



Xperdyte Advanced Manufacturing for Sage 200 Evolution



Xperdyte Manufacturing for Sage 200 Evolution

is a cost-effective solution for improved
manufacturing resource planning.



Xperdyte Sage Integration



Xperdyte Manufacturing offers a seamless integration with the Sage Partner & Sage Evolution Core Modules.

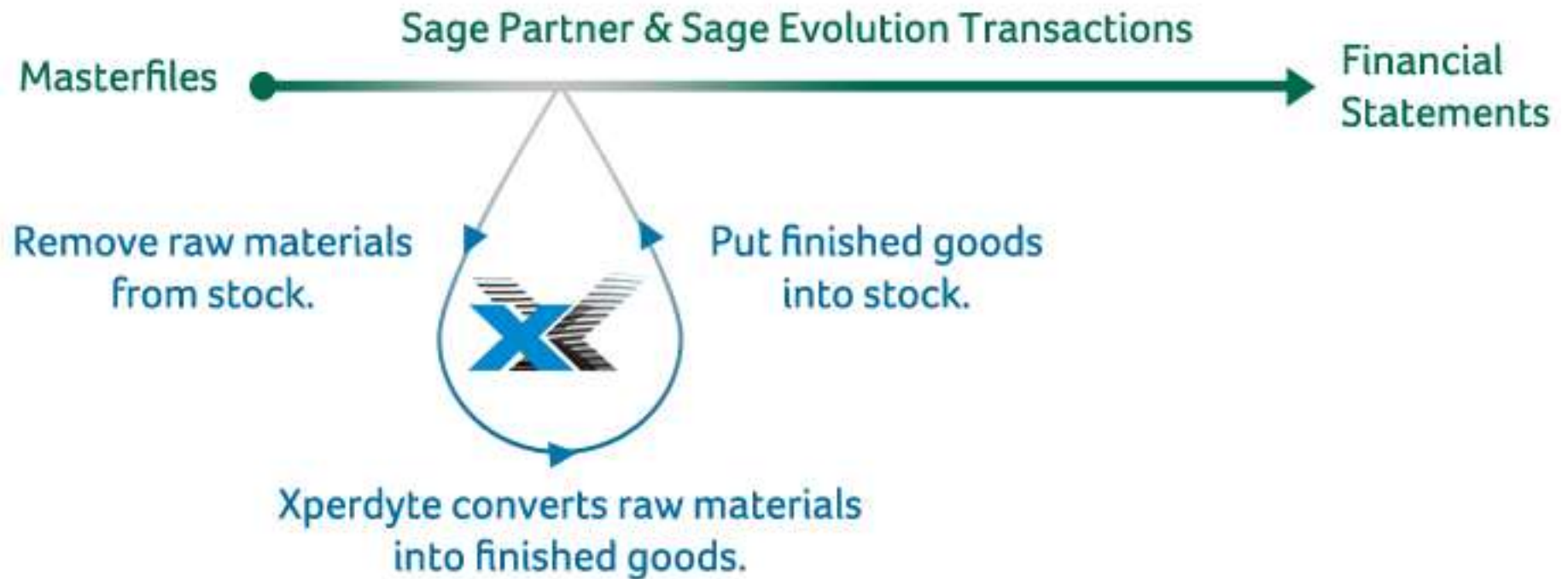
1. Xperdyte Manufacturing extracts the raw materials from Sage Partner & Sage Evolution into Work in Progress.
2. Takes control of all the cost elements during the production cycle.
3. Finished Goods are then returned, accurately costed into Sage Partner & Sage Evolution's finished goods inventory.
4. Manufacturing variances and efficiencies are posted to a manufacturing variance account in Sage Partner & Sage Evolution's General Ledger.



"What's measured improves" ~ Peter F. Drucker

Xperdyte Integration Flowchart

(Sage 200 Evolution)



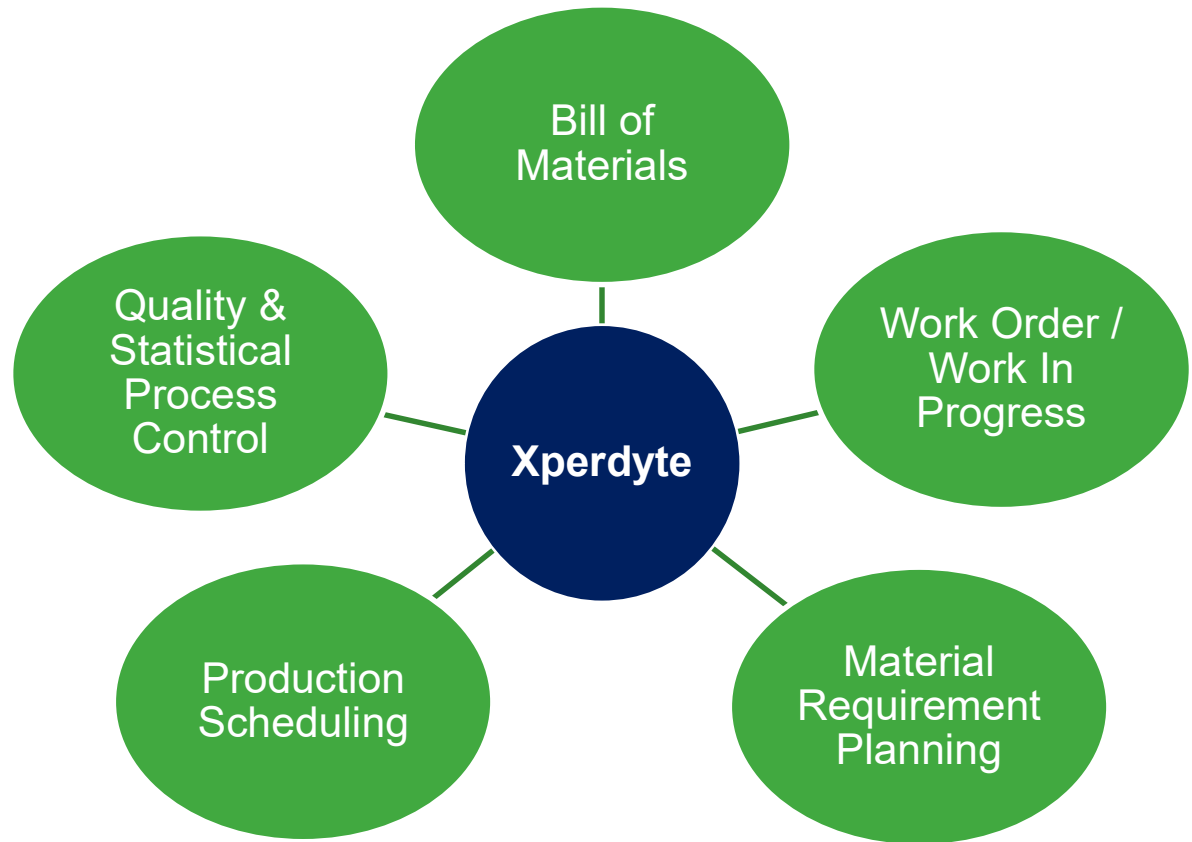
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"The most dangerous kind of waste is the waste we do not recognize." ~ Shigeo Shingo

Xperdyte Software Design



Xperdyte Manufacturing uses five primary modules to manage and control your production processes



“Financially, the overruns are much less important than the overdue” ~ Eliyahu M. Goldratt

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5 Pillars of Measurement



Xperdyte Manufacturing uses standards to measure variances against actuals:

1. **Bill of Materials**

Standard v Actual is compared item by item in the 6 cost elements, namely, Work Centre, Machine Setup Time, Material, Labour, Buyout and Other costs

2. **Material Requirements Planning**

Historical projected quantities are compared to actual quantities on hand per time period.

3. **Production Scheduling**

Actual start and end times are monitored against scheduled times – results are colour coded for easy interpretation.

4. **Quality & Statistical Process Control**

Quality and Statistical Process Control results are monitored against standards.

5. **Works Orders / Work in Progress**

Works Orders control the actual running and measurement of performance of jobs in production



"If you're not keeping score, you're just practicing"

~ Vince Lombardi

Xperdyte Industry Types



Xperdyte Manufacturing for Sage 200 Evolution is an ideal solution for most manufacturing industries:

- Chemical Blending
- Health and Beauty Care Products
- Paint Producers
- Paper and Foil Converters
- Steel and Metal Working
- Textiles
- Plastics and Moulding
- Cosmetics and Pharmaceuticals
- Wood Working
- Electronics
- Food and Beverage
- Engineering

And more...



"When you are finished changing, you're finished." ~ Benjamin Franklin

Xperdyte Bill of Materials



Multi-Level Bill of Materials

The Multi-level Bill of Materials offer advanced costings which form the base for setting standards against which Works Orders are measured for complete and accurate control of your production activities

True Marginal Costing

- Allocation of all costs as Fixed or Variable cost types.
- Compensation for yield losses.
- Powerful 'what-if' costing scenario functionality, applying marginal costing techniques.



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"If you tell me what you are going to measure, I will tell you how I am going to behave"
~ Kenneth E. Kirby

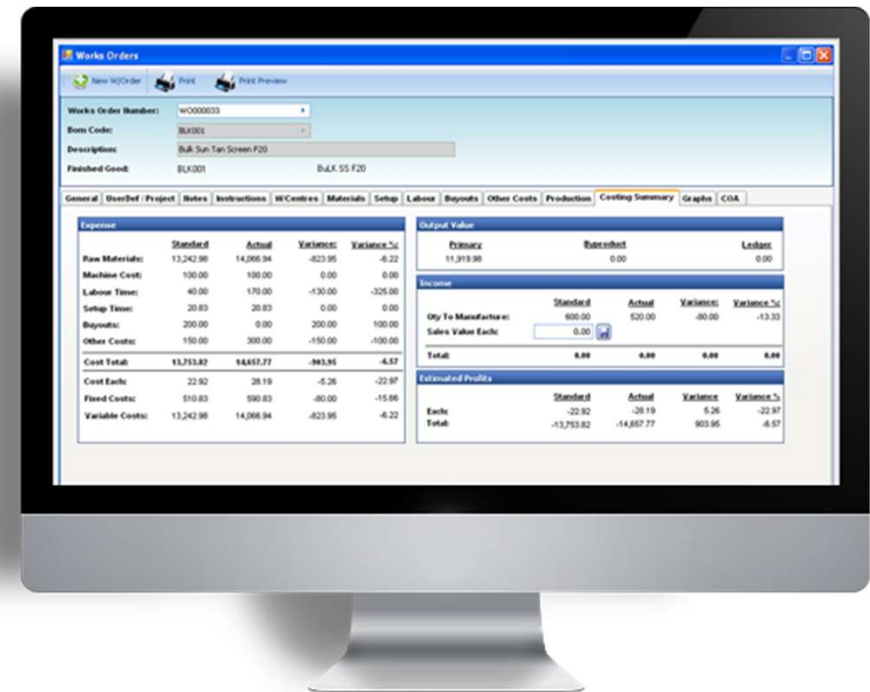
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Work Orders & Work In Progress



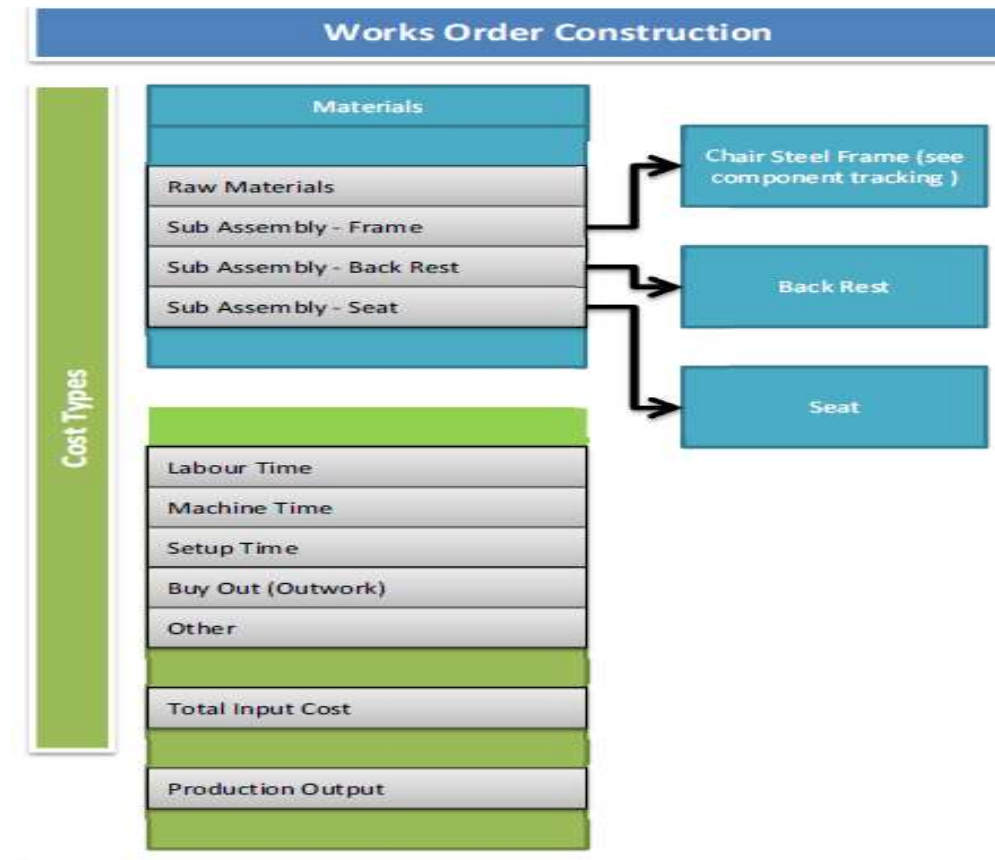
Works Orders control the actual running and measurement of performance of jobs in production.

- Product routing through works centres.
- Prioritization of Works Orders.
- Compare actual performance against pre-determined standards.
- Allows barcode scanning for production feedback.
- Bi-product output can be recorded and costed



“Measure what can be measured and monitor what can’t”
~ Peter F. Drucker

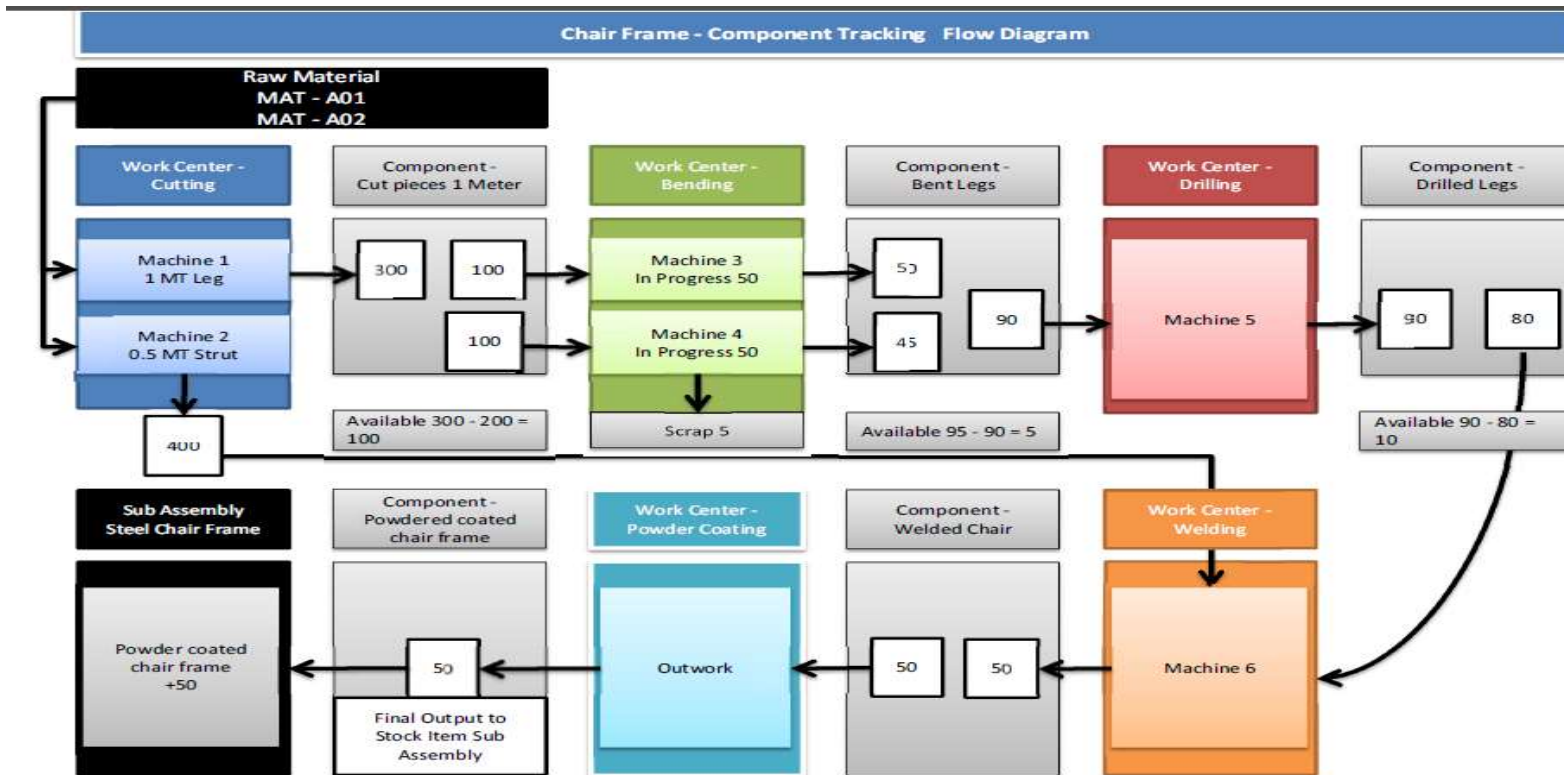
Xperdyte Work Orders Construction



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“Efficiency is doing things right; effectiveness is doing the right things.” ~
Peter F. Drucker

Xperdyte Work Orders Component Tracking



"Efficiency is intelligent laziness." - David Dunham

Xperdyte Material Requirements Planning



(MRP and MRPII)

The Xperdyte Manufacturing MRP modules simultaneously achieves four objectives

- To ensure that materials are available for production and products are available for customers.
- Maintain the lowest possible material and production levels in store.
- Plan manufacturing activities, delivery schedules and purchasing activities.
- Xpernomics Graphing plots the future inventory optimization plan as well as retaining historical results for analysis.

Xpernomics Graphing



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"If you can't measure it, you can't manage it" ~ Peter F. Drucker

Xperdyte Production Scheduling



Xperdyte Manufacturing offers an interactive Production Scheduling calendar which allows Works Orders to be scheduled at Work Centre level.

- Graphical representation of scheduling is effortless.
- Touch Screens can be used to view tasks and enter feedback from the factory floor.
- Users can drill down to the machine and operators performing the works order with start and stop times.



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"If you need a new process and don't install it, you pay for it without getting it" ~Ken Stork

Xperdyte Quality Control



- Quality Control
 - Create and set tests with tolerance levels and result parameters
 - Per Lot number and/or per work centre
 - Xperdyte will produce Laboratory and Certificate of Analysis reports (COA)

Required To Pass													
Li...	W/Ce...	W...	Code	Description	Cost Code	Unit	Min	Max	Value	Passed	Override	Date Of ...	Comment
> 1	MIX1	2	DENSITY	Use apparent density function for pr...			0.85	2.9	2.91	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	03/06/2013	
2	MIX1	2	PH	Take 10ml sample. Test with pHydro...			7.2	7.3	7.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13/07/2012	
3	MIX1	2	PHBUF...	Hydron buffer salts are to NIST stan...			65	68	0	<input type="checkbox"/>	<input type="checkbox"/>	13/07/2012	
4	MIX1	2	VISCO...	Take 50ml sample. Use Cannon CAV2...		mPa s	5,000	6,000	5,800	<input checked="" type="checkbox"/>	<input type="checkbox"/>	03/06/2013	
5	MIX1	2	SG	Use oscillating U-tube meters for test...			0.85	0.9	0.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13/07/2012	



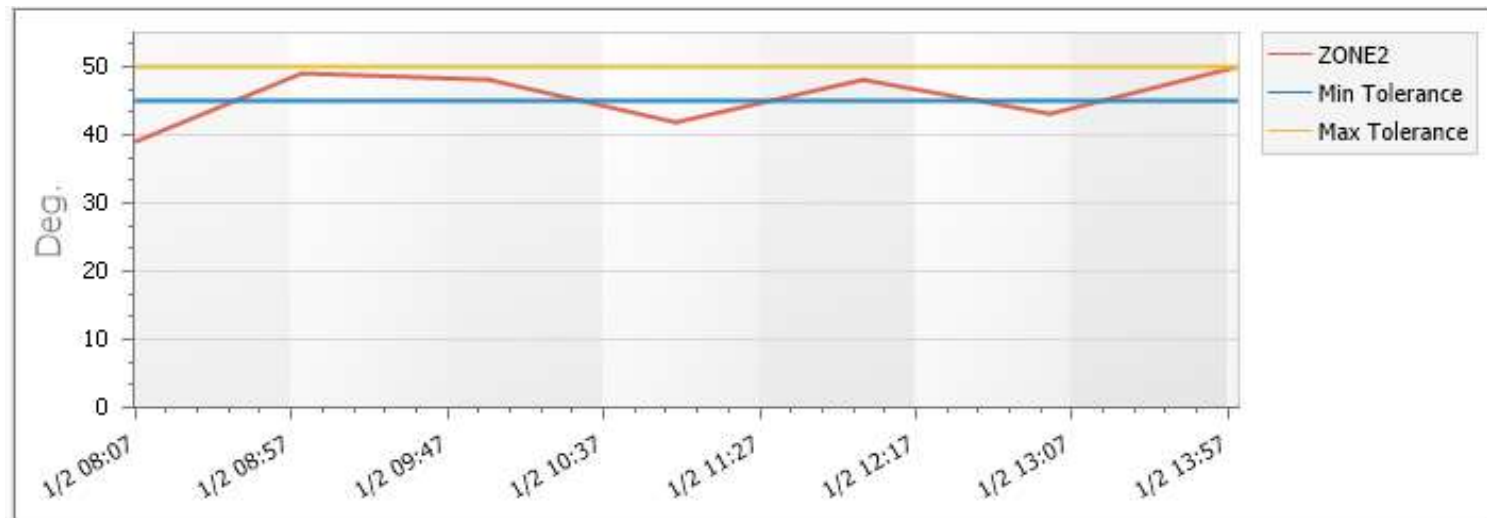
"If you don't have time to do it right you must have the time to do it over" ~Author Unknown

Xperdyte Statistical Process Reporting



- Statistical Process Reporting

- Set minimum and maximum tolerance levels per zone per work centre
- Xperdyte will produce printed and graphed results



“The measurement system directly affects employee performance”
~ Gerhard Plenert & Bill Kirchmier

Xperdyte Workflow via Status Control



- **Workflow Control**

- Works Order movement through work centre's is controlled by Status “exit and entry” rules
- Scheduling is controlled by the Purchase Order due date of critical items

Status : 10 Opened

Rules :

Rule	Prevent	Val1	Val2	Txt1	Txt2
WOrder Linked To SO	Exit	0	0		
WOrder Lines Linked To PO	Exit	0	0		
Approved COA exists for W/Order	Entry	0	0		

Save Cancel



“It is more than probable that the average man could, with no injury to his health, increase his efficiency fifty percent” ~Walter Scott

Xperdyte Lot Recall



- **Lot Recall Tool** This determines the recall of items that are or contain contaminants from Customers (Items already sold), Production (Items in WIP) and Stores (Raw Materials)

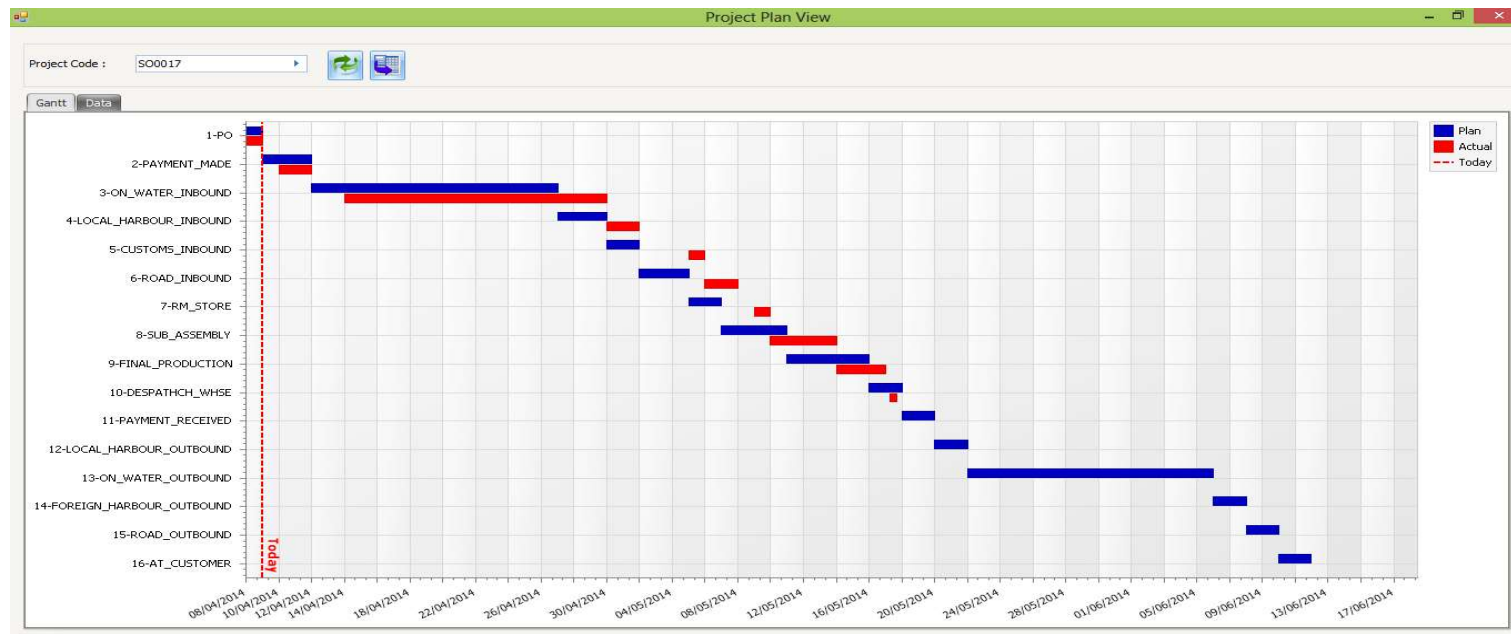
Item Code	Description	Lot Number	Consumed	Type	Recall	Explode	Explode All	Duplicate
LOTTRACK1	LOTTRACK1	W110		Stock Item	<input checked="" type="checkbox"/>	▶	▶	<input type="checkbox"/>
			INV0002	Sales Invoice	<input type="checkbox"/>	▶	▶	<input type="checkbox"/>
			INV0003	Sales Invoice	<input type="checkbox"/>	▶	▶	<input type="checkbox"/>
			INV0004	Sales Invoice	<input type="checkbox"/>	▶	▶	<input type="checkbox"/>
			INV0005	Sales Invoice	<input type="checkbox"/>	▶	▶	<input type="checkbox"/>
TOLUENE	TOLUENE	A01		Stock Item	<input checked="" type="checkbox"/>	▶	▶	<input type="checkbox"/>
			WO000110	Works Order	<input type="checkbox"/>	▶	▶	<input type="checkbox"/>
	LOT...	LOTTRACK1 W110		Stock Item	<input checked="" type="checkbox"/>	▶	▶	<input checked="" type="checkbox"/>
			WO000111	Works Order	<input type="checkbox"/>	▶	▶	<input type="checkbox"/>
	LOT...	LOTTRACK2 W111		Stock Item	<input checked="" type="checkbox"/>	▶	▶	<input type="checkbox"/>
			INV0002	Sales Invoice	<input type="checkbox"/>	▶	▶	<input checked="" type="checkbox"/>
			INV0003	Sales Invoice	<input type="checkbox"/>	▶	▶	<input checked="" type="checkbox"/>
			WO000165	Works Order	<input type="checkbox"/>	▶	▶	<input type="checkbox"/>

Xperdyte Project Planning Milestones



- Project Planning Milestones

- Allows for the creation of project milestones where forecast plans can be set and measured against actual performance. These can also be viewed using Xperdyte's Web Application Dashboard.



Xperdyte

Additional Software Features



- **BOMs & Works Orders**

- Unlimited Specifications
- Attach unlimited documents
- Serial Number/Lot Tracking for traceability from cradle to grave
 - Requires Sage Evolution Serial Number and Lot Tracking modules
- Global replacement tool
- Multi level Works Order creation
- Buyouts with Supplier processing
- Worker productivity tracking
- Sales Order tracking via Works Order status

- **General**

- Landing page dashboard
- User access control
- Project Tracking
- User Defined Fields on:
 - Inventory
 - BOMs & Works Order Headers
 - BOMs & Works Order Lines
 - Includes 2 unlimited size text fields
 - Projects
 - SPC Tests
- Decanting facility

- **Reporting**

- Extensive Reports
- Document reprinting
- Built in Report Designer to modify any document or report in Xperdyte



*“Where there is no Standard there can be no Kaizen
(Change for the Better)” ~ Taiichi Ohno*

Contact Details



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“Without changing our patterns of thought, we will not be able to solve the problems that we created with our current patterns of thought.”

~ Albert Einstein

“The goal is not to improve one measurement in isolation. The goal is to reduce operational expenses AND reduce inventories AND increase throughput simultaneously”

~ Eliyahu M. Goldratt, The Goal

“Lean Manufacturing is a production strategy aimed toward achieving the shortest possible cycle time and reducing the expenditure of resources by eliminating waste” ~ Gemba Academy

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Thank you
for your time