>						
Port(s): ROT						
Status: <input checked="" type="checkbox"/> Declared						
Date: 03-Nov-2007 9:01 AM						
User: JustCommodity Technical Support						
Message Rate: 15%						
Vessel Nomination						
<input type="button" value="Nominate"/>						
Status: Real vessel has been nominated						
Vessel	Logyan Start	Logyan End	Date	By	Msg Rate	
44444	01-DEC-2007	01-DEC-2007	03-Nov-2007 9:28 AM	JustCommodity Technical Support	15%	STP

## Goods Dispatch Book

The **Goods Dispatch Book** manages physical ex-tank (destination) sales, with transportation in bulk by tanker truck. It manages the life-cycle of deliveries, from coordinating delivery schedules with the mills or refineries, to printing delivery orders, updating delivered quantities, printing invoices, and reports.

- Basis: ex-tank (delivered, by tanker truck)
- User defines what files to display in shipping book (based on date, shipment month and commodity)
- Delivery Book sections:
  - *Contracts to fulfill*: lists contracts to fulfill for the current month
  - *Delivery schedule*: lists deliveries for the selected date and the tanker details
- Calculates the balance of delivered/collected quantities, compared to the total quantities to be delivered/collected

## Goods Receipt Book

The **Goods Receipt Book** keeps track of physical ex-factory (mill or refinery) or ex-warehouse (at origin) sales. It manages the life-cycle of collections, from coordinating collection schedules with the production or storage facilities, to printing delivery orders, updating delivered quantities, printing invoices, and reports.

- Basis: ex-factory / ex-warehouse (collection)
- User defines what files to display in shipping book (based on date, shipment month and commodity)
- Collection Book sections:
  - *Contracts to fulfill*: lists contracts to fulfill for the current month
  - *Delivery schedule*: lists deliveries for the selected date and the tanker details
- Calculates the balance of delivered/collected quantities, compared to the total quantities to be delivered/collected



# INVENTORY MANAGEMENT

## Overview

The **ContraXcentral™ Stock Book (SB)** module allows you to track bulk and packaged inventory at multiple locations. It interfaces with the **Production Book** module to automatically update your raw material, work-in-process, and finished goods inventories on production runs.

**SB** interfaces with the **Position Book** to automatically update inventory commitments (allocated demands of inventory for future shipments against contracts, or allocated supply of inventory purchased against contracts.) Inventory Commitments is a key **ContraXcentral™** feature used to drive production scheduling, and as a tool to view forward positions and commits across the supply chain.

**SB** also interfaces with the **Fulfillment Book** to automatically update inventory on-hand as a result of physical shipments.

## Features

- Bulk or packaged inventory
- Batch and lot number tracking
- Multiple locations, multiple storage facilities
- Customizable packing types for packaged inventory
- FIFO, LIFO, and Weighted Average costing
- Interfaces to Production Module for automated inventory (raw material, work-in-process, and finished goods inventory) updates on production runs
- Interfaces to Positions Book to automatically update inventory commitments when open contracts are allocated to physical
- Interfaces to Fulfillment Book (Shipping Book, Delivery Book, Collection Book) to automatically update inventory commitments and quantity on hand when inventory is delivered or collected
- Interfaces to General Ledger module of most mid-level and better financial accounting systems and ERP systems to post periodic inventory valuations
- Facility for printing stock-taking forms, and manual inventory adjustments for discrepancies
- Facility for manual inventory transfers in and out of the system, or inventory transfers between locations
- Standard reports include Inventory Valuation, Inventory Movement, Discrepancies Report, Inventory Turnover, and Inventory Commitments

# PRODUCTION MANAGEMENT

## Overview

The **ContraXcentral™ Production Book (PB)** module allows you to schedule, execute, and record the results of production runs. It interfaces with the **Stock Book** module for production scheduling (against inventory commitments) and automatically updates raw material, work-in-process, and finished goods inventory at the conclusion of each job. Qualitative Analysis, batch numbers, etc may be recorded against each job upon conclusion of the production run.

The **PB** module works with both bulk as well as packaged inventory, and is used essentially to transform inventory from one type to another as part of a production process, and/or one packaging from one type to another as part of a packaging process.

## Features

- Set up Production module for multiple production facilities at multiple sites
- Production Scheduling Wizard assists in scheduling of production jobs to fulfill inventory commitments (inventory commitments are created when open sales contracts are allocated to physical delivery). The Production Scheduling Wizard helps to optimize production planning within constraints of product demand, production capacity, and raw material supply
- Manually schedule production runs as necessary
- Run production batches against Bill of Material (BOM) templates, pre-configured for different product types, specifications, and packaging
- “Multi-Tier” BOM definitions allow you to manage and execute multi-process production runs
- Print Job Order forms for executing production batches in the factory
- Record actual inventory consumed, produced, and written-off and the end of every production run, for batch records, and for variance reports against (pre-configured) “standard” yields
- Record Qualitative Analysis results at the end of production runs for batch records and QA reports
- Standard reports include Production Report (including quality and quantity variance), Yield Reports, Production Schedule/Forecast Report, and Production Journal

# ACCOUNTS RECEIVABLE

## Overview

The **ContraXcentral™ Accounts Receivables (AR)** module manages the invoicing and receipt cycle for different contract types, including domestic deliveries, export shipments, circles and washouts.

**ContraXcentral™ AR** prints Invoices in different formats as required for different contract types, either by batch, or on-demand as soon as contracts become ready for billing. It also handles multiple incremental billings per contract, for example in domestic deliveries where multiple deliveries are required to fulfill a contract.

**ContraXcentral™ AR** allows you to enter receipts and monitor invoice ageing. Prepayments are accepted and may be used as a control against delivery approvals where required.

## Features

- Interface with **ContraXcentral™ Contract Book, Positions Book, and Fulfillment Book** for automatic printing of invoices in required formats either by batch or on demand
- Record receipts either as cash, cheque, or telegraphic transfer, with follow-up options to verify and record actual amount deposited (in case of TT or currency conversion.)
- Generate Debit/Credit Note adjustments for quality/quantity variances
- Generate Proforma Invoices
- Generate Customs Invoices
- Generate other invoices, debit notes, and credit notes for non-trade related activities
- Multiple bank accounts and multiple currencies
- Standard reports include Statements of Accounts, AR Ageing, Customer Performance Summary, Invoice Journal, Receipts Journal, and Posting Report (in summary and detail) to General Ledger

# ACCOUNTS PAYABLE

## Overview

**ContraXcentral™ Accounts Payable (AP)** module manages the payment cycle for trade and non-trade liabilities. Invoices received are recorded, and tracked until the balance of the payable is fully paid or written off. **AP** allows you to view payables, and selectively approve and schedule payments either in part or in full. Optionally, AP helps you automatically schedule payments for selected key vendors, to be triggered by invoice age. The **AP** Payment Run process prints payment advices on approved and scheduled payments, and optionally prints cheques on bank-approved stationary.

**ContraXcentral™ AP** interfaces with the **Fulfillment Book** to help you validate invoices received against actual products received (from purchase contracts) or services rendered (e.g. shipping, insurance, surveying, etc.)

**ContraXcentral™ AP** handles multiple bank accounts in multiple currencies, and interfaces to the General Ledger of most mid-range and better accounting and ERP systems, like Platinum™ for Windows.

## Features

- Track open invoices, debit notes, and credit notes
- Make payments against open invoices, either in part or in full
- Track balance of payments for partially paid invoices
- Validate invoices received against purchase contracts or services rendered (e.g. shipping, insurance, surveying, etc.)
- Print payment vouchers
- Print cheques on bank-approved stationary
- Multiple bank accounts and multiple currencies
- Standard reports include AP Ageing, AP Journal, Payment Journal, and Posting Report (in summary and detail) to General Ledger

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# MESSAGING

## Overview

The **ContraXcentral™ Messaging Sub-System** (MSS) integrates a full-featured messaging system into the core product.

At the front end, the MSS provides an email-like interface for users to create, edit and send messages to their counterparties, while at the back-end, these messages may be sent as either telex, fax, or email, or a combination thereof.

In most cases, MSS automatically drafts messages for the user upon completion of a data entry form. (This is especially so for contractual declarations, nominations, etc.) For example, a trade confirmation telex is automatically drafted upon confirming that data entry for a new contract is correct.

By combining the data entry process with the message (telex) drafting process, **ContraXcentral™** ensures firstly that your system is always accurately up-to-date with the latest status, and secondly that the messages (declarations, etc.) sent to your counterparty always match the details that you have in your system. So, **ContraXcentral™** not only saves you time and effort, but guarantees that the reports from the system are accurate with up-to-the-second data.

All messages sent are automatically filed with their relevant contracts and/or voyages.

## Features

- Integrated messaging system, with gateways to telex, fax, and email
- Electronic filing of messages with relevant contract files and/or voyage files
- Automatic drafting of messages with most transactions
- Message editor for manual drafting of messages
- Fully integrated with system Address Book

# MISCELLANEOUS

## Security

The security features built-in to the system are:

- In order to access any of the features, users must first log in to the system, providing their username and a valid password. The system validates user authentication against encrypted password database
- Users belong to one or more roles, which define their privileges on the system
- The system administrator may restrict access by creating roles, defining rights to roles, and assigning one or more roles to each user. The extent of what each user can see and do on the system is defined by the sum total of the rights each respective user inherits from the roles that they belong to
- All communication between the user interface (web browser) and the **ContraXcentral™** server may optionally be encrypted via the standard SSL or TLS mechanisms. Encryption becomes an essential security precaution if you intend to provide remote connections over public infrastructure such as phone lines or the Internet

## System Administration

The System Administrator may configure and customize the following:

- Company information: profile, contact details
- Trading limits (by quantity or exposure): overall company, per department/team, per trader, and per trading partner (counterparty)
- User details: departments, roles, privileges, contact details
- Address book: master list of contact details of trade partners
  - Functions: add, delete, list, search, update details
  - Trade partners: Traders, Brokers, Surveyors, Shipping Agents, Insurance, Bankers, Ship Brokers, etc
- Master lists, such as commodities, ports, currencies, and contract basis
- Format of contract reference numbers, voyage files numbers, and delivery orders, invoice numbers, etc
- The counter (next number) for contract reference numbers, voyage files numbers, and delivery orders, invoice numbers, etc
- Customization of
  - Specifications for commodities
  - Contract adjustment terms
  - Payment terms
  - CNF/CIF shipment terms
  - Shipping Instructions templates

## Database Administration

The System Administrator may configure and perform the following:

- Create data backup (backup to tape, disk file, or other suitable backup device)
- Perform data recovery (restore database from tape, disk file, or other suitable backup device)
- Configure automatic periodic backup (e.g. automatic backup of database to tape every night.)

# TECHNICAL SOLUTION

## Application Structure

This section gives an overall description of the technical solution. The proposed solution provides a web interface on an intranet and contains the following:

- User Workstations
- **ContraXcentral™ Server**, consisting of:
  - Web Server
  - Application Server
  - Database Server

## User Workstations

The user workstations will run on Microsoft Windows 95/98/Me or Windows NT/2000/XP. Users access the **ContraXcentral™** application through the Microsoft Internet Explorer (IE 6.0 or above) web browser, by connecting to the web server on the corporate intranet.

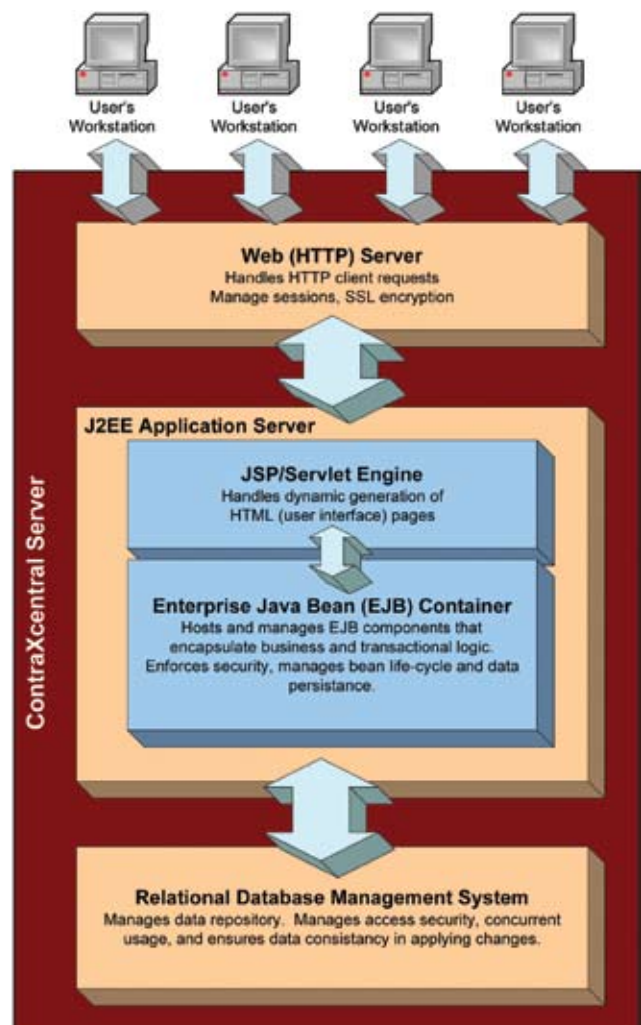
## ContraXcentral™ Server

### Architectural Overview

The **ContraXcentral™** Server consists of the following components: the HTTP, J2EE, and RDBMS servers.

The HTTP or Web Server fulfills requests from the browsers on the users' workstations. It interacts with the J2EE Server and returns formatted web pages to the user, thereby providing the main user interface into the **ContraXcentral™** application. The Web server is responsible for the first layer of session management, and for encryption of the communications channel with the users' workstations via SSL.

The J2EE Application Server has two main parts: the JSP (Java Server Pages)/Servlet Engine, and the EJB (Enterprise Java Beans) Container.



The JSP/Servlet engine is responsible for the user interface logic and workflow. It responds to input from the users' web browsers, interacts with the business logic in the EJB container, and dynamically generates appropriate output (Web pages) for the HTTP server to deliver to the users' web browsers.

The EJB Container encapsulates all the business rules and transactional logic that make up the actual application structure. The EJB Container manages security and controls access to methods, thereby enforcing policies on what each user on the system can and cannot do.

The RDBMS, or Relational Database Management System, functions as an intelligent data repository. It manages multi-user access to the data repository, and ensures consistency of the data as changes are applied.

## Technical Components

**ContraXcentral™** ships out of the box with the following components:

HTTP (Web) Server	Apache Tomcat (latest)
Application Server	JBoss 4.0.5
Relational Database Management System	Firebird 2.0

*Default Software Components shipped with **ContraXcentral™***

The default components are all world-class software that is in widespread use, and which have garnered reputations for high stability, reliability, and performance. All these components are distributed under open-source software licenses.

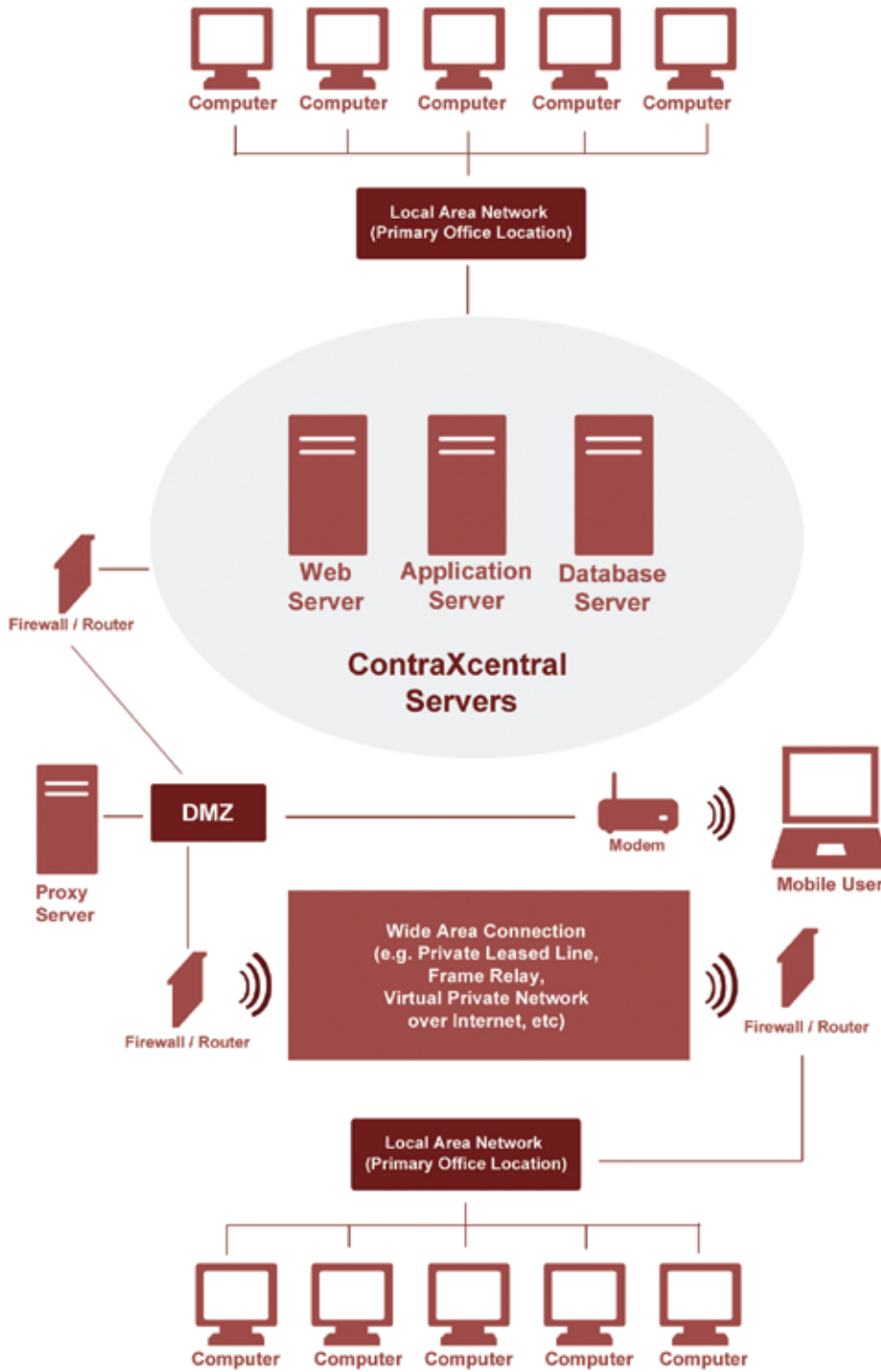
**ContraXcentral™** may also, upon request, be deployed against your preferred commercial application server (e.g. BEA WebLogic, IBM WebSphere, etc.) and/or database system (e.g. Oracle, IBM DB2, etc.)

## Deployment Options

The various components of the proposed solution (i.e. the Web Server, Application Server and Database Server) can be deployed in a variety of ways. We recommend that you initially deploy all components to run together on a single hardware server. The individual components can also be deployed separately, each on its own server, to scale to meet the workload imposed by hundreds or even thousands of users.

As the solution is architected as a multi-tiered Web application, there is a great deal of flexibility in deployment to serve a large and dispersed user base. As the following diagram shows, by managing the network infrastructure, the system can easily and securely scale to serve users in the home (head) office, users in branch (remote) offices, and mobile users at home or traveling on business. ContraXcentral™ is accessible to users over your corporate TCP/IP infrastructure, whether it be a single office Local Area Network (LAN), a campus Wide Area Network (WAN), your corporate-wide Virtual Private Network (VPN), or dial-up Remote Access Service (RAS).

Communication between the **ContraXcentral™** server and the user's computers may be encrypted via the standard SSL or TLS mechanisms.



ContraXcentral™ supports remote offices and remote users

## CONTACT INFORMATION

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