

SAP® Qualified Partner-Packaged Solution

WHITE PAPER

How the PP RapidViews
accelerate your Planning
and Production
deployment on
SAP HANA?

www.PerformanceAnalytics.com www.rapidviews.io/en/



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1. What is the SAP PP module?

The PP (Production Planning) module makes it possible to plan production based on both market demand and production capacity. PP creates schedules for production, procurement and purchasing. This ensures that we have the raw materials for production as needed. The module records the manufacturing process with, for example, planned budgets and actual budgets. It records the movement of goods when raw material is converted into a semi-finished product. This module plays a vital role in any manufacturer's supply chain and is primarily made for production managers or others who are involved in manufacturing and planning and in charge of optimizing production costs.

The PP module has 3 main components:

- Process Industry (SAP-PP-PI)
- Discreet manufacturing (SAP-PP)
- Repetitive manufacturing

Process Industry

Process Industry is used for the production of products which cannot be disassembled. Here, a machine called a workcenter in SAP is usually used for the production of a single product. The PP-PI solution is mainly used in industrial processes which use the notion of batch management to differentiate the items produced. The pharmaceutical, food, or chemical industries particularly use this solution. Process manufacturing counts its products in liters, meters or grams

Discreet manufacturing

Discrete manufacturing is used when a single machine is used for multiple production orders and these are scheduled according to production needs. The machine can be used to make different products. The products produced can be counted in units.

Repetitive manufacturing

Repetitive manufacturing is similar to discrete manufacturing but works without production orders (OF). The products are continuously produced for a long time, and the production does not require much control or production order.

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These 3 components bring together concepts such as:

- Production planning
- Needs calculation (MRP)
- PIC (Industrial and Commercial Plan, sales forecast at company level), PDP (Master production plan, production forecast at factory level)
- Industrial and commercial plan: sales forecast (at company level)
- Production master plan: production forecast (at factory level)
- Calculation of needs and resources (men and machines)
- Capacity planning
- Manufacturing control
- Production monitoring
- Cost calculation
- Management of nomenclatures
- Range management



2. Rapid Views Company

Rapid Views is an innovative software editor to accelerate Business Intelligence deployment on SAP HANA.

Comes from the spin-off of the DeciVision R&D entity which has invested for 2 years on SAP HANA technology.

R&D as a driving force

The software developed by Rapid Views is the result of several years of Research & Development: we offer a unique solution on the market to accelerate your BI deployment on SAP HANA.

SAP trust

SAP encourages and consideres Rapid Views as a fantastic jumpstart for HANA BI implementation

The RapidViews solution is certified by SAP as "SAP Qualified Partner-Packaged Solution"

Strong values

Our employees share common values: a real passion for Business Intelligence, a strong functional BI expertise and the desired to provide a strong value proposition for our customers



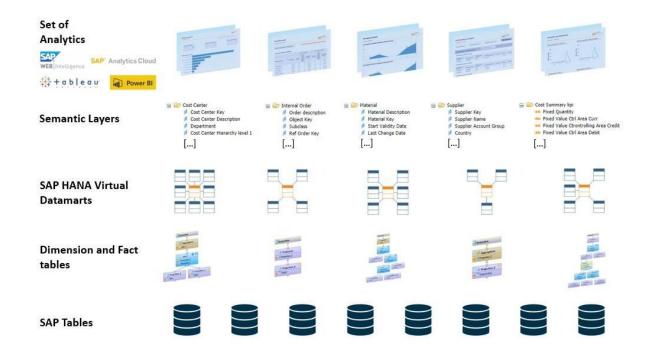
3. Les solutions RapidViews

3.1. Concept and presentation

RapidViews goal: to accelerate drastically any Datawarehouse projects on SAP HANA

In few words:

- Set of Business analytics built either with SAP Web Intelligence, SAP Analytics Cloud, Microsoft Power BI, Tableau Software.
- Semantic layers for operational reporting on SAP FI-CO, SD, MM and PP.
- Sets of datamarts" for SAP FI-CO, SD, MM and PP modules.
- A management console which integrates an intelligent repository and an interface for generating customer specifications
- A full Business Intelligence governance Repository.



RapidViews are certified by SAP:



Certificate of Qualification

SAP[®] Qualified Partner-Packaged Solution



3.1.1. Our global vision BI SAP ERP and BW















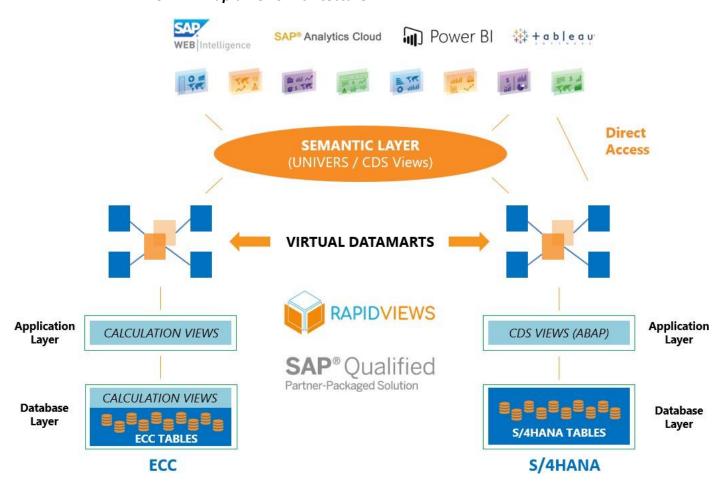








3.1.2. RapidViews Architecture



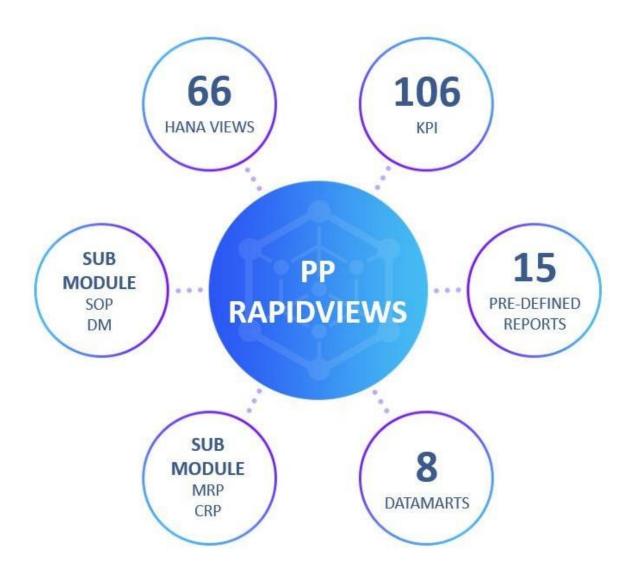


4. PP RapidViews Overview

4.1. PP RapidViews in figures

PP RapidViews includes **66 HANA Views, 106 KPI, 15 pre-defined reports and 8 datamarts**. It covers the following sub-modules:

- Sales & Operational Planning
- Demand Management
- Material Requirement Planning
- Capacity Requirement Planning





4.2. Semantic layer







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- Order Operations Business Area
 - ID of the capacity requirements record
 - Company Code
 - Completion confirmation number for the operation
 - Confirmation counter

 - Cost Element
 - Selection indicator for costing line items
 - Currency
 - Deletion Flag
 - General counter for order
- Item number of the purchase requisition in the order
- Production Orders
 - Account Assignment Indicator
 - Actual finish date
 - Actual release date
 - Actual start date
 - Actual start time
 - Allocation set
 - Alternative BOM Application
 - Apportionment Structure
 - Version of Available Capacity
 - BOM category
 - Date of BOM Explosion/Routing Transfer
 - BOM status

- Routing
 - Operation/Activity Number
 - Activity Type 01
 - Activity Type 02
 - Activity Type 03
 - Activity Type 04
 - Activity Type 05
 - Activity Type 06
 - Unit of Measure for Activity/Operation
 - BOM category
- Node Number
- Consumption period: backward
- Bill of material
- Consumption mode
- Indicator: Continuous flow production
- Control key
- Planned Orders
 - Account Assignment Category
 - Alternative BOM
 - Explosion date
- BOM status
- BOM Usage
- Base Unit of Measure
- ID of the capacity requirements record
- Conversion indicator for planned order
- Firming indicator for planned order data
- Kanban Indicator
- MRP Controller (Materials Planner)
- Planning material
- Object Number
- Object type

Measures

- BOM Base quantity
 - Component quantity
- Price
- Delivery time in days
- Price Unit
- Component scrap in percent

Capacity

- Minimum capacity in volume unit or unit of measure
- Maximum capacity in volume unit or unit of measure
- Finish time in seconds (internal)
- Start time in seconds (internal)
- Cumulative break time in seconds (internal)
- Operating time in seconds (internal)
- Capacity
- Individual capacities number
- Denominator relationship: No. of indiv. capacities reference
- Numerator relationships: No. of indiv. capacities reference
- Number of individual capacities
- Factory calendar weekday
- Total Capacity in Hours
- Operating Capacity in Hours
- Available Capacity in Hours
- Capacity Requirement Planning
- independent Requirement
- MRP
- Order Operations
- Planned Orders
- Production Orders
- Routing

Capacity Requirement Planning

- Operation Quantity
- Actual number of splits
- Scheduled Capacity Requirements for Setup
- Scheduled Capacity Requirements for Processing
- Scheduled Capacity Requirements for the Teardown
- Independent Requirement
 - Quantity of planned independent requirements Quantity that was withdrawn for this requirement
 - Originally planned quantity
 - Quantity in unit of entry
- Numerator for conversion to Base Units of Measure
- Denominator for conversion to base units of measure

- Quantity received or quantity required
- Variable scrap quantity
- Shortage Quantity Excess stock quantity
- Goods Receipt Processing Time in Days
- Stock Days' Supply Without Receipts

First Receipt Days' Supply Order Operations

- Operation Quantity
- Operation Scrap
- Total Yield Confirmed
- Total Scrap Quantity Confirmed
- Price Unit - Price

- Planned Orders
 - Total Planned Order Quantity
 - Reduced Quantity in the Planned Order
- Partial Lot Quantity Fixed Quantity of Scrap from Production
- Requirement Quantity
- Committed Quantity
- Quantity in Unit of Entry
- Goods Received Quantity
- Issued Quantity
- Goods Receipt Processing Time in Days
- Numerator for conversion to Base Units of Measure
- Denominator for conversion to base units of measure
- Number Of Planned Orders
- Production Orders
 - Total scrap quantity in the order
- Total order quantity
- To lot size
- From lot size
- Lot size divisor Base quantity 2
- From lot size 2
- To lot size 2
- Float before production (in days) - Float after production (in days)
- Scrap confirmed for order
- Scheduled float before production in days Scheduled float after production in days Total confirmed rework quantity

- Routing
- Minimum Lot Size
- Fixed lot size
- Setup and teardown time
- Processing time
- From Lot Size
- To lot size
- Number of calls
- Standard Value 01
- Standard Value 03.
- Standard Value 05
- Standard Value 06
- Minimum Send-Ahead Quantity
- Minimum processing time
- Maximum wait time
- Standard queue time
- Minimum move time Minimum processing time in hours

- Maximum Lot Size

- Interoperation time
- Quantity of the material to be produced
- Standard Value 02
- Standard Value 04
- Scrap factor
- Minimum overlap time
- Maximum number of splits
- Minimum wait time
- Minimum queue time Standard move time



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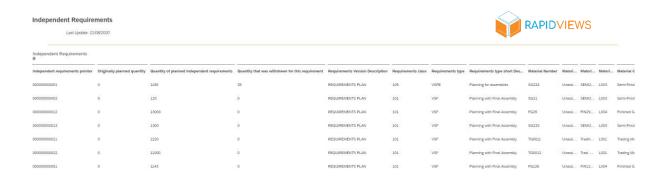
Control Key	Object Type	Production Order Type
Indicator: Post goods receipt automatically	Ø Object Type	✓ Order Type
Indicator: Determine capacity requirements	Object Type Description	✓ Order Type Description
Indicator: inspection characteristics for operation required	Object Category	Procurement Type
Indicator: Rework operation	Category of object causing the load (order category	Procurement Type
 Completion confirmation 	■ Object Category Description	
	Object Status	Planning Strategy
■ Indicator: Scheduling		✓ Planning Strategy Group
✓ Control Key	Ø Object number	✓ Planning Strategy Group Description
✓ Control key description	■ Object status	Requirement Version
Exception Messages	✓ Object Status Description	✓ Version number for independent requirements
Selection group of exception messages	Planned Order Type	Requirements Version Description
Indicator: create material requirements planning list	▶ Planned Order Type	Requirement Type
Do not set exception message	▶ Planned Order Type Description	
Exception message	Shift Group	Requirements class
Exception message number	Grouping for Shift Definitions and Shift Sequences	Requirements type short Description
 Exception message priority 	■ Shift Grouping Description ■ Shift Grouping Descri	Scheduling Type
Exception message text	Work Center	
Element Type	Deletion flag for work center	Scheduling Type Description
MRP Element	Indicator: Backflushing	Spare Part
Abbreviation for MRP element	Plant	
Description of MRP element - up to 10 characters	Object ID of the resource	■ Spare part indicator text ■ Spare part indicato
■ Item Category	Ø Object Type	Special Procurement Indicator
Item Category (Bill of Material)	Object types of the CIM resource	
Item category text	■ Work center	
MRP Group	■ Standard value	Material Production Version
	Standard Text	■ BOM Usage
MRP Group Description	Unit for the standard queue time	▼ Task List Type



5. PP RapidViews: reports samples

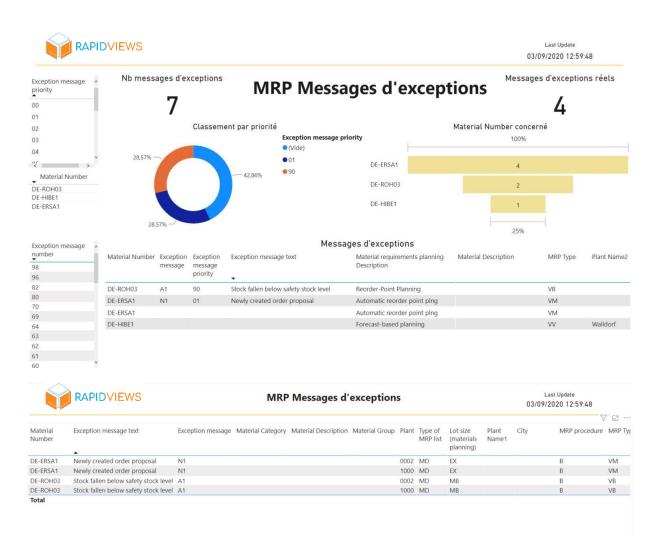
5.1. Independent requirements





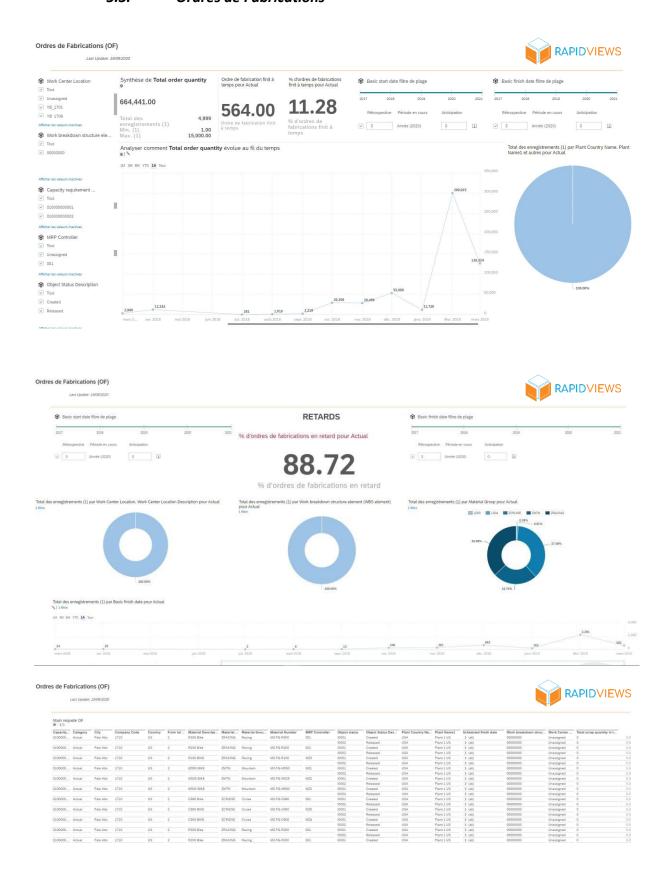


5.2. MRP Messages d'exceptions





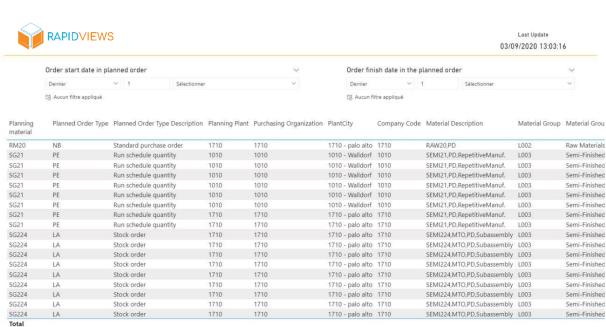
5.3. Ordres de Fabrications





5.4. Ordres de Production







5.5. Dashboard



