SAP Note

1333018 - SCM consulting solutions: MRP monitor

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Header Data

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Release Status	Released for Customer
Component	PP-MRP Bedarfsplanung
Other Components	PP-MP Master Planning
Priority	Recommendations / Additional Info
Category	Consulting

Symptom

You use the ERP system and you want to improve the quality of your master data and the transparency of the stock situation. You want to classify the materials in your system according to important criteria, for example, consumption amount and consumption regularity. In addition, you want a materials planning tool that you can use to visualize master data errors and determine important key figures for materials planning daily.

Other Terms

Material requirements planning, MPR, materials planning, forecast, master data, transparency, key performance indicator, KPI, key figures, operational materials planning, strategic materials planning, ABC/XYZ analysis, ABC-XYZ analysis, ABC analysis, XYZ analysis, classification, sporadic consumption, autocorrelation coefficient, inventory turnover, dead stock analysis, safety stock, safety stock determination, safety stocks,
safety stock planning, safety stock calculation, stock decrease, optimizing stock, ERP method, standard method,
standard method, safety factor, replenishment lead time, service level, minimum safety stock level, automatic
safety stock, dynamic safety stock, range-of-coverage profile, period profile, advanced method, normal distribution, forecast error,
mean absolute deviation (MAD), relative error, demand, forecast, error total, mean absolute percent error (MAPE), APO safety stock method,
APO method, ot-size creation, lot size, lot, lot-size calculation, lot size planning, lot-sizing procedure, Groff procedure, part period balancing, part period balancing procedure, least unit cost procedure, dynamic lot size creation, static lot-sizing procedures, period lot-sizing procedures, period lot-sizing procedure, optimum lot size, fixed lot size, lot-for-lot order quantity, replenish to maximum stock level, daily lot size, weekly lot size, monthly lot size, Wagner-Whitin, rounding value, rounding profile, minimum lot size, maximum lot size, takt time, splitting, lot size determination, lot size grouping, storage costs indicator, lot-size-independent costs, procurement quantity determination, procurement quantity calculation, procurement quantity, quantity, procurement proposal, planned order, purchase requisition, production order, purchase order, stock transfer,
stock transport requisition, stock transport order,
stock transfer reservation, material requirements planning, MRP,
MRP run, planning run, material requirements planning run,
material shortage quantity, net requirement calculation, ABC/XYZ classification,
ABC analysis, XYZ analysis, optimizing stock, optimizing lot size, lot size optimization,
stock decrease, stock reduction, reduction in stock, requirements grouping, MD01,
MD02, MD03, MD04, MD05, MD06, EX, FX, HB, TB, WB, MB, WI, SP, DY, GR, UVG, EFG, LRODI, life cycle

Reason and Prerequisites

You use the ERP system to control materials planning. You do not exploit all the available functions. In particular, you want to improve the following areas:
- Classification of the system settings according to important criteria, for example, consumption amount and regularity, and other criteria
- Master data quality
- Transparency of the stock situation

Solution

In the SCM Consulting Solutions, SAP Consulting provides a number of tools for improving supply chain planning. The ERP add-on tool MRP monitor is an integral part of the SCM Consulting Solutions and provides the following functions:
- Classification of the materials according to ABC/XYZ analysis (by consumption, by incoming orders, by planning, by requirements)
- Classification of the materials according to LMN analysis (by gross weight, by net weight, by volume) [since Release 2011.1]
- Classification of the materials according to EFG analysis; that is, by replenishment lead time categories [since Release 2011.1]
- Classification of the materials according to UVG analysis; that is, by individual prices [since Release 2011.1]
- Classification of the materials according to LRODI analysis; that is, by life cycles [since Release 2011.1]

- Additional differentiation of special materials (new materials, materials with or without negative consumption, materials flagged for deletion)
- Transfer of the classification to a separate tab page of the material master [since Release 2011.1]
- Preparation of different MRP-relevant key figures (material-related or for each classification) for controlling materials planning (inventory turnover, slow-moving item, dead stock, ranges of coverage, safety stock, autocorrelation)
- Increasing the master data quality by visualizing all MRP-relevant master data settings
- In the material document aggregation, special stocks can be evaluated separately [since Release 2011.1]
- Graphical display of inventory development
- Filtering and sorting according to specific incorrect master data constellations

In addition to the classical ABC/XYZ analysis, C materials can also be divided into several categories according to price. In this way, even high-priced C materials can be considered separately. This is done by dividing into high-priced and low-priced materials; the low-priced materials are displayed as D materials. The MRP monitor takes into account an important situation for materials planning in which high-priced materials that are flagged as C materials in the analysis period due to a low absolute consumption amount, are distinguished from the remaining C materials for planning purposes. In the same way, Z materials can be divided up according to the number of zero periods. The MRP monitor has an option to classify the Z materials as a group of N materials, which are flagged as materials with sporadic consumption due to a high portion of zero periods.

By default, classification procedures refer back to consumptions that are automatically updated in the system according to movement type Customizing for MM. However, for each selection, there is an option in the MRP monitor to refer back to the material documents and therefore to create a consumption relevance that is different from the standard Customizing as a basis for the analysis. In addition to the material documents, incoming orders, invoices or planned independent requirements can also be analyzed as the data source. If necessary, the InfoStructures of the Logistics Information System or customer-specific tables can also be accessed.

The MRP monitor offers the option for taking into account predecessor materials or successor materials.

Specific maintenance of MRP parameters according to the ABC/XYZ classifications or other classifications is directly possible from the functions of the MRP monitor.

From the MRP monitor, you can navigate directly to important transactions, such as the current stock/requirements situation or the material master for a specific material. You can also download all data provided by the MRP monitor in all valid formats.

In the MRP monitor, you have the option to use different safety stock procedures such as the classic ERP method on the basis of working days [since Release 2011.1], the ERP method on the basis of calendar days, and the enhanced method for the simulative calculation of safety stocks. In this case and unlike the standard behavior of the ERP system, you can display the automatically calculated safety stocks, for example, to compare with current values without having any direct impact in materials planning ("semi-automatic" safety stock planning).

You also have to option of carrying out various simulations of
- Safety stock (for more information, see Note 1363890)
and/or
- Lot-sizing procedures (for more information, see Note 1363889)
to optimize system settings for stock.

In addition, if you select the add-on stock cockpit, you have the option to evaluate the development of key figures in chronological order and therefore to draw important conclusions for materials planning (for more information, see Note 1363888).

Since Release 2011.1, you have the option to use a number of cross-monitor functions such as the material group, processing indicator, resubmission date, text add-in, and navigation profiles. See SAP Note 1628068 in this regard.

You can find details and contact persons for this offer attached to this note ("Note Administration" -> "Attachments") or at
http://www.sap.com/germany/campaigns/2010_12_bestandsoptimierung/en/index.epx (German: http://www.sap.de/bestandsoptimierung).

This SAP Note refers to Release 2011.1.

Validity

This document is not restricted to a software component or software component version

References

This document refers to:

SAP Notes

1832851	SCM CS: Purchasing monitor
1783924	SCM CS: Multisourcing mit Planungskalendern
1783470	Dispomonitor: Verwendung fortgeschr. Verbäuche MVER/DVER
1783469	SCM CS: Supplier preview
1770154	Dispositionsmonitor: Unterschied der Datenquellen MVER/MSEG
1761844	SCM CS: Nutzung des SCM CS-Materialstammreiters in der MD04

1760876 Dispositionsmonitor: Lagerhüterauswertungen & Datenquelle
1760809 Dispositionsmonitor: Klassifizierung von Sonderfällen
1752896 SCM CS: Zugang zu einem Testsystem von SAP Consulting
1750932 Fehlerhafte Bestands- und Verbrauchswerte (getrennte Bew.)
1750493 SCM Consulting Solutions: Auslieferungsprozess
1731839 SCM CS: Navigationsprofile in mehreren Sprachen/Systemen
1705981 SCM CS: Übersicht SAP-Erweiterungen
1696863 SCM CS - Dispomonitor: Ausschl. Lagerorte in Werksanalyse
1691131 SCM CS:Creation material master add field for classification
1675893 SCM CS: Dispomonitor - Anzahl Verbrauchswerte in Grafik
1653329 SCM Consulting Solutions: Kanban monitor
1653328 SCM consulting solutions: Master data monitor
1653327 SCM CS: Production logistics monitor
1649107 SCM CS: Cross-plant planning
1628996 SCM CS: Verkaufsorganisation & VTL-Status
1628463 SCM CS: Negative Bodensätze und Lagerhüter-Kennzahl
1628068 SCM CS: General functions
1626580 SCM CS: Differences w/regard to key figures for SAP standard
1560062 SCM CS: Differences between MC40 to MC50 and the MRP monitor
1493943 Inventory Optimization (Composite Note)
1476085 FAQ SCM Consulting Solutions
1418602 APO-AddOn Demand Planning Quantity Distribution
1363923 Consulting for backlog elimination
1363890 SCM Consulting Solutions: Safety stock simulation
1363889 SCM Consulting Solutions: Lot size simulation
1363888 SCM Consulting Solutions: Inventory Cockpit
1341755 SCM Consulting Solutions: Forecast monitor
1341712 SCM Consulting Solutions: Backlog monitor
1341710 SCM Consulting Solutions: Service Fill Monitor
1341705 SCM Consulting Solutions: MRP Exception Monitor
1341571 SCM Consulting Solutions: Replenishment lead time monitor
1320440 Consulting information about optimizing stock
1319579 Add-on for simplified master data maint. of DP lifecycle
1315243 Consulting: MRP optimization
1308968 Change log for APO DP and APO SNP
1292209 Consulting: Forecast optimization
1143744 TM optimization consulting
847234 TP/VS optimization consulting
689101 PP/DS optimization consulting
579373 SNP & deployment optimization consulting

This document is referenced by:

SAP Notes (57)

1691131 SCM CS:Creation material master add field for classification
1308968 Change log for APO DP and APO SNP
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1675893 SCM CS: Dispomonitor - Anzahl Verbrauchswerte in Grafik
1292209 Consulting: Forecast optimization
2070541 SCM CS: Holiday consideration
2070516 SCM CS: Forecast Analyzer
2070103 SCM CS: Material classification transfer to APO
2070098 SCM CS: Tooling equipment planning in APO
2069971 SCM CS: Continuous output and cross-order overlaps
2069958 SCM CS: Material memo transfer to APO
2069951 SCM CS: Setup matrix transfer to APO
2068259 SCM Consulting Solutions: 3PA – 3rd Party Allocation in APO
1731839 SCM CS: Navigationsprofile in mehreren Sprachen/Systemen
579373 SNP & deployment optimization consulting
1957198 SCM CS - Dispomonitor: Make-to-Order-Kennzeichen (MTO) --> Definition und Konsequenzen für den Folgeprozess (Sollreichweiten)
2043811 SCM CS MAM: Mehrstufige ATP Fehlteileinformation
1752896 SCM CS: Zugang zu einem Testsystem von SAP Consulting
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1998786 SCM CS - Dispositionsmonitor: Bezeichnungen für Verbrauch bei unterschiedlichen Datenquellen
1143744 TM optimization consulting
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1628996 SCM CS: Verkaufsorganisation & VTL-Status
1628463 SCM CS: Negative Bodensätze und Lagerhüter-Kennzahl

Attachments

File Name	File Size (KB)	Mime Type
Delta_MRP_2012_1_EN.pdf	610	application/pdf
Delta_MRP_2012_1_DE.pdf	1064	application/pdf
Pres_MRP_2012_1_DE.pdf	933	application/pdf
Release_Notes_2010_1_DE.pdf	20	application/pdf
Delta_Funk_Dispomon_DE_2011_1_v02.pdf	860	application/pdf
Pres_MRP_2012_1_EN.pdf	779	application/pdf