

Our team for today's presentation



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Agenda BMW Vertical Integration

01	Introduction	5 min
02	Warehouse and Retail Inventory Management	5 min
03	RIM benefits for BMW	15 min
04	Syncron RIM references	5 min
05	RIM specific developments in Syncron Inventory since 2018	25 min
06	Next steps	5min





Warehouse & Retail Inventory Management

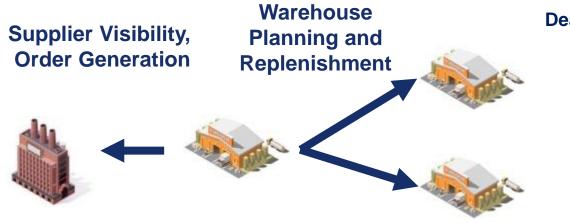
End-to-End Aftermarket Solution















Syncron Inventory™

Syncron Inventory™ Retail





Financial Value Creation

Revenue Enhancement

Expense Reduction

Workforce Efficiencies

Connectivity Leverage

Syncron Inventory™

20-30% **Availability Improvement**

10% to 40% Inventory Reduction

20% to 40%
Planner Productivity
Increase

Syncron Inventory™ RIM

20-30% **Availability Improvement**

10-40% Inventory Reduction

20-50%
Dealer Planner time reduction

Syncron Price[™]

2% to 8% Margin Increase

2% to 5%
Market Penetration Benefit

Equipment manufacturers are seeking new avenues of efficiency and growth.

With Syncron, you can not only navigate this changing market landscape, but also exceed customer expectations and growth projections.

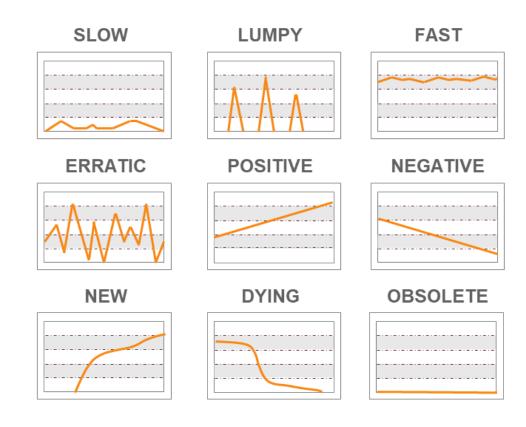
We will help you optimize current aftermarket operations while transitioning to Product-As-A-Service





Best-in-Class Functionality – Forecasting

- Dynamic forecasting using best fit algorithms depending on demand patterns
- Extra focus on algorithms for slow moving items
- Highly automated solution
- Incorporates functionality for:
 - Seasonality
 - Campaigns/Recalls
 - Demand exclusion
 - Outlier management
 - Supersession
 - Carpark modeling
 - Connected Vehicles

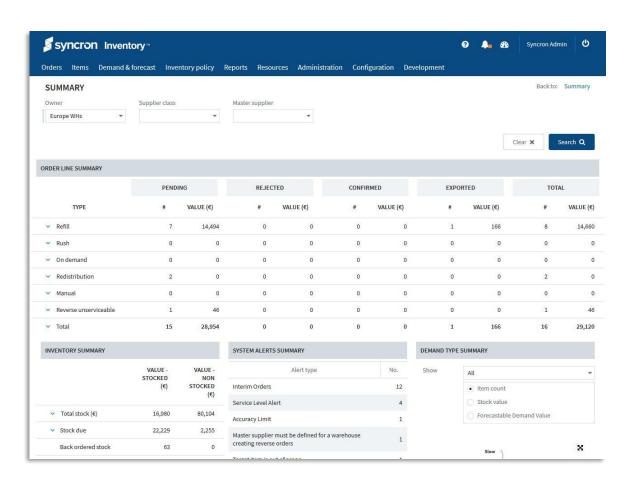






Best-in-Class Functionality – Inventory Management

- Allows for multiple inventory policies and strategies at one stocking location
- Optimize width and depth of stocking policy
- What-if simulations
- Budget Constraints
- Flexible auto-approval rules
- Lots of functionality for multi-site and multi-echelon management
 - Redistribution
 - Virtual planning (inventory pooling)
 - Supply chain visibility
 - Multi-echelon inventory optimization

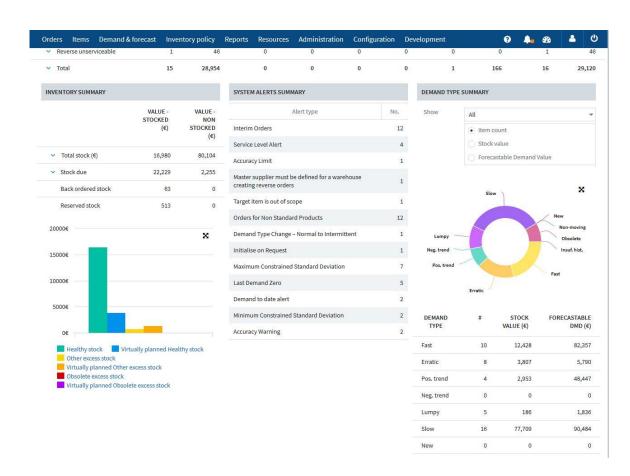






Best-in-Class Functionality – Reporting & KPI's

- Standard KPIs allow for global comparison of dealers independent of DMS System
 - Service level
 - Stock turns
 - Stock value
 - Sales value
 - Compliance
- A number of standard reports for follow-up
 - Risk of run out
 - Excess stock
- Integrated BI tool allows for creation and configuration of specific reports using Syncron calculated data in combination with OEM-data.

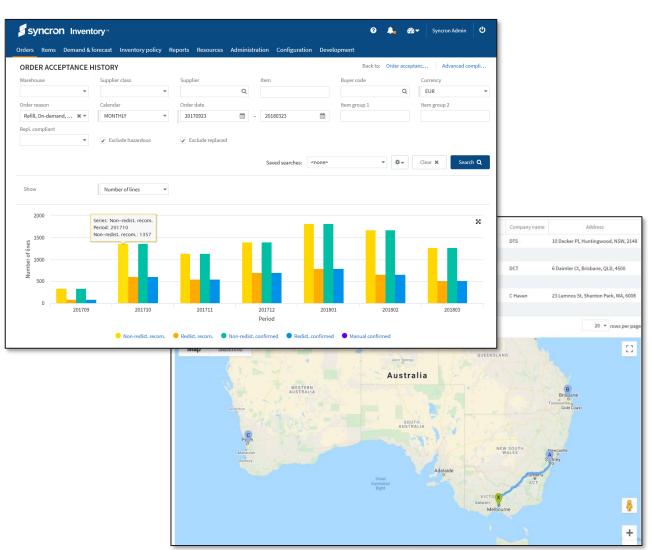






Best-in-Class Functionality – RIM Specific

- Easy to use, intuitive dealer user interface
- Allows for different level of dealer influence regarding depth and breadth decisions.
- Configurable buy-back functionality
- Compliance and KPI transparency
- Support for hub and spoke models
- Excess Stock redistribution
- Critical stock functionality
- Designed to automate daily tasks
- Flexible merging of OEM and DMS data
- Possibility to manage non-OEM items
- Dealer to Dealer collaboration







4 Major Benefits of RIM - BMW

- 1. Optimized availability in itself solves many issues and limitations in the supply chain
 - RIM will allow the higher levels in the supply chain to benefit from a smoother and more predictable demand at the dealer level
 - Reduced variance in demand at RW and CW equals savings in buffer stock (reduced "bullwhip effects")
 - Order class transformations from emergency to stock orders
 - 70/30 → 30/70 (huge savings and positive effects in CW and RW)
 - Less time spent on back order recovery
 - Environmental aspects (air freight reduction)
 - Redistribution is important to clean up stock and reduce buy back







4 Major Benefits of RIM – BMW (cont.)

2. Increased sales

- Increased customer satisfaction
- Reduced lost sale (due to availability)
- Regain the OEM's aftermarket
- Increase brand reputation and loyalty
- "Halo effects" on Finished Gods







4 Major Benefits of RIM – BMW (cont.)

- 3. Streamlined KPIs across distribution network with a multi ERP/DMS dealer environment, the Syncron KPI calculation is the only common tool to supervise dealer performance
 - One set of KPI definitions
 - Possible to compare dealers to other dealers (apples/apples)
 - Same "Supply Chain Management language" in the organization
 - Future proof situation (changes in ERP/DMS landscape)

4. Increased dealer trust and loyalty

- Fair and beneficial business terms for the dealer
 - Buy back is the key to balance (100% dealer net buy back)
 - A healthy and profitable dealer is the best partner for the OEM
- Increased workshop utilization at dealers
 - Customer case: From 40% to 65% just because of available parts
- Trust under responsibility: monitor dealer behaviour, order acceptance rate







RIM Benefits – Dealer

Parts Availability

20-30%

Service Parts will be available over 80% of the time— a significant rise from the current state (~60%). This translates into increased technician efficiency, reduced downtime and higher customer satisfaction

Sales Revenue



High parts availability will result in sales revenue increase, fewer lost-sales and more repeat business. "You can only sell what you have"

Excess Stock



Excess stock can be reduced, resulting in a more efficient and lean supply chain.

Additionally, obsolete stock write-offs can be significantly decreased through optimal stocking decisions

Ordering Costs



Productivity



High reduction of freight and warehousing costs due to reduction in emergency & VOR ordering.

Dealer 2 Dealer collaboration will further reduce emergency ordering costs and increase customer satisfaction Planner productivity will increase by using an advanced, highly automated planning solution and following exception management principles





RIM Benefits - OEM

Parts Availability

20-30%

Improved parts availability at the customer-facing locations will result in increased customer satisfaction and will reinforce brand reputation and loyalty.

Sales Revenue



Improved service levels will lead to increase in sales revenue as customers will not look for alternatives. Increased customer satisfaction will also result in more repeat business

Stock Returns



Better forecasting and stocking decisions will result in fewer returns from the dealers, reducing the associated effort to manage and finance the return process

Logistics Costs



Increased parts availability
will result in reduced
emergency and VOR orders,
therefore less logistics costs.
Order smoothing and
management of the entire
dealer network reduces
overload at central
warehouses

Productivity

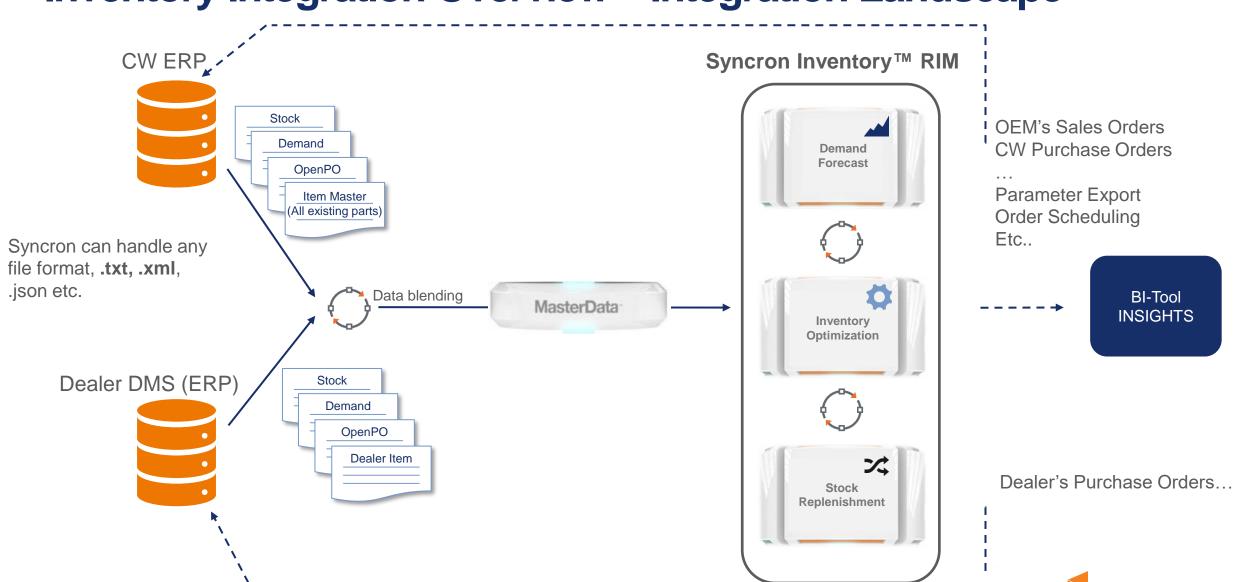


Planner productivity and efficiency will increase as less "fire-fighting" will be needed to solve problems caused by low parts availability at the dealer locations





Inventory Integration Overview – Integration Landscape



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Key Syncron Inventory - Retail Customers





























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CASE STUDY

BACKGROUND

USA and Canada (DTNA)

9 distribution centers

480+ dealers planned

270 dealers and distributors on Item Locator

~10,000,000 LUIs planned

~\$250,000,000 monthly sales

7 DMS integrations



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SYNCRON

CASE STUDY

CHALLENGES

Low dealer Service Level (~60%)

 MDI solution had limited functionality, nearing end of life;

No visibility to dealer orders

Lack of performance metrics

Inability to provide suggested returns

Inaccurate forecasts

 Low adoption of MDI solution by dealers; no visibility to DTNA of dealer information



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CASE STUDY

RESULTS

Visibility to inventory of 480+ dealers

 Increased average Service Level from 60% to 79%

 Inventory reduction of 15% (~\$60M) across the dealer network

Industry leading return rates of 1.5% of order value

 Less than 5% average Obsolescence for RIMpro managed parts

 Order Smoothing solution to resolve weekly PDC overload issues

Dealer Satisfaction for RIMpro usage: 4.34/5 (2018)



New RIM specific capabilities since 2018





Selected new RIM (specific) capabilities (since 2018)

In place (cont. development)

- Dealer Portal
- Analytics and BI (Insights)
- (Distributed processing unlimited extensions)
- Advanced Automation

Upcoming 3-18 months

- Supplier Load Levelling
- Dealer Clustering
- Automatic Dealer to Dealer redistribution



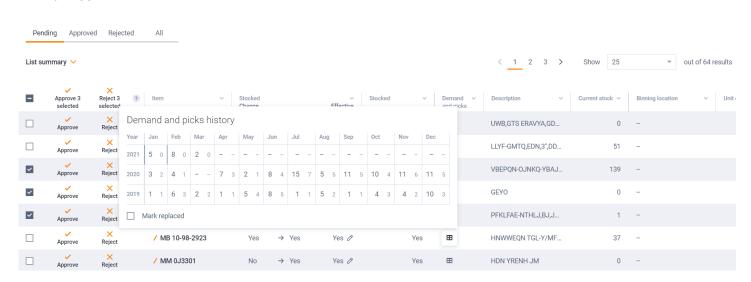


Dealer Portal

- Designed specifically for automotive dealer planners
- Facilitating fastest possible onboarding
- Easy work-flows guiding user to do the right things
- Handles thousands of concurrent users
- BMW branding

Policy suggestion list ®



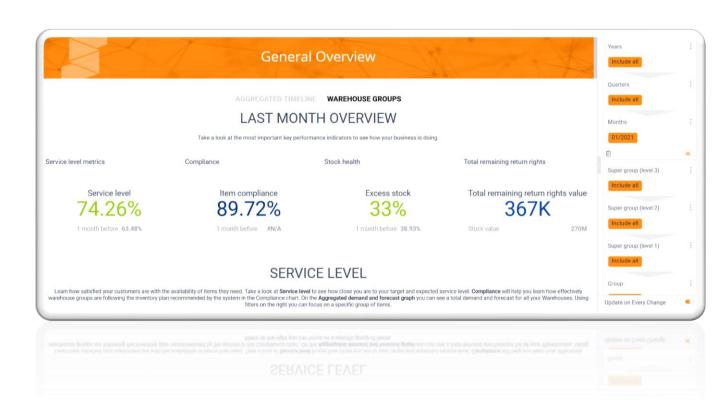






Analytics and Business intelligence (Insights)

- Have full control of the state your RIM implementation – connected dealers, the total KPIs, the individual KPIs.
- Identify which dealers are underperforming, which dealers need help.
- Take immediate actions, adjust policies, set up trainings etc.
- Create your own reports and dashboard based on hundreds of different metrics and dimensions.







Flexible Automation Rules

- The idea is that dealers approve parameter changes (e.g. to the reorder points) and then auto confirm orders
 - With some blocking rules (e.g. for hazardous, expensive, bulky items)
- To avoid having dealers approve every parameter change there are flexible auto-approval rules also for parameter changes
 - Dealers can focus on just a few exceptions

Name	Formula	Action			
No stocking change	Keep_PolicyNonStocking	Auto-approve 🔻		•	•
Expensive changes	EffectiveTargetStockValue_Increase > 5000EUR	Manual review 🔻	4	•	•
Critical stock list	OnActiveCSL	Auto-approve 🔻		•	•
Review if non-stocking is safe	Stop_PolicyStocking AND AnnualPicks > 100	Manual review 🔻	4	•	•
Safe Non-stocking RPAs	Stop_PolicyStocking	Auto-approve ▼			•
Safe Stocking RPAs	Start_PolicyStocking AND EffectiveTargetStockValue_Increase < 500EUR	Auto-approve 🔻	4		•
Cheap OL increases	PolicyOrderLevel_PercentageIncrease > 50% AND EffectiveTargetStockValue_Increase < 500EUR	Auto-approve •			•





Capabilities being developed during 2021

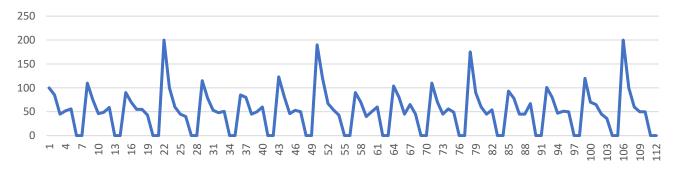


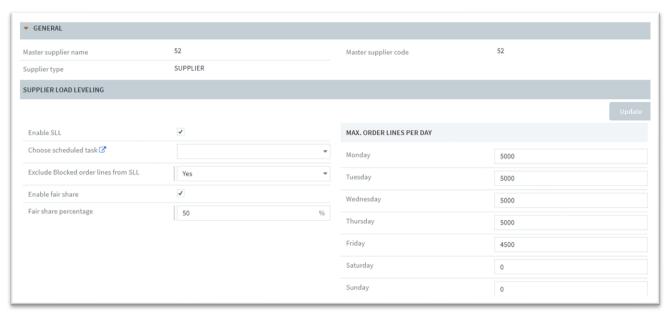


Supplier Load Levelling

- OEMs with large dealer networks face irregular loads at the PDCs (and as a consequence upstream) due to multiple different reasons
 - Monthly/weekly forecast updates of dealers
 - Irregular end customer consumption patterns
 - Different opening hours at dealerships vs. PDCs
- Every variation causes a need for more buffer, in stock and in warehouse operations.
- Supplier load levelling helps OEMs to level the load over days and weeks, by appropriately prioritizing the planned dealer purchase orders.

Daily Order lines placed by a dealer



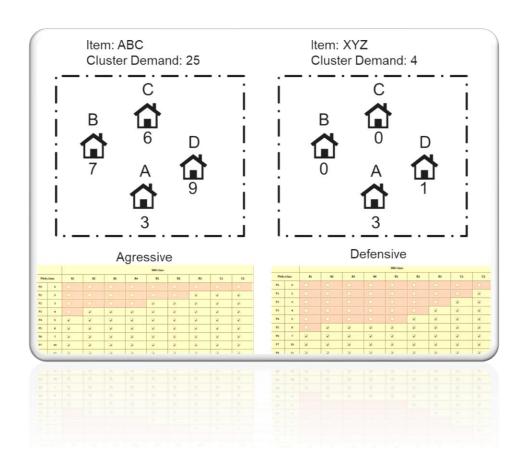






Dealer Clustering

- In Syncron RIM, every dealer is optimized based on its individual demand profile.
- But studies have shown that by clustering similar dealers and analyzing their common demand pattern, better decisions can be made.
- For slow movers, on the edge of being stocked/non-stocked, the cluster sales helps making better stocking decisions
 - If a local slow mover moves a lot in the cluster, it is more likely to keep on selling also on the local level. <u>Reduce risk for returns and</u> obsolescence!

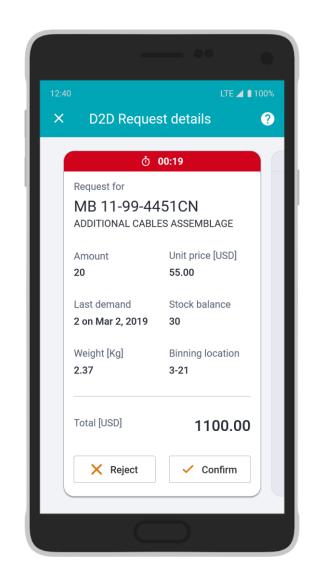






Automatic Dealer-2-Dealer (D2D)

- PDC Backorder Recovery
 - VOR situation and no stock neither at the dealer nor at PDC
 - => Shorten the backorder recovery time by distributing stock from another location – prioritize time!
- Excess (returnable stock) D2D redistribution
 - Any kind of order towards PDC, but there is returnable excess stock at another location
 - => Reduce returns/obsolescence and double handling Prioritize returnable stock!
- Tie return policies and other benefits to participation (Cut returns with 50%)







Next steps







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