

SAP Manufacturing Accounting

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Session Objectives



 This session is aimed at giving an overview of how JLR applied and implemented SAP Manufacturing Accounting and share some lessons learned













SAP at JLR

- SAP tactical solution covering;
 - Core functions (Acctg, Purch, Sales)
 - Manufacturing
 - CRM
 - Global Trade & Distribution











Contents

- Introduction
- Overview of Solution
- What are the Key Master Data Objects
- Product Cost Planning
- Discrete Manufacturing vs Repetitive Manufacturing
- Wrap-up







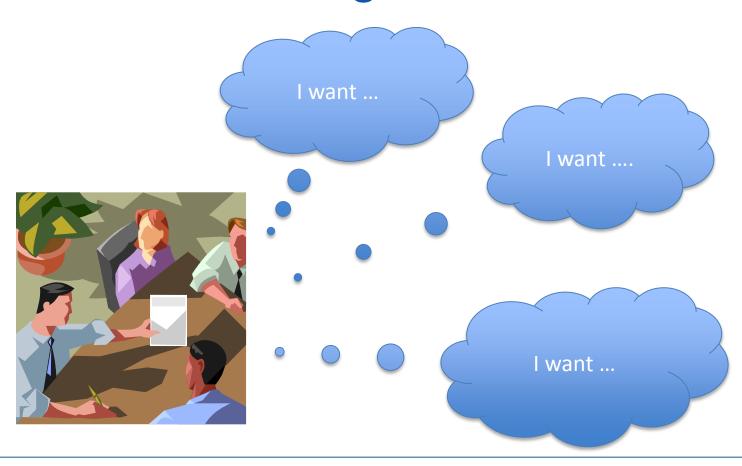








Business Challenges













Business Requirements



- In summary;
 - Capture the Cost of Manufacturing individual products and subassemblies
 - Match costs to the activities that incur them
 - Provide Profitability indicators
 - Aid decision making from shop floor to the board room
 - Provide a Cost Recovery mechanism, with flexibility without losing power
 - Provide detailed variance analysis to support decision making
 - Ensure dataset is "Fit for Purpose"















Modules

Financial Accounting				Controlling							
GL	AP	AR	AA	CCA	PCA	10	PS	PA	PC		
GL				CCA		10			PC		
PP											
IM											







SAP Orders

 An Order is SAP can be setup as a Cost Collector for many different reasons;

Overhead Orders Investment Orders Profitability Orders

Production Orders

Works Orders

Real or Statistical Capitalisation

Capture Revenue vs Expense

Capture Production Costs

Capture cost of completing an activity (e.g. repair, service, other activity)





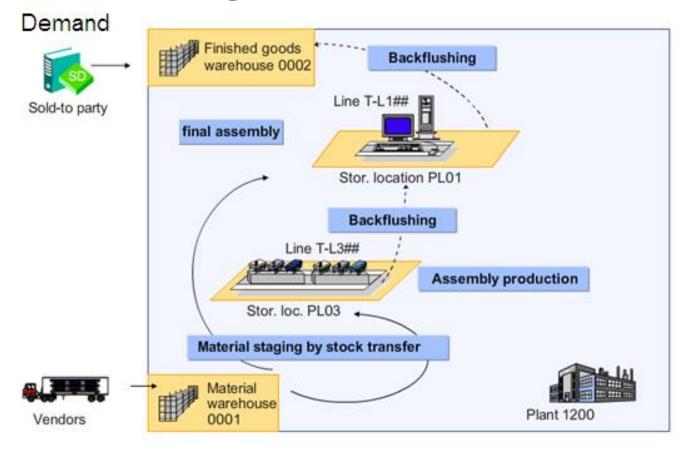








Manufacturing Terms







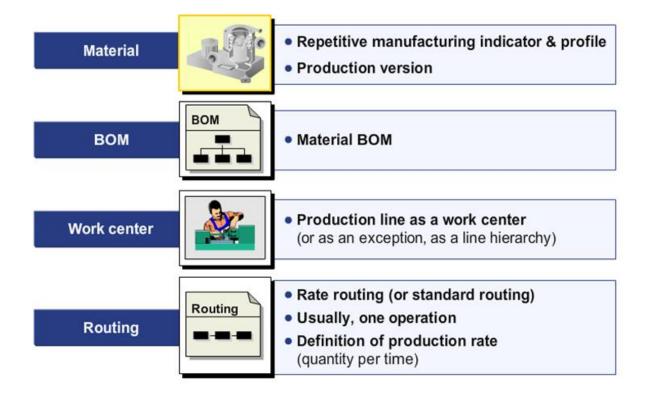








Key Master Data Objects







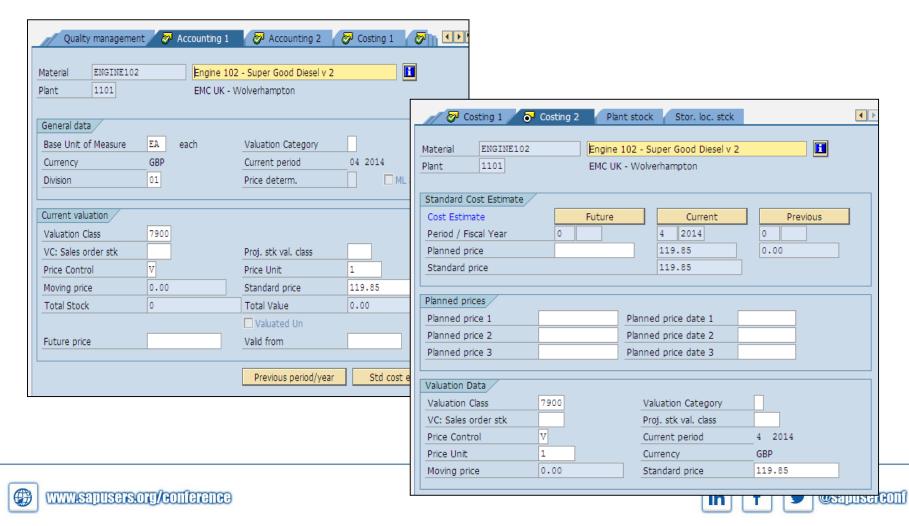






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Material Masters







BOM – Bill of Materials

 From a Production Point of view, this is the list of components that will be consumed in order to make the material

Change material BOM: General Item Overview											
■ □ □ △ Subitems New entries □ ▼ Validity											
Material ENGINE102 Engine 102 - Super Good Diesel v 2 Plant 1101 EMC UK - Wolverhampton Alternative BOM 1											
Material Document General											
	Item I	Ct	Component	Component description	Quantity	Un	Asm	SIs	Valid From	Valid to	Change No.
	0010 B	,	ENG_101_BLK	Block 101	1	EΑ			20.06.2013	31.12.9999	
	0020 B	,	ENG_101_HEAD	Head 101	1	EΑ			20.06.2013	31.12.9999	
	0030 B	,	ENG_101_CRK	Crank 101	1	EΑ			20.06.2013	31.12.9999	
	0040 B	,	ENG_101_PIPE	Piping 101	10	FT			20.06.2013	31.12.9999	
	0050 B	,	ENG_101_BOLT	Bolts	5	BAG			20.06.2013	31.12.9999	
	0120										









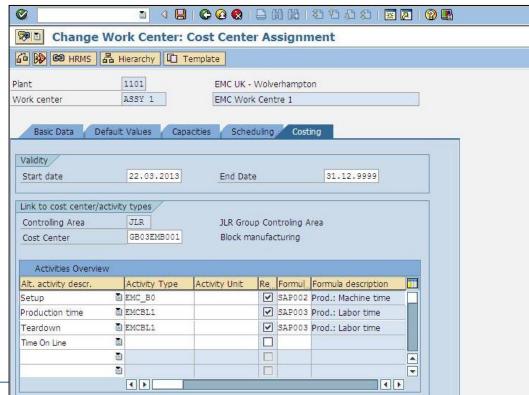




Work Center

Work Centers are PP objects for planning Production

Activities on



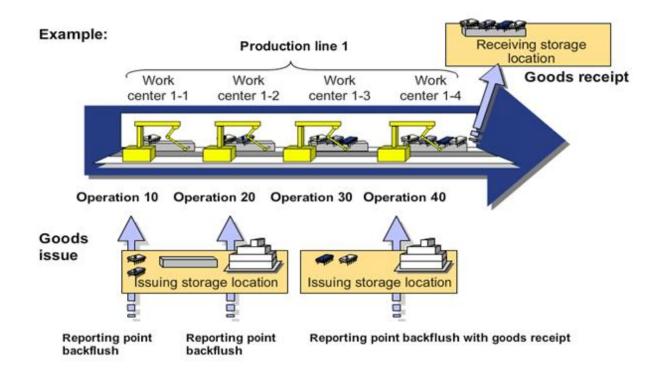








Production Overview











Product Cost Planning

- CO-PC Planning is the process is calculating a Standard Cost of Manufacture
- The idea is to decide how much it should cost to create a widget
- This is the integral part of the process where all your business rules kick in





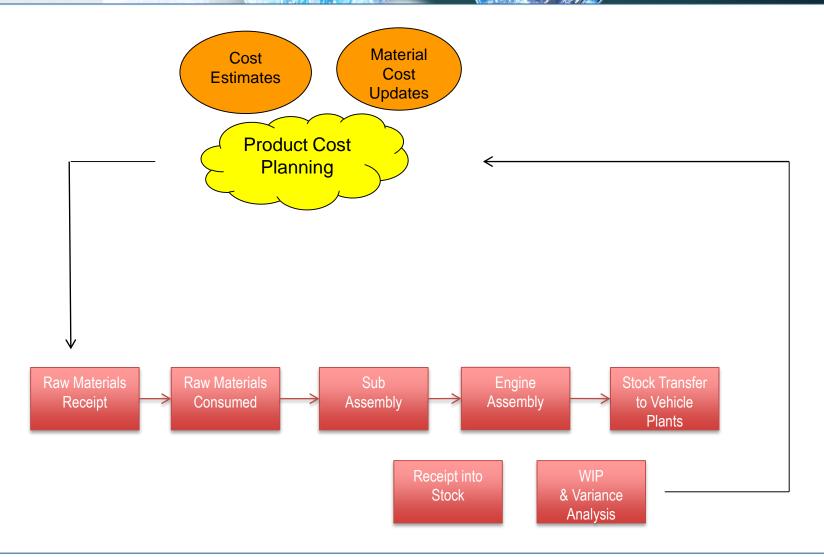








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Solution Principles

- Challenges exist around our local (JLR specific) and legal/statutory requirements
- Standard Costing vs Actual Costing?
- Batch production or Mass production?









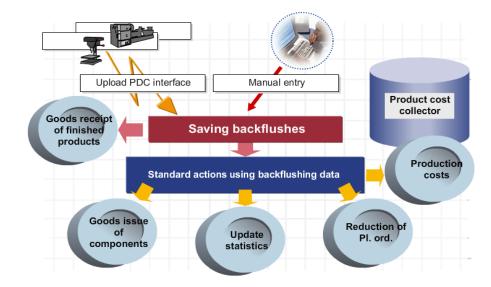




Discrete vs Repetitive

- Making Tins of Beans vs High Specification, serialised component products
- Integration of your shop floor systems with the transaction recording system (SAP)
- Fit for Purpose?

Backflush and Goods Receipt









Accounting?

Discrete

- Specific Production Order accounting
- Capture costs per run/batch
- Variances / WIP per Order

Repetitive

- Specific product accounting
- Capture cost per product
- Variances / WIP per Period

Reliant on SAP BO/BI to deliver Finance KPI reporting











Summary

- Developing a "state of the art" manufacturing facility is reliant on a "state of the art" ERP system to support it
- Standard SAP does not roll-out of the box to meet all our business requirements
- Be clear in your understanding of Discrete vs Repetitive and which is Fit for Purpose







