GETTING THE MOST OUT OF YOUR GP INVESTMENT

Deploying GP Manufacturing

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Presented by: Patty Taylor
Patty Taylor is a Director in RSM's Technology and Management Consulting Practice and leads the Rocky Mountain/ West Microsoft Dynamics GP team, plus offers clients solid experience in consulting and implementation services. She primarily focuses on the manufacturing industry, project management and system design.

Over the years, Patty has assisted clients in the service, distribution, biopharma, manufacturing, energy, consumer packaged goods, not-for-profit, and public sector in deploying Dynamics GP platform.
When is GP Manufacturing a good fit?
  - Discrete Manufacturing vs Process Manufacturing
  - What Version of GP are you on and do you own the software?

Set Clear Objectives
  - Accounting and Manufacturing
  - Costing Methods
  - Bill Of Materials
  - Routing and Routing Costs
  - Manufacturing Modules

Deploying Manufacturing
  - Inventory Cards/Classes
  - Labor, Machine and Outsourcing Costs
  - Bill Of Materials
  - Routings

Manufacturing Advantages
  - Generating MRP
  - View Manufacturing Activity
  - View Cost Variances
WHEN IS GP MANUFACTURING A GOOD FIT?
Discrete manufacturing is the production of distinct items. Automobiles, furniture, toys, smartphones, and airplanes are examples of discrete manufacturing products. The resulting products are easily identifiable and differ greatly from process manufacturing where the products are undifferentiated, for example oil, natural gas and salt.
When is GP Manufacturing a good fit?

**Process manufacturing** is the branch of manufacturing that is associated with formulas and manufacturing recipes, and can be contrasted with discrete manufacturing, which is concerned with discrete units, bills of materials and the assembly of components.

If Process Batches are consistently the same size.
When is GP Manufacturing a good fit?

• IF you are on GP2013 or later, Microsoft changed their licensing structure.
  • Check to see if you already own the software.
    • If you were on GP Professional or GP Advanced Management you do.
    • Or if you owned one of the modules listed in the Extended Pack as an a la carte item before GP2013.

• Otherwise you can purchase the Extended Pack for $10,000 + maintenance.
When is GP Manufacturing a good fit?

**BUSINESS INTELLIGENCE AND REPORTING**
- MICROSOFT FORECASTER

**SUPPLY CHAIN MANAGEMENT**
- AVAILABLE TO PROMISE
- ADVANCED PICKING
- RETURNS MANAGEMENT

**MANUFACTURING SUITE**
- MANUFACTURING BILL OF MATERIALS
- MANUFACTURING ORDER PROCESSING
- MASTER PRODUCTION SCHEDULING
- MATERIALS REQUIREMENTS PLANNING

**PROJECT ACCOUNTING**

**FIELD SERVICE MANAGEMENT**
- CONTRACT ADMINISTRATION
- DEPOT MANAGEMENT
- PREVENTIVE MAINTENANCE
- SERVICE CALL MANAGEMENT
SET CLEAR OBJECTIVES
Set Clear Objectives

• Organize a meeting with Accounting, Supply Chain and Manufacturing to review....
  • What is the reason or purpose for deploying? Mission Stmt
  • Costing Methods- STD Cost vs Actual Cost for Material
  • Are other costs being tracked?
    • Labor Costs (Actual or Std)
    • Labor Fixed Overhead
    • Labor Variable Overhead
    • Machine Costs (Actual or Std)
    • Machine Fixed Overhead
    • Machine Variable Overhead
    • Outsourced Mfg Costs
  • Project Sponsors/Managers/Team
  • Blackout Dates

*Recommended – One Project Manager from each Department.
Set Clear Objectives

• Bill of Materials
  • Where are your Bill of Materials kept today?
  • Are you using a CAD software you’d want to integrate from?
  • Do you want your drawings attached to your Bill of Materials?
  • What will your system of record be after deployment?
  • How many different BOMs do you have?
  • Do you want GP Manufacturing to track Revision levels?
  • Who will be in charge of insuring the GP BOM is accurate?
Set Clear Objectives

• Routings
  • How many different Work centers do you have?
  • Will each Work Center represent a different Routing Sequence?
  • Can a BOM have two different Routings?
  • Routers can effect your Traveler. Do you use Travelers today?
  • If you are tracking actual labor time, where will the employee enter their time. Payroll Clock, GP, Timesheet
  • Do you want GP Manufacturing to track Revision levels?
  • Who will be in charge of insuring the GP Routings are accurate?
Set Clear Objectives

• Manufacturing Modules
  – Manufacturing Order Processing
    • Standard Manufacturing Orders
    • Quick Manufacturing Orders
  – Material Requirements Planning
  – Master Production Planning
  – Quality Assurance
  – Forecasting
  – Engineering Change Management
  – Sales Configurator
  – Job Costing
Set Clear Objectives

Engage with RSM and begin your GP Manufacturing project

**Initiate**
- Establish a clear vision of the objectives for the implementation

**Analyze and Design**
- Understand the data/process flows, detailed business requirements, and integrations with existing business systems

**Build and Validate**
- Configure and test the application, modifications and product extensions with converted data

**Deploy**
- Train end-users on new system and processes, complete final data migration, and cutover to new system

**Operate**
- Provide ongoing support as needed, conduct project close, and transition to internal support team
DEPLOYING MANUFACTURING
Deploying Manufacturing

Item/Item Class Account Changes

- The Costing window is a “Ghost” window that only appears when manufacturing is enabled.
- These accounts can be used to create inventory and expense buckets.
- GP allows users to create as complicated or simple costing structure as needed.
Deploying Manufacturing

Unit of Measure Schedules

**Base UoM** – How do you count it?

**Purchasing UoM** – How do you buy it?

**Consumption UoM** – How do you use it or consume it?
Deploying Manufacturing

Item Resource Planning

- Entries on this window drive MRP calculations
- Information is site specific
Deploying Manufacturing

Item Engineering Data

- Entries on this window drive how items are manufactured
- Without “Make” designation marked on this window, you cannot enter a BOM or Routing for an item.
Deploying Manufacturing

Serial Lot Tracking

- Lot or Serial Tracking Selection is made in the Options tab of the Item Maintenance window.
- There are a few things to consider when choosing to lot or serial track inventory…
Deploy Manufacturing

Sites and Bins

- Sites normally represent a physical warehouse.
- Bins normally represent a location within a warehouse.
- MultiBin or Single Bin?
MANUFACTURING ADVANTAGES
Generating MRP

- MRP is the main integration point between Manufacturing and other modules.
  - Connection to Purchasing, Inventory, and Sales
### Viewing Manufacturing Activity

#### Manufacturing Order Activity - TWO (sa)

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### Viewing Manufacturing Variances

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#### Production Variance

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Variance = Production Costs - Costs Put into WIP

Variance % = \( \frac{\text{Variance}}{\text{Costs Put into WIP}} \times 100 \)