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.
Scheduling Options: ASCP Scheduling

- 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
Scheduling Options: Oracle Production Scheduling (PS)

- 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
Production Scheduling - Implementation modes

Two implementation modes:

- Production Scheduling-Stand-alone
- Production Scheduling-Linked to ASCP plan
- 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 - 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 ASCP 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
- PS schedule accepted?
  - No
  - Yes
    - Approve PS
    - Select Work Orders to Reschedules
    - Publish Firm PLO to ASCP
    - Publish WO to source
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

Rapidflow Apps
Accelerate Your Business
Production Scheduling Vs ASCP

Scope of PS Scheduling for Plant 1

Supp1

Plant 1

Plant 2

Plant 3

DC 1

DC 2

Cust 1

Cust 2

Cust 3

Cust 4

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

- PS Workbench
- Define PS Options
- Define PS plan

Rapidflow Apps
Accelerate Your Business
Enter the Schedule name
Production Scheduling Integration - Schedule Options - Horizon

**Schedule**: Production

**Description**: A Production Schedule

**Horizon**

- **Scheduling Horizon**: 30 Days
- **Release Horizon**: 30 Days
- **Schedule Start Date Offset**: 1 Day
- **Schedule Start Time (HH24:MM)**: 00:00

**Schedule Start**: 07-JAN-2006 00:00

**Schedule End**: 06-FEB-2006 00:00
Production Scheduling Integration - Schedule Options - Scope
Production Scheduling Integration - Schedule Options

- Schedule Parameters

- Cost Time Unit: Day
- Fixed Time Fence: 0 Day
- Decimal Precision: 2
- Use Work Order Units Of Effort: Select by Routing
- Adjacent Operations Preferred

- Bottleneck Resource Group:
- Simulation Set:
- Global Offload Threshold: 75%
- Global Offload Threshold Window: 7 Days
- Demand Build Strategy: JIT
- JIT Operation Placement To: Available Date
## Production Scheduling Integration - Schedule Options

### Display Parameters

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<td>Routing</td>
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Production Scheduling Integration - Schedule Options
- Run Optimization

- Use Run Optimization

Run Optimization Parameters:

- Work Week Start Day: Monday
- Work Week Start Time (HH24:MI): 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
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- Oracle Inventory Optimization
- Oracle Distribution Requirement Planning (DRP)
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