Our Passion. Your Advantage.

QAD Planning and Scheduling Workbenches

Brent Shooltz - Sr. Business Systems Analyst - MFG
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Agenda

- Master Scheduler’s Challenges
- Production Scheduler’s Challenges
- “Demo”
- Availability Status
- Q&A
Planning & Scheduling Workbenches

The Scheduler’s Challenge
Master Scheduler’s Challenge

**Executives**
ROI must improve; the stockholders are not happy!

**Finance**
There’s too much cash tied up in inventory!

**Manufacturing**
There are too many changes! Provide fixed schedules and the correct parts and delivery will improve.

**Engineering**
There’s a new product introduction scheduled for the fall! But we need more time for design!

**Sales**
Service levels are down. I need more inventory! Whatever it takes to keep the customer happy!
Master Scheduling Flow Today

Master Scheduling

Capacity Requirements Planning

[Diagram of the Master Scheduling process]

[Diagram of the Capacity Requirements Planning process]
Production Scheduler’s Challenge

**Finance**
High variances to “plan” (extra setup, downtime, labor), you need to optimize your production schedule.

**Manufacturing**
Labor / machine resources not available for 2nd shift – what are you going to do about this?

**Materials**
You can’t change the schedule on short notice and expect the materials to be available.

**Sales**
Drops in a new high priority order due tomorrow, which order can be moved?
Production Scheduling Flow Today

Planning and Scheduling
- Run MRP
  - Review Action Messages
  - Expedite (De-Expedite) Orders
  - Review Component Availability
  - Manage Shortages
  - Approve Orders for Production Items
  - Create Capacity Plan
  - Issue Discrete Order

Release Orders to Production

Planning and Scheduling
- Run MRP
  - Approve Planned Schedules

Release Schedules

Planning and Scheduling
- Build Line Schedules

Create Capacity Plan
- Convert Line Schedule to Daily Schedule
- Update Daily Schedules
- Explode Daily Requirements
  - Issue Repetitive Picklist
  - Use Picklist
  - Make Product to Schedule
### Common Planning & Scheduling Situation

![Scheduling Spreadsheet](image)

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Planning & Scheduling Workbenches

The QAD Solution
Production Scheduling Flow

1. Create Master Production Schedule
2. Run MRP
3. Batch Approve
4. Approve Planned Orders
5. Create Production Schedule
   - Release Repetitive Production Order
   - Release Discrete Production Order

Click for Next Point
Solution Components

**Period** - > **Month** - > **Week** - > **Day** - > **Shift** - > **Interval** - > **hour**

- **MRP**
  - Forecasts – sales demand – inventory planning
  - Initial plan is created by MRP

- **MSW**
  - Production Planned
  - Balance demand / supply / resources to ensure a feasible and level production plan.

- **PSW**
  - Production Scheduled
  - Sequence production orders by item attributes and resource allocations to Optimize shop floor

- **Base**
  - CAC
  - Production Dispatched
  - Verify materials available
  - Release orders
  - Print work orders and schedules

- **Base**
  - Production Reported
  - Monitor Production & Manage Production Order

**MSW/ PSW/ CAC Together**
- Consolidation of 50 maintenance, report and inquiry programs
- New capabilities (production scheduling, integrated component checking)
**Capacity Frame**
Displays capacity information per selected resource in the Schedule Grid.
- Balance your planned and required capacity.

**Schedule Grid**
The primary context of the workbench.
- View and modify your production schedules for each item.

**Supply/Demand Frame**
Provides demand & supply information per selected item in the Schedule Grid.
- Primary information used for scheduling decision making.
User selects the item row in Schedule Grid.

Supporting Panels
Enables master scheduling action and decision making.
Represents over 30 maintenance programs and reports!
PSW Screen Overview

- **Production Order Sequence Grid**
  Schedule and sequence production orders by item attributes.
  - Create a schedule by (release date, shift, sequence)

- **Production Order Browse**
  Search & group data per user specification

- **Production Order Maintenance**
  View and maintain all order details.

- Drag & Drop the orders to the desired position on the Sequence Grid.
Order Component Status
Before releasing to shop floor, verify all component are available.

Order Component (Bom) Frame
Identify the components with shortages, scheduled receipts, partial issues.

- Select a Component and drill down further into MRP and Inventory Details
Planning & Scheduling Workbenches

Summary
Master Scheduling Workbench Value

- Reduces master scheduling time and complexity
- Compresses manufacturing response
- Provides ability to create an “optimized” master schedule
- Enables to be proactive
Production Scheduling Workbench Value

- Reduces production scheduling time and complexity
- Increases shop floor optimization
- Provides ability to create an “optimized” production schedule
- Removes need for spreadsheets
Availability Status

▲ Standard Edition (SE)
  – Three Early Adopters
    • Superior Essex
      – Environment : 2008 SE (Discrete)
    • Superior Industries
      – Environment : 2008 SE (Repetitive)
    • Cascade Engineering
      – Environment : 2008 SE (Repetitive)
  – Criteria for SE General Availability
    • One out of three early adopters live
    • No remaining critical issues for other two early adopters

▲ Enterprise Edition (EE)
  – Released with 2010.1EE
    • Available to customers current on QAD maintenance
Active Maintenance Product Features – Term License Key Request

QAD provides certain product functionality at no charge to Customers with active maintenance contracts for the Core QAD Enterprise Applications product. These products are provided as part of standard product releases, and can be utilized to provide increased operational efficiencies and productivity from your QAD product solutions. Activation and use of active maintenance product features requires obtaining and applying a Term License Key that will keep such product functionality operational for the duration of the current contract. As your contract renewal date approaches, it is necessary to come back to this page, request and apply a new term license key to continue use of these features for the duration of the new contract. Read more about Active Maintenance product features.

Request a term license key using the Term License Key Request icon below.

The following pages provide more details on QAD Product features that are available with an Active Maintenance contract:

- Operational Metrics
- QAD Planning and Scheduling Workbenches
QUESTIONS?