Welcome to online seminar on Oracle Production Scheduling

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Objectives

End Users
- To provide an overview of Oracle Production Scheduling (PS) module of Oracle Apps.
- Implementation Options-Architecture
- Get familiar with the high level business process using Oracle PS.
- Get familiar with the different functionalities of Oracle PS.

This session would provide inputs to the end users that help them evaluate the need of Oracle PS in their own organizations.

Oracle Experts
Though this is not a training program but it would give the consultants enough information about the product to get started with it and help them learn and explore further.
Agenda

• Production Scheduling- Options available in Oracle (5 min)

• Oracle PS scope/architecture (5min)

• Oracle PS business process (5min)

• Oracle PS integration with APS (5min)

• Q&A (5min)

• About us (5 min)

• Live Demo (15-20 min)

• Q&A (15-10min)
Scheduling Options: Oracle Manufacturing Scheduling

Oracle Manufacturing Scheduling does the job but …..

- Form based UI - not very elegant.
- Difficult to perform “What-if” analysis.
- No off-line mode.
- No Collaboration amongst different schedulers.
- Constraint-based ASCP plan would do scheduling and enable Gantt chart in the workbench.
- Not possible to make the changes on the fly.
- Not an option for businesses with extensive scheduling requirements
Flexible and easy to work with scheduling UI
Advanced analytical views
Sequence dependent changeover minimization
Alerts with root cause
Automatic floating bottleneck detection
Representation of all routing precedence relationships
KPIs to determine the best schedule.
Oracle Production Scheduling (PS)

Supports all modes of manufacturing:

- **Discrete Manufacturing**
  - Simultaneous resources
  - Minimum transfer quantities
  - Sequence dependent setups

- **Process Manufacturing**
  - By-products
  - Campaigns
  - Changeovers

- **Semiconductor**
  - Co-products
  - Binning
  - Network routings
Two implementation modes:

- Production Scheduling-Standalone
- Production Scheduling-Linked to ASCP plan
Production Scheduling - Standalone

Production Scheduling - No Link to ASCP

System:
- Collect Data from EBS/Legacy
- Run PS Snapshot
- Reschedules Work Orders start date and end dates on the source

Scheduler:
- Download PS snapshot to local client
- Run PS solver
- Review and adjust Production Schedule
- Repair PS
- Accept Production Schedule
- Approve PS
- Publish PS to Source

Yes

No
- Schedule Work Orders only
- Forecast Demands through linked Demand Schedule
- Inter-Org demands included only via internal sales orders
- Items to be included in PS specified through categories and category sets
- No Forecast Consumption
Production Scheduling - Linked to ASCP plan

Production Scheduling - Link to ASCP

System
- Run Data Collection
- Run ASCP Plan linked to PS
- Run PS snapshot linked to ASCP plan
- Create New Work Orders
- Reschedules the Work Order start and end dates

Planner
- Review ASAP Plan
- Release Planned Orders to create work orders

Scheduler
- Download PS snapshot to local client
- Run PS solver
- Review and adjust the schedule manually
- Repair the Schedule
- Select Work Orders to Reschedules
- Publish Firm PLO to ASCP
- Publish WO to source
- PS schedule accepted?
  - Yes: Approve PS
  - No: Reschedules the Work Order start and end dates
Production Scheduling - Linked to ASCP plan

- Schedule both work orders and planned orders
- Forecast demands comes through linked ASCP plan
- Inter-org demands also include planned order demands from ASCP
- Items to be included in PS derived from the items in the ASCP plan
- Forecast consumption performed in ASCP is retained in PS
Production Scheduling - Linked to ASCP

Source ERP

Work Order Reschedules
New Work Orders

Production Scheduling

Items
Bill of Materials
Routings
Resources
Work Order
Sales Orders
On Hand

Planned Orders
Planned Order Demands
Sales Orders
Forecasts

ASCP
Production Scheduling Vs ASCP

Scope of PS Scheduling for Plant 1

Supp1

Plant 1

Plant 2

Plant 3

Cust 1

Cust 2

Cust 3

Cust 4

DC 1

DC 2

Scope of ASCP Planning for Supply Chain
Responsibility: Production Scheduler
Production Scheduling Integration - Menu Functions

- PS Workbench
- Define PS Options
- Define PS plan
Production Scheduling Integration - Schedule Names

Enter the Schedule name
## Production Scheduling Integration - Schedule Options
### - Schedule Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost Time Unit</td>
<td>Day</td>
</tr>
<tr>
<td>Fixed Time Fence</td>
<td>0 Days</td>
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<tr>
<td>Decimal Precision</td>
<td>2</td>
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<tr>
<td>Use Work Order Units Of Effort</td>
<td>Select by Routing</td>
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<tr>
<td>Bottleneck Resource Group</td>
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<td>Simulation Set</td>
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<td>Global Offload Threshold</td>
<td>75%</td>
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<td>Global Offload Threshold Window</td>
<td>7 Days</td>
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<td>Demand Build Strategy</td>
<td>JIT</td>
</tr>
<tr>
<td>JIT Operation Placement To</td>
<td>Available Date</td>
</tr>
</tbody>
</table>
Production Scheduling Integration - Schedule Options
- Display Parameters

- Display Parameters

Create Demand Folders Based On: Class
Create Supply Folders Based On: Type
Create Work Order Folders Based On: Routing
Production Scheduling Integration - Schedule Options
- Run Optimization

- Use Run Optimization

- Run Optimization Parameters
  - Work Week Start Day: Monday
  - Work Week Start Time (HH:MM): 08:00
  - Minimum Cycle Time: Days
  - Minimize Changeovers Between Cycles
    - Ideal Operation Sequence Based On: Cost
    - Inventory Carrying Cost Scale Factor: 1
    - Inventory Stockout Cost Scale Factor: 1
    - Changeover Cost Scale Factor: 1
    - Safety Stock Violation Cost Scale Factor: 1
Rapidflow Apps - Profile

Rapidflow Apps was founded with the sole objective of providing high quality, innovative and practical solutions to the real world business problems of our clients in the areas of Supply Chain Planning, Product Lifecycle Management, Master Data Management and Business Intelligence.

Each of our SME brings years of oracle APS Suite, PLM and OBIEE product expertise with a proven record of leading multiple successful implementations.

Our talented and self motivated team is result driven, proficient and delivery oriented. We can deploy quality solutions at a reduced cost of ownership in compressed timeframes.
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- Turnaround services for troubled/failed Implementations
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Coming Next

Watch out for future seminars on:-

- Demantra 7.3
- Oracle Inventory Optimization
- Oracle Distribution Requirement Planning (DRP)
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