SAP S/4HANA 1709
Release Highlights

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SAP S/4HANA Evolution

- Industry to core - Discrete Industries and Mill Products (DIMP)
- Effective Order Management and Billing
- Efficient Procurement
- Accelerated Material Requirements Planning
- Real-time Inventory Management and Material Valuation

Oil and Gas with SAP S/4HANA
Industry to core - Retail
Consistent SAP Fiori User Experience
Optimized Portfolio and Project Management
Embedded Software in Product Development
Entire SAP S/4HANA Finance Scope included
Plan to Produce in ONE System (Production Planning and Detailed Scheduling – PP/DS)
Embedded SAP Extended Warehouse Management
Integrated Quality Management
advanced Available to Promise (aATP)

Industries to Core – SAP Agricultural Contract Management
SAP Commercial Project Management with S/4HANA
Commodity Management
Sales – Electronic and Digital Payments
GRC – Legal Control and Export Classification
Consumer Products – Catch Weight Management
SAP S/4HANA Central Master Data
Finance – Machine Learning for automation capability
QM – Manage usage decisions and Analytics for Quantitative Results
EAM – Report and Repair Malfunction
PLM – Visual Manufacturing Planner and Recipe Management
Maximize Fiori Experience with SAP Fiori Overview Pages
Predictive Analytics as a system of intelligence – Contract Consumption in Procurement –
Embedded Transportation Management
Demand Driven Manufacturing
Manufacturing Extension for Complex Assembly Industries
Advance Variant Configuration

SAP S/4HANA, on-premise edition 1511

SAP S/4HANA 1610

SAP S/4HANA 1709

* Key innovations do not reflect licensing
SAP S/4HANA 1709
Key Innovations

- Embedded Transportation Management
  - Basic Shipping and Data Harmonization
  - Integration in extended warehouse mgmt.

- Consumer Products Industry
  - Catch Weight Management for System Conversion

- Commodity Management
  - Extending pricing with the commodity pricing engine

- Industry to Core Retail / Wholesale
  - Wholesale Fashion enablement; Order allocation; Segmentation

- Service Core (CRM Add-On)*
  - Migrate installed base CRM with eliminated middleware, harmonized data models

- Manufacturing
  - Demand Driven Manufacturing
  - Advance Variant Configuration

- Finance
  - Machine Learning with SAP Cash Application Integration; Financial Planning

- Procurement
  - Centralized purchase requisitions through hub deployment
  - Machine Learning for Contract Consumption

- Enterprise Asset Management
  - Report and Repair Malfunction
  - Breakdown Analysis

- Sales
  - Electronic and digital payments with Integration with Payment Hub

- Manufacturing
  - Engineering Cockpit
  - Extension for Complex Assembly Industries

- Quality Management
  - Manage usage decisions
  - Analytics for quantitative results

- Extended Warehouse Management
  - advanced Labor Management
  - Pallet Planning

- PLM
  - Visual Enterprise Generator Conversion
  - Recipe Management and Recipe finder

- Maximize SAP Fiori Experience
  - SAP Fiori Overview Pages

* First delivery planned with SAP S/4HANA 1709 FPS01 in 2018
SAP S/4HANA 1709
User Experience Enhancements

SAP Fiori 2.0
• UX evolution
• New Fiori apps

Additional SAP Fiori Overview Pages:
• sales management
• project profitability
• inventory management
• treasury management

Value Proposition
• Immediate, domain-specific insights on the tasks that need your attention.
• Ability to take quick actions to solve issues.
• Easy forward navigation to related applications.

Capabilities
• Very flexible selection criteria available.
• Drill down on detail KPIs.
• Easy-to-use formats with charts, lists, and tables on a single page.
SAP S/4HANA 1709
New release including new technology stack

SAP HANA® 2

Active consumption of new SAP HANA 2 features with SAP S/4HANA 1709

- **Active/Active**
  - = offload analytical workload to SAP HANA System Replication (secondary)
- **SAP S/4HANA scale-out**
  - = Run largest S/4HANA systems with application-optimized data distribution

**Focus** on Innovation

**Foster** Innovation

**Drive** Innovation

**Power** Innovation

Database Management Transformed

Data Management Transformed

Analytical Intelligence Transformed

Application Development Transformed
Vybrané inovácie v oblasti plánovania a riadenia výroby
SAP S/4HANA 1709 OP
• SAP S/4HANA for Manufacturing planning and scheduling
  aka. PP/DS

• Demand-Driven Replenishment
  aka. DDMRP
SAP S/4HANA for Manufacturing planning and scheduling
Comprehensive Plan to Produce in ONE System

- **PP/DS planning and scheduling features available in SAP S/4HANA**
  - Constraint-based capacity planning, scheduling & optimization
  - Heuristic framework
  - Industry-specific features (RPM, MMP & CBP)
  - Simulation versions and transactional simulation

- **Simplicity and Seamless Integration**
  - One coherent application, consistent look at feel, intuitive navigation
    PP/DS is an integral part of S4/HANA (not an add-on, not a side-by-side installation)
  - Simplified master data and integration model maintenance

- **Utilize HANA (HANA only)**
  - Fast MRP [ One MRP for infinite planning ]
  - liveCache is integral part of HANA, just one database to manage
Advanced Production Planning

- Multi-level production planning
- Order Pegging
- Heuristics framework:
  - Use delivered advanced planning heuristics (40+)
  - Develop own heuristics
  - Industry specific:
    - Automotive (RPM, MMP)
    - Mill (CDP)
    - Process (Res.networks, tanks, campaigns…)
- Supports various manufacturing models:
  - Make to Stock
  - Make to Order
  - Engineer to Order
  -...
Detailed Scheduling & Optimization

- Forward & Backward (multi-level) Constrained Scheduling
  - Constrained scheduling
  - Scheduling modes
  - Optimal sequencing

- Scheduling Optimizer
- Flexible graphical prod.operations scheduling
- Backlog Resolution
- What-if Analysis & Simulation
- Configurable exception Alert Monitor
One MRP
One MRP
Part of MRP-Live

MRP Run with S/4 core & PP/DS materials

Benefits
- One MRP planning run for
  - classic MRP planning logic and
  - advanced PPDS heuristics
- One low level code calculation
One MRP cockpit

- All materials (S4 and PP/DS)
- Common list of shortages or uncovered demands
- Special detail views for PP/DS-relevant materials
  - simulation capabilities and
  - what-if analysis
Combined Order Support
Order Combination Concept

Business Background

• In the mill industry, different products may go through common process steps. It is desirable to group and execute them together. This optimizes resource usage and reduces order handling for the user.

Solution

• Common operation sequences in different orders can be combined in one production order.
• Combination can be for selected operations (except process orders) or entire orders.
• Operations to be combined must have same base unit of measure and no gaps in between.
• The combination steps are: selection, combination and scheduling.
• With 1709, combined orders can also be planned in embedded PP/DS.
Monitor Capacity Utilization

**Navigation**

- Variants
- Filtered List
- Detail Page Navigation
- Navigation to Resource Plng Table or Scheduling Board

### Resources (3)

<table>
<thead>
<tr>
<th>Resource</th>
<th>Breakdown</th>
<th>Maximum</th>
<th>Minimum</th>
<th>Average</th>
<th>First Overload</th>
<th>First Underload</th>
<th>Utilization</th>
</tr>
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<tbody>
<tr>
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<td>test work center 1 001</td>
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<td>0 %</td>
<td>19.06.2017</td>
<td></td>
<td></td>
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</table>
Capacity Utilization
Object Page

Overview Section with Utilization Chart

Change Views
Capacity Utilization

Page Overview

Materials Chart

Details of a section

Current Selection: 14PCS
Duration: 8hrs
Capacity Utilization – Page Overview

Order Types Chart

Details of a section

Current Selection: Planned Order
Duration: 8 hrs
# Capacity Utilization

## Shift Table

<table>
<thead>
<tr>
<th>Date</th>
<th>Start Time</th>
<th>End Time</th>
<th>Shift Definition</th>
<th>Shift Utilization</th>
<th>Resource Utilization</th>
<th>Downtime</th>
<th>Capacities</th>
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</thead>
<tbody>
<tr>
<td>20/6/2017</td>
<td>06:00 AM</td>
<td>02:30 PM</td>
<td>TM01</td>
<td>77</td>
<td>100%</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>03:30 PM</td>
<td>04:30 PM</td>
<td></td>
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<td>0%</td>
<td>3</td>
<td></td>
</tr>
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<tr>
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## Capacity Utilization
### Shift Table (in Edit mode)

<table>
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<tr>
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<th>Shift Actions</th>
<th>Change Number of Capacities</th>
<th>Change Shift Time</th>
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</thead>
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<tr>
<td>Choose</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Add Shift</td>
<td></td>
<td>Add Interval</td>
<td>Add Downtime</td>
<td></td>
</tr>
<tr>
<td>Add Interval</td>
<td></td>
<td>Add Downtime</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Add Downtime</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

**Shifts (19)**

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<th>Shift Definition</th>
<th>Utilization %</th>
<th>Resource Utilization %</th>
<th>Downtime</th>
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</thead>
<tbody>
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<td>06:00 AM</td>
<td>02:30 PM</td>
<td>TM01 06:00AM-02:30F</td>
<td>77</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>03:30 PM</td>
<td>04:30 PM</td>
<td></td>
<td></td>
<td>77</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>22/6/2017</td>
<td>06:00 AM</td>
<td>02:30 PM</td>
<td>TM01 06:00AM-02:30F</td>
<td>77</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>03:30 AM</td>
<td>03:00 AM</td>
<td></td>
<td></td>
<td>77</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>24/6/2017</td>
<td>06:00 AM</td>
<td>02:30 PM</td>
<td>TM01 06:00AM-02:30F</td>
<td>77</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>06:00 PM</td>
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<td></td>
<td>77</td>
<td>52%</td>
<td></td>
</tr>
<tr>
<td>28/6/2017</td>
<td>06:00 AM</td>
<td>02:30 PM</td>
<td>TM01 06:00AM-02:30F</td>
<td>88</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>29/6/2017</td>
<td>06:00 AM</td>
<td>02:30 PM</td>
<td>TM01 06:00AM-02:30F</td>
<td>89</td>
<td>157%</td>
<td></td>
</tr>
</tbody>
</table>
Settings can be saved in variants
Side Panel
Opened via context menu or information button
Easy view of Product Number and Description

Color palette for Activities
### Production Scheduling Board

#### Feedback for actions through messages

- An undo option is available for some scheduling actions.

#### Resource Planning

<table>
<thead>
<tr>
<th>Resource</th>
<th>Resource Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFAL-2_0001_001</td>
<td>Final Assembly 2 001</td>
</tr>
<tr>
<td>WM1_0001_001</td>
<td>Machine-1 001</td>
</tr>
<tr>
<td>WM2_0001_001</td>
<td>Machine-2 001</td>
</tr>
</tbody>
</table>

#### Scheduling

- You have successfully rescheduled the operations 6414-10, 6418-10.
• **SAP S/4HANA for Manufacturing planning and scheduling**
  aka. PP/DS

• **Demand-Driven Replenishment**
  aka. DDMRP
Demand Driven Replenishment in SAP S/4HANA
Core principles of FLOW:

- **Dampening the effect of variation** by decoupling lead-times through buffers & identifying placement and size of buffer(s) to ensure
  - the shortest possible lead-time and optimal amount of inventory
to deal with variation at minimum cost.

- **Pull replenishment on actual demand**, not forecasts.
  - the best use of our assets is to make what is needed
  - ever increasing volatility in demand makes accurate forecasting challenging

- **Achieving visibility and prioritization of activities** by exposing downstream inventory and demand status to upstream sources to facilitate demand-driven prioritization of supply.
## DDMRP Methodology

### The Steps

<table>
<thead>
<tr>
<th>Position</th>
<th>Protect</th>
<th>Pull</th>
<th>Executed</th>
<th>Visible and Collaborative Execution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modeling/Re-modeling the Environment</td>
<td>Strategic Decoupling</td>
<td>Buffer Profiles and Levels</td>
<td>Dynamic Adjustments</td>
<td>Demand Driven Planning</td>
</tr>
</tbody>
</table>

1. **Position**
   - Strategic Decoupling

2. **Protect**
   - Buffer Profiles and Levels

3. **Pull**
   - Dynamic Adjustments

4. **Plan**
   - Demand Driven Planning

5. **Execute**
   - Collaborative Execution

![Graphs and Charts]

<table>
<thead>
<tr>
<th>Order #</th>
<th>On-Buffer Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1234</td>
<td>12% (RED)</td>
</tr>
<tr>
<td>PO 1235</td>
<td>22% (RED)</td>
</tr>
<tr>
<td>PO 1236</td>
<td>33% (YELLOW)</td>
</tr>
<tr>
<td>PO 1237</td>
<td>41% (YELLOW)</td>
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</tbody>
</table>

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Demand-Driven Replenishment in SAP S/4HANA 1709
SAP Demand-Driven Replenishment
Planned End-to-End Process Flow in S4HANA

Analytics (incl. Basis for Feedback)

Buffer Positioning (Strategic)

Replenishment Planning

Buffer Level Management (Operational)

Replenishment Execution

<table>
<thead>
<tr>
<th>Material</th>
<th>Stock/Stock Level</th>
<th>Stock+ Ordered</th>
<th>Proposed Order Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIO-NAV-0815</td>
<td>3</td>
<td>13</td>
<td>30</td>
</tr>
<tr>
<td>FIO-PST-1501</td>
<td>0</td>
<td>16</td>
<td>15</td>
</tr>
<tr>
<td>FIO-MST-3006</td>
<td>55</td>
<td>135</td>
<td>0</td>
</tr>
<tr>
<td>FIO-PRD-0807</td>
<td>22</td>
<td>56</td>
<td>0</td>
</tr>
<tr>
<td>FIO-NAV-0101</td>
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<td>23</td>
<td>127</td>
</tr>
<tr>
<td>FIO-NAV-0404</td>
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<td>44</td>
<td>26</td>
</tr>
<tr>
<td>FIO-MST-0821</td>
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<td>0</td>
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<tr>
<td>FIO-PRD-0622</td>
<td>88</td>
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</table>
SAP Demand-Driven Replenishment
Solution Overview

Fiori Launchpad

Mapping to the End-to-End Process

1. Classify products to identify possible decoupling points and to prepare buffer profile assignment
2. Calculate decoupled lead time and LT classification to prepare buffer calculation
3. Maintain MRP type D1 to define buffers on product plant combination
4. Review the current execution situation based on the on-hand stock status
5. Review the current planning situation based on the net flow position

Review and adopt the system’s buffer level proposals
Review the current planning situation based on the net flow position
Review the current execution situation based on the on-hand stock status
Classify products to identify possible decoupling points and to prepare buffer profile assignment
1. **Strategic Decoupling**
   - Definition of optimal stock buffer decoupling points
   - Determination of decoupled lead times

<table>
<thead>
<tr>
<th>Strategic Inventory Positioning</th>
<th>Buffer Profiles and Levels</th>
<th>Dynamic Adjustments</th>
<th>Demand Driven Planning</th>
<th>Visible and Collaborative Execution</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSITION</td>
<td>PROTECT</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

![Diagram of strategic decoupling process]
Prepare Buffer Positioning
Product Classification for Demand-Driven Replenishment

Thresholds for Value (ABC) Classification

- Usage Value in %:
  - A (High): 70
  - B (Medium): 20
  - C (Low): 10

Thresholds for Variability (XYZ) Classification

- Coefficient of Variation:
  - X (Low): 0.25
  - Y (Medium): 0.50
  - Z (High): >

Thresholds for BOM Usage (PQR) Classification

- BOM Usage:
  - P (High): 4
  - Q (Medium): 2
  - R (Low): <
Buffer Positioning by MRP Type Assignment

New MRP Type = D1 (Demand-Driven)
Decoupled Lead Time
Input for buffer sizing

Individualized ATO Production

Demand-Driven Replenishment

- Individualized DDR with (strategic) buffer
- Ad-hoc Prod.
- Decoupling through strategic buffer positioning
- Time-dependent buffer levels for shock absorption

2 Individual Lead Time
8 Decoupled Lead Time
2 Buffer Profiles and Levels

- Segmentation-based stock sizing approach
- Definition of safety zone, cycle stock zone and lead-time/re-order zone
Buffer Sizing
Based on Decoupled Lead Time & DLT Classification

### DLT Thresholds for Make (in Days)
- **E (Short):**
- **F (Medium):**
- **G (Long):**

### DLT Thresholds for Transfer (in Days)
- **E (Short):**
- **F (Medium):**
- **G (Long):**

### DLT Thresholds for Buy (in Days)
- **E (Short):**
- **F (Medium):**
- **G (Long):**
Buffer Sizing
Calculation Rules

SAP Material Master

Maximum Stock
[MARCEABST]
Reorder Point
[MARCEINBE]
Safety Stock
[MARCEISBE]
Min Safety Stock
[MARCEISLO]

Demand Driven Institute

OTOG – Over Top of Green
TOG – Top of Green

TOY – Top of Yellow
TOR – Top of Red

4.

1. = Average Daily Usage x Decoupled Lead Time

2. = Yellow x Lead Time Factor (100-20%) OR

3. = Min Order Quantity OR

4. = Average Demand x Cycle Time

= Red Base x Variability Factor (20-100%)
Buffer Sizing
Create Buffer Level Proposals

SAP Material Master

Demand Driven Institute

Maximum Stock
[MARC-MABST]

[Image]

Reorder Point
[MARC-MINBE]

Safety Stock
[MARC-EISBE]

Min Safety Stock
[MARC-EISLO]

OTOG – Over Top of Green
TOG – Top of Green

TOY – Top of Yellow
TOR – Top of Red

Parameter Section

Selection Criteria
Product:
Product Group:

Parameters for JOB
Decoupled Lead Time:
Average Daily Usage:
Calculate DLT on First Risk:
Adopt Buffer Proposals:
Owerness in Product Master:
Parallel Processing:
Monitor Log:

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3 Dynamic adjustments

- Time-phased buffer stock levels
- Anticipation of seasonality, trends & significant promotions
Manage Buffer Level
Worklist - Review and Adopt Buffer Level Proposals

<table>
<thead>
<tr>
<th>Products (3)</th>
<th>Standard</th>
<th>Adopt</th>
<th>Ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>SemiFin_006_DD_2_DESC (SEMIFIN_006_DD_2)</td>
<td>1010 Plant 1 DE</td>
<td>Current</td>
<td>1.534 EA 0.533 EA 0.426 EA</td>
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<td>SemiFin_006_DD_1_DESC (SEMIFIN_006_DD_1)</td>
<td>1010 Plant 1 DE</td>
<td>Proposed</td>
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<td>Current</td>
<td>1.535 EA 0.555 EA 0.238 EA</td>
</tr>
</tbody>
</table>
Buffer Proposal Details
Buffer Zones & Zone Adjustment Factors
Buffer Proposal Details
Buffer Levels and On-Hand Performance
4 Demand Driven Planning

- Supply elements are triggered if the available stock drops into the rebuild zone (yellow zone)
Basics
Operational Replenishment: Net Flow Position, Spike Handling

On-hand balance (On-hand stock)
- Quantity being physically in stock

On-order stock (Open Supply)
- Total of all outstanding replenishment orders

Actual demand (Demand)
- Sales orders past-due or due today + qualified spikes

Replenishment Proposal

<table>
<thead>
<tr>
<th>Color</th>
<th>Max Stock</th>
<th>Reorder Point</th>
<th>Safety Stock</th>
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</thead>
<tbody>
<tr>
<td>BLUE</td>
<td>10,000</td>
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</tr>
<tr>
<td>GREEN</td>
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<td>7,500</td>
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</tr>
<tr>
<td>YELLOW</td>
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</table>

- Proposal: (3.128)
- Net Flow Position: (6.872)
- Open Supply: (3.358)
- Demand: (540)
- On-Hand Stock: (4.054)

Sales Order Quantity

Demand, in particular Spikes

- Spike Threshold = (e.g.) 50% x TOR

- Spike
- (Past) Due SO's
- Today
- Spike Horizon

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# Monitor the Planning Priority
(Net Flow Position vs. Reorder Point)

## Products (4)

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>BS_DDR_SF_M1</td>
<td>DDR SF1</td>
<td>10.00 %</td>
<td>2 EA</td>
<td>18 EA</td>
<td>© 33.00 %</td>
<td>2 EA</td>
<td>0 EA</td>
</tr>
<tr>
<td>SEMIFIN_008_DD_2</td>
<td>SemiFin_008_DD_2_DESC</td>
<td>22.00 %</td>
<td>2 EA</td>
<td>7 EA</td>
<td>⚠ 74.00 %</td>
<td>2 EA</td>
<td>0 EA</td>
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<tr>
<td>BT1_S_201</td>
<td>BT1 - Semi Finished 201</td>
<td>50.00 %</td>
<td>85 EA</td>
<td>84 EA</td>
<td>198.00 %</td>
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<td>0 EA</td>
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<tr>
<td>BT1_S_202</td>
<td>BT1 - Semi Finished 202</td>
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<td>150 EA</td>
<td>200.00 %</td>
<td>150 EA</td>
<td>0 EA</td>
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SAP S/4HANA Demand-Driven Replenishment
Replenishment Execution
## Monitor the On-Hand Buffer Status

### Standard 

Filtered By (2): On-Hand Stock Status, Product

### Products (6)

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Description</th>
<th>On-Hand Buffer Status</th>
<th>On-Hand Stock</th>
<th>Open Supply</th>
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</thead>
<tbody>
<tr>
<td>BS_DDR_SF_M1</td>
<td>DDR SF1</td>
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<td>SEMIFIN_0012_DD_1</td>
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<td>63 EA</td>
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<tr>
<td>SEMIFIN_008_DD_2</td>
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<td>📈 70.00 %</td>
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<td>193 EA</td>
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</table>
Recap
Why DDMRP?
DDMRP – Achieving outstanding results

Variability: -31%
Inventory: -45%
Service Level: planned
SC cost: -20%
Lead time: -50%

Source: Demand Driven Institute
Ďakujem za pozornosť

Kontakt:

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Presales Solution Architect

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