



# Spiral Suite

## Unified Supply Chain Management

build knowledge, build process, build profitability

Spiral Suite is the only platform for unified supply chain management of hydrocarbons. Designed from the ground up to simplify, standardise and accelerate feedstock management, trading, plant and network optimization, scheduling and process unit monitoring, Spiral Suite's single source of knowledge allows enterprises to share and communicate decisions between diverse teams, promoting collaboration and discussion across global locations. Built for modern workflows, Unified Supply Chain Management ensures security and visibility of supply chain knowledge, with simple, consistent access to data and easy integration to external business systems.

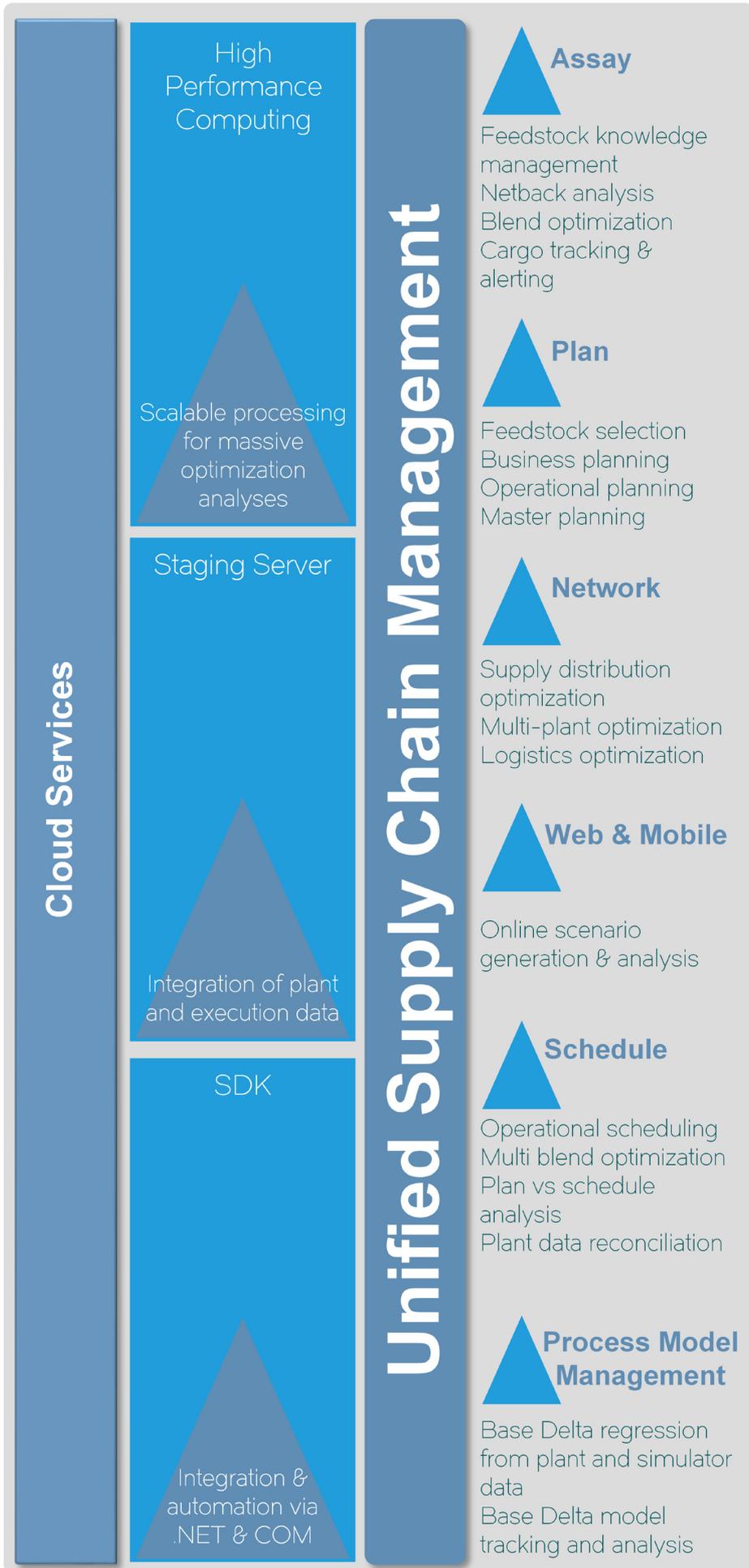
Unified Supply Chain Management means supporting legacy work processes across large and small enterprises, while introducing entirely new workflows that eliminate manual tasks and create instant cross-boundary collaboration. For the first time, planning, scheduling, assay management and supply distribution can share the same understanding of the plant and of the business. Let users concentrate on their tasks while building on established business rules.

The screenshot displays the Spiral Suite software interface, which is divided into several functional areas:

- Stacked bar chart:** A chart showing the composition of a feedstock, with categories like Crude Light, Crude, Lower Zakum, and Crude.
- Flowchart:** A process flow diagram showing various units and streams, including Naphtha Pool, DHT Feed Pool, and Distillation Hydrocracker.
- Watch:** A table showing key constraints and their values, such as CDU1 Capacity.
- Solution Metrics:** A table showing the results of an optimization run, including values for various metrics and their solutions.
- Tabular - Crude Tanks:** A detailed table showing the inventory and flow of crude oil in various tanks, including columns for Start, Heading, T101 Service, Feed 1, Port Pipeline, T101, CDU1, T102 Service, Feed 1, and T102.
- Overview Inspector:** A window showing the details of a specific asset, such as the P102 Red Admiral inventory.
- Gantt - Crude Tanks:** A Gantt chart showing the scheduling of crude oil flows over time, with bars representing different tanks and their activities.

Easy and fast to learn and use, Spiral Suite lets new and experienced users quickly start making and sharing decisions, with seamless transfer of data between the specialised modules, full transparency in the changes between individuals, and simple customization to let users see input and output in the manner most familiar to them. Make decisions you can understand and implement, with confidence to adapt as the business needs grow.

one business, one tool



The unified architecture of Spiral Suite seamlessly supports multiple users and multiple workflows across diverse business groups. Unified Supply Chain Management allows enterprises to obtain consistency, transparency and visibility in decision making, enabling easy and confident sharing of feedstock information, planning decisions, potential schedules, process model updates and pricing amongst other business critical information.

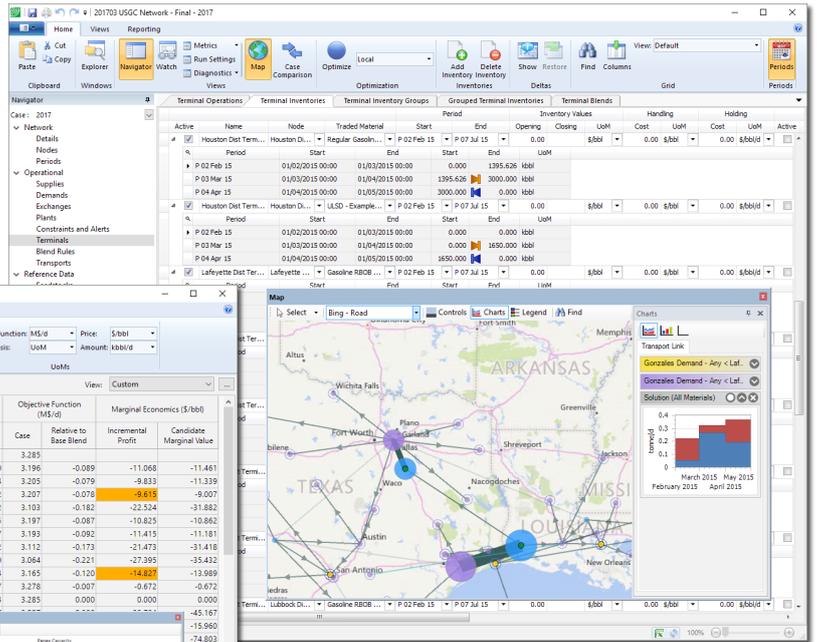
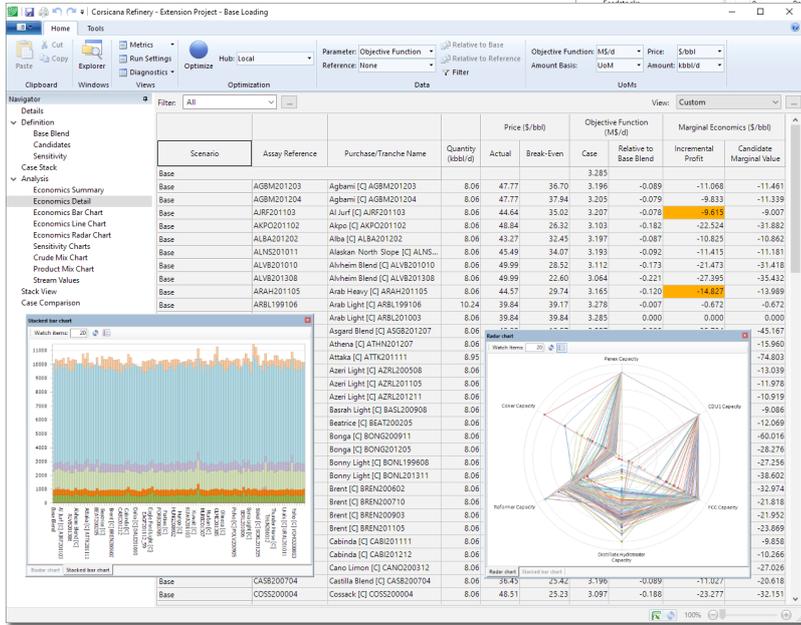
Whether licensed as a whole, or as separate modules integrated with existing point solutions, Spiral Suite helps improve and optimize workflows in small and large enterprises. Flexible and modern integration mechanisms make working with existing business systems and processes simple, with easy access to underlying data and results, whilst still retaining the security and versioning model used to ensure consistency between colleagues.

With specialised workflows in each module helping users quickly and consistently contribute, Spiral Suite lets individuals take advantage of the knowledge repository at the heart of Unified Supply Chain Management, whilst still giving them the flexibility to work as they need to. The scalable and modular architecture allows users to focus on the core business and adapt the tool as required. Changes in operations, changes in workflow and changes in user base are easily adapted too, with the core reference data framework standardizing and simplifying future extension.

Flexible deployment on-premises or in the cloud means enterprises can securely share information across global locations and make the best use of available distributed computing resources, helping reduce costs and improving the overall speed of business process.

# manage, plan, schedule, distribute

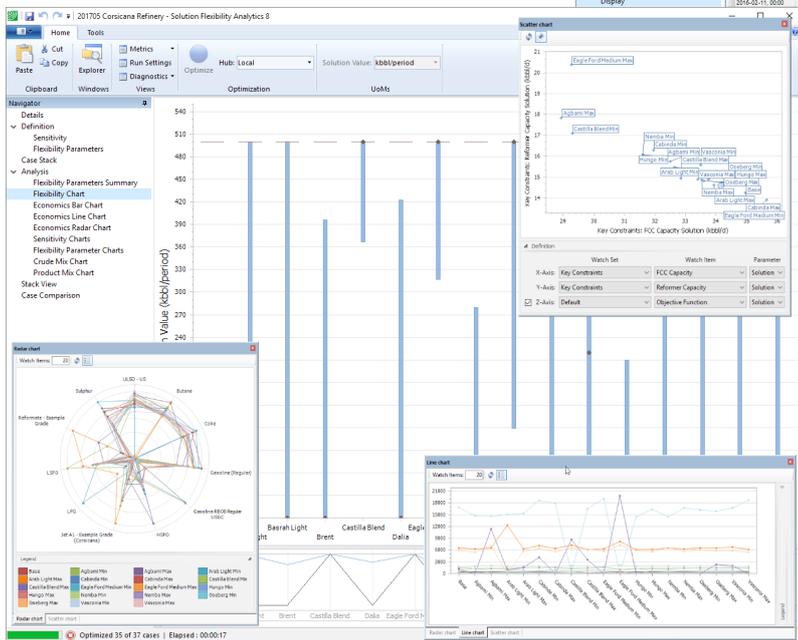
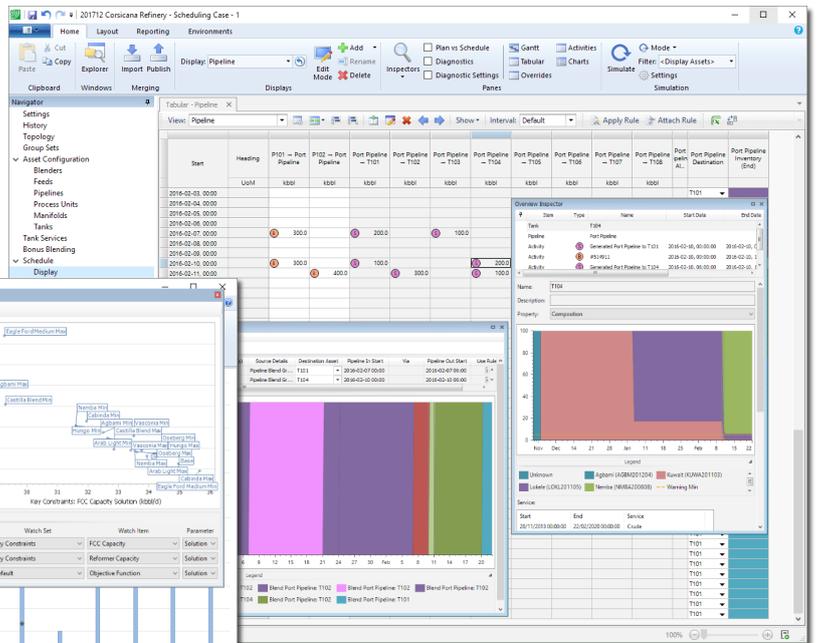
Consistent crude assays, consistent process models, consistent pricing, Spiral Suite ensures this and all supply chain knowledge is available to all approved users, displayed flexibly in the correct context, helping users manage the entire business life-cycle from master planning to feedstock selection, plant scheduling and post-execution analysis,



Spiral Suite ensures each part of the process can build on the experience and decisions of others. Seamless workflows let users transfer knowledge and understanding between business groups, helping minimize gaps and losses due to errors in data transfer.

# configure, run, analyze and share in minutes

Easy to setup for users and IT organizations, easy-to-scale and easy-to-integrate, Spiral Suite enables new and experienced staff to start making decisions quickly. Intuitive and customizable feedback means users can adapt to changing business requirements. Spiral Suite helps enterprises make the best



use of their assets, adapting for future software and technology investments. Access to cloud processing enables massive and fast analysis, improving robustness in decision making, whilst the built-in analytics make understanding and analyzing results fast and easy.

