NTT DATA

CMO COCKPIT

BETTER, MORE TIMELY SUPPLY CHAIN MANAGEMENT

MORE EFFECTIVE PARTNERING WITH CONTRACT MANUFACTURERS

SAP
Global Partner

WHAT IS IT?

A new approach to supply chain management between pharmaceutical companies and their contract manufacturing organization partners:

- Best practice accelerator to enhance performance across the supply chain.

- Can be easily extended and integrated with any existing SAP S/4 or ECC system without the need for major IT engineering work or heavy investment.

- Provides detailed and timely intelligence across all key functional areas, including:
    - Demand and supply planning.
    - Service order submission.
    - Batch manufacturing record.
    - Compliant CMO manufacturing execution.
    - Batch traceability and Quality Control.
    - QP batch release.
    - CMO invoice verification and all other forms of financial administration.

CMO Cockpit gives all players across the supply chain a single view of the truth, always current and with all business areas covered, and its CSV approach is fully compliant with CFR Part 11 and EudraLex, the legislative framework that governs all pharmaceutical operations for the EU. The solution is built using a proven methodology, based on SAP Activate & GaMP5, and comes with extensive documentation for fast development of CSV files.

THE BUSINESS CASE

There is an increasing trend for life science companies to work in partnership with Contract Manufacturing Organizations (CMOs) to outsource production of medicines. This leads to significant economies of scale, cost reductions and can also be used to simplify logistics by locating production centres close to major markets.

Despite the clear business benefits, this leads to compliance issues as pharmaceutical companies are obliged to meet increasingly tough regulatory requirements for worldwide traceability (right down to the individual unit), market release of products and audit standard reporting.

Standard SAP systems simply do not provide the granular intelligence needed to ensure full compliance in all major jurisdictions, and that has made it necessary in the past for Pharma OEMs and CMOs to carry out complex configuration and master data set-up, together with new manual handling procedures, such as:

- Supply planning across multiple, often incompatible systems.

- Master data planning and associated onboarding within each new potential CMO partner, and this can be a lengthy and complex process.

- Continuous monitoring across every plant and storage unit within the supply chain, including individually managed inter-company transfers and reconciliation, with constant updates to management systems.

CMO Cockpit simplifies every stage and accelerates operations, turning what was once a complex and costly process into a single, end-to-end process.

NTT DATA has a focus on co-innovation together with SAP, customers and other Group Business Units.

ADDRESSING THE CHALLENGE

CMO Cockpit is a set of supply chain management applications that provide integrated overview and planning capabilities for all those engaged in developing and managing supply chain activities, where even the most complex ecosystems are involved, including supply planners, purchasers and other Qualified Persons (QPs). CMO Cockpit is accessed via easy to use, highly customizable dashboards, and is presented through role-based views, so that each practitioner has exactly the insights and tools they need to do their job effectively.

The solution gives fully integrated inventory management and supply planning overviews, while back-end processing steps are automated, so that definitions applied to the front-end interface automatically drive the supply actions needed to deliver the right outcomes.

This enables management to ensure that:

- Product releases are handled in a compliant manner, with full traceability and all reporting needed to satisfy regulatory authorities.

- Supply planning is integrated and managed for maximum operational efficiency. Changing demand patterns are flagged early and accurately analysed, making it simple to request supply from the most strategically suitable CMO to match demand.

- Inter-company transfers can be managed with greater accuracy and speed, as master data governance provides a single view of the truth, enabling administrative and financial issues to be assessed and dealt with fast.

- Existing investments in SAP S/4HANA deliver maximum value, through use of a solution that is complementary and requires a minimum of cost and implementation time.

SMARTER

Main Features

CMO Cockpit includes features designed to simplify supply chain management and deliver higher customer satisfaction, backed by operational efficiency and profit growth.

- Provides **cross-plant** and **multi-material** stock/requirements overview.

- Supports integrated demand management and cross-plant **supply planning** (MPS/MRP) processes.

- Supports easy CMO **Order submission.**

- Simplifies compliant CMO manufacturing execution.

- Integrates service to pay processing for CMOs.

- Quality Inspection, result recording and **batch release.**

- Simplifies CMO onboarding:
    - Support **onboarding** of new CMOs.
    - Easy **master data governance** for new CMOs.

- Guided set-up for new plants (configuration).

- Includes key operational features such as:
    - Purchase to pay.
    - Store to ship.
    - Plan to produce.
    - Inspect to release.
    - Order to cash.
    - Finance to report.

Existing investments in SAP S/4HANA are utilized to the full and added value is unlocked through CMO Cockpit.

HOW IT WORKS

Preparation, set-up and onboarding is extremely simple, when compared with alternative methods. CMO Cockpit requires just three major steps:

1. Enterprise level preparation and onboarding, which requires:
- Setting up each CMO as a service supplier on your own instance of CMO Cockpit.
- Setting up a dedicated plant for each CMO, to include shipping points and SL digital management tools.

2. Establish the basic functional business processes, ensuring that all CMOs within your own ecosystem can be managed through the same toolset and management dashboards. These include:
- Purchase Information Record (PIR), to manage planned orders and process orders used for demand management, supply planning and scheduling.
- Stock transfer orders, governing the deliveries used to move stock between MAH/C MO entities.
- Goods issue and goods receipt postings to ensure batch traceability with process orders.
- Functionality to enable automated procurement of defined CMO services via external operations.

3. Set-up Master Data management to cover every aspect of the CMO ecosystem. This ensures:
- Easy master data governance from front-end, providing consistency across all suppliers and a single view of the truth for ecosystem partners.
- Master data for each CMO and plant, enabling real time overview, monitoring, mana gement and rapid intervention when changes are required.
- Master recipes for outsourced CMO production setup with external operations.

Once set-up has been fully established, it becomes possible to automate many core business functions, enabling fast selection of the optimal supplier, sub-contract manufacturer and logistics option. All onboarded CMOs can be managed in real-time, with the option to update, amend and intervene in operations as needed, according to external operational requirements.

Greater visibility and control over the entire supply chain is combined with the operational and cost benefits that contract manufacturing brings.

NTT DATA has developed regionally world-class expertise in technologies and industries.

DELIVERING BUSINESS BENEFITS

The solution offers an easy configurable solution, rich in functionality with high ease of use and easy master data maintenance. It has been expressly designed to build on existing investments, provide abstraction and integration across a complex environment, with multiple suppliers and platforms, leading to better outcomes for customers and business partners. Key benefits include:

- Integrates and simplifies supply planning, production execution and logistics:
    - Integrated inventory management, projection and MPS/MRP supply planning overviews.
    - Comprehensive planning functionality, covering production planning and scheduling, using standard SAP functionalities for all CMO locations.
    - Effective production execution, leading to reduce effort for order execution, including releasing orders, goods movements and other related functions.

- Integrates Procurement, Quality Management and Financial business functions:
    - Standard integration with SAP Purchase to Pay for ordering and invoicing of services provided by CMOs.
    - Standard integration with SAP Quality Management for results recording and batch release.
    - Standard integration with SAP Finance to Report to support the processing and payment of CMO service invoices.
    - Full batch traceability to deliver audit-quality reporting and to help ensure effective ePedigree.

CMO Cockpit integrates supply chain and logistics management with all core ERP and CRM functions, providing a single view of the truth and enhanced management control for all aspects of supply chain management across an ecosystem-based environment.

WHY CHOOSE NTT DATA FOR YOUR SAP LIFE SCIENCES PROJECT

We Are Experts in Life Sciences

NTT DATA has worked with the Life Sciences industry for more than 25 years. We have exceptional, highly relevant experience and capability in delivering integration across complex systems and solutions. This is especially important to Life Science businesses in an increasingly disaggregated value chain.

To accompany Life Science companies on their SAP S/4HANA journey, NTT DATA has a team dedicated to S/4HANA transformation and an S/4HANA Center of Excellence that establishes the most appropriate evolution strategy for companies that want to evolve to S/4HANA and other SAP solutions, platforms and technologies.
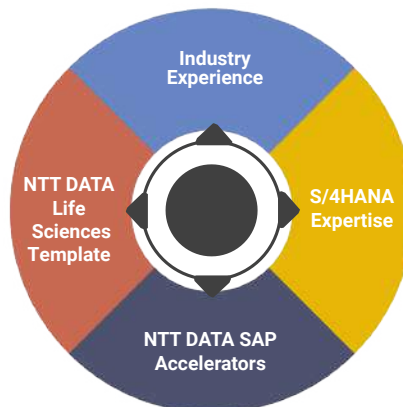
NTT DATA has developed SAP Life Science templates for S/4HANA and accelerators to help life sciences companies overcome specific challenges and reduce time to value.

- NTT DATA is a formidable force in SAP services with more than 20,000 SAP professionals, 2,700 SAP clients worldwide, 21 delivery centers and operations in 41 countries.

- NTT DATA has achieved the highest accolade from SAP, Global Strategic Services Partner, which recognizes its ability to offer a wide range of best-in-class business consulting and solution implementation services in support of SAP technology.

- NTT DATA is in the Top Ten of SAP Services providers worldwide according to Gartner.

- Our solutions leverage our business-specific expertise and skillsets in SAP technologies but also in other digital technologies, such as AI and IoT, for example.

Fully customized SAP S/4HANA system including all core-areas such as finance, procurement, sales, logistics, production.
New SAP modules such as eWM, IBP, TM, VMS, etc... are included.
SAP Business Technology Platform and Cloud Integration.

NTT DATA has been serving the life sciences industry for more than 25 years.
We offer proven experience and an end-to-end approach to integration that is particulary important in a disaggregated life sciences value chain.

NTT DATA SAP acceleators for Life Siciences can reduce time to market and implementation cost:

1. Internal Cold Chain Solution.
2. CMO Cockpit & Integration Framework.
3. Analystics Framework for Operational others.

Industry Experience

NTT DATA Life Sciences Template

S/4HANA Expertise

NTT DATA SAP Accelerators

- 29-year partnership with SAP.
- Over 5,000 active SAP clients.
- Leading SAP partner with over 300 S/4HANA projects.
- Resource coverage in over 58 countries.

SAP global strategic service partner

NTT DATA is a formidable force in SAP services with more than 20,000 SAP professionals, 2,700 SAP clients worldwide, 21 delivery centers and operations in 41 countries. It is a truly global organization committed to seamlessly working together with its clients to deliver SAP-centric projects that can be delivered at scale and across multiple locations.

Our solutions leverage our business-specific expertise and skillsets in SAP technologies but also in other digital technologies, such as AI and IoT, for example. NTT DATA has achieved the highest accolade awarded by SAP, Global Strategic Partner, which recognizes its ability to offer a wide range of best-in-class business consulting and solution implementation services in support of SAP technology.

THE NTT DATA DIFFERENCE

NTT DATA SAP Life Sciences Template

- Fully customized SAP S/4HANA system including all core areas such as finance, procurement, sales, logistics and production.

- Includes new SAP modules such as EWM, IBP, TM, VMS, etc.

- SAP Business Technology Platform and Cloud Integration.

NTT DATA SAP Life Sciences Accelerators

- **Internal Cold Chain** helps life sciences companies better manage their internal cold chain by ensuring the right freezing and thawing times for temperature-sensitive products are strictly enforced using scanners or RFID to identify and track batches.

- **CMO Cockpit & Integration Framework** has been developed to help pharmaceutical companies support the SAP processes for contract manufacturing in an integrated way. It includes a model CMO plant, data governance to simplify the onboarding of CMOs, and role-based apps to support manufacturing and supply chain processes.

- **Analytics Framework for Operational Excellence** allows pharmaceutical companies to easily monitor the KPIs necessary to achieve operational excellence. It includes a data model, a set of KPIs and extractors/views for data acquisition using S/4HANA.

ABOUT NTT DATA

NTT DATA – a part of NTT Group – is a trusted global innovator of IT and business services headquartered in Tokyo. We help clients transform through consulting, industry solutions, business process services, IT modernization and managed services.

NTT DATA enables clients, as well as society, to move confidently into the digital future. We are committed to our clients' long-term success and combine global reach with local client attention to serve them in over 50 countries. Visit us at nttdata.com.

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