



SATOSHI SYSTEMS

MINERVA
CTRM Fact Sheet



Contract Management

Full flexibility and control to effectively manage the contract life cycle with one single point of data entry.

Streamlined contract management features enable quick and easy entry of multi-commodity, multi-product, long-term and forward contracts. Designed to make the complexity of the commodity contract as simple and as efficient as possible.

Choice of Contract Types	The ability to enter and manage unpriced or fully fixed contracts for any term whether it is a week-long or for multiple years.
Contract Pricing	Flexible, complex and multi-tier pricing rules for each type of contract. Contracts can be fixed from the start, provisionally priced based on the market, partially fixed and much more. Dates can be enforced with automated alerts and validation rules.
Multi-Product	Multiple products with their own pricing rules can be specified in a single master contract.
Optionality	Options to add destinations or delivery dates with specific pricing rules can be stipulated in the master contract.
Foreign Currency	Flexible degrees of complexity can be handled effortlessly with the ability to enter a differing contract, premium and market currencies when pricing a contract.
Subcontracts	The master contract can be intuitively split between multiple delivery months using our subcontract wizard. The pricing rules established in the master contract can be refined per delivery, price fixations can be applied, and provisional costing can be submitted.
Curve Valuation	Each subcontract can be re-valued against real-time market prices and against different curves selected by the user.
Quality	Quality attributes are stipulated and tracked for the master contract.
Printable Contract	A fully customised print out is generated and can be sent via a fully integrated e-mail service. Integration with DocuSign and other e-signature providers is available.
Sales and Purchase Contract Allocation	Functionality to allocate back to back/3rd party contracts against each other for a drop shipment.
One to One Automatic Hedge	A simple one to one hedge is generated with the click of a button using the information available in the contract.
Limits Management	Easily manage credit and exposure limits by clients and products
Origin Prepayments	Prepayments are managed via the AP modules and can be allocated to contracts with their own specific rules



Derivatives and FX

Create, maintain, capture, control Derivative and FX trades either manually or using an API connection.

The Derivatives module provides the framework for handling hedges and the paper trades in the Minerva CTRM. API connectivity, reconciliation and approval tasks minimise errors and provide confidence in the reports.

Futures, Options and FX	Easily enter and maintain futures, options and FX trades in Minerva. Real time reporting and alerts are setup to make managing the market trading and hedging side of the business as simple as possible.
Contract Hedge Allocations	Allocate futures or options to contracts either manually or automatically using a wizard.
Middle Office Approvals	Processing screens to approve newly entered trades by users with the correct rights.
Switches	Roll overs for future contracts are managed easily using real time prices and a simple entry screen. Switches can also be scheduled automatically using customised rules and approvals
Arbitrage	Arbitrage management with a P&L that is immediately available.
Complex Structures	The derivatives framework allows for complex structures and pricing mechanisms customised for the business.
Real Time Prices	API with interactive brokers is already established. Subscribed market tickers are managed directly via the Minerva interface to capture real time prices. Minerva makes use of standard REST and SOAP APIs for connecting with any Direct Market Access Application.
Real Time Entry or Capture	Trades can be automatically captured in Minerva directly from a DMA application or a request for a new order can be sent in real-time through the user interface.
Real Time Fills	Executions/Fills are updated in real-time using a DMA application such as Interactive Brokers.
Reporting	All trades can be assigned to specific commodities or commodity types. The position report can be visualised in dashboards and alerts.
OTC	Coming soon.



Visualisation and Reporting

Integrated, dynamic and real-time visualisations.

Visualisations and reporting are two key modules in Minerva that provide the analytics to run a business as efficiently as possible. Crucial decisions can be made throughout the day using the reporting tools already available in Minerva.

Complex Calculations	Complex calculations can be edited directly in the user interface for the interactive reports or dashboards within Minerva.
Dashboards	Dashboards can display all the CTRM Information in Minerva from the Contracts and their hedges to the Position and the Valuation.
Reporting	Options available for traditional printable reports designed by Minerva experts or interactive reports created by trained users.
Mark 2 Market Valuation	Real Time MTM reporting using up to date futures prices to provide a Mark to Market on unrealised open contracts
Position Management	Monitor and manage the entire position of the company in real-time using dashboards, pivoted data tables or even a traditional printed report.
Pre-deal Analytics (What-If?)	Coming Soon.
VaR	Coming Soon.
Greeks	Coming Soon.
Simulations	Coming Soon.
Hedge Effectiveness	Coming Soon.
Portfolio Sensitivity Analysis	Coming Soon.
P&L Attribution	Coming Soon.