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Product Costing and Manufacturing Accounting Guide

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H Import Mass Data into Manufacturing Systems

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Preface

Welcome to the JD Edwards World Product Costing and Manufacturing Accounting Guide.

Audience

This document is intended for implementers and end users of JD Edwards World Product Costing and Manufacturing Accounting system.

Documentation Accessibility

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Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Overview to Product Costing and Manufacturing Accounting

This chapter contains these topics:

- [Section 1.1, "System Integration,"](#)
- [Section 1.2, "Features,"](#)
- [Section 1.3, "Product Costing and Manufacturing Accounting Integration,"](#)
- [Section 1.4, "Achieving Effective Cost Management,"](#)
- [Section 1.5, "Tables,"](#)
- [Section 1.6, "Menu Overview."](#)

Maintaining accurate and complete records on the value of inventory is one of the major concerns of most businesses today. Keeping too much of an unprofitable stock, or using inappropriate methods of costing certain inventory items, can quickly deplete your profits.

The Product Costing system allows you to store and retrieve cost information. It also helps you to manage your costs by providing informational inputs to your company's business plan. With accurate product costing, you can evaluate the following manufacturing processes to determine the impact to your company's bottom line:

- Manufacturing budgets (direct labor, indirect labor, and overhead)
- Product design (design and manufacturing engineering)
- Accounting (gross margin by product line or item)

After you establish costs in the Product Costing system, the Manufacturing Accounting system tracks the costs, reports on variances, and posts manufacturing transactions to the general ledger.

Note: The term work order is used throughout this guide. In general, however, transactions that affect work orders also affect rate schedules.

1.1 System Integration

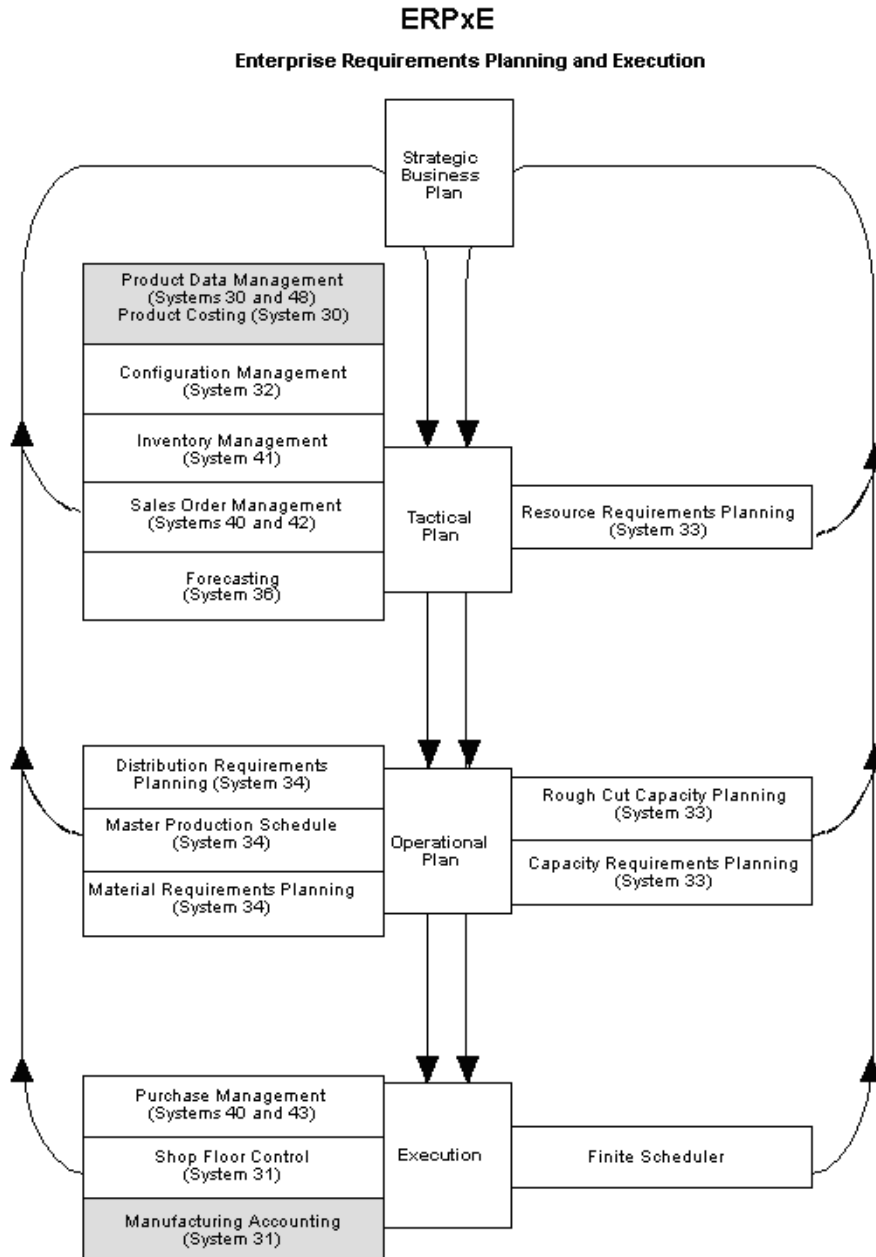
Product Costing and Manufacturing Accounting are two of the systems that are included in the Enterprise Requirements Planning and Execution (ERPx) system.

ERPx is a closed-loop manufacturing system that formalizes company and operations planning, and the implementation of those plans. Use the ERPx system to coordinate

your inventory and labor resources to deliver products according to a managed schedule.

The following diagram shows the systems that make up ERPx and the sequence in which they are implemented.

Figure 1-1 ERPxE (Enterprise Requirements Planning and Execution)



1.2 Features

The Product Costing and Manufacturing Accounting systems provide flexibility to accommodate your manufacturing environment. Some of the benefits and features of these systems are:

Feature	Description
User defined cost add-ons	Define and maintain an unlimited number of cost components for tracking specific costs, such as freight, taxes, duty, and electricity.
User defined cost rollup methods	Define an unlimited number of cost methods to use in cost simulation analyses.
User defined cost factors and rates	Allocate cost factors and rates to a specific item. Used with cost add-ons to calculate additional costs.
Cost variances	Print a complete set of reports to compare old costs with new costs before implementing any changes.
Bill of material rollup	Calculate the total material cost by retrieving the bill of material for all items and adding the total cost of the components.
Cost simulation	Run a complete simulation of costs before any live data is updated as the frozen standard.
Multi-facility costing	Maintain cost information at the branch/plant level to allow for cost variances at different locations for identical manufactured items.
Variations	Review four kinds of variances: <ul style="list-style-type: none"> ■ Engineering ■ Planned ■ Actual (material and labor) ■ Other
Journal entries for variances	Create detailed or summary journal entries for work order variances.
Journal entries for work order transactions	Create detailed or summary journal entries for work in process or completions.
Automatic accounting instruction (AAI) tables	Charge dollar amounts to specified accounts.
Reports	Print reports listing detailed costs and variances for work orders.

1.3 Product Costing and Manufacturing Accounting Integration

Product costing plays a significant role in the manufacturing environment. Before you can implement your Manufacturing Accounting system, you must decide between using either standard cost or actual cost methodology by branch plant. If you choose standard cost methodology, set up frozen standard cost component values for the products you produce. If you choose actual cost methodology, then set up raw material and work center costs, not cost components. To calculate standard cost component values, you must consider the following aspects in the manufacturing environment:

- Cost reporting (What does the item really cost to produce?)
- Variance reporting (actual versus standard costs)
- Product and job costing (detailed information)
 - Materials
 - Labor

- Overhead

After you calculate your cost component values in a simulated mode and are satisfied with the results, you must establish frozen standard cost components. If you choose standard cost methodology, then all shop floor transactions use these frozen standards for calculations, which, in turn, create transactions in your general ledger and are the basis of your inventory valuation. If you choose actual cost methodology, then shop floor transaction costs are calculated as they occur. For actual cost, simulation and frozen cost components are not established.

Certain functions within the Product Costing and Manufacturing Accounting systems overlap with other Manufacturing and Distribution systems, such as Product Data Management and Shop Floor Control. Therefore, it is important that you have a basic understanding of the following tables and how they interact with other systems:

- Item Master (F4101)
- Manufacturing Data (F4102)
- Branch/Plant Master (F4102)
- Bill of Material Master (F3002)
- Routing Master (F3003)
- Work Center Master (F30006)

The following illustration demonstrates the interaction of tables within the Product Costing and Manufacturing Accounting systems.

Figure 1-2 Standard Cost Process Flow

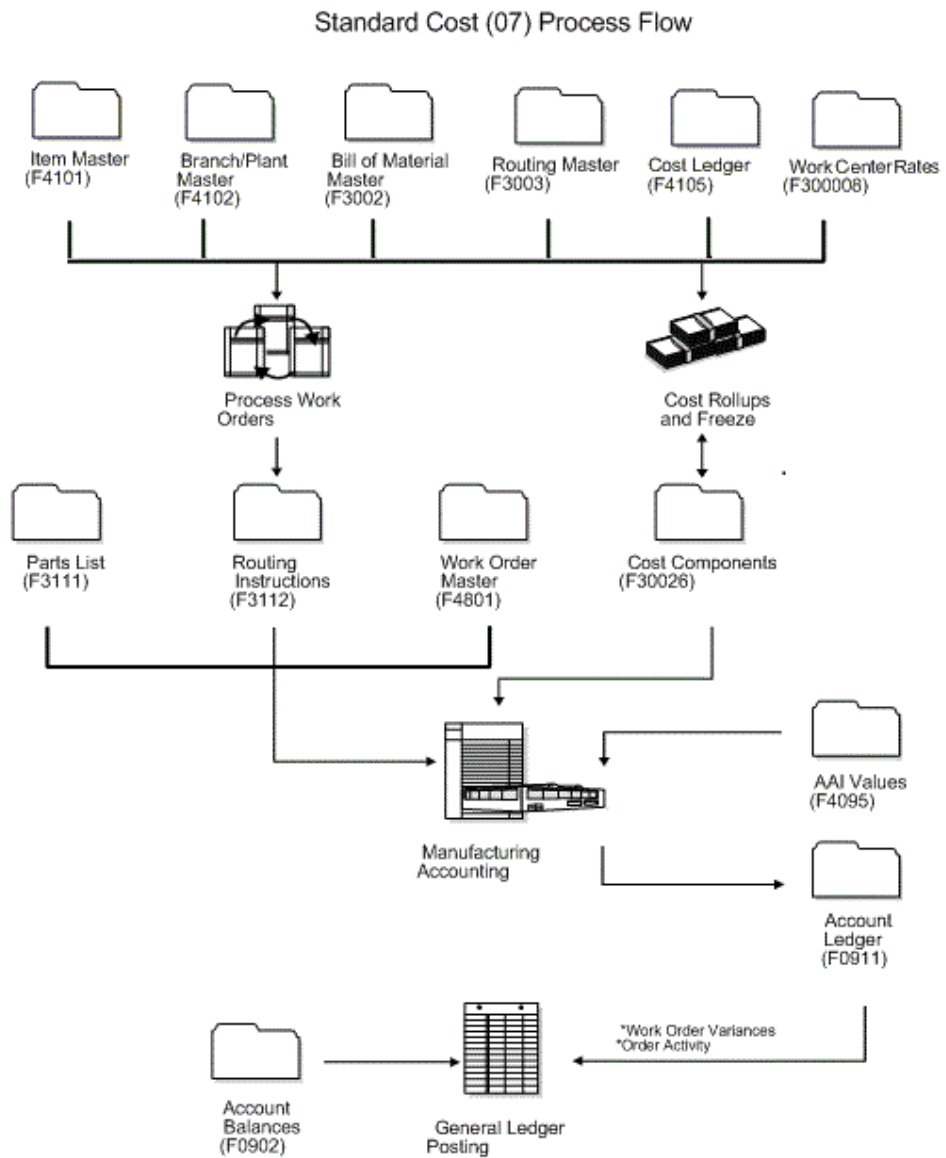
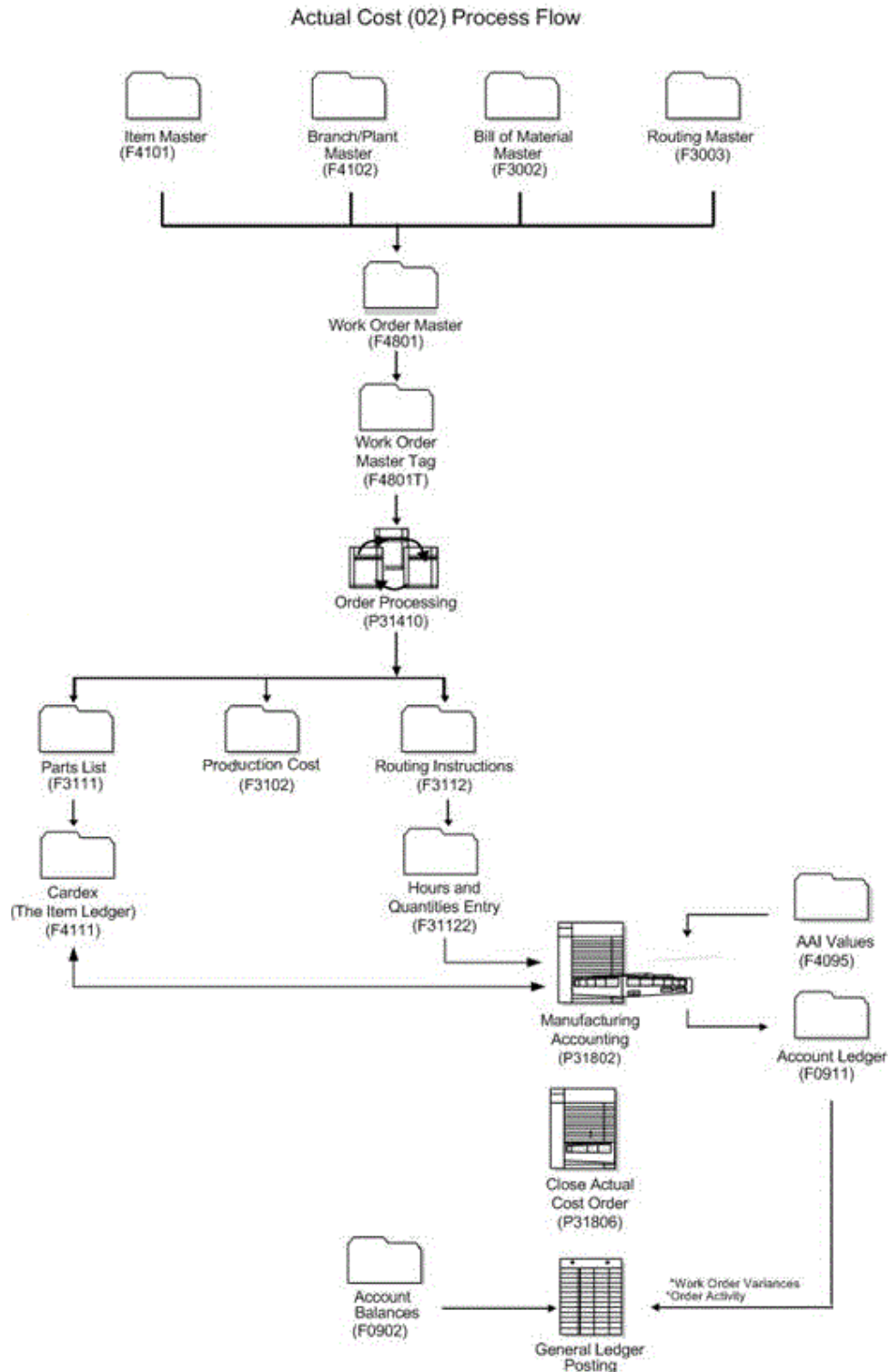


Figure 1-3 Actual Cost Process Flow



1.4 Achieving Effective Cost Management

Most of the major areas or departments within your manufacturing company contribute information to your product costing activities and, therefore, affect the overall accuracy of your manufacturing budget.

The following table lists examples of departments within your company and the aspects of the Product Costing system which are affected by that department.

Department	Description
Design Engineering	The Design Engineering group is responsible for ensuring that: <ul style="list-style-type: none"> ■ The bill of material is complete ■ The make-buy information is accurate ■ The engineering change orders (ECOs) have been taken into account
Sales	The Sales force contributes important information regarding target markets, as well as the latest trends in manufacturing. For effective cost management, it is important that your sales force provide timely and reasonable forecasts.
Manufacturing Engineering	The Manufacturing Engineering group is responsible for identifying: <ul style="list-style-type: none"> ■ Correct processes ■ Changes to existing processes ■ Manufacturing overhead ■ Accurate information about work centers
Purchasing	The Purchasing department must provide: <ul style="list-style-type: none"> ■ Accurate supplier costs ■ Accurate transportation costs
Manufacturing Operations	Manufacturing Operations provides vital information to the product costing effort. For example: <ul style="list-style-type: none"> ■ Input transaction data in a timely and accurate manner ■ Identify any discrepancies in the bills of material and routings
Accounting	The Accounting staff must: <ul style="list-style-type: none"> ■ Ensure that all items have costs ■ Identify general and administrative overhead ■ Produce timely variance reports (standard costs versus current costs)

Several other issues should be considered as you define and manage your manufacturing costs, including:

- When (and how often) do you change standard costs?
- How do you limit access to those authorized to change standard costs?
- When are new items reflected in the standard?
- How do you account for labor rates and work center overhead?

You might also encounter these typical circumstances as you define costs and perform rollups:

- Not all standards are available before your initial cost rollup.

- You have used incorrect units of measure.
- Your company inaccurately reports labor hours and costs.
- New products are not updated in a timely manner.
- Standards are updated too frequently.
- Items have been added to or deleted from the bill of material since the last cost update.
- Steps in the routing master have been changed since the last cost update.

1.5 Tables

Table	Description
Cost Components (F30026)	Contains all cost methods and cost components for each method for all items. The exception to this is the weighted average cost method 02, which is used for the actual cost methodology.
Cost Ledger (F4105)	Contains the costs of all items.
Manufacturing Constants (F3009)	Stores variables that indicate whether Standard or Actual costs are used and whether to include efficiency and overhead in the cost.
Manufacturing Data (F4102)	Stores the accounting cost quantity, which the system uses to determine the allocation of fixed setup and material costs for an item.
Routing Master (F3003)	Stores routing information, including operation sequence, work center, run time, setup time, and machine time. The system uses this information to calculate labor, machine, and overhead costs.
Bill of Material Master (F3002)	Contains information at the business unit level about bills of material, such as quantities of components. The system uses this information to calculate material costs.
Work Center Rates (F30008)	Contains all rates for each work center, such as overhead and labor.
Work Center Master (F30006)	Contains detailed data about all defined work centers, including efficiency.
Item Ledger (F4111)	Contains IB transactions that indicate changes in inventory value.
Account Master (F0901)	Contains account definitions, including numbers and descriptions.
Account Ledger (F0911)	Contains detailed transactions in the general ledger.
Account Balances (F0902)	Contains net postings for each period and prior year balances (net and cumulative). There is one record per account, ledger type, subledger, fiscal year, and transaction currency table.

Table	Description
User Defined Codes (F0005)	<p>Contains user defined codes and their descriptions. User defined codes in product costing and manufacturing accounting include:</p> <ul style="list-style-type: none"> ■ Cost methods (40/CM) ■ Cost components (30/CA) ■ Cost buckets (30/CB) ■ Operation buckets (30/CO)
Standard Rate and Factor Codes (F00191)	<p>Contains user-defined rate and factor codes that the system uses in conjunction with the Rate Code and Rate Amount fields to calculate extra costs (electricity, taxes, tooling changes, and so on).</p> <p>To access this table from the P30026 Manufacturing Cost Components screen, select the F21 function key.</p>
Batch Control (F0011)	Contains system-generated batch header information, including the batch number, batch status, and batch entry date.
Distribution/Manufacturing Automatic Accounting Instruction (DMAAI) Values (F4095)	Contains account numbers that are used to create journal entries and charge dollars to those accounts.
Work Order Master (F4801)	Contains all work order header information. The data from this table appears on shop floor paperwork. The system updates this table when completion transactions occur against a work order.
Work Order Master Tag (F4801T)	Contains cost ledger information. The data from this table indicates whether standard or actual cost accounting is executed.
Parts List (F3111)	Contains the parts list that is attached to a work order. It contains one record for each part. The system creates this table interactively or when you run the Order Processing program.
Work Order Time Transactions (F31122)	Contains detail records of reported routing transaction activity.
Routing Instructions (F3112)	Contains the routing steps that are attached to a work order. It contains one record for each operation sequence number and work center. The system creates this table interactively or when you run the Order Processing program.
Production Cost File (F3102)	Contains the amounts used for work order variance calculations. The Order Processing program or interactive attachment initially updates this table followed by the Journal Entries for Manufacturing Accounting program.
Item Master (F4101)	Stores basic information about each defined inventory item, such as item numbers, descriptions, category codes, and units of measure.

Table	Description
Branch/Plant Master (F4102)	Defines and maintains warehouse or plant level information, such as branch level category codes.
Address Book (F0101)	Contains a variety of information, including information about customers, suppliers, employees, and prospects.
Business Unit Master (F0006)	Identifies information about business units, such as company names and category codes assigned to the business unit.
Cost Ledger (F4105)	Contains total costs for each cost method and level for all inventory items. Defines the Sales/Inventory and Purchasing cost method for each item.

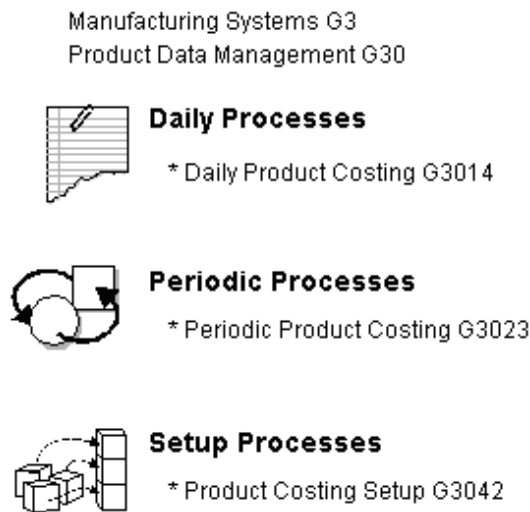
1.6 Menu Overview

JD Edwards World systems are menu-driven. Menus are organized according to function and frequency of use.

1.6.1 Product Costing

Access Product Costing functions from the Product Data Management menus.

Figure 1–4 Product Costing Functions



1.6.1.1 Fast Path Commands

The following table illustrates the fast path commands you can use to move among the Product Costing menus.

Command	Menu	Title
DPC	G3014	Daily Product Costing
PPC	G3023	Periodic Product Costing
SPC	G3042	Product Costing Setup

1.6.2 Manufacturing Accounting

Access Manufacturing Accounting functions from the Shop Floor Control menus.

Figure 1–5 Manufacturing Accounting Functions

Manufacturing Systems G3
Shop Floor Control G31



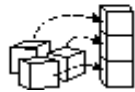
Daily Processes

* Daily Manufacturing Accounting G3116



Periodic Processes

* Periodic Manufacturing Accounting G3123



Setup Processes

* Shop Floor Control Setup G3141

1.6.2.1 Fast Path Commands

The following table illustrates the fast path commands you can use to move among the Manufacturing Accounting menus.

Command	Menu	Title
MA	G3116	Daily Manufacturing Accounting
PMA	G3123	Periodic Manufacturing Accounting
SSFC	G3141	Shop Floor Control Setup

Part I

Product Costing

This part contains these chapters:

- Chapter 2, "Overview to Product Costing,"
- Chapter 3, "Set Up Product Costing,"
- Chapter 4, "Review Bills of Material and Routings,"
- Chapter 5, "Create Simulated Costs,"
- Chapter 6, "Work with Simulated Cost Components,"
- Chapter 7, "Review Costing Information,"
- Chapter 8, "Update Frozen Costs,"
- Chapter 9, "Work with Additional Costing Features."

Overview to Product Costing

This chapter contains these topics:

- [Section 2.1, "Objectives,"](#)
- [Section 2.2, "About Product Costing,"](#)
- [Section 2.3, "About Flex Accounting,"](#)
- [Section 2.4, "What Are Standard Costs?"](#)
- [Section 2.5, "Why Maintain Standard Costs?"](#)
- [Section 2.6, "Simulated Versus Frozen Costs,"](#)
- [Section 2.7, "What are Actual Costs?"](#)
- [Section 2.8, "What are Parent Items?"](#)
- [Section 2.9, "What Are Cost Components?"](#)
- [Section 2.10, "What is WIP Revaluation?"](#)

2.1 Objectives

- To understand product costing and its overall importance in a manufacturing environment
- To learn about standard, actual and user defined cost methods
- To learn about the differences between frozen and simulated costs

2.2 About Product Costing

Working with the Product Costing system consists of the following tasks:

- Reviewing bills of material and routings
- Setting up product costing
- Creating simulated costs
- Working with simulated cost components
- Updating frozen costs
- Reviewing costing information
- Working with additional costing features

2.3 About Flex Accounting

Flex Accounting allows you to flex the Business Unit and Subsidiary sections of the general ledger account structure when performing a frozen cost update, WIP revaluation, manufacturing accounting, variance accounting, orderless completion accounting and actual cost close accounting.

2.4 What Are Standard Costs?

You can work with a variety of cost methods in the Product Costing system. However, the Manufacturing Accounting system uses the standard cost method (07), unless the actual cost method (02) is indicated on the manufactured item. This method represents the expected (target) cost of an item for a specific period of time, such as quarterly, semi-annually, or annually.

With standard costing, you estimate costs for each end item assembly and manufactured part on a level-by-level basis before production begins. These cost estimates are based on both past performance and analysis of future conditions.

Standard cost:

Net Added Cost	Total Cost
Includes:	Includes:
<ul style="list-style-type: none"> ■ Labor ■ Overhead ■ Outside Operations ■ Extra Costs ■ Materials (for purchased parts only) 	<ul style="list-style-type: none"> ■ The item's net added cost ■ Total cost of lower-level components

The net added cost represents the cost to manufacture an item at this level in the bill of material. For manufactured parts, the cost includes labor, setup labor, machine, outside operations, and cost extras, but not materials (lower-level items). For purchased parts, the net added cost includes the cost of materials. The total cost of an item represents the sum of the net added cost and all lower-level component item costs.

2.5 Why Maintain Standard Costs?

By defining and monitoring product costs, you can measure your company's current manufacturing performance against your standard (target) costs. Product costing provides information about the dollar investments tied to your materials, work in process, and physical inventory. You can use this information to determine pricing on end items and service components.

2.6 Simulated Versus Frozen Costs

Simulated costs represent a "what if" analysis for a given cost method. You might want to calculate simulated costs because of changing factors in the business environment, such as labor rates or the cost of raw materials. You can simulate cost change scenarios (rollups) as many times as needed before you finalize the changes.

You finalize the changes by performing a frozen update for the given cost method. A frozen update copies your simulated values and makes them your frozen costs, and

updates the Cost Ledger table (F4105) with the total cost. These costs remain in effect until you update them with another frozen update.

You can simulate costs using the standard cost method 07 or any other cost method (other than 02). The Manufacturing Accounting system uses the standard cost method to establish costs for shop floor transactions, unless actual costing is indicated on the Cost Ledger record for manufactured item.

Caution: Do not simulate and freeze the 02 cost method.

2.7 What are Actual Costs?

Using an actual cost method to determine ROI, the same data of total parts, machine hours, and labor hours are used. However, instead of using standard costs of labor and machine, actual costs are used.

An important difference from standard costing is how actual costing considers hourly cost of machines and labor. Standard cost is calculated from an hourly cost of machines and labor multiplied by the cycle time of the part. With this calculation, cost absorption is for only that portion of the time when the machine is in use. There is no cost penalty for underutilizing machines and labor. More important, there is no cost benefit for using machines and labor more efficiently. All cost is attached to value-added hours and new machines must show significant reduction in amount of hours to be justified.

In contrast, the actual cost method shows the actual cost of current operations and includes incentive to operate new machines more efficiently. The actual cost of labor is the wage and benefits cost per hour rather than using standard labor hours.

2.8 What are Parent Items?

A parent item is a product sold as a completed item or repair part. A parent item is subject to a customer order or sales forecast.

The parent item setup tells the system whether this item will be treated as a standard cost or actual cost item.

- Sales/Inventory Cost Method - The item cost revisions (P4105) sales/inventory cost method is the key field. An actual cost item must have a sales/inventory cost method 02 average cost. The cost method is captured in the LEDG field of the work order tag file (F4801T) when a work order is created and determines whether the work order is treated as standard or actual cost.
- Inventory Cost Level - The inventory cost level 3 (cost by lot/location) is recommended for an actual cost item as well as cost level 2. Inventory cost level 3 is not supported for standard cost items.
- Extra Costs (F30026) - Extra costs can be set up for an actual cost item in the P30026 by inputting them on the parent item number. For an actual cost item, input is allowed directly into the frozen cost fields, without running P30835 as required by standard cost.

2.9 What Are Cost Components?

Cost components represent the individual costs that make up an item, for example, material, labor, overhead, and extras. Material, labor, and overhead costs are

automatically calculated by the system. Extra costs, such as electricity, are manually controlled.

Use cost components to maintain complete item costing information. You can use them to set up simulated cost scenarios to help plan for future cost changes, and to display the simulated or frozen net added and total component costs for any item.

In addition, you can:

- Allow for extra add-on costs related to the manufacturing of a product, such as electricity, insurance, water, or warehouse space.
- Review specific calculations used to determine cost amounts for any item.
- Maintain costs by branch for multi-facility processing. Multi-facility processing allows for different costing values based on regional or business variations.
- Set up costing rates that represent cost elements.
- Define additional cost factors to include in product costing calculations.

Components for an actual cost parent do not have to match the cost method of the parent. Actual cost will use the cost per the sales/inventory cost method for the component from P4105. The P30026 frozen cost is not used by actual cost.

Component cost will be calculated at the time of material issue, so the Cost Ledger (P4105) must be populated before the issues program is run. The user should also keep in mind that the P4105 cost for all subassemblies must be populated before they are issued to the parent as well.

See Also:

- [Section 3.6, "Setting Up Cost Components,"](#)
- [Section 6.4, "Assigning Values to User Defined Cost Components."](#)

2.10 What is WIP Revaluation?

WIP Revaluation Program - Work in Process Revaluation (P30837) is an optional functionality that can be activated in the Frozen Cost Update program (P30835) to revalue the Work-In-Process (WIP) production costs for all open work orders in the Production Cost file (F3102). The revaluation is based on the latest standard frozen cost updated for a manufacturing item. The main purpose of the WIP Revaluation is to minimize the generation of work order variances.

Some industries and businesses must be able to revalue their work in process inventory whenever material or labor costs change. Not doing this revaluation causes a mixture of old and new costs within a work order, which they may want to avoid. This cost change might be caused by a business decision to update standard costs to reflect changed or specific circumstances and to maintain realistic work order manufacturing costing.

The report displays any differences between the original WIP values and the new WIP values. You can set a processing option to create WIP Revaluation journal entries in the Account Ledger table (F0911) for differences between the old and the new WIP values. You can let the system supply the default work order number in the Subledger field in the F0911 file.

The WIP Revaluation program does not revalue on-hand inventory and cannot be performed for manufacturing closed work orders. Closed work orders are characterized by a value of 3 for the Variance Flag field (PPFG) in the Work Order Header file (F4801).

If you use standard costing, performing an automated WIP revaluation ensures that work in process inventory always reflects any updates to component and labor costs, and eliminates artificial variances that are generated by cost changes in the middle of a work order life-cycle. It also makes manual journal entries for WIP revaluation necessary.

Before and without WIP Revaluation, when cost changes are done in the manufacturing standard costing module, users are allowed to preview the calculated new standard costs before executing a final cost update that replaces the old standard cost.

When the Frozen Cost Update is run (P30835), several files are updated and journal entries are created to reflect the new balance on hand. Because cost changes are done to items processed in a work order, if costs are changed during the life cycle of these work orders, Other Variances are generated for such orders in Production Cost file (F3102); therefore, journal entries accounting for those variances will be created when running Work Order Variances program (P31804).

Because WIP Revaluation is run from the Frozen Cost Update Program, the Proof or Final modes of this program command the execution of the calculations and data update. Proof mode is strongly recommended, as the system performs all calculations and displays the results on the report, thus facilitating for users a preview of the changes before these become final. In Final mode, the program updates the Production Cost file (F3102) and creates final journal entries for changes in work-in-process costs in the Account Ledger file (F0911).

See Also:

- [Section 8.1.2, "Journal Entries for WIP Revaluation"](#) for more information on WIP Revaluation.

Set Up Product Costing

This chapter contains these topics:

- Section 3.1, "Setting Up Product Costing,"
- Section 3.2, "Setting Up Accounting Cost Quantities,"
- Section 3.3, "Setting Up Item Cost Levels,"
- Section 3.4, "Converting Item Cost Levels,"
- Section 3.5, "Setting Up Item Costs,"
- Section 3.6, "Setting Up Cost Components,"
- Section 3.7, "Setting Up Manufacturing Constants for Product Costing,"
- Section 3.8, "Setting Up Simulated Rates for a Work Center,"
- Section 3.9, "Setting Up Actual Rates for a Work Center and Overhead."

3.1 Setting Up Product Costing

You can customize the Product Costing system to meet your specific manufacturing environment needs. The system uses the values you define to determine your product costs.

3.2 Setting Up Accounting Cost Quantities

Navigation

From Inventory Management (G41), choose Item Revisions

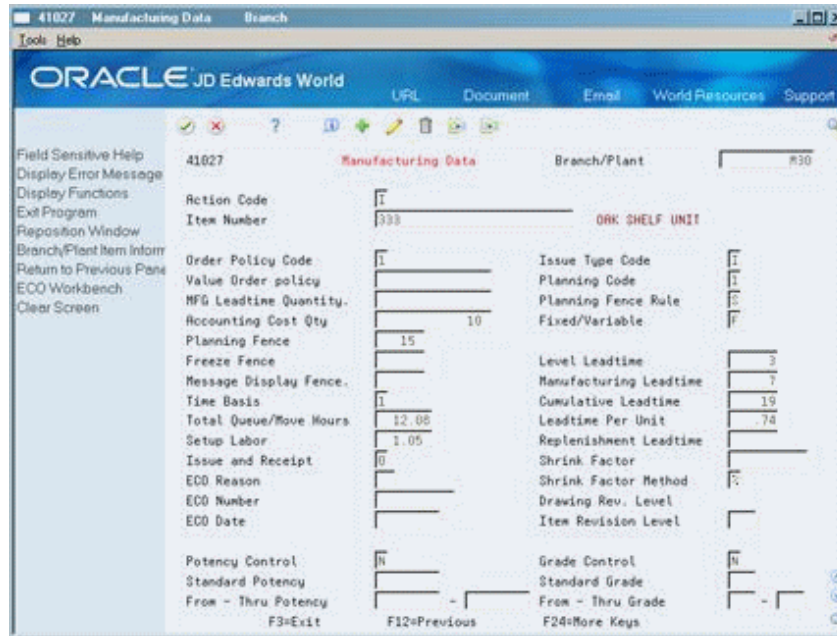
From Item Revisions (G4112), choose Manufacturing Data under the Item Branch/Plant Information heading

The system uses accounting cost quantities to determine the allocation of fixed setup costs for an item. Accounting cost quantities represent the most commonly manufactured quantity of a work order for this item. During cost rollup, the system divides the fixed setup costs by the accounting cost quantity you specify to determine a unit setup and fixed cost.

To set up an accounting cost quantity (ACQ)

On Manufacturing Data

Figure 3–1 Manufacturing Data screen



Complete or review the following field:

- Accounting Cost Quantity

Field	Explanation
Accounting Cost Qty (ACQ)	An amount that the system uses in the cost rollup program to determine the allocation of setup costs. The system totals the setup costs and divides the sum by this quantity to determine a unit setup cost. The default is 1. The system also uses ACQ as a divisor for fixed material costs in order to derive a per unit value. Since ACQ is a divisor, do NOT set ACQ to zero (0).

3.3 Setting Up Item Cost Levels

Navigation

From Inventory Management (G41), choose Inventory Master/Transactions

From Inventory Master/Transactions (G4111), choose Item Master Information

The cost level you assign to an item indicates the level at which the system maintains costs. You determine whether the system maintains one overall cost for an item (cost level 1) or a different cost for the item in each branch/plant (cost level 2). The system can also maintain a different cost for each location and lot within a branch/plant (cost level 3). However, in the Product Costing system, costs at cost level 3 are informational only. All items used in a manufacturing environment should have cost levels of 1 or 2, except configured items, which must be cost level 3. Cost level 3 is recommended for actual cost items (cost method 02).

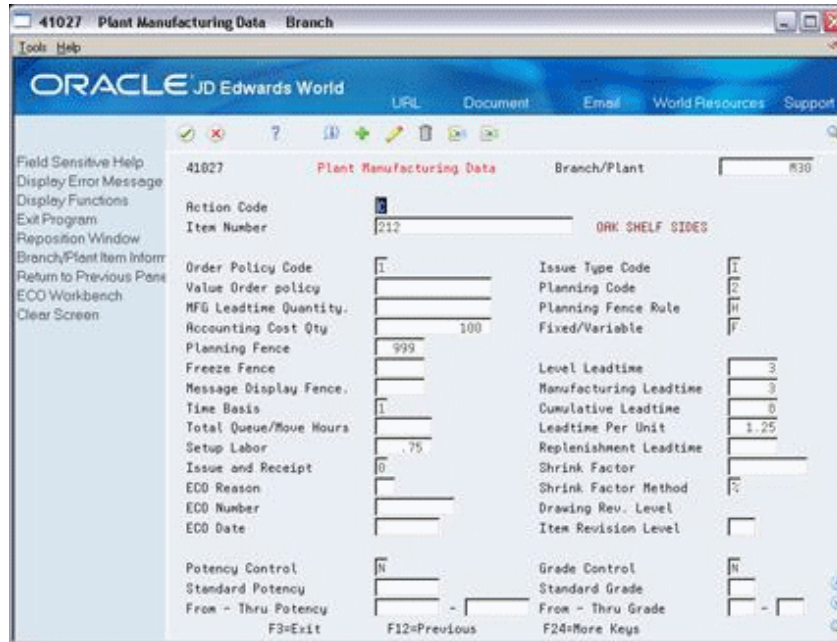
To set up an item

On Item Master Information

Figure 3-2 Item Master Information screen

1. Complete or review the following fields:
 - Stocking Type
 - G/L Class Code
 - Line Type
 - Unit of Measure
 - Inventory Cost Level
2. Choose Manufacturing Values (F10) to display the Plant Manufacturing Data screen.

Figure 3-3 Plant Manufacturing Data screen



3. Complete or review the following field:

- Accounting Cost Qty

Field	Explanation
Stocking Type	Stocking types are found in UDC Table 41/I. Product costing looks at the corresponding second description for "M" or "P" in this table. If the second description is "P", the cost in F4105 will be used. If the second description is "M", there must be a Bill of Material (BOM) and or Routing from which costs can be calculated.
G/L Class Code	G/L posting codes are setup in the UDC Table 41/9. G/L Class code is one of the keys to the product costing and manufacturing accounting AAI tables. It is the only key that is item specific and can be used to point journal entries associated with the item to specific object accounts in the general ledger. The G/L Class code will default to the Item Branch/Plant (BP) record, and from the Item BP record to the primary location in the item location record. This primary location in the item location record is where manufacturing costing and accounting will look to find the G/L Class code for the item.
Line Type	Line Types control how lines in a transaction are processed and the systems with which the transaction interfaces - G/L, AP, AR, Inventory Management, etc.

Field	Explanation
Unit of Measure	<p>The primary unit of measure MUST be the smallest unit of measure.</p> <p>Units of Measure to consider for manufacturing are:</p> <ul style="list-style-type: none"> ■ Production ■ Component <p>Set up all units of measure to convert to the primary unit of measure (UOM) in the Unit of Measure Conversion table. The Simulated Rollup will write item costs to the F30026 in the primary unit of measure. The F4105 costs are also maintained in the primary UOM.</p>
Inventory Cost Level	<p>A code that indicates whether the system maintains one overall inventory cost for the item, a different cost for each branch/plant, or a different cost for each location and lot within a branch/plant. The system maintains inventory costs in the Cost Ledger table (F4105).</p> <p>Valid codes are:</p> <p>1 – Item level (The item will have only one F4105 record. Every Branch/Plant and every location will use the same F4105 record.)</p> <p>2 – Item/Branch level (For every item Branch/Plant, there is a unique or separate item cost. If there are two branch/plants, then the F4105 will have two F4105 records.)</p> <p>3 – Item/Branch/Location level (Not recognized by the Manufacturing system, except for configured and actual cost items.)</p>
Accounting Cost Qty	<p>Product costing uses this quantity as the standard quantity produced. Since the ACQ is considered the standard quantity, the Simulated Rollup will look for a batch BOM and a batch routing that match the ACQ to use for the cost simulation.</p> <p>If there is no matching BOM, or routing, the 0 (zero) quantity BOM and routing will be used to calculate standard cost. A zero or blank on the BOM or routing represents the amount of components needed to make one item.</p> <p>Setup costs (B2) are divided by the ACQ to determine a per unit setup cost.</p> <p>This value cannot be zero or blank.</p>

3.4 Converting Item Cost Levels

Navigation

From Inventory Management (G41), enter 27

From Inventory Advanced & Technical Ops (G4131), choose Item Cost Level Conversion

After you have entered cost information, you might need to change an item's cost level. You must use the Item Cost Level Conversion program to change an item's cost level after cost information has been entered.

If you run this program, it deletes all existing cost records for the item in the Cost Ledger table (F4105) and creates new cost records that correspond to the level. The system uses the sales/inventory cost method for the item to create the new cost records.

The program does not change the cost valuation of items and does not create journal entries. For example, if you change an item's cost level from branch/plant and location to branch/plant, all existing cost records for the branch/plant and location must contain the same sales/inventory cost method and cost.

You can run Item Cost Level Conversion in proof mode or final mode. When you run the program in proof mode, the system generates the Item Cost Level Conversion report, showing errors that need correction. You should always run the program in proof mode first and correct any discrepancies.

When you run the program in final mode, the system updates the following tables:

- Inventory Cost Level field in the Item Master (F4101)
- Cost Ledger (F4105)

Caution: Changing your item cost levels changes data throughout the system. You should restrict access to this program.

3.4.1 Before You Begin

- Back up your data tables completely before you begin the data conversion process. If the results of the conversion are unsatisfactory, you can use the backup tables to restore data tables to their original format.
- Verify that no users are accessing the Item Master or Cost Ledger tables when this program is running in final mode.

Figure 3–4 Item Cost Level Conversion report

41815		JD Edwards World				Page	2
		Item Cost Level Conversion				Date	4/10/17
*** Proof Mode ***							
Item Number	Branch	Location	Lot	L CM	Unit Cost	Remark	
E001	30			3 01	6.6378	Basing comparison on this record	
E001	30	DAMAGED		3 01	6.4100	Cost not the same	
F002	10			3 01	30.7500	Basing comparison on this record	
F002	10	1 B 1		3 02	30.3750	Costing Method/Cost not the same	
F002	20			3 01	31.4333	Basing comparison on this record	
F002	20	1 B 1		3 02	30.8417	Costing Method/Cost not the same	
F002	30			3 01	30.1049	Basing comparison on this record	
F002	30	1 B 1		3 02	30.2500	Costing Method/Cost not the same	
F002	40			3 02	30.5610	Basing comparison on this record	
F002	40	D		3 02	30.2500	Cost not the same	
F002	40	R		3 02	30.2500	Cost not the same	
F002	40	1 B 1		3 02	30.2500	Cost not the same	
F002	40	3 E		3 02	30.2500	Cost not the same	
TS002	10			3 01	43.1200	Basing comparison on this record	
TS002	10	1 C 1		3 02	43.5000	Costing Method/Cost not the same	
TS002	20			3 01	43.1200	Basing comparison on this record	
TS002	20	1 C 1		3 02	43.5000	Costing Method/Cost not the same	
TS002	30			3 01	66.0000	Basing comparison on this record	
TS002	30	1 C 1		3 01	43.9573	Cost not the same	
TS002	40			3 02	43.7336	Basing comparison on this record	
TS002	40	R		3 02	43.5000	Cost not the same	
TS002	40	1 C 1		3 02	43.5000	Cost not the same	
TS002	40	2 C 1		3 02	43.5000	Cost not the same	
V001	10	1 A 1	9310140004	3 01	16.1500	Basing comparison on this record	
V001	10	1 A 2	9310140002	3 01	16.0000	Cost not the same	
V001	20			3 01	16.1500	Basing comparison on this record	
V001	20	1 A 1	9310140005	3 01	16.0000	Cost not the same	
V001	20	1 A 2	9310140003	3 01	16.0000	Cost not the same	
V001	30			3 01	16.1500	Basing comparison on this record	
V001	30	1 A 1	00000006	3 01	16.0000	Cost not the same	
V001	30	1 A 2	00000005	3 01	16.0000	Cost not the same	
V001	40			3 02	16.1455	Basing comparison on this record	
V001	40	D	00000007	3 02	16.0000	Cost not the same	
V001	40	R	00000007	3 02	16.0000	Cost not the same	
V001	40	1 A 1	00000007	3 02	16.0000	Cost not the same	
V001	40	1 A 2	00000007	3 02	16.0000	Cost not the same	
V001	40	3 F	00000007	3 02	16.0000	Cost not the same	

See Also:

- [Section 3.3, "Setting Up Item Cost Levels."](#)

3.4.2 Processing Options

See [Section 23.1, "Item Cost Level Conversion \(P41815\)."](#)

3.5 Setting Up Item Costs

You must provide cost information for each of your items for the system to track inventory costs. You specify the cost method that the system uses to determine an item's cost for:

- Sales/inventory transactions
- Purchase orders

For example, in a distribution environment, you can have the system use the weighted average cost method to determine the inventory cost for an item and use the last-in cost method to determine the item's unit cost for purchase orders. In a manufacturing environment, you must choose between Standard (07) and Weighted Average (02) cost methods to determine the inventory cost.

For each cost method you assign to an item, you must also specify a cost. For example, to use the last-in cost method for an item, you must enter an initial cost for that cost method. The system updates the last-in cost based on the cost of the item as of the last receipt date.

For purchased items and outside operations, the main inputs to product costing are entered on Cost Revisions or Cost Components.

To set up item costs, complete the following tasks:

- Set up new cost methods
- Assign cost methods

See Also:

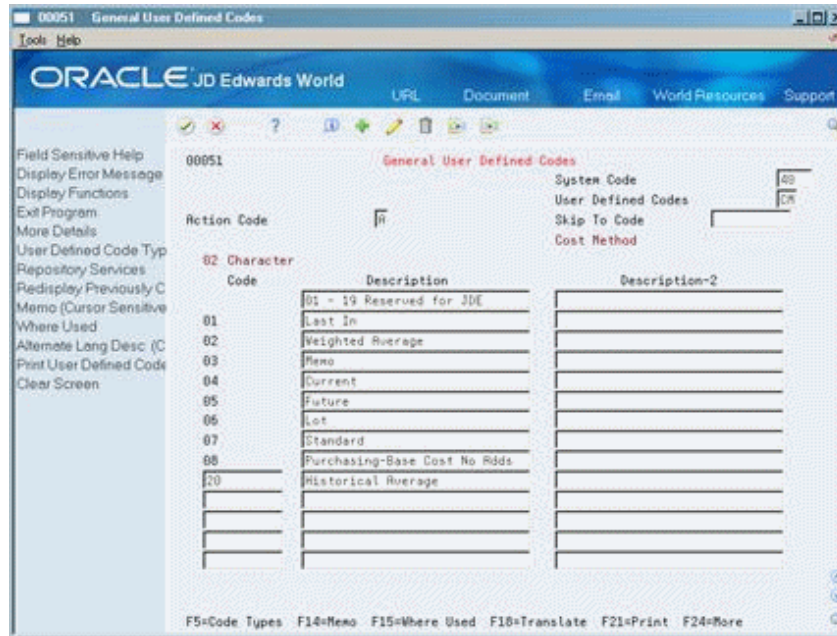
- [Section 9.4, "Updating Product Costs."](#)

To set up a new cost method

You can set up user-defined codes (40/CM) to define your own cost methods. For example, you might want to establish a cost method to maintain a history of last year's costs. Codes 01 through 08 are hard-coded and cannot be altered. Codes 09 through 19 are reserved for JD Edwards World use.

On General User Defined Codes

Figure 3-5 General User Defined Codes screen



Complete the following fields:

- Code
- Description
- Description-2

Field	Explanation
Code	This column contains a list of valid codes for a specific user-defined code list. The number of characters that a code can contain appears in the column title.
Description	A user-defined name or remark.
Description-2	Additional text that further describes or clarifies a field in JD Edwards World systems.

3.5.1 What You Should Know About

Topic	Description
Code	This code defines cost methods that are used in the cost rollup and assigned to items. This is a two-character, alphanumeric field.
Description 1	Identifies the cost method.
Description 2	Identifies additional information about the cost method.

To assign cost methods

Navigation

From Product Data Management (G30), choose Daily Product Costing

From Daily Product Costing (G3014), choose Enter/Change Item Costs

Each time you add an item on this form, the program displays all cost methods set up in the user defined code table 40/CM. This includes eight predefined methods that the program provides and any additional methods you create. You specify which methods to apply to an item by assigning a unit cost for each method.

On Cost Revisions

Figure 3–6 Cost Revisions screen

1. Complete the following field for each applicable cost method:
 - Unit Cost
2. Enter the appropriate cost methods in the following fields:
 - Sales/Inventory
 - Purchasing

Field	Explanation
Unit Cost	Depending on the cost method, this data can come from various sources, for example, purchasing or the cost update. <i>Form-specific information</i> The cost for one unit of this item, based on the corresponding cost method in the primary unit of measure.
Sales/Inventory	A code (table 40/CM) that indicates the cost method that the system uses to calculate the cost of goods sold value for the item. Cost methods 01-08 are hard-coded. <i>Form-specific information</i> If you maintain costs at the item level, the system retrieves the default value for this field from the data dictionary. If you maintain costs at the item and branch/plant level, the system retrieves the default value from Branch/Plant Constants.

Field	Explanation
Purchasing	<p>A code (table 40/CM) that indicates the cost method that the system uses to determine the cost of the item for purchase orders. Cost methods 01-08 are hard-coded.</p> <p><i>Form-specific information</i></p> <p>If you maintain costs at the item level, the system retrieves the default value for this field from the data dictionary. If you maintain costs at the item and branch/plant level, the system retrieves the default value from Branch/Plant Constants.</p>

3.5.2 What You Should Know About

Topic	Description
Assigning a cost method without specifying a cost	If you assign a cost method for sales/inventory or purchasing that is not set up with a cost amount, a warning message appears. If you do not enter a cost amount for the cost method, the system assigns a zero cost.
Changing unit costs	You can change the dollar amount for any cost method at any time. If you change the amount for the cost method you use to track costs of goods sold, the system applies the new amount to your on-hand quantity of the item. It also creates journal entries to account for the difference between the old and the new amounts.
Updating unit costs	<p>Certain programs update the dollar amount for cost methods 01-08. For example:</p> <ul style="list-style-type: none"> ■ Last-in method - The system interactively updates this unit cost based on the last cost of the item at the time of a purchase order receipt or after an inventory adjustment. ■ Weighted average method - The system calculates and updates this amount by adding transaction quantities, adding transaction costs, and dividing the total cost by the total quantity. ■ Purchase method - Same as last-in method, but without landed costs. ■ Standard, current, and future methods - Updated by the Frozen Update program. <p>If you include additional costing methods, you must update them manually.</p>
Removing a cost method	You can remove a cost method for an item if it is no longer applicable. If you try to remove your sales/inventory or purchasing cost method, the system displays a warning message. The system does not delete the cost method, but updates it to a zero cost.

3.5.3 Processing Options

See [Section 23.2, "Item Cost Revisions \(P4105\)."](#)

3.6 Setting Up Cost Components

Use cost components to identify and track each element or type of cost for an item. Cost components that begin with A, B, and C are hard-coded by JD Edwards World and cannot be changed. You can define an unlimited number of additional cost components to account for extra costs for an item, such as electricity or research and

development. These user defined cost components can begin with any letter except A, B, or C. JD Edwards World recommends, but does not require, that you use cost component D for outside operations. You can assign separate cost components by categories that are applicable to your business.

Note: Although it might appear that you can set up extra cost components that begin with A, B, or C, the Simulate Cost Rollup program actually deletes these cost components. JD Edwards World recommends that you define extra costs with an "X" for easy identification.

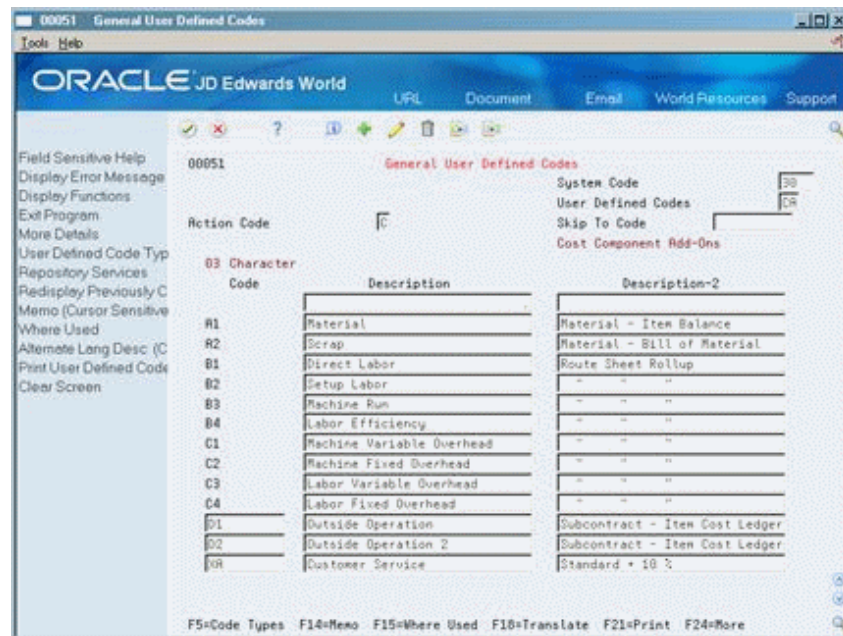
See Also:

- [Section 6.4, "Assigning Values to User Defined Cost Components,"](#)
- [Appendix A, "Calculations in Cost Rollup."](#)

To set up a cost component

On General User Defined Codes

Figure 3-7 General User Defined Codes (Cost Component) screen



Complete the following fields:

- Code
- Description
- Description-2

Field	Explanation
Code	<p>This column contains a list of valid codes for a specific user defined code list. The number of characters that a code can contain appears in the column title.</p> <p>Use this code to identify all of the possible cost components that can be used in the cost rollup for an item.</p>
Description	A user defined name or remark that identifies what each cost component represents.
Description-2	Additional text that further describes or clarifies a field in JD Edwards World systems.

3.7 Setting Up Manufacturing Constants for Product Costing

Navigation

From Product Data Management (G30), enter 29

From Product Data Management Setup (G3041), choose Manufacturing Constants

You must establish information that is unique to your branch/plant. Use manufacturing constants to set options that determine:

- Overhead types to be included in the cost rollup and how to calculate overhead costs
- Whether to consider work center efficiency when calculating direct labor and overhead
- Whether overheads are calculated as percents or rates

Note: If you select to modify cost by Work Center Efficiency, the system creates B4 in the Simulation Rollup. Also, overheads calculated as percents or rates determine how the Overhead cost components (C1 - C4) are expressed in the Work Center Rate Revisions.

See Also:

- Setting Up Manufacturing Constants in the *JD Edwards World Product Data Management - Discrete Guide*.

To set up manufacturing constants for Product Costing

On Manufacturing Constants

Figure 3–8 Manufacturing Constants screen

Complete the following fields:

- Overheads as Percents or Rates
- Modify cost by Work Center Efficiency
- Include Work Center Efficiency in Overhead
- Include Variable Labor Overhead in Cost
- Calculate Variable on Direct Labor
- Calculate Variable on Setup Labor
- Include Fixed Labor Overhead in Cost
- Calculate Fixed on Direct Labor
- Calculate Fixed on Setup Labor
- Include Variable Machine Overhead in Cost
- Include Fixed Machine Overhead in Cost

Field	Explanation
Overheads as Percents or Rates	<p>Determines how values for overhead fields (cost components C1 through C4) in the Work Center Rate Revisions table (F30061) are expressed. Valid codes are:</p> <p>R – Express overhead values as rates (currency values). For example, enter five dollars as 5.00.</p> <p>P – Express overhead values as percents. Enter percents as whole numbers. For example, enter five percent as 5.00.</p>

Field	Explanation
Modify cost by Work Center Eff	Controls whether the cost rollup creates cost component B4 (for labor efficiency) based on the direct labor value (cost component B1) and the Work Center Efficiency percent from the Work Center Revisions table (F3006). Valid values are: Y – Yes. Create cost component B4. N – No. Do not create cost component B4.
Include Efficiency in Overhead	If you specified that you want to modify costs by work center efficiency, this field determines whether the cost rollup includes work center efficiency when calculating overhead values. Valid values are: Y – Include work center efficiency. N – Exclude work center efficiency.
Include Var. Labor Overhead in cost	Controls whether the cost rollup creates cost component C3 (for variable labor overhead) in the Cost Components table (F30026). Valid values are: Y – Yes. Create cost component C3. N – No. Do not create cost component C3.
Calculate Var. on Direct Labor	Determines whether the cost rollup includes direct labor expenses (cost component B1) in the total used to calculate variable labor overhead (cost component C3). Valid values are: Y – Include direct labor expenses. N – Exclude direct labor expenses.
Calculate Var. on Setup Labor	Determines whether the cost rollup includes setup labor expenses (cost component B2) in the total used to calculate variable setup overhead (cost component C3). Valid values are: Y – Include setup labor expenses. N – Exclude setup labor expenses.
Include Fixed Labor Overhead in cost	Controls whether the cost rollup creates cost component C4 (for fixed labor overhead) in the Cost Components table (F30026). Valid values are: Y – Yes. Create cost component C4. N – No. Do not create cost component C4.
Calculate Fixed on Direct Labor	Determines whether the cost rollup includes direct labor expenses (cost component B1) in the total used to calculate fixed labor overhead (cost component C4). Valid values are: Y – Include direct labor expenses. N – Exclude direct labor expenses.
Calculate Fixed on Setup Labor	Determines whether the cost rollup includes setup labor expenses (cost component B2) in the total used to calculate fixed setup overhead (cost component C4). Valid values are: Y – Include setup labor expenses. N – Exclude setup labor expenses.
Include Var. Machine Overhead in cost	Controls whether the cost rollup creates cost component C1 (for variable machine overhead) in the Cost Components table (F30026). Valid values are: Y – Yes. Create cost component C1. N – No. Do not create cost component C1.

Field	Explanation
Include Fixed Machine Overhead in cost	Controls whether the cost rollup creates cost component C2 (for fixed machine overhead) in the Cost Components table (F30026). Valid values are: Y – Yes. Create cost component C2. N – No. Do not create cost component C2.

3.7.1 What You Should Know About

Topic	Description
Overhead Rates	Overhead rates are established in the Manufacturing Constants by selecting the type costs that will be included.
Labor Rates	Actual cost allows two choices for the source of labor rates in the Manufacturing Constants. Standard cost will not read this option, but will continue to use frozen 07 work center rates as the source for labor rates. <ul style="list-style-type: none"> ▪ Source Type 1 - Frozen work center rates for cost method 02 from the Work Center Rates Table (F30008). Navigation: G3014 number 4. ▪ Source Type 2 - Employee labor rates from the Employee Labor Rates Table (F00191). Navigation: G3141 number 11.
Machine Rates	The source for machine rates for an actual cost item can come from one of two choices in Manufacturing Constants. Standard cost will not read this option, but will continue to use frozen 07 work center rates as the source for labor rates. <ul style="list-style-type: none"> ▪ Source Type 1: Frozen work center rates for cost method 02 from the Work Center Rates Table (F30008). Navigation: G3014 number 4. ▪ Source Type 2: Equipment Rental Rate table (F1301). Navigation: G1343 number 4 <p>The default for both labor and machine rates is the work center rate.</p>

3.8 Setting Up Simulated Rates for a Work Center

Navigation

From Manufacturing Systems (G3), choose Product Costing

From Product Costing (G3014), choose Enter/Change Work Center Rate

You can effectively manage changes to a work center by tracking rates for labor and machine costs. You can update simulated rates for machine and labor hours by work center and cost method. The system uses these values in other manufacturing calculations, such as costed routings, labor rate variance reports, and direct labor efficiency reports.

Each operation sequence in the routing is associated with a work center. The number of people who work in a work center (crew size), although not directly used in product costing, will default into the routing.

Standard Costing uses frozen (07) work center rates. Standard work center rates are set up for each work center by keying in simulated costs for all categories, including labor, overhead and machine.

Work Center rates are then frozen when you run the Frozen Update (P30835) with the processing option for Update Work Center Rates turned on.

Work Centers can have rates for both the standard and actual cost methods by entering simulated costs in the Work Center rates, and selecting the cost method in the Frozen Update processing options.

Work Center rates can be frozen independent of an item by using the Freeze Work Center Rates program (P30860).

As an alternative to entering rates manually, you can use the Work Center Rate Revisions Z File program (P30061Z) to import an extensive amount of data into your system. See [Appendix H, "Import Mass Data into Manufacturing Systems"](#) for more information.

3.8.1 Before You Begin

- You must set up your work centers on Enter/Change Work Centers before you can assign rates. See *Entering Work Centers in the JD Edwards World Product Data Management - Discrete Guide* for complete information on setting up work centers.

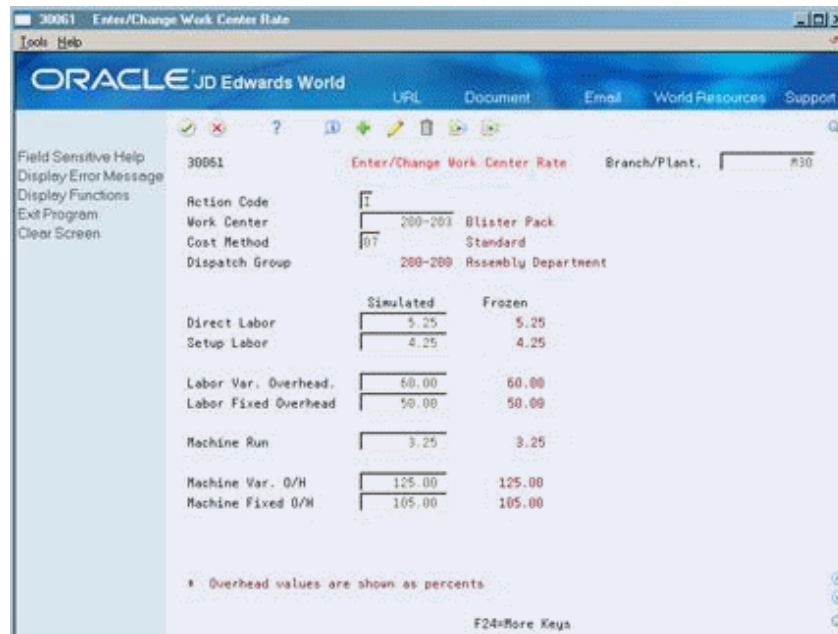
See Also:

- *Entering Costing and Accounting Information in the JD Edwards World Product Data Management - Discrete Guide.*

To set up simulated rates for a work center

On Enter/Change Work Center Rate

Figure 3–9 Enter/Change Work Center Rate screen



Complete the following fields:

- Work Center
- Cost Method
- Simulated Direct Labor

- Simulated Setup Labor
- Simulated Labor Variable Overhead
- Simulated Labor Fixed Overhead
- Simulated Machine Run
- Simulated Machine Variable Overhead
- Simulated Machine Fixed Overhead

Field	Explanation
Work Center	A number that identifies a branch, plant, work center, or business unit.
Cost Method	A user defined code (system 40, type CM) that identifies a cost method. Cost methods 01 through 08 are hard-coded. <i>Form-specific information</i> This code was entered on Branch/Plant Constants.
Direct Labor	This rate, in cost per hour, is the rate used to calculate the current labor cost as of the last simulation and update.
Setup Labor	This rate, in cost per hour, is the rate used to calculate the current setup labor cost as of the last simulation and update.
Labor Var. Overhead	This rate, in cost per hour or percent of labor, is the rate used to calculate the current variable labor overhead cost as of the last simulation and update.
Labor Fixed Overhead	This rate, in cost per hour or percent of labor, is the rate used to calculate the current fixed labor overhead cost as of the last simulation and update.
Machine Run	This rate, in cost per hour, is the rate used to calculate the current machine cost as of the last simulation and update.
Machine Var. O/H	This rate, in cost per hour or percent of labor, is the rate used to calculate the current variable machine overhead cost as of the last simulation and update.
Machine Fixed O/H	This rate, in cost per hour or percent of labor, is the rate used to calculate the current fixed machine overhead cost as of the last simulation and update.

3.9 Setting Up Actual Rates for a Work Center and Overhead

The frozen work center rates (F30008) are maintained for actual cost by entering 02 cost method rates for the work center in the F30008 and running the frozen update P30835 or the Freeze Work Center Rates program (P30860). Standard cost 07 and actual cost 02 rates can all be maintained for the same work center. The system uses the rates for the cost method of the parent item to calculate work order cost.

The actual cost Work Order Overhead Rates (F30006) are calculated using the rates or percentages found in the Work Center Rates Table (F30006) for the cost method of the parent item.

Review Bills of Material and Routings

This chapter contains these topics:

- [Section 4.1, "Review Bills of Material and Routings,"](#)
- [Section 4.2, "Reviewing Bills of Material and Routings for Product Costing,"](#)
- [Section 4.3, "Reviewing Product Costing in Bills of Material,"](#)
- [Section 4.4, "Reviewing Routings for Product Costing."](#)

4.1 Review Bills of Material and Routings

The bill of material and routing for an item contain important information that affects costing.

4.2 Reviewing Bills of Material and Routings for Product Costing

To ensure that bill and routing information is set up correctly:

- Review product costing in bills of material
- Review routings for product costing

4.3 Reviewing Product Costing in Bills of Material

Navigation

From **Product Data Management (G30)**, choose **Daily PDM Discrete**

From **Daily PDM Discrete (G3011)**, choose **Enter/Change Bill**

Review your bills of material to understand the bills' input to your material product costs. Only items with a bill type of M are costed.

Field	Explanation
Bill Type	Simulated Rollup will only cost an "M" type BOM. Alternate bills (BOMs) can be used but "M" is recognized as the standard.

Field	Explanation
Batch Quantity	<p>Batch quantities are used when there are physical constraints on a manufacturing process or items must be produced in certain quantities. The batch BOM that matches the ACQ is recognized as the standard batch size and is used by the Simulated Rollup program.</p> <p>Note: If the Batch quantity does not match the ACQ, the Simulated Rollup program will look for a 0 (zero) quantity BOM.</p> <p>Material costs (A1) will not roll if the batch quantity does not match the ACQ and if there is not a 0 (zero) batch quantity BOM.</p>
Feature Cost and Feature Planned %	These fields are in the bill specifically for Kit and Planning Bills, but they affect all types of bills. Costing will be adjusted by the feature cost % if it is anything other than 100%.
Fixed/Variable	If a fixed quantity is used on the BOM, Simulated Rollup will divide the fixed amount by the ACQ to calculate the per unit cost. Fixed quantity components are not extended by the work order quantity.
Component Branch/Plant	The system defaults the Branch Plant entered on the Bill of Material header into this field. You can also change this field manually.
Percent of Scrap	This percent is a whole number entered directly onto the BOM. The amount of material required is increased by the scrap percent and therefore increases cost if there is a value. This additional material will generate an Scrap (A2) cost in the Simulated Rollup. Scrap costs require component scrap to be recorded via Component Scrap P31116.
Operation Scrap %	Operational scrap % is populated by the yield % in the routing. The material required is increased by this percentage. Operation scrap % does not generate A2 cost.
Additional Information about the BOM	Dates for all components should be "in effect" to be included in the cost rollup.

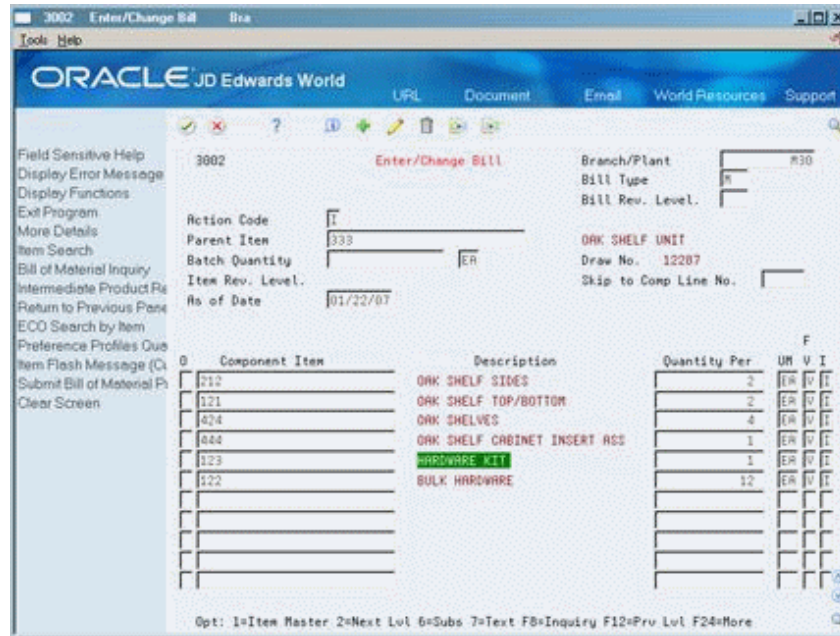
See Also:

- Work with Bills of Material in the *JD Edwards World Product Data Management - Discrete Guide*.

To review bill of material information

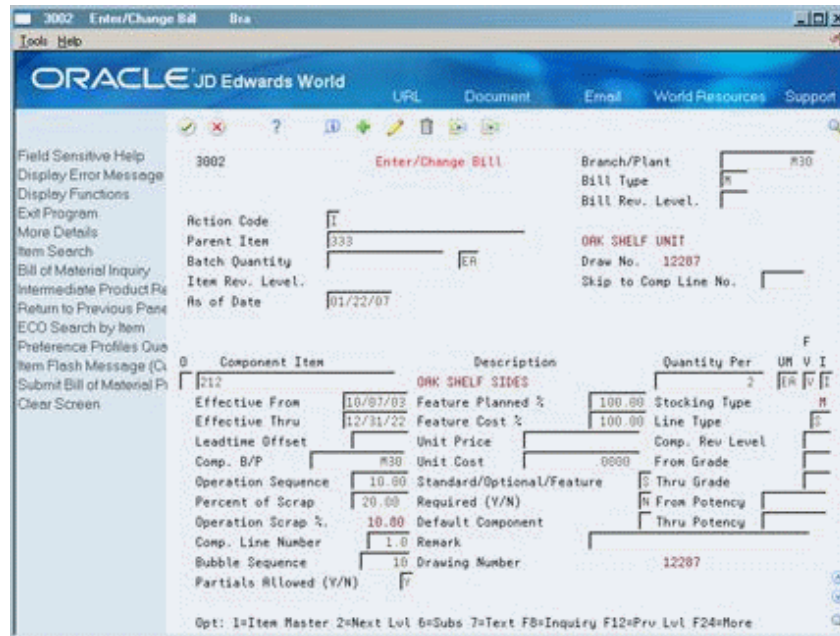
On Enter/Change Bill

Figure 4-1 Enter/Change Bill screen



1. Review the following fields:
 - Component Item
 - Quantity Per
 - Unit Of Measure
 - Fixed or Variable
2. Access the detail area (F4).

Figure 4-2 Enter/Change Bill (Detail) screen



3. Review the following fields:

- Feature Cost Percent
- Percent of Scrap
- Operation Scrap Percent

Field	Explanation
Parent Item	<p>A number that the system assigns to an item. It can be in short, long, or 3rd item number format.</p> <p><i>Form-specific information</i></p> <p>The Parent Item field contains the item number of the item to be manufactured.</p>
Component Item	<p>This field contains the item number of the item(s) that are required to make the parent item.</p>
Batch Quantity	<p>A frequently manufactured quantity of the parent item in the production unit of measure.</p>
Quantity Per	<p>The number of units to which the system applies the transaction.</p> <p><i>Form-specific information</i></p> <p>A number that indicates how many components you use to manufacture the parent item. A quantity of zero is valid. The default value is 1.</p>
UM (Unit of Measure)	<p>The default value coming from the component unit of measure in the Item Master table.</p>
F V	<p>Indicates if the quantity per assembly for an item on the bill of material varies according to the quantity of the parent item produced or is fixed regardless of the parent quantity. This value also determines if the component quantity is a percent of the parent quantity. Valid values are:</p> <p>F – Fixed Quantity</p> <p>V – Variable Quantity (Default)</p> <p>% – Quantities are expressed as a percentage and must total 100%</p> <p>For fixed quantity components, the Work Order and MRP systems do not extend the component's quantity per assembly value by the order quantity. ACQ is used as a divisor by the cost rollup for fixed components.</p> <p>For Process Manufacturing, the system stores percent components. Therefore, the system treats zero batch sizes like variable quantity components, and treats batch sizes greater than zero like fixed quantity components.</p>
Feature Cost %	<p>A percentage used by the Simulate Cost Rollup program to calculate the cost of a feature or option item as a percentage of the total cost of the parent.</p> <p>Enter the percentage as a whole number: 5% as 5.0.</p>

Field	Explanation
Percent of Scrap	<p>Scrap is the percentage of unusable component material created during the manufacture of a particular parent item. During DRP/MPS/MRP generation, the system increases gross requirements for the component item to compensate for the loss.</p> <p>Note: Shrink is the expected loss of parent items (and hence, components) due to the manufacturing process. Shrink and scrap are compounded to figure the total loss in the manufacture of a particular item. Accurate shrink and scrap factors can help to produce more accurate planning calculations.</p> <p>Enter percents as whole numbers: 5% as 5.0.</p> <p><i>Form-specific information</i></p> <p>The Shop Floor Control and Material Requirements Planning systems inflate component requirements by this percentage. This scrap percent is unique to the relationship of one parent and one component.</p>
Operation Scrap %	<p>The system uses this value to increase or decrease the amount of materials to account for loss within the operation. The system updates this value on Enter/Change Bill of Material when you run the Planned Yield Update program. The system calculates this value by compounding the yield percentages from the last operation to the first operation. Use a processing option in Enter/Change Routing to enable the system to calculate the component scrap percent.</p>

4.4 Reviewing Routings for Product Costing

Navigation

From Product Data Management (G30), choose **Daily PDM Discrete**

From Daily PDM Discrete (G3011), choose **Enter/Change Routing**

Review your routings to understand their input to your labor and overhead costs.

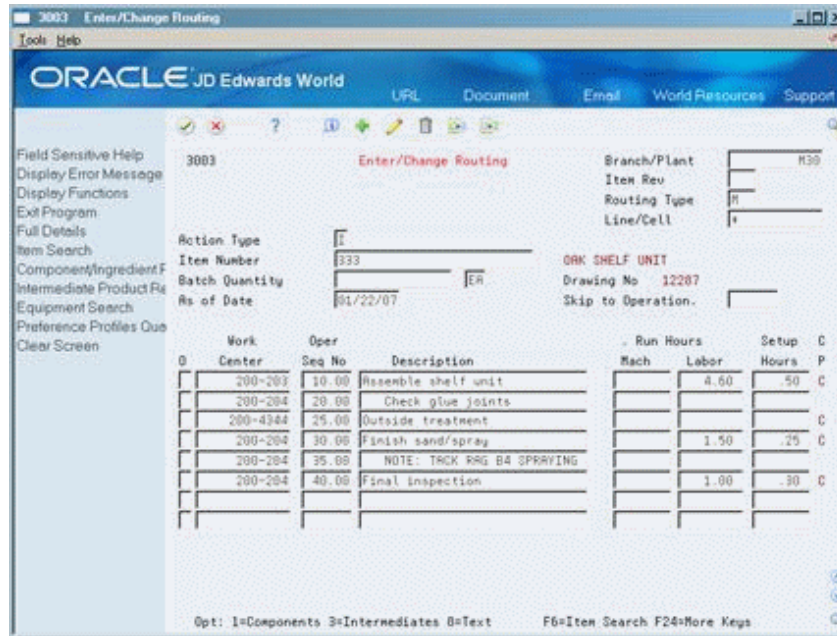
See Also:

- Work with Routings in the *JD Edwards World Product Data Management - Discrete Guide*.

To review routing information

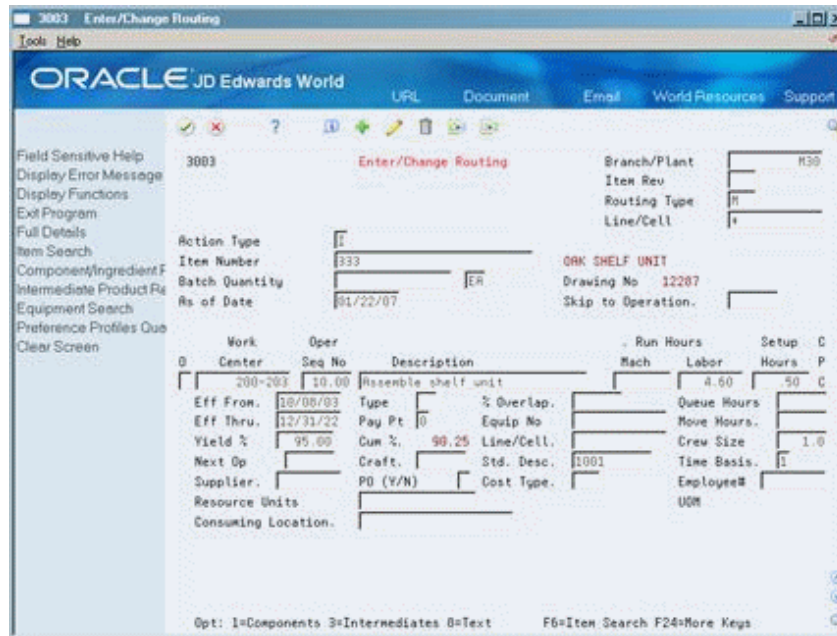
On Enter/Change Routing

Figure 4-3 Enter/Change Routing screen



1. Review the following fields:
 - Work Center
 - Machine Run Hours
 - Labor Run Hours
 - Setup Hours
2. Access the detail area (F4).

Figure 4-4 Enter/Change Routing (Detail) screen



3. Review the following fields:

- Time Basis
- Crew Size
- Cost Type
- Type
- Yield Percent
- Cumulative Percent

Field	Explanation
Work Center	<p>A number that identifies a branch, plant, work center, or business unit.</p> <p><i>Form-specific information</i></p> <p>For Equipment users, this is the craft/resource responsible for completing the maintenance activity.</p>
Routing Type	<p>Simulated Rollup will only cost an "M" type routing.</p>
Mach	<p>This is the standard machine hours expected to be incurred in the normal production of this item.</p>
Labor	<p>This is the standard hours of labor expected in the normal production of this item.</p> <p>The run labor hours in the Routing Master table (F3003) are the total hours it takes the specified crew size to complete the operation. The hours are multiplied by the crew size during shop floor release and product costing.</p> <p><i>Form-specific information</i></p> <p>For Equipment/Plant:</p> <p>This is the estimated number of hours needed to complete a maintenance activity.</p>
Setup Hours	<p>The standard setup hours you expect to incur in the normal completion of this item.</p>
Time Basis	<p>A user-defined code (system 30, type TB) that identifies the time basis or run rate per hour for machine or labor hours entered for any routing step. You can set rates per unit, per 10, per 1000, and so on.</p> <p>The system uses the values in the Description-2 field on the User Defined Codes screen for costing and scheduling calculations. The description is what the code represents, but is not used in calculations.</p> <p>Simulated Rollup uses the Time Basis Code as a divisor to calculate per unit cost:</p> <p>{10 routing hours / 100 (TB Description 2) = .1 (hours per unit)}</p> <p>The Time Basis code will default from the Item Branch Plant into each operation sequence of the routing.</p>

Field	Explanation
Crew Size	<p>The number of people who work in the specified work center or routing operation.</p> <p>The system automatically populates this field with the information from the Work Center. The system multiplies the Run Labor value in the Routing Master table (F3003) by crew size during cost simulation to generate total labor dollars used in the cost simulation.</p> <p><i>Form-specific information</i></p> <p>For Shop Floor Control:</p> <p>If the Prime Load Code is L or B, the system uses the total labor hours for backscheduling. If the Prime Load Code is C or M, the system uses the total machine hours for backscheduling without modification by crew size.</p> <p>The Crew Size field on the Routing Revisions screen displays the value set on the Enter/Change Work Centers screen (P3006). You can override the value by changing this field on the Routing Revisions form. However, the Enter/Change Work Centers form will not reflect this change.</p>
Cost Type	<p>This code designates each element of cost for an item. An example of the coding structure is:</p> <ul style="list-style-type: none"> A1 – Purchased raw material B1 – Direct labor routing sheet rollup B2 – Setup labor routing sheet rollup C1 – Variable burden routing sheet rollup C2 – Fixed burden routing sheet rollup Dx – Usually used for outside processing routing sheet rollup Xx – Usually used for extra add-ons, such as electricity, water, and so forth <p>The optional add-on computations usually operate with the type "X" extra add-ons. This cost structure allows you to use an unlimited number of cost components to calculate alternative cost rollups. The system then associates these cost components with one of six user-defined summary cost buckets.</p>
Type	<p>A user-defined code (system 30, type OT) that indicates the type of operation. For example:</p> <ul style="list-style-type: none"> A – Alternate routing TT – Travel time IT – Idle time T – Text (Enter text at Description) <p><i>Form-specific information</i></p> <p>For Product Costing:</p> <p>Only operations with a "blank" type operation code are costed.</p>
Yield %	<p>Represents the planned output yield percent for a step. The Planned Yield Update program uses this value to update the Cumulative Percent in the bill of material and the Operation Scrap Percent in the routing. Materials Requirements Planning uses the step scrap percent and the existing component scrap percent to plan component demand.</p>

Field	Explanation
Cum %	Represents the cumulative planned output yield percent for a step. The system uses this value to adjust the operation step scrap percent for the components at that operation step. This enables the MRP system to use the operation step scrap percent along with the existing component scrap percent to plan component demand.

Create Simulated Costs

This chapter contains these topics:

- [Section 5.1, "Creating Simulated Costs,"](#)
- [Section 5.2, "Creating the Costing Exceptions Report,"](#)
- [Section 5.3, "Creating a Simulated Rollup."](#)

5.1 Creating Simulated Costs

You can use the Product Costing system to calculate costs on a "what if" basis. You can view the effect of any changes you want to incorporate without altering the frozen standard costs. In addition, you can simulate cost change scenarios (rollups) as many times as needed before you finalize the changes during the frozen update process.

For example, you can use simulated rollups to:

- Simulate an increase in material costs
- Forecast the impact of changes to labor rates
- Develop strategies for pricing, contractual, or labor negotiation

The simulated rollup uses information from the following tables to generate costs:

Table	Description
Manufacturing Constants (F3009)	Values from Manufacturing Constants indicate whether overhead should be included in cost component calculations.
Work Center Rates (F30008)	The rollup program uses dollar amounts and/or percentages for the calculation of labor, machine, and overhead costs.
Routing Master (F3003)	Hours required for each operation and crew size values are from the Routing Master table.
Bill of Material Master (F3002)	The Bill of Material table provides information on the material required at each level of the bill.
Cost Ledger (F4105)	The Cost Ledger table provides costs for purchased items and outside operations.

The Simulate Cost Rollup program sums the costs of all the components in each level of the parent item's bill of material to arrive at a total cost for the parent item.

This section contains the following:

- Creating the Costing Exceptions Report
- Creating a Simulated Rollup

5.2 Creating the Costing Exceptions Report

Navigation

From Daily Product Costing (G3014), choose Periodic Product Costing

From Periodic Product Costing (G3023), choose Costing Exceptions

Before you roll up simulated costs, run the Costing Exceptions program. The program generates a report, which lists any problems associated with an item. An example of a problem is an item without a routing. You should correct the problems and run the Costing Exceptions program again before creating a simulated rollup.

Figure 5–1 Item Cost Level Conversion report

41815		JD Edwards World				Page	2
		Item Cost Level Conversion				Date	4/10/17
		*** Proof Mode ***					
Item Number	Branch	Location	Lot	L CM	Unit Cost	Remark	
E001	30			3 01	6.6378	Basing comparison on this record	
E001	30	DAMAGED		3 01	6.4100	Cost not the same	
P002	10			3 01	30.7500	Basing comparison on this record	
P002	10	1 B 1		3 02	30.3750	Costing Method/Cost not the same	
P002	20			3 01	31.4333	Basing comparison on this record	
P002	20	1 B 1		3 02	30.8417	Costing Method/Cost not the same	
P002	30			3 01	30.1049	Basing comparison on this record	
P002	30	1 B 1		3 02	30.2500	Costing Method/Cost not the same	
P002	40			3 02	30.5610	Basing comparison on this record	
P002	40	D		3 02	30.2500	Cost not the same	
P002	40	R		3 02	30.2500	Cost not the same	
P002	40	1 B 1		3 02	30.2500	Cost not the same	
P002	40	3 E		3 02	30.2500	Cost not the same	
TS002	10			3 01	43.1200	Basing comparison on this record	
TS002	10	1 C 1		3 02	43.5000	Costing Method/Cost not the same	
TS002	20			3 01	43.1200	Basing comparison on this record	
TS002	20	1 C 1		3 02	43.5000	Costing Method/Cost not the same	
TS002	30			3 01	66.0000	Basing comparison on this record	
TS002	30	1 C 1		3 01	43.9573	Cost not the same	
TS002	40			3 02	43.7336	Basing comparison on this record	
TS002	40	R		3 02	43.5000	Cost not the same	
TS002	40	1 C 1		3 02	43.5000	Cost not the same	
TS002	40	2 C 1		3 02	43.5000	Cost not the same	
V001	10			3 01	16.1500	Basing comparison on this record	
V001	10	1 A 1	9310140004	3 01	16.0000	Cost not the same	
V001	10	1 A 2	9310140002	3 01	16.0000	Cost not the same	
V001	20			3 01	16.1500	Basing comparison on this record	
V001	20	1 A 1	9310140005	3 01	16.0000	Cost not the same	
V001	20	1 A 2	9310140003	3 01	16.0000	Cost not the same	
V001	30			3 01	16.1500	Basing comparison on this record	
V001	30	1 A 1	00000006	3 01	16.0000	Cost not the same	
V001	30	1 A 2	00000005	3 01	16.0000	Cost not the same	
V001	40			3 02	16.1455	Basing comparison on this record	
V001	40	D	00000007	3 02	16.0000	Cost not the same	
V001	40	R	00000007	3 02	16.0000	Cost not the same	
V001	40	1 A 1	00000007	3 02	16.0000	Cost not the same	
V001	40	1 A 2	00000007	3 02	16.0000	Cost not the same	
V001	40	3 F	00000007	3 02	16.0000	Cost not the same	

5.2.1 What You Should Know About Processing Options

Indicate in the processing options the minimum level of error messages that you want to include in the report. You can define severity levels and error messages specific to your company by using Vocabulary Overrides. For example, if labor hours are zero is important to your company, then you might want to assign this error message a higher severity level.

The text of the message can also be changed, but it must maintain the same meaning as the original message defined by JD Edwards World. For example, you could change the message text labor hours are zero to no labor hours.

The following are examples of errors on which the system searches and the severity level to which they are assigned by JD Edwards World.

Severity	Message Text
50	Manufactured item with no BOM

Severity	Message Text
40	No rates for work center
30	No labor rate (for selected cost method)
30	No cost component - material cost
30	No setup labor rate (for selected cost method)
30	No variable overhead rate (for selected cost method)
30	No fixed overhead rate (for selected cost method)
30	No work center machine run rate (for selected cost method)
30	No work center machine variable overhead rate (for selected cost method)
30	No work center machine fixed overhead rate (for selected cost method)
20	Purchased part with BOM
20	BOM component with no quantity per
10	Setup hours are zero
10	Machine hours are zero
10	Labor hours are zero
10	Extras at standard and not at current or future or vice versa
10	No accounting lot size set up (future)

5.2.2 Processing Options

See [Section 23.3, "Costing Exceptions \(P30801\)."](#)

See Also:

- Working with Vocabulary Overrides in the *JD Edwards World Technical Foundation Guide* for more information on changing the text of error messages.

5.3 Creating a Simulated Rollup

Navigation

From **Manufacturing Systems (G3)**, choose **Product Costing**

From **Daily Product Costing (G3014)**, choose **Simulate Standard Rollup**

Use the Simulate Cost Rollup program to calculate costs on a "what if" basis. Then, you can view the results on Enter/Change Cost Components.

You can perform simulated rollups and frozen updates for any cost method, excluding 02. Manufacturing Accounting system uses frozen standard costs (cost method 07), if standard costing is indicated in Manufacturing Constants.

To choose a bill of material and routing, the program searches first for a bill whose batch quantity matches the accounting cost quantity. If no such bill is found, the program uses the zero batch bill. The zero batch bill has a blank batch quantity on the header section. The component item(s) quantity per is the amount required to build one unit of the parent item.

5.3.1 Cumulative Yield

Cumulative yield, defined on the routing, affects labor and machine hours in the rollup calculations. There must be enough hours expended to obtain 100% yield at the last operation. In a series of routings, the hours must be adjusted accordingly. The following example illustrates how costing of hours is affected by cumulative yield:

$$\text{Cumulative Yield} = 85\% (0.85)$$

Yield	Labor	Machine	Setup
Without Yield	5	5	5
With Yield	5.88	5.88	5

For each operation, the labor and machine hours are adjusted by dividing the hours by the cumulative yield. Setup hours are not affected.

5.3.2 Operation Scrap

Operation scrap, defined on the bill of material, affects material cost calculations in the rollup. There must be enough material at each operation in order to obtain 100% yield at the last operation. When material cost is calculated, the quantity of the components is adjusted accordingly. The following example illustrates the effect of operation scrap on costing:

Parent = A

Component = B

Quantity per = 3

Cost of B = 5.00

Operation scrap = 8%

Cost of B rolled into parent item A = $3 \times 1.08 \times 5 = 16.20$.

5.3.3 Before You Begin

- Create the Costing Exceptions report

5.3.4 What You Should Know About

Topic	Description
Master Routings	<p>The program uses the master routing instead of the standard routing for the item from the Routing Master table (F3003) if all of the following are true:</p> <ul style="list-style-type: none"> ■ The Master Routing field on the Manufacturing Constants form is set to Y for the branch. ■ The parent item has a cross-reference item defined for master routing. (The cross-reference item must be defined with a cross-reference type of MR and the Address field must be blank.) ■ The cross-reference item has an item routing defined.

Topic	Description
Unit of Measure Conversions	<p>The program converts all units of measure to the primary unit of measure for the purpose of the rollup.</p> <p>When one of the units of measure is a potent unit of measure, the conversion equation includes the standard potency value from Branch/Plant Manufacturing Data. The following example illustrates a conversion involving a potent unit of measure:</p> <ul style="list-style-type: none"> ■ Component = B ■ Quantity per = 3 ■ Primary unit of measure = GA (physical gallons) ■ Component unit of measure = GP (potent gallons) ■ Standard potency = 50% ■ Cost of B = 50.00 (from the Cost Ledger table) ■ Cost rolled into parent item = $[(3 / .5) \times 50] = 300.00$ <p>When converting from potent units to physical units, the program divides by the standard potency. When converting from physical to potent units, the program multiplies by the standard potency.</p>
Outside Operations	<p>If your item has an outside operation set up in the routing, verify the following before running the Simulate Cost Rollup program:</p> <ul style="list-style-type: none"> ■ You have set up a branch/plant record for the *OP item ■ There is a valid cost in the Cost Ledger table (F4105) for the method specified in the Outside Operations processing option of the Simulate Cost Rollup program
Bulk Products	<p>All costing is based on quantities at standard temperatures. If you enter issues or completions quantities at ambient temperatures, the program converts them to standard.</p>

See Also:

- [Section 8.1, "Updating Frozen Costs,"](#)
- [Appendix A, "Calculations in Cost Rollup."](#)

5.3.5 Processing Options

See [Section 23.4, "Cost Simulation \(P30820\)."](#)

Work with Simulated Cost Components

This chapter contains these topics:

- Section 6.1, "Working with Simulated Cost Components,"
- Section 6.2, "Reviewing and Revising Simulated Cost Components,"
- Section 6.3, "Setting Up Standard Rate and Factor Codes,"
- Section 6.4, "Assigning Values to User Defined Cost Components,"
- Section 6.5, "Reviewing the Standard Cost Simulation Report,"
- Section 6.6, "Setting Up Cost Bucket Codes for Costed Bills of Material,"
- Section 6.7, "Reviewing Costed Bills of Material,"
- Section 6.8, "Setting Up Operation Bucket Codes for Costed Routings,"
- Section 6.9, "Reviewing a Costed Routing."

6.1 Working with Simulated Cost Components

After you have created simulated costs, review costing information to determine the effects of the current rollout scenario. Revise the costing information as necessary. When costs are correct, run the Frozen Update program.

6.2 Reviewing and Revising Simulated Cost Components

Navigation

From **Manufacturing Systems (G3)**, choose **Product Costing**

From **Daily Product Costing (G3014)**, choose **Enter/Change Cost Components**

You review costing information and set up simulated cost scenarios to help plan for future cost changes.

You can change only simulated costs. You can set a processing option if you want to manually maintain the routing cost components (B and C) and protect them from being overwritten.

For the system to calculate B and C cost components, all of the following conditions must be met:

- A routing operation must have a work center with rates in the Work Center Master table for the cost component to display.

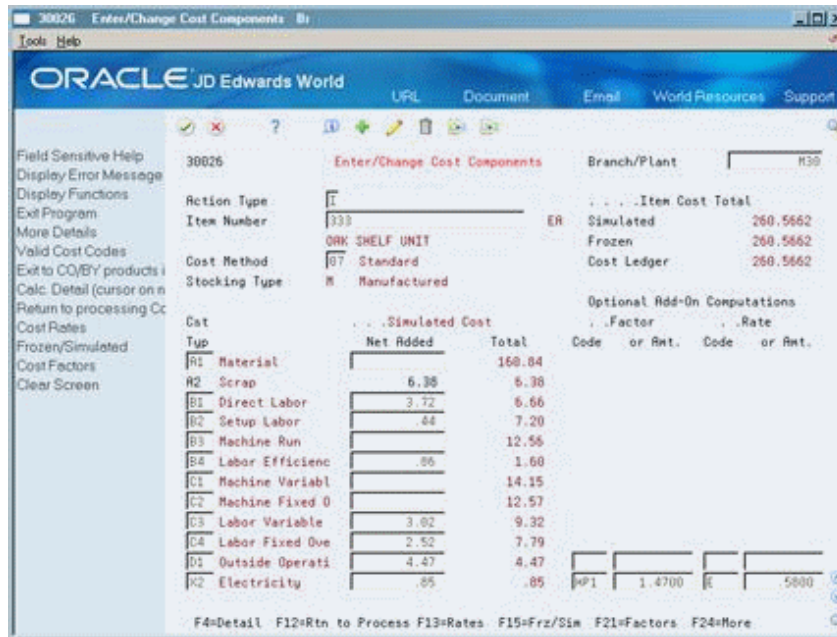
- The type operation code on the routing must indicate a normal operation (that is, the type operation code is blank).
- The effective dates on the routing must be valid. The default for As Of date is today's date.

See Also:

- [Section 5.1, "Creating Simulated Costs,"](#)
- [Appendix A, "Calculations in Cost Rollup."](#)

On Enter/Change Cost Components

Figure 6-1 Enter/Change Cost Components screen



1. Review or revise the following fields:
 - Item Cost Total - Simulated
 - Item Cost Total - Cost Ledger
 - Cost Method
 - Cost Type
 - Simulated Cost Net Added
 - Simulated Cost Total
2. Access the detail calculations for net added value of a routing cost component (F10).

Figure 6–2 Setup Labor screen



You might want to view the detail calculations for one of the net added values. These values are calculated from work center data, work center rates, and manufacturing constants.

The detailed calculation at the right indicates how the program calculates the cost component value for the operation sequence that is highlighted.

The detail calculations screen shows real-time costs. These costs might be different from those shown on the Enter/Change Cost Components form, if you have changed the item's routing, work center rates, or manufacturing constants since you last ran the Simulate Cost Rollup program.

Field	Explanation
Cost Method	A user defined code (system 40, type CM) that identifies a cost method. Cost methods 01 through 08 are hard-coded.
Cst Type	<p>This code designates each element of cost for an item. An example of the coding structure is:</p> <ul style="list-style-type: none"> A1 – Purchased raw material B1 – Direct labor routing sheet rollup B2– Setup labor routing sheet rollup C1 – Variable burden routing sheet rollup C2 – Fixed burden routing sheet rollup Dx – Usually used for outside processing routing sheet rollup Xx – Usually used for extra add-ons, such as electricity, water, and so forth <p>The optional add-on computations usually operate with the type "X" extra add-ons. This cost structure allows you to use an unlimited number of cost components to calculate alternative cost rollups. The system then associates these cost components with one of six user defined summary cost buckets.</p> <p><i>Form-specific information</i></p> <p>The field to the right of the code describes the cost.</p>
Net Added	<p>Used to calculate cost during the simulation process.</p> <p><i>Form-specific information</i></p> <p>This is the cost to build this item at this level in the bill of material. This cost does not include materials (lower-level components). The heading above the Net Added and Total columns indicates if the costs are simulated or frozen values.</p>

Field	Explanation
Simulated Cost	<p>For the designated cost method, used to calculate the cost of all the lower levels during the simulation process.</p> <p><i>Form-specific information</i></p> <p>This is the sum of the net added cost at this level plus the sum of the total costs of the item's direct components (which includes those items' lower-level component costs.) The heading above the Net Added and Total columns indicates if the costs are simulated or frozen values.</p>

6.2.1 What You Should Know About

Topic	Description
Item cost totals	<p>The Item Cost Total values are the total costs of all cost components as of the last cost simulation for simulated values, and as of the last frozen update for frozen values. Simulated and frozen values are from the Item Cost Components table.</p> <p>If the program finds a discrepancy between the Frozen Total and Cost Ledger Total fields, it highlights both fields.</p> <p>See also Section 7.7, "Reviewing the Cost Integrity Report" for more information on comparing frozen and cost ledger values.</p>
Deleting costs	<p>You must delete costs at the bill of material level at which they occur. For example, you cannot delete costs for lower-level components by locating the parent item. Instead, locate the component item number and remove the costs for the component. The system does not make the corresponding cost change to the higher level components and parent item until you run the Simulate Cost Rollup program.</p> <p>To delete outside processing costs (usually cost component Dx), delete the cost component from the routing. Then, delete the cost component and net added value from Enter/Change Cost Components.</p>
Net Added Routing Costs and Frozen Costs	<p>If the Net Added on routing costs does not match frozen costs, the routings may have been changed after the frozen costs were established.</p> <p>To work around this issue, simulate and freeze the costs.</p>

6.2.2 Processing Options

See [Section 23.5, "Item Cost Components \(P30026\)."](#)

6.3 Setting Up Standard Rate and Factor Codes

Navigation

From Product Costing Setup (G3042), choose Standard Rates or Standard Factors

Standard rate and factor codes represent overhead costs or other indirect costs that cannot be attributed directly to a certain production process or operation, but must be accounted for in product costing for an item. These types of costs include utilities, insurance, research and development costs, rent or lease costs, or other overhead or general operating costs. Rate and factor codes are user defined.

The Simulate Cost Rollup program uses the rates and factors you define to calculate some of the costs that appear on Enter/Change Cost Components.

See Also:

- Section 6.4, "Assigning Values to User Defined Cost Components."

To set up standard rate and factor codes

On Standard Rates or Standard Factors

Figure 6–3 Standard Rates screen

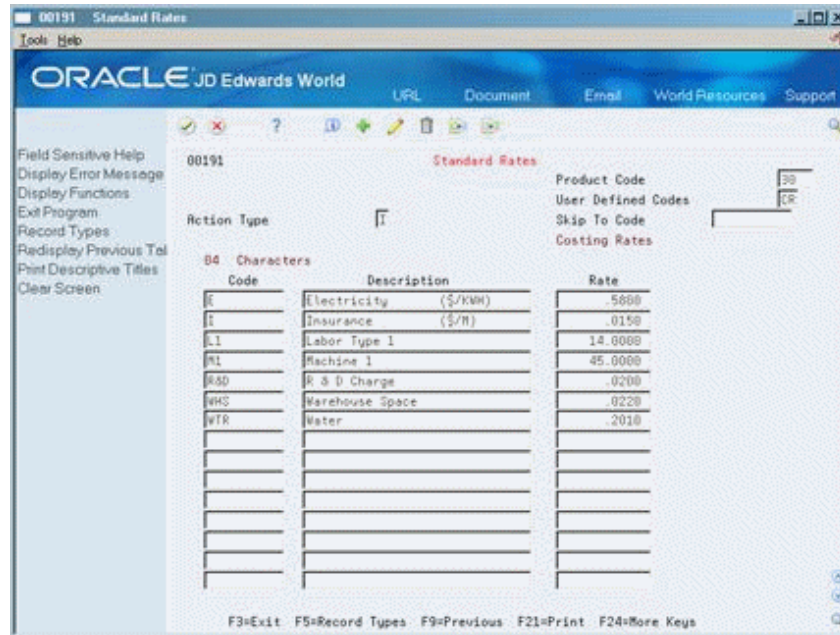
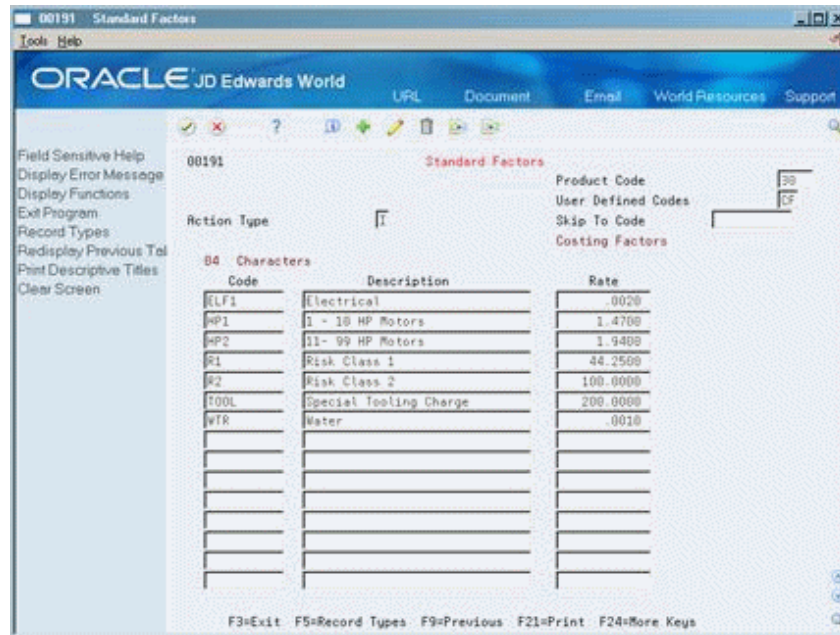


Figure 6–4 Standard Factors screen



Complete the following fields:

- Code

- Description
- Rate

Field	Explanation
Code	This column contains a list of valid codes for a specific user defined code list. The number of characters that a code can contain appears in the column title.
Description	A user defined name or remark.
Rate	A code used to define rate information in the General Rate/Message Records table (F00191).

6.3.1 What You Should Know About

Topic	Description
Code	A rate or factor code used to define the value in the Rate field, as follows: <ul style="list-style-type: none"> ■ Rate code – On Enter/Change Cost Components, the value is used in conjunction with the Factor Code and Factor Amount fields to calculate extra costs. ■ Factor code – On Enter/Change Cost Components, the value is used in conjunction with the Rate Code and Rate Amount fields to calculate extra costs.
Description	A description of the rate code or factor code.
Rate	This rate is used to calculate extra costs.

6.4 Assigning Values to User Defined Cost Components

Navigation

From **Manufacturing Systems (G3)**, choose **Product Costing**

From **Daily Product Costing (G3014)**, choose **Enter/Change Cost Components**

You can define net added values for user defined extra costs in one of the following ways:

- Assigning a net added value manually
- Assigning a predefined value
- Assigning a calculated value based on another component's total value
- Assigning a calculated value based on another component's net added value
- Assigning a calculated value by multiplying a rate and factor

You can also change cost information or delete extra cost components.

See Also:

- [Section 2.9, "What Are Cost Components?"](#)
- [Section 3.6, "Setting Up Cost Components."](#)

Figure 6–5 Enter/Change Cost Components (Assigning Values) screen

. . . Simulated Cost			
Cat	Type	Net Added	Total
R1	Material		160.04
R2	Scrap	6.38	6.38
B1	Direct Labor	3.72	6.66
B2	Setup Labor	.44	7.20
B3	Machine Run		12.56
B4	Labor Efficiency	.95	1.60
C1	Machine Variabl		14.15
C2	Machine Fixed 0		12.57
C3	Labor Variable	3.02	9.32
C4	Labor Fixed Ove	2.52	7.79
D1	Outside Operati	4.47	4.47
K2	Electricity	.85	.85

6.4.1 Assigning a Net Added Value Manually

On Enter/Change Cost Components

Complete the following fields:

- Cost Component
- Simulated Cost Net Added

Note: The program writes manually entered costs to the Total field when you run the Simulate Cost Rollup program.

6.4.2 Assigning a Predefined Value

Use user defined rate codes and factor codes to identify net added costs. For example, to calculate the value for cost component X5, the program uses the amount defined for rate code R&D.

On Enter/Change Cost Components

Complete the following fields:

- Cost component
- Factor Code
- Factor Amount
- Rate Code
- Rate Amount

Field	Explanation
Code	A code used to retrieve rate or factor information from the Generic Rate File (F00191). System Code 30 Record Type CF or CR
Amt	A generic factor number used to calculate data.

To assign a calculated value based on another component's total value

The system can calculate the net added value based on the total value for an existing cost component. The system calculates this value when you enter the data on Enter Cost Components. The costs are then rolled up into the cost of the item when you run Simulate Cost Rollup.

On Enter/Change Cost Components

1. Complete the following field:
 - Cost component
2. Enter an ampersand (&) followed by the cost component code in the following field:
 - Factor Code
3. Complete one of the following fields:
 - Rate Code
 - Rate Amount

The program retrieves the total value for the cost component and multiplies it by the rate value indicated.

To assign a calculated value based on another component's net added value

The system can calculate the net added value based on the net added value for an existing cost component. The system calculates this value when you enter the data on Enter Cost Components. The costs are then rolled up into the cost of the item when you run Simulate Cost Rollup.

On Enter/Change Cost Components

1. Complete the following field:
 - Cost Component
2. Enter an asterisk (*) followed by the cost component code in the following field:
 - Factor Code
3. Complete one of the following fields:
 - Rate Code
 - Rate Amount

The program retrieves the net added value for the cost component and multiplies it by the rate value indicated.

6.4.3 Assigning a Calculated Value by Multiplying a Rate and Factor

The system can calculate the net added value by multiplying a rate amount and factor amount. If you enter both amounts, the system multiplies the two numbers to calculate the net added cost for that cost component for that item. If either the rate or factor is blank, the system multiplies by zero (0).

On Enter/Change Cost Components

1. Complete the following field:
 - Cost Component
2. Complete both of the following fields:
 - Factor Amount
 - Rate Amount

6.5 Reviewing the Standard Cost Simulation Report

The Simulate Cost Rollup program generates the Standard Cost Simulation report. The report shows the previous cost of the item, the simulated rolled up cost, and the variance between the two.

After reviewing the simulated costs, you revise incorrect information and create simulated costs again to include the changes.

Figure 6–6 Standard Cost Simulation report

30825		JD Edwards World		Standard Cost Simulation		Page	3			
Branch M30 Memphis Mfg. Plant		Cost Method. 07 Standard		Date	2/20/17					
Item Number	Item Description	Cst Typ	Cost Dsc.	Net Added	Total	Simulated Net Added	Total	Variance Net Added	Total	Percent
1001	Pen & Pencil Set	B1	Direct Lab	.0979	.0979	.0979	.0979			
		B2	Setup Labo	24.8000	24.8000	24.8000	24.8000			
		B3	Machine Ru	.0338	.0338	.0338	.0338			
		B4	Labor Effi	.0184	.0184	.0096	.0096	.0088-	.0088-	47.826-
		C1	Machine Va	.0271	.0271	.0271	.0271			
		C2	Machine Fi	.0294	.0294	.0294	.0294			
		C3	Labor Vari	23.6307	23.6307	23.6255	23.6255	.0052-	.0052-	.022-
		C4	Labor Fixe	24.8594	24.8594	24.8550	24.8550	.0044-	.0044-	.017-
	UCM. . EA 2nd Item Number.			73.4967	73.4967	73.4783	73.4783	.0184-	.0184-	.025-
1008A	Drawer Labels	A1	Material	.0344	.0344	.0100	.0100	.0244-	.0244-	70.930-
	UCM. . EA 2nd Item Number. . . . .			.0344	.0344	.0100	.0100	.0244-	.0244-	70.930-
1122	CRT AS/400 Compati	A1	Material		362.5410		362.5410			
		B1	Direct Lab	24.1500	156.1813	24.1500	31.4938			
		B2	Setup Labo	10.6250	69.0750	10.6250	31.2500			
		B3	Machine Ru	1.6250	12.7400	1.6250	7.9950			
								124.6875-	79.835-	
								37.8250-	54.759-	
								4.7450-	37.244-	

6.6 Setting Up Cost Bucket Codes for Costed Bills of Material

Navigation

From Product Costing Setup (G3042), choose Cost Buckets

Use cost bucket codes to combine the material and value-added cost for each item into one group. With cost buckets, you can total cost components by groups according to their use. In addition, you can assign a cost bucket sequence number to each cost component to tell the system how to group the costs on costed bill inquiries and reports.

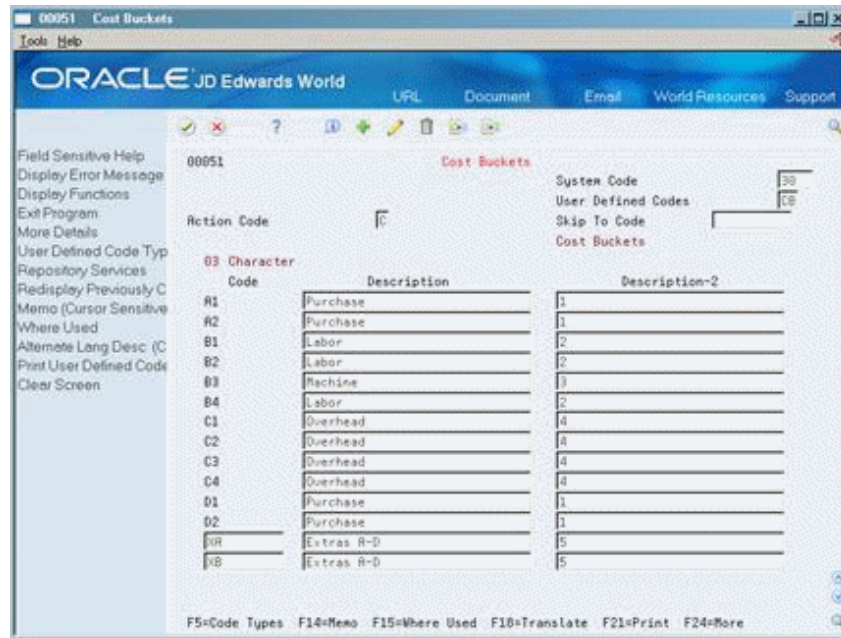
Each cost bucket can contain several defined cost components. Column sequence is defined by the number in the Description-2 field. For example, you might define the columns (buckets) and user defined codes as follows:

Bucket #	Title	Cost Components Included in Buckets
Column 1	Purchase	Cost components A1 (material), A2 (scrap), and D1 (outside operations)
Column 2	Labor	Cost components B1 (direct labor), B2 (setup labor), and B4 (labor efficiency)
Column 3	Machine	Cost component B3 (machine run)
Column 4	Overhead	Cost components C1 (machine variable) and C2 (machine fixed)
Column 5	Extras	Cost components X1 (taxes) and X2 (electricity)

To set up a cost bucket code

On Cost Buckets

Figure 6-7 Cost Buckets screen



Complete the following fields:

- Code - Cost Component
- Description - Component Description
- Description-2 - Column Number

6.6.1 What You Should Know About

Topic	Description
Code - Cost Component	Designates the cost components to be grouped.
Description - Sequence Number	The name that you want to appear as the heading for the cost bucket column on costed bill inquiries and reports. You only need to enter this title once for each sequence number. If the program finds more than one name for a bucket, it uses the name defined for the last cost component that it accumulates into the cost bucket.
Description-2	Specifies in what column (bucket) each cost component is grouped.

6.7 Reviewing Costed Bills of Material

Navigation

From Manufacturing Systems (G3), choose Product Costing

From Daily Product Costing (G3014), choose Costed Bill Inquiry

Effective cost and profit projection depend on accurate and comprehensive item cost information. Use Costed Bill Inquiry to view costs for both parent items and components to assist you in budgeting resources and planning for future cost of items.

The program displays summarized costs for the direct components of a parent item, and net added and total costs for the parent item:

- For the parent item, the costs displayed are the net added cost components from the Cost Components table.
- For each component, the costs displayed are calculated based on the as of date from the bill of material and the cost method used. The program uses the as of date to ignore obsolete component lines in the bill of material.

For example, you can view all costs of manufacturing a parent item, including assembly, subassembly, and component costs. In addition, the manufacturing cost of a component is divided into five user defined categories for precise costing calculations:

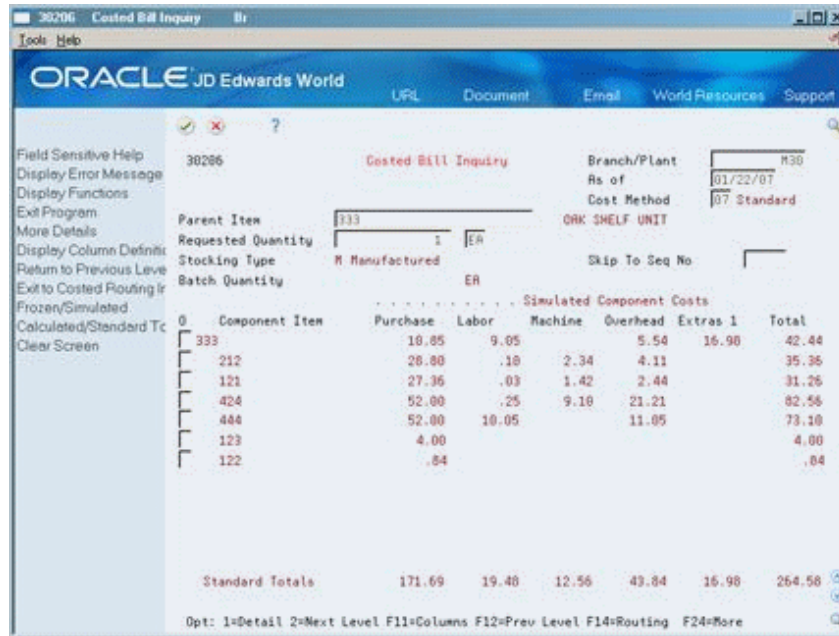
- Purchase
- Labor
- Machine
- Overhead
- Extras

Note: The program can accumulate purchase costs for up to 999 components on each bill of material. Components beyond 999 are not included in the costing process.

To review a costed bill of material

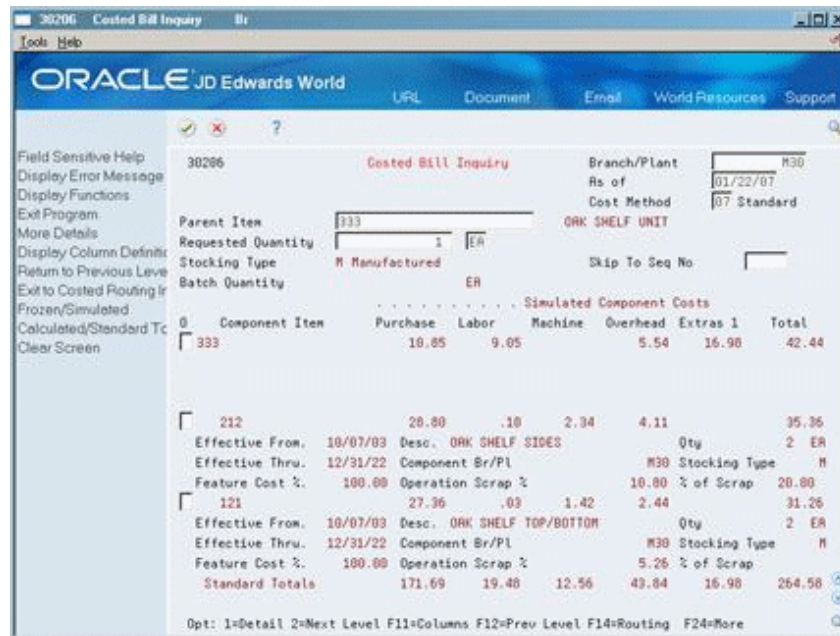
On Costed Bill Inquiry

Figure 6–8 Costed Bill Inquiry screen



1. Review the following fields:
 - As of
 - Cost Method
 - Requested Quantity
 - Unit Of Measure
 - Skip to Sequence Number
 - Component Item
 - Purchase
 - Labor
 - Machine
 - Overhead
 - Extras
 - Total (row)
 - Total (column)
2. Access the detail area (F4).

Figure 6–9 Cost Bill Inquiry (Detail) screen

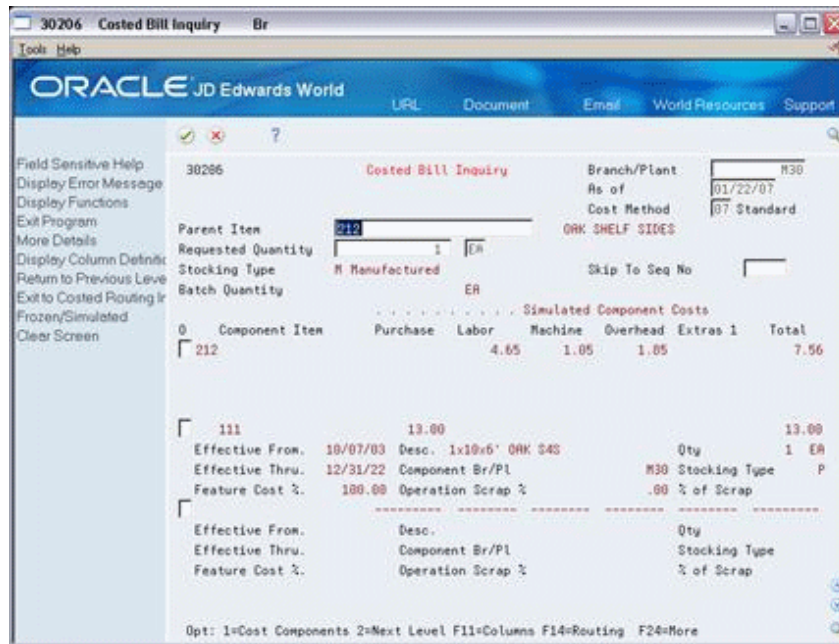


3. Review the following fields:

- Effective - From Date
- Effective - To Date
- Feature Cost Percent
- Operation Scrap Percent
- Quantity
- Percent of Scrap

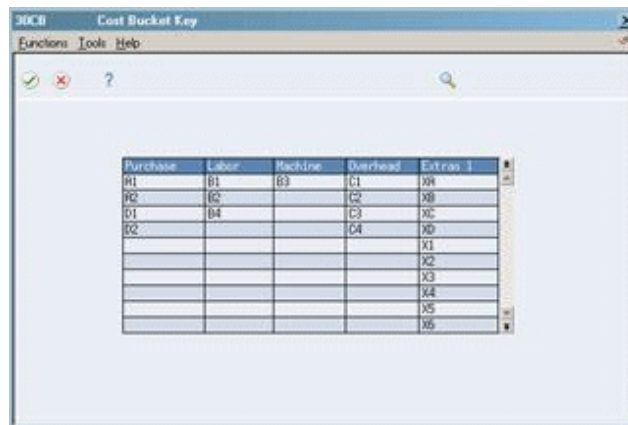
4. Access the costed bill information for the components.

Figure 6–10 Costed Bill Inquiry (Component Information) screen



5. Toggle to review frozen or simulated costs (F15).
6. Access Cost Bucket Key (Columns) to review an item's cost buckets.

Figure 6–11 Costed Bucket Key screen



Field	Explanation
As of	This field is used for effectivity checking. Enter a specific date to display documents (orders, bills of material, routings, as applicable) that are effective on or after that date. The current system date is the default, but you can enter any future or past date. <i>Form-specific information</i> The system uses the bill of material that is effective as of this date.

Field	Explanation
Component Item	<p>A number that the system assigns to an item. It can be in short, long, or 3rd item number format.</p> <p><i>Form-specific information</i></p> <p>In the header, this is the item number of the parent. In the detail area, these are the item numbers of the components.</p>
Requested Quantity	<p>The number of parent items you want to process. The system calculates lower-level values in quantity per the number of parent items requested. For example, if 3 components are needed for a parent item, and the requested quantity is 10, the system plans for 30 components.</p> <p><i>Form-specific information</i></p> <p>This is the number of parent items for which you want to view cost breakdowns. Costs are figured in quantity per the parent item.</p>
Skip To Seq No	<p>A number that indicates the sequence of the components on a bill of material. It initially indicates the relative sequence in which a component was added to a kit or single level bill of material. You can modify this number to change the sequence in which the components appear on the bill of material.</p> <p>Skip To fields allow you to enter a component line number that you want to begin the display of information.</p> <p><i>Form-specific information</i></p> <p>You can enter a component line number with which to begin the display.</p>
Purchased	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>This is cost bucket No. 1 as defined for user defined code 30/CB, Cost Buckets. You can view the cost components assigned to the cost bucket. Cost extras must be defined in cost buckets to be included in the amounts in this display. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p>
Labor	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 2 as defined for user defined code 30/CB, Cost Buckets. You can view the cost components assigned to the cost bucket. Cost extras must be defined in cost buckets to be included in the amounts in this display. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p>
Setup	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 3 as defined for user defined code 30/CB, Cost Buckets. You can view the cost components assigned to the cost bucket. Cost extras must be defined in cost buckets to be included in the amounts in this display. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p>

Field	Explanation
Overhead	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 4 as defined for user defined code 30/CB, Cost Buckets. You can view the cost components assigned to the cost bucket. Cost extras must be defined in cost buckets to be included in the amounts in this display. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p>
Extras	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 5 as defined for user defined code 30/CB, Cost Buckets. You can view the cost components assigned to the cost bucket. Cost extras must be defined in cost buckets to be included in the amounts in this display. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p>
Total	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Contains system calculated totals for item costs, that is, for each component and parent item.</p>
Effective From	<p>A date that indicates one of the following:</p> <ul style="list-style-type: none"> When a component part goes into effect on a bill of material When a routing step goes into effect as a sequence on the routing for an item When a rate schedule is in effect <p>The default is the current system date. You can enter future effective dates so that the system plans for upcoming changes. Items that are no longer effective in the future can still be recorded and recognized in Product Costing, Shop Floor Control, and Capacity Requirements Planning. The Material Requirements Planning system determines valid components by effectivity dates, not by the bill of material revision level. Some forms display data based on the effectivity dates you enter.</p>
Qty	<p>The number of units to which the system applies the transaction.</p> <p><i>Form-specific information</i></p> <p>This is the quantity per assembly and indicates how many of a component are used in the parent.</p>

Field	Explanation
Effective Thru	<p>A date that indicates one of the following:</p> <ul style="list-style-type: none"> ■ When a component part is no longer in effect on a bill of material ■ When a routing step is no longer in effect as a sequence on the routing for an item ■ When a rate schedule is no longer active <p>The default is December 31 of the default year defined in the Data Dictionary for Century Change Year. You can enter future effective dates so that the system plans for upcoming changes. Items that are no longer effective in the future can still be recorded and recognized in Product Costing, Shop Floor Control, and Capacity Requirements Planning. The Material Requirements Planning system determines valid components by effectivity dates, not by the bill of material revision level. Some forms display data based on the effectivity dates you enter.</p>
Feature Cost %	<p>A percentage used by the Simulate Cost Rollup program to calculate the cost of a feature or option item as a percentage of the total cost of the parent.</p> <p>Enter the percentage as a whole number: 5% as 5.0</p>
Operation Scrap %	<p>The system uses this value to increase or decrease the amount of materials to account for loss within the operation. The system updates this value on Enter/Change Bill of Material when you run the Planned Yield Update program. The system calculates this value by compounding the yield percentages from the last operation to the first operation. Use a processing option in Enter/Change Routing to enable the system to calculate the component scrap percent.</p>
% of Scrap	<p>Scrap is the percentage of unusable component material created during the manufacture of a particular parent item. During DRP/MPS/MRP generation, the system increases gross requirements for the component item to compensate for the loss.</p> <p>Note: Shrink is the expected loss of parent items (and hence, components) due to the manufacturing process. Shrink and scrap are compounded to figure the total loss in the manufacture of a particular item. Accurate shrink and scrap factors can help to produce more accurate planning calculations.</p> <p>Enter percents as whole numbers: 5% as 5.0</p>

6.7.1 What You Should Know About

Topic	Description
Displayed costs	<p>This program calculates the cost associated with each cost component in the same way as the Simulate Cost Rollup program.</p> <p>See also Appendix A, "Calculations in Cost Rollup."</p> <p>The top line (the parent) is the net added cost of the parent from the Cost Components table. The lines for the components are the cost breakdown for all next level components. The totals across the bottom are the total costs of the parent item from the Cost Components table. The right-most bottom total is the total of all costs for the parent item.</p> <p>The costs on Costed Bill Inquiry are real-time costs, so they can change if you update the bill of material or routing for an item. The Enter/Change Cost Components screen displays the costs computed when you run Simulate Cost Rollup. As a result, the values might differ from those on Costed Bill Inquiry if you have changed the bill of material, routing, or manufacturing constants since you last ran the rollup.</p>

See Also:

- [Section 6.6, "Setting Up Cost Bucket Codes for Costed Bills of Material"](#) (on the G3042 menu).

6.7.2 Processing Options

See [Section 23.6, "Costed Bill of Material Inquiry \(P30206\)."](#)

6.8 Setting Up Operation Bucket Codes for Costed Routings

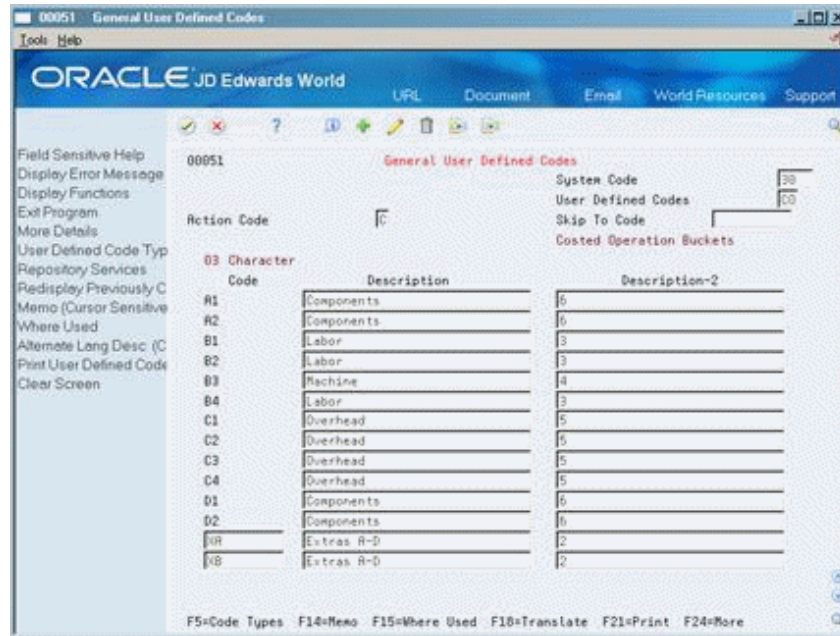
Use operation bucket codes to combine component costs in each step in the routing. That is, you can group operation costs into totals that appear on costed routing inquiries and reports.

For example, you might track labor costs by separate cost components that represent setup, run, and overhead labor for an item. You could combine these cost components into one total cost for labor on the costed routing inquiry or report for the item by assigning the same sequence number to each cost component.

To set up an operation bucket code

On General User Defined Codes

Figure 6–12 General User Defined Codes (Operation Bucket Code) screen



Complete the following fields:

- Code - Cost Component
- Description - Sequence Number
- Description-2

6.8.1 What You Should Know About

Topic	Description
Code - Cost Component	Designates the cost components to be grouped.
Description - Sequence Number	The name that you want to appear as the heading for the operation bucket column on costed routing inquiries and reports. You only need to enter this title once for each sequence number. If the program finds more than one name for a bucket, it uses the name defined for the last cost component that it accumulates into the operation bucket.
Description 2	Specifies in what column (bucket) each cost component is grouped.

6.9 Reviewing a Costed Routing

Navigation

From Manufacturing Systems (G3), choose **Product Costing**

From Daily Product Costing (G3014), choose **Costed Routing Inquiry**

Use Costed Routing Inquiry (P30208) to review the summarized costs of an item for each operation in the routing. This information can help you effectively manage production costs. For example, you can:

- View the work center responsible for an operation

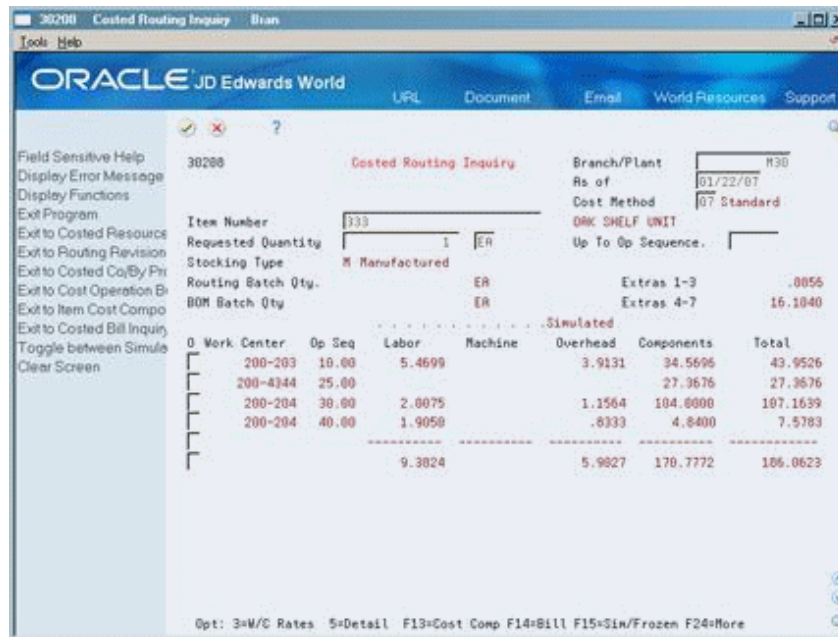
- Determine if a work center performs multiple operations
- Display simulated or frozen costs for labor values for cost methods
- Calculate the totals for all costs by cost categories

Note: The program can accumulate purchase costs for up to 999 components on each bill of material. Components beyond 999 are not included in the costing process.

To review a costed routing

On Costed Routing Inquiry

Figure 6–13 Costed Routing Inquiry screen



1. Review the following fields:
 - As of Date
 - Cost Method
 - Requested Quantity
 - Unit Of Measure
 - Up to Operation Sequence
 - Extras 1-3
 - Extras 4-7
 - Work Center
 - Operation Sequence Number
 - Labor
 - Machine
 - Overhead

- Components
 - Total (row)
 - Total (column)
2. Access the Detail screen (Option 5).

Figure 6–14 Detail screen

Operation Sequence No 10.00 Assemble shelf unit

Category	Type	Description	Cost
Labor	B1	Direct Labor	2,6758
	B2	Setup Labor	2,1250
	B4	Labor Efficiency	8690
Overhead	D3	Labor Variable Overhead	2,1344
	D4	Labor Fixed Overhead	1,7707
Components	R1	Material	20,8000
	R2	Scrap	5,7615

3. On Detail, review the following fields:
 - Category
 - (Cost) Type
 - Description
 - Cost
4. On Costed Routing Inquiry, toggle to review frozen or simulated costs (F15).
5. To review an item's operation buckets, access Operation Bucket Key Window (F11).

Figure 6–15 Operation Bucket Key Window

Labor	Machine	Overhead	Components	Extras 1-3	Extras 4-7
B1	B3	C1	R1	K1	X1
B2		C2	R2	K2	X2
B4		C3	D1	K3	X3
		D4	D2		X4
					X5
					X6
					X7

Field	Explanation
As of	<p>This field is used for effectivity checking. Enter a specific date to display documents (orders, bills of material, routings, as applicable) that are effective on or after that date. The current system date is the default, but you can enter any future or past date.</p> <p><i>Form-specific information</i></p> <p>The routing that is effective as of this date is used.</p>
Requested Quantity	<p>The number of parent items you want to process. The system calculates lower-level values in quantity per the number of parent items requested. For example, if 3 components are needed for a parent item, and the requested quantity is 10, the system plans for 30 components.</p> <p><i>Form-specific information</i></p> <p>This is the number of parent items for which you want to see cost breakdowns. Costs are figured in quantity per the parent item.</p>
Op Seq	<p>In routings, this number is used to sequence the fabrication or assembly steps in the manufacture of an item. You can track costs and charge time by operation.</p> <p>In bills of material, this number designates the routing step in the fabrication or assembly process that requires a specified component part. You define the operation sequence after you create the routing for the item. The Shop Floor Control system uses this field in the backflush/preflush by operation process.</p> <p>In engineering change orders, this number is used to sequence the assembly steps for the engineering change.</p> <p>Skip To fields allow you to enter an operation sequence that you want to begin the display of information.</p> <p>You can use decimals to add steps between existing steps. For example, use 12.5 to add a step between steps 12 and 13.</p> <p><i>Form-specific information</i></p> <p>Top of form: A processing option controls whether "Skip to" or "Up to" operation sequence mode is in effect.</p> <p>In "Skip to" mode, the system uses an entered operation sequence number as the starting point when displaying operations, and displays the total from that point forward on the total line.</p> <p>In "Up to" mode, the system uses an entered operation sequence number as the cutoff for displaying operations. The total for all operations up to and including the operation sequence number entered appears on the total line.</p> <p>Bottom of form: The Op Seq field contains a number that indicates the order of each step in the manufacturing operation.</p>
Purchased	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 1 as defined for user defined code 30/CO, Operation Buckets. A processing option controls whether the system adds cost bucket 1 (Extras 1-3) and cost bucket 2 (Extras 4-7), at the top of the screen, into the grand total of all costs for the parent item at the bottom of the screen.</p>

Field	Explanation
Work Center	<p>A number that identifies a branch, plant, work center, or business unit.</p> <p><i>Form-specific information</i></p> <p>This is the business unit assigned to the work center for the operation sequence listed.</p>
Labor	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 3 as defined for user defined code 30/CO, Operation Buckets. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p> <p>You also can view a detailed breakdown of the cost components added to determine the total for the work center.</p>
Machine	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 4 as defined for user defined code 30/CO, Operation Buckets. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p> <p>You also can view a detailed breakdown of the cost components added to arrive at the total for the work center.</p>
Overhead	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 5 as defined for user defined code 30/CO, Operation Buckets. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p> <p>You can also view a detailed breakdown of the cost components added to arrive at the total for the work center.</p>
Total	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>This column contains system-calculated totals for each row of costs, that is, for each operation sequence.</p> <p>The totals across the bottom of the screen are the totals of each cost bucket.</p> <p>The right-most bottom total is the total of all costs for the routing for an item.</p>

6.9.1 What You Should Know About

Topic	Description
Displayed costs	<p>This program calculates the cost associated with each cost component in the same way as the Simulate Cost Rollup program.</p> <p>See also Appendix A, "Calculations in Cost Rollup."</p> <p>The costs on Costed Routing Inquiry are real-time costs, so they can change if you update the bill of material or routing for an item. The Enter/Change Cost Components screen displays the costs computed when you run Simulate Cost Rollup. As a result, the values might differ from those on Costed Routing Inquiry if you have changed the bill of material, routing, or manufacturing constants since you last ran the rollup.</p>
Master routings	<p>The program uses the master routing for the item from the Routing Master table (F3003) if all of the following are true:</p> <ul style="list-style-type: none"> <li data-bbox="699 705 1373 758">■ The Master Routing field on the Manufacturing Constants screen is set to Y for the branch. <li data-bbox="699 772 1373 877">■ The parent item has a cross-reference item defined for master routing. (The cross-reference item must be defined with a cross-reference type of MR and the Address field must be blank.) <li data-bbox="699 892 1373 919">■ The cross-reference item has an item routing defined.

See Also:

- [Section 6.6, "Setting Up Cost Bucket Codes for Costed Bills of Material"](#) (on menu G3042).

6.9.2 Processing Options

See [Section 23.7, "Costed Routing Inquiry \(P30208\)."](#)

Review Costing Information

This chapter contains these topics:

- Section 7.1, "Reviewing Costing Information,"
- Section 7.2, "Reviewing Frozen Cost Components,"
- Section 7.3, "Reviewing the Item Ledger,"
- Section 7.4, "Reviewing the Single Level Costed Bill of Material Report,"
- Section 7.5, "Reviewing the Multi-Level Costed Bill of Material Report,"
- Section 7.6, "Reviewing the Cost Components Report,"
- Section 7.7, "Reviewing the Cost Integrity Report,"
- Section 7.8, "Reviewing the Comprehensive Cost Comparison Report."

7.1 Reviewing Costing Information

The Item Cost History Inquiry & Report (P30026H) facilitates the tracking by date of frozen cost changes done in the Item Cost Component file (F30026). A function key from Item Cost Component will exit to the Cost Component History screen (P30026H) where matching data to the frozen costs that were added, changed or deleted are displayed. Likewise, from the Item Cost Component History, a function key allows printing of the Item Cost Component History report (P30026HP). To see the date and time stamp information on an individual history item, an option exit displays the Audit Information detail window.

You can use function key exit (F9) from Item Cost Component Entry (P30026) to navigate to Item Cost Component History (P30026H) which displays detailed frozen cost component update records.

Run the Item Cost Component Frozen Update program (P30835) to freeze costs which writes records to the Item Cost Component History file (P30026H).

After you run the Frozen Update program to revalue your inventory, review the results of the frozen cost additions using Item Cost Component Entry (P30026) and the associated history records using Item Cost Component History (P30026H). There is no conversion program for the history file and the file is built as frozen costs are established.

Note: The Item Cost Component History (P30026H) can be used to review frozen Cost Extras for Actual Cost items that use method (02).

7.2 Reviewing Frozen Cost Components

Navigation

From Manufacturing Systems (G3), choose Product Costing

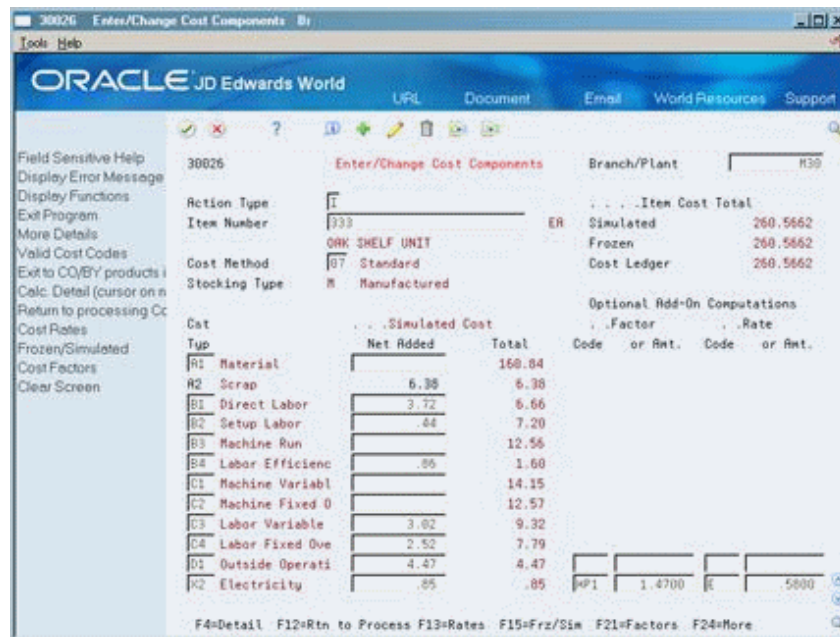
From Daily Product Costing (G3014), choose Enter/Change Cost Components

After you run the Frozen Update program to revalue your inventory, review the frozen costs.

To review frozen cost components

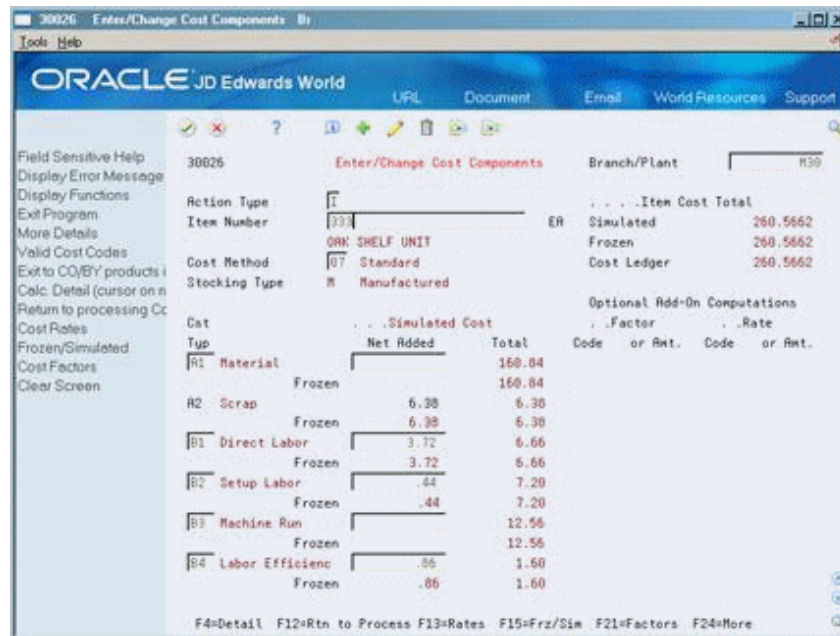
On Enter/Change Cost Components

Figure 7-1 Enter/Change Cost Components (Frozen) screen



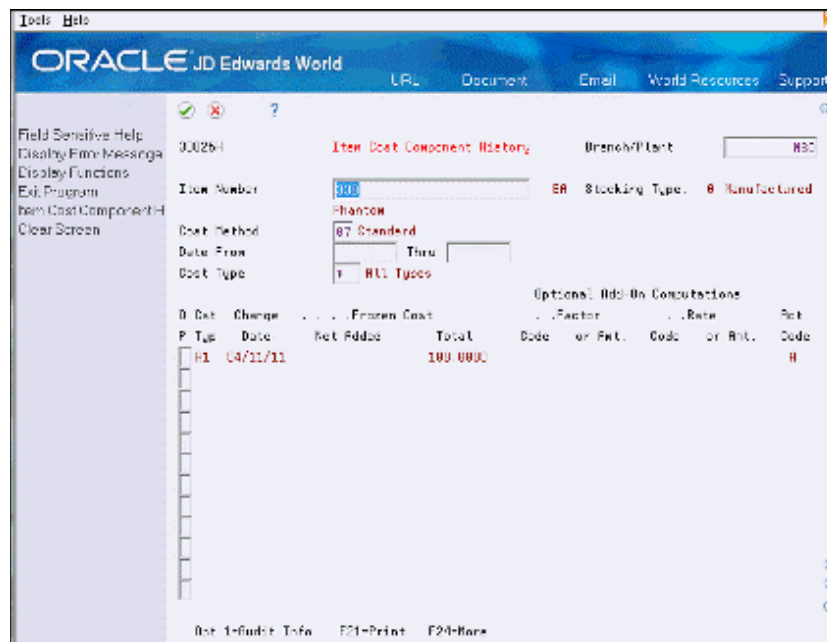
1. Review the following field:
 - Item Cost Total Frozen
2. Access the detail area (F4).

Figure 7-2 Enter/Change Cost Components (Frozen, Detail) screen



3. Toggle (F15) to review frozen or simulated costs.
4. Access Item Cost Component History (F9).

Figure 7-3 Item Cost Component History screen



5. Print the Item Cost Component History Report (F21)
6. Access the Audit Information Window (option 1) to view date and time stamp information.

Figure 7-4 Audit Information screen



7. You can change the Simulated Cost for an item. To complete the process:
 - Run Item Cost Component Frozen Update (G3014/Frozen Update).
 - Review the frozen cost results in Item Cost Component Entry and Item Cost Component History.

Field	Explanation
Frozen	The accumulated standard cost rolled up from lower levels.

7.3 Reviewing the Item Ledger

Navigation

From Manufacturing Systems (G3), choose Product Costing

From Daily Product Costing (G3014), choose Item Ledger

Use Item Ledger to view Item Balance (IB) transactions for an item. The Frozen Update program transfers IB transactions to the item ledger if all of the following are true:

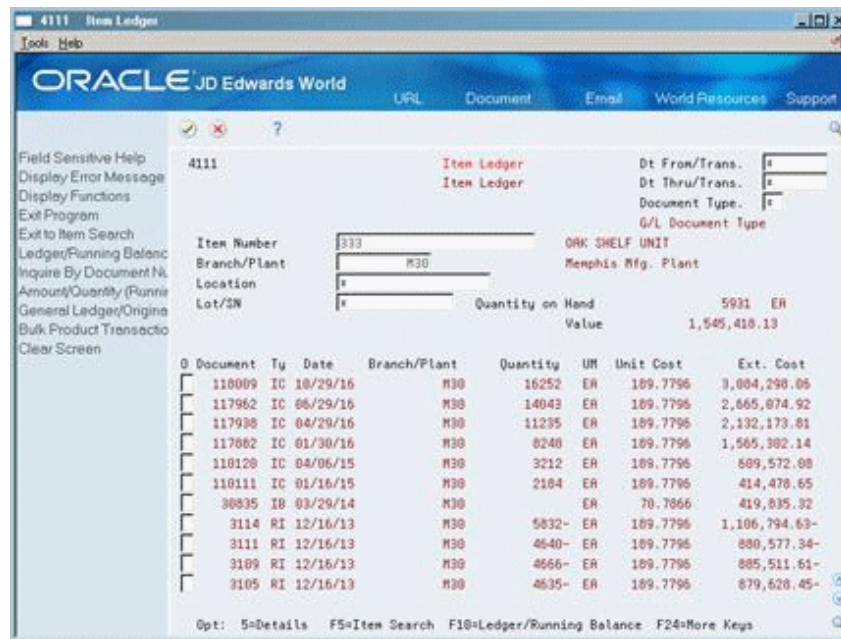
- The frozen cost changes in the Cost Ledger table (F4105) for a given cost method
- That cost method is used as the sales/inventory cost method
- A quantity on hand exists

You can view ledger information in five formats, depending on the processing options you choose:

- Real-time history (standard format)
- Running quantity balance (to review transactions with running quantity balances as of a specified general ledger date)
- Running amount balance (to review transactions with running amount balances as of a specified general ledger date)
- Location item ledger format (for warehouse management)
- Lot status, grade, potency item ledger format (for bulk inventory)

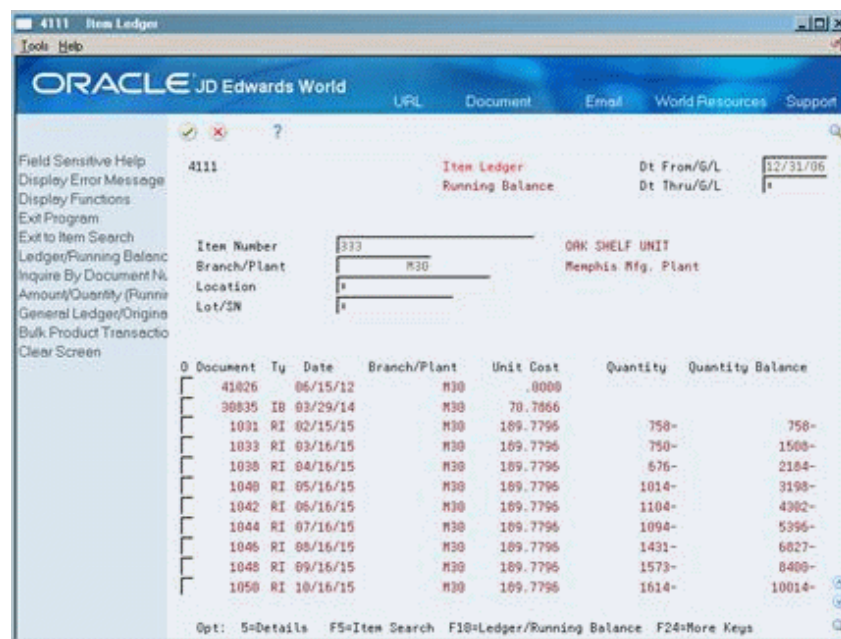
To review the item ledger
On Item Ledger

Figure 7-5 Item Ledger screen



1. Enter IB in the following field:
 - Document Type
2. To review running quantity balances, access Running Balance (F10).

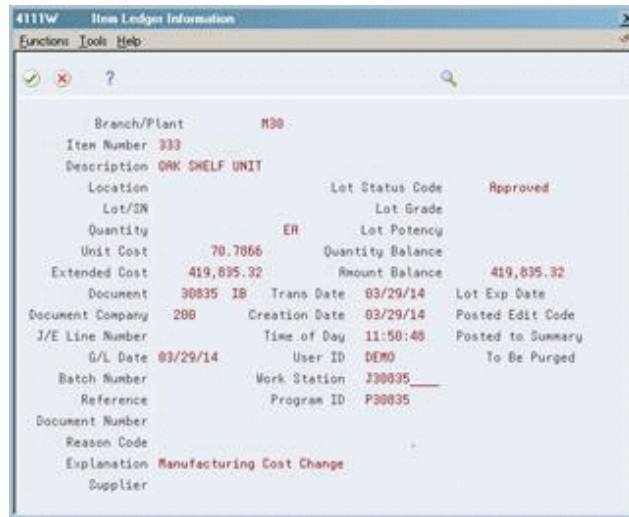
Figure 7-6 Item Ledger (Running Balance) screen



Use this format to tie inventory balances to the general ledger or to view balance information as of a period or fiscal year end. The program calculates the balance and displays item ledger records by general ledger date in ascending order.

3. On Running Balance, review the following fields:
 - Date From G/L and Date Through G/L
 - Quantity Balance
4. Access the Details form (Option 5).

Figure 7-7 Item Ledger Information screen



Note: For manufacturing transactions (document types IM and IC), the G/L date and batch number do not appear until you process journal entries for manufacturing accounting. These transactions do not appear in the running balance until you run Journal Entries for Work in Process or Completions.

Field	Explanation
Document Type	<p>A user defined code (system 00/type DT) that identifies the origin and purpose of the transaction.</p> <p>JD Edwards World reserves several prefixes for document types, such as vouchers, invoices, receipts, and timesheets.</p> <p>The reserved document type prefixes for codes are:</p> <ul style="list-style-type: none"> P – Accounts payable documents R – Accounts receivable documents T – Payroll documents I – Inventory documents O – Order processing documents J – General ledger /joint interest billing documents <p>The system creates offsetting entries as appropriate for these document types when you post batches.</p>

Field	Explanation
Dt From/Trans	The beginning date in the date range. This is the date from which you want the system to display information.
Dt Thru/Trans	The ending date in the date range. This is the date through which you want the system to display information. If you leave this field blank, the system uses the current period.
Quantity Balance	The total quantity requested.

7.3.1 Processing Options

See [Section 23.9, "Item Ledger - Costs \(P4111\)."](#)

7.4 Reviewing the Single Level Costed Bill of Material Report

Navigation

From **Daily Product Costing (G3014)**, choose **Periodic Product Costing**

From **Periodic Product Costing (G3023)**, choose **Costed Bill**

Use the Costed Bill program to create a report that lists the total cost of parent items detailed by component costs. Use this information to develop more accurate financial plans by monitoring product costs.

You can customize this report to help you in your analysis. For example, you can:

- Process the report using any valid cost method
- Process the report for simulated or frozen costs
- Specify a date for the program to use as a criterion when accessing information
- Print all product costs and user defined categories on the report
- Print the report for one branch, selected branches, or all branches

This report presents the component costs in five user defined cost buckets. In addition, the program totals the cost buckets for each item. Each cost bucket can contain several cost components, depending on how you set up your user defined codes.

Figure 7-8 Costed Bill - Current Cost report

30440		JD Edwards World					Page	1	
		Costed Bill - Current Cost					Date	1/31/17	
Cost Method 07 Standard									
Requested Quantity 1									
Item Number/Description	Branch	Quantity	UM	Purchase	Labor	Machine	Overhead	Extras	Total
212	M30	1	EA		4.6500	1.0575	1.8567		7.5642
OAK SHELF SIDES									
111	M30	1	EA	13.0000					13.0000
1x10x6" OAK S4S									
Parent Item Number				13.0000	4.6500	1.0575	1.8567		20.5642
Batch Quantity				EA					
Accounting Cost Qty.				100	EA				

See Also:

- [Section 6.6, "Setting Up Cost Bucket Codes for Costed Bills of Material."](#)

7.4.1 Processing Options

See [Section 23.10, "Costed Bill \(P30440\)."](#)

7.5 Reviewing the Multi-Level Costed Bill of Material Report

Navigation

From **Daily Product Costing (G3014)**, choose **Periodic Product Costing**

From **Periodic Product Costing (G3023)**, choose **Multi-Level Costed Bill**

Use the Multi-Level Costed Bill program to create a report that lists the total cost of parent items detailed by component costs. Use this information to develop more accurate financial plans by monitoring product costs.

You can customize this report to help you in your analysis. For example, you can:

- Specify the number of units that the program costs when you run the report
- Process the report using any valid cost method
- Process the report for simulated or frozen costs
- Specify a date for the program to use as a criterion when accessing information
- Print all product costs and user defined categories on the report
- Print the report for one branch, selected branches, or all branches

This report presents the component costs in five user defined cost buckets. In addition, the program totals the cost buckets for each item. Each cost bucket can contain several cost components, depending on how you set up your user defined codes.

Figure 7-9 Multi-Level Costed Bill Report

30445		JD Edwards World					Page	1	
		Multi-Level Costed Bill Report					Date	2/21/17	
Cost Method 07 Standard									
Requested Quantity 1									
Level	Item Number/Branch	Description	S I	B T Purchase	Labor	Machine	Overhead	Extras	Total
0	2214	M30 CRT Keyboard Fea F I							
		Unit Cost							
1	2215	M30 Qty P CRT 3180 Style K P I			42.0000				42.0000
		1 EA Unit Cost			42.0000				42.0000
1	2216	M30 Qty P CRT AT Style Key P I			42.0000				42.0000
		1 EA Unit Cost			42.0000				42.0000
		Batch Quantity							
		Accounting Cost Qty.							
0	5120	M30 Oak Desk With Ch M I		677.3400	368.1829	24.7071	595.1073		1665.3373
		Unit Cost			23.0780		25.3419		309.4224
1	4277	M30 Qty P FRAMING KIT, 30x P I		47.3900					47.3900
		1 EA Unit Cost		47.3900					47.3900
1	4133	M30 Qty P SIDE ASSY, 30x30 M I		140.0000	206.8332	1.5340	364.3240		712.6912
		4 EA Unit Cost			8.0313		8.8344		16.8657
.2	3390	M30 Qty P LEG OAK, 1.5x1.5 M I		22.2800	41.5520	.3250	79.7746		143.9316
		2 EA Unit Cost			20.7760	.1625	39.8873		60.8258
..3	2611	M30 Qty P OAK BOARD, 2x2x1 P I		10.2300					10.2300
		1 EA Unit Cost		10.2300					10.2300
..3	2417	M30 Qty P LEG CAP, 1.5x1.5 P I		.9100					.9100
		1 EA Unit Cost		.9100					.9100
.2	3386	M30 Qty P SIDE PANEL, OAK, M I		12.7200	2.1250	.0585	2.4720		17.3755

See Also:

- [Section 6.6, "Setting Up Cost Bucket Codes for Costed Bills of Material."](#)

7.5.1 Processing Options

See [Section 23.11, "Multi-Level Costed Bill \(P30445\)."](#)

7.6 Reviewing the Cost Components Report

Navigation

From Daily Product Costing (G3014), choose Periodic Product Costing

From Periodic Product Costing (G3023), choose Cost Components

Use the Cost Components program to create a report that displays the component costs and total cost for each item. This information comes from the Enter/Change Cost Components form.

You can customize this report to meet your specific needs. For example, you can:

- Process the report using any valid cost method.
- Review the cost type and description by item number.
- Identify items.
- Define the exact information to appear on the report from data selection options. For example, you can select specific items and choose whether to include factors or rates for add-on and extra costs.
- Print the report for a single item, several items, or all items.

You can include any of the cost components you define for an item in the cost bucket that you specify.

Figure 7–10 Cost Components report

30026P		JD Edwards World		Page	2	
		Cost Components		Date	6/19/17	
Item Number	Item Description	Cat Typ	Cost Description	Simulated Cost Net Added	Total	Optional Add-On Component Code Factor Code Rate
Cost Method. . . 04 Current		Branch		M30		
1007	MAHOGANY, 8x10x.50in	A1	Material	4.2200	4.2200	
			2nd Item Number.	4.2200	4.2200	
1008	PLYWOOD, 30x60x.50, ACA	A1	Material	3.9300	3.9300	
			2nd Item Number.	3.9300	3.9300	
111	1x10x6' OAK S4S	A1	Material	13.0000	13.0000	
			2nd Item Number.	13.0000	13.0000	
1122	CRT AS/400 Compatible	A1	Material		362.5410	
			B1 Direct Labor		.0197	
			E2 Setup Labor		.1949	
			B3 Machine Run		.0112	
			B4 Labor Efficiency		.0035	
			C1 Machine Variable Overhea		.0140	
			C2 Machine Fixed Overhead		.0117	
			C3 Labor Variable Overhead		.1588	
			C4 Labor Fixed Overhead		.1490	
			2nd Item Number.		363.1038	
1127	OAK BOARD, 12x24x.75	A1	Material	5.2800	5.2800	
			2nd Item Number.	5.2800	5.2800	
121	OAK SHELF TOP/BOTTOM	A1	Material		13.0000	
			E2 Setup Labor	.0155	.0155	
			B3 Machine Run	.0007	.0007	
			C1 Machine Variable Overhea	.0005	.0005	
			C2 Machine Fixed Overhead	.0006	.0006	
			C3 Labor Variable Overhead	.0147	.0147	
			C4 Labor Fixed Overhead	.0155	.0155	
			2nd Item Number. . . . .	.0475	13.0475	

See Also:

- [Section 6.6, "Setting Up Cost Bucket Codes for Costed Bills of Material."](#)

7.6.1 Processing Options

See [Section 23.12, "Cost Components \(P30026P\)."](#)

7.7 Reviewing the Cost Integrity Report

Navigation

From Daily Product Costing (G3014), choose Periodic Product Costing

From Periodic Product Costing (G3023), choose Cost Integrity

Use the Cost Integrity program (P30543) to create a report that compares the sum of the frozen standard cost components on the Enter/Change Cost Components screen and the unit cost in the Cost Ledger table (F4105) and lists variances. For cost level 3 items, the program uses the unit cost for the primary location of the item in the Cost Ledger table. The Based On File for Program P30543 is F30026 and an item must have an existing record in this file to appear on the report.

Figure 7-11 Cost Component/Ledger Integrity report

30543		JD Edwards World				Page - 2	
		Cost Component/Ledger Integrity				Date - 6/19/17	
Branch	Item Number	Description	Stock Cost Type	Mthd	Rollup Cost	Ledger	Variance
M30	1122	CRT AS/400 Compatible	K Manuf	04	363.1038	363.1038	
	1122	CRT AS/400 Compatible	K Manuf	05	363.1038	363.1038	
	1122	CRT AS/400 Compatible	K Manuf	07	363.1038	363.1038	
	2434	CRT Chassis Subassembly	M Manuf	04	294.1038	294.1038	
	2434	CRT Chassis Subassembly	M Manuf	05	294.1038	294.1038	
	2434	CRT Chassis Subassembly	M Manuf	07	294.1038	294.1038	
	2954	AS/400 Mother Board 22314	M Manuf	04	57.7360	57.7360	
	2954	AS/400 Mother Board 22314	M Manuf	05	57.7360	57.7360	
	2954	AS/400 Mother Board 22314	M Manuf	07	57.7360	57.7360	
	2556	Printed Circuit Board 12227	F Purch	04	18.3700	18.3700	
	2556	Printed Circuit Board 12227	F Purch	05	18.3700	18.3700	
	2556	Printed Circuit Board 12227	F Purch	07	18.3700	18.3700	
	1990	Board Sockets 88339	F Purch	04	2.0200	2.0200	
	1990	Board Sockets 88339	F Purch	05	2.0200	2.0200	
	1990	Board Sockets 88339	F Purch	07	2.0200	2.0200	
	1827	Dip Swith, 192177 CRT	F Purch	04	5.3200	5.3200	
	1827	Dip Swith, 192177 CRT	F Purch	05	5.3200	5.3200	
	1827	Dip Swith, 192177 CRT	F Purch	07	5.3200	5.3200	
	1552	Audible Alarm, CRT Mother	F Purch	04	16.3700	16.3700	
	1552	Audible Alarm, CRT Mother	F Purch	05	16.3700	16.3700	
	1552	Audible Alarm, CRT Mother	F Purch	07	16.3700	16.3700	
	2403	Crt Graphics Card	F Purch	04	17.9000	17.9000	
	2403	Crt Graphics Card	F Purch	05	17.9000	17.9000	
	2403	Crt Graphics Card	F Purch	07	17.9000	17.9000	
	2899	AS/400 CRT Chassis Frame	M Manuf	04	201.9799	201.9799	
	2899	AS/400 CRT Chassis Frame	M Manuf	05	201.9799	201.9799	
	2899	AS/400 CRT Chassis Frame	M Manuf	07	201.9799	201.9799	
	2298	AS/400 Chassis Main Frame	M Manuf	04	26.7090	26.7090	
	2298	AS/400 Chassis Main Frame	M Manuf	05	26.7090	26.7090	
	2298	AS/400 Chassis Main Frame	M Manuf	07	26.7090	26.7090	
	1999	Sheet Metal 12.7 X 16.2	F Purch	04	26.5510	26.5510	
	1999	Sheet Metal 12.7 X 16.2	F Purch	05	26.5510	26.5510	
	1999	Sheet Metal 12.7 X 16.2	F Purch	07	26.5510	26.5510	
	1770	AS/400 Chassis Frame Supports	M Manuf	04	87.5924	87.5924	
	1770	AS/400 Chassis Frame Supports	M Manuf	05	87.5924	87.5924	
	1770	AS/400 Chassis Frame Supports	M Manuf	07	87.5924	87.5924	

7.7.1 Processing Options

See [Section 23.13, "Cost Component/Ledger Integrity \(P30543\)."](#)

7.8 Reviewing the Comprehensive Cost Comparison Report

Navigation

From Daily Product Costing (G3014), choose Periodic Product Costing

From Periodic Product Costing (G3023), choose Comprehensive Cost Comparison

Use the Comprehensive Cost Comparison program to create a report that compares Cost Ledger (F4105) and Cost Component values from the Cost Component file (F30026).

Figure 7-12 Comprehensive Cost Comparison Report

2010		P 1 - 2010s 2010										2011	
Comprehensive Cost Comparison Report		For Inventory Cost Level 1										2010	
Cost	Item Name	Item Description	Brand/Plant	Tag	QTY	Unit Cost	Cost Price	Unit Cost	Cost Price	Unit Cost	Cost Price	Unit Cost	Cost Price
100	100	PCB	00	S	2	100	01	01	5.2500			5.2500	.00
			10	S	2	100	01	01	21.2000			21.2000	.00
			18	S	2	150	00	01	5.0000			5.0000	.00
			25	S	2	150	01	01	5.2500			5.2500	.00
			30	S	2	150	02	01	5.0000			5.0000	.00
			35	S	2	150	03	01	5.0000			5.0000	.00
			40	S	2	150	04	01	5.0000			5.0000	.00
			45	S	2	150	05	01	5.0000			5.0000	.00
			50	S	2	150	06	01	5.0000			5.0000	.00
			55	S	2	150	07	01	5.0000			5.0000	.00
			60	S	2	150	08	01	5.0000			5.0000	.00
			65	S	2	150	09	01	5.0000			5.0000	.00
			70	S	2	150	10	01	5.0000			5.0000	.00
			75	S	2	150	11	01	5.0000			5.0000	.00
			80	S	2	150	12	01	5.0000			5.0000	.00
			85	S	2	150	13	01	5.0000			5.0000	.00
			90	S	2	150	14	01	5.0000			5.0000	.00
			95	S	2	150	15	01	5.0000			5.0000	.00
			100	S	2	150	16	01	5.0000			5.0000	.00

7.8.1 Processing Options

See Section 23.14, "Comprehensive Cost Comparison-Cost Lvl 1 (P30550)."

Update Frozen Costs

This chapter contains the topic:

- [Section 8.1, "Updating Frozen Costs."](#)

8.1 Updating Frozen Costs

Navigation

From Manufacturing Systems (G3), choose Product Costing

From Daily Product Costing (G3014), choose Frozen Update or Frozen Update/WIP Revaluation

After you perform simulated rollups to determine the effect of changes, you can update your frozen costs with simulated values by running a frozen update. Most companies run this program at the beginning of a new fiscal year to create their manufacturing costs for the next fiscal period.

You can perform simulated rollups and frozen updates for any cost method, except 02. The Manufacturing Accounting system uses frozen standard costs (method 07), unless Actual Cost is indicated for the Manufactured item.

Note: This program uses the costs generated by the most recent run of the Simulate Cost Rollup program. If you have changed information since the last simulated cost rollup, those changes will not be reflected by the frozen update.

The Frozen Update program uses the costs that were generated by the Simulate Cost Rollup program to:

- Update unit costs in the Cost Ledger table (F4105) for the cost method selected
- Update frozen costs in the Cost Components table (F30026) for the cost method selected
- Update labor and overhead rates, for the cost method selected, in the Work Center Master table (F30006)
- Print report totals by company, branch/plant, and G/L category code
- For on-hand balances, create an Item Balance (IB) record in the Item Ledger table (F4111) if the cost method selected matches the sales/inventory cost method for an item, and a journal entry if a net change in value exists.

- For on-hand balances, write journal entries to the Account Ledger table (F0911) in either detail or summary format

An item ledger record is written if the cost method selected for update is the standard (07) cost method or the sales/inventory cost method. The item ledger record indicates a change in inventory value for the updated items. The number of item ledger records written depends on the cost level of the item, which is defined in the Item Master table (F4101). For example, items at cost level 2 would have an item ledger record for each branch/plant at which they are defined, because costs can differ by branch/plant.

For cost level 3, an item ledger record is written for each lot/location.

In addition, if you set the processing option, the program does the following for work in process (WIP Revaluation):

- Adjusts inventory values in the Production Cost File (F3102) for any open orders
- Writes journal entries to the Account Ledger table (F0911) in either detail or summary format

Costs in the Production Cost File (F3102) are updated for those open work orders affected by a cost change. In other words:

- The program creates a journal entry only if a work order has an outstanding WIP balance.
- WIP costs are only updated for open work orders (variance flag is less than 3)
- The work order is updated only if it contains an item selected for cost update.

Standard, completed, and scrapped costs are updated using the new parent frozen costs. Current, planned, and actual costs are updated using the new component costs and work center rates (simulated in proof mode and frozen in final mode).

8.1.1 Journal Entries for On-Hand Balances

The program creates journal entries in either detail or summary format that match in amount with the item ledger records. Thus the program maintains integrity between the Item Ledger and the Account Ledger. Use the Item Ledger/Account Integrity report to verify this integrity.

The process flow is as follows:

- The program creates a journal entry only if an item ledger record has been written.
- An item ledger record is written only if an item cost ledger record has been updated.
- An item cost ledger record is updated only if a cost component record has been updated.

The program accesses the following AAIs to obtain the object account.

AAI Table Number	Description	Use
4134	Inventory	Debit to show increase in item cost Credit to show decrease in item cost
4136	Expense or COGS	Debit to show expense or loss Credit to show income or gain

8.1.1.1 Detail Journal Entries

If you choose detail format, the program creates matching debit and credit account ledger records for every item ledger record created. Use the detail format when you want a detailed audit trail.

8.1.1.2 Summary Journal Entries

If you choose summary format, the program creates debit and credit records by subtotals of company, general ledger category code, and transaction type. Use the summary format to reduce the amount of detail in the general ledger. You can select to run summary journal entries with a detailed report.

Caution: Consider the memory allocation requirements, as the potential volume can be quite large.

8.1.2 Journal Entries for WIP Revaluation

The program creates journal entries in either detail or summary format that match in amount with the work order costs. Thus the program maintains integrity between the WIP balances and the Account Ledger. Use Variance Inquiry to verify this integrity.

The program accesses the following DMAAIs to obtain the object account.

DMAAI Table Number	Description	Use
4136	Expense or COGS	Debit to show expense or loss Credit to show income or gain
3120	WIP	Debit to show increase in WIP costs Credit to show decrease in WIP costs

Note: If not familiar with the WIP Revaluation process and impact, consider using a test environment and/or running in Proof mode first.

8.1.2.1 Detail Journal Entries

If you choose detail format, the program creates matching debit and credit account ledger records for every updated work order. Use the detail format when you want a detailed audit trail. However, consider that the potential volume is large, requiring a lot of memory. If running in detail mode, the work order number can be written to the GL detail Subledger field facilitating research. It is advisable to run the proof in detail mode, followed by a summary mode run.

8.1.2.2 Summary Journal Entries

If you choose summary format, the program creates debit and credit records by subtotals of company, general ledger category code, and transaction type. Use the summary format to reduce the amount of detail in the general ledger. You can still run a report as a detailed audit trail.

8.1.3 Before You Begin

- Ensure that you have set up item cost levels on the initial Item Master Information form. See [Section 3.3, "Setting Up Item Cost Levels."](#)

8.1.4 What You Should Know About

Topic	Description
Ensuring Manufacturing Work Orders are Closed	For a manufacturing work order to be considered closed, the variance flag (PPFG) on the work order header must have a value of 3. To achieve this, set the processing options on the variance program as follows: #9 – Enter a value greater than or equal to 11. Note: A World Writer report is available on the Manufacturing Accounting Periodic menu (G3123) to locate work orders where the variance flag values are less than 3: ZJDE0013 Variance Flag Exceptions.
Flex Accounting for Frozen Cost Update	You can determine the impact of Flex Accounting when generating journal entries for product cost update.
Flex Accounting for WIP Revaluation	You can use Flex Accounting when generating journal entries for WIP Revaluation.
Configurator Work Orders	Configurator Work Orders are included in WIP Revaluation. These are work orders for stocking type C parent items.

8.1.5 Reports

The program produces the following reports:

Report	Description
Item Cost Ledger Exception report	The program produces this report if it finds any general ledger errors while formatting the journal entries. The report lists an error message once for the same combination of AAI number, account number, and G/L category code. If run in proof mode, correct any errors and run the Frozen Update program again. If run in final mode, you must manually correct the Journal Entry batch and fix any errors.
Frozen Standard Update report	This report shows the effect of the inventory revaluation based on the changes made to the cost revisions records for the inventory items. You can print all items or only those that have a cost change. You can run the report in proof mode or final mode. The report provides the following information: <ul style="list-style-type: none"> ■ Old and new costs for each updated item ■ Variances between old and new costs ■ Item quantity on hand ■ Net amount of change in cost ■ Summary of the amount changed by item general ledger category (facilitates any manual journal entries required) ■ G/L exception errors ■ Whether G/L transactions have been written ■ Either G/L subtotals by company and G/L category code or G/L category code only

Report	Description
WIP Revaluation Exception report	If you choose to do WIP revaluation, the program produces this report if it finds any general ledger errors while formatting the journal entries. An error message is printed once for the same combination of AAI number, account number, and G/L category code. If run in proof mode, correct any errors and run the Frozen Update program again. If run in final mode, you must manually correct the Journal Entry batch and fix any errors.
WIP Revaluation Update report	<p>If you choose to do WIP revaluation, this report shows the effect of the inventory revaluation based on the changes made to the cost revisions records for the inventory items. The report lists all open work orders that use any of the items whose costs have changed. You can run the report in proof mode or final mode. The report provides the following information:</p> <ul style="list-style-type: none"> Old and new WIP balance for each work order Variances between old and new WIP balance Net amount of change in WIP G/L transactions, if requested, in either detail or summary format WIP Revaluation journal entries can be viewed from G3116, number 14.
Variance Flag Exceptions Report	This report allows you to view Variance Flag Exceptions which are work order statuses greater than 96 but Variance Flag is not equal to 3. Run this report prior to executing a WIP Revaluation. Update the Variance Flag for any orders on the report that should be closed to revaluation.

Figure 8-1 Item Cost Ledger Exception report

30834		JD Edwards World		Page . . . 1					
		Item Cost Ledger Update - Final Mode		Date . . . 4/03/17					
Batch Number . . 129171		G/L Exception Report							
Batch Date . . . 04/03/17									
Account Number	G/L Date	AAI Num	Do Ty	G/L Cat	Error Messages				

No Errors Found									
30835		JD Edwards World		Page - 3					
		Item Cost Ledger Update - Final Mode		Date - 4/03/17					
Batch Number . . FINAL									
Batch Date . . .									
J/E Mode . . . Detailed									
Cost Method . . . 07 Standard									
Item Number	Branch	Location	Lot	G/L Cat	Old Cost	New Cost	Variance	Qty on Hand	Net Change
111	M30			IN20	13.0000	13.0000	.0000		
121	M30			IN20	14.8527	14.8527	.0000	140960	
122	M30			IN20	.0700	.0700	.0000	597336	
123	M30			IN20	4.0000	4.0000	.0000		
212	M30			IN20	15.9607	15.9607	.0000		
333	M30			IN20	261.6500	260.5662	1.0838-	5931	6428.02-
								5931	6428.02-
30837		JD Edwards World		Page . . . 1					
		WIP Re-Valuation Update		Date . . . 2/12/17					
Batch Number . . PROOF		G/L Exception Report							
Batch Date . . .									
Account Number	G/L Date	AAI Num	Do Ty	G/L Cat	Error Messages				

No Errors Found									

Figure 8-2 Variance Flag Exceptions report

Variance Flag Exceptions						Page	-
Var Flag	Order Number	Or Ty	WO Sts	2nd Item Number	Branch/Plant	Date	- 08/31/1
2	581925	WO	99	A-1	WHS		
2	581933	WO	99	B-1	WHS		
2	581941	WO	99	D-1	WHS		
2	581950	WO	99	A-1	WHS		
2	581966	WO	99	B-1	WHS		
2	581976	WO	99	D-1	WHS		
2	581984	WO	99	A-1	WHS		
2	581992	WO	99	B-1	WHS		
2	582004	WO	99	D-1	WHS		
2	609326	WO	99	AJDA	M30		
2	609377	WO	99	AJDA	M30		
2	629554	WO	97	MFG13	TOKYO		
2	629589	WO	96	MFG13	M30		
2	629618	WO	97	MFG13	TOKYO		
							More...
2	629626	WO	97	MFG13	TOKYO		
2	631355	WO	97	MFG14	TOKYO		
2	631363	WO	97	MFG14	TOKYO		
2	631371	WO	97	MFG14	M30		
2	631380	WO	97	MFG14	M30		
2	631398	WO	97	MFG14	M30		
2	631427	WO	99	MFG15	TOKYO		
2	631435	WO	99	MFG15	M30		
2	631443	WO	99	MFG15	M30		
1	624251	WO	99	BRDOWP	DONV		
1	628535	WO	99	BRDOWP	DONV		
1	629562	WO	97	MFG13	TOKYO		
	840	WO	99	200-001	M30		
	852	WO	97	200-001	M30		
	861	WO	97	200-001	M30		
	12273	WO	99	100	M20		
	12274	WO	99	100	M20		
	12275	WO	99	100	M20		
	12276	WO	99	205	M20		
							More...
	12277	WO	99	205	M20		
	12278	WO	99	205	M20		
	12279	WO	99	205	M20		
	12280	WO	99	206	M20		
	12281	WO	99	206	M20		
	12282	WO	99	206	M20		
	12283	WO	99	206	M20		
	120651	WO	99	2221	M40		
	120660	WO	99	7771	M40		
	120678	WO	99	7771	M40		
	120686	WO	99	2221	M40		
	120694	WO	99	7771	M40		
	120707	WO	99	2221	M40		
	120715	WO	99	7771	M40		
	120723	WO	99	2221	M40		
	120731	WO	99	2221	M40		
	120740	WO	99	7771	M40		
	120758	WO	99	2221	M40		
	120766	WO	99	7771	M40		

Figure 8-3 WIP Revaluation Update report

30838		JD Edwards World				Page	-	1
		WIP Re-Valuation Update				Date	-	2/12/17
Batch Number . . .		PROOF						
Batch Date . . .								
J/E Mode		Detailed						
Cost Method.		07 Standard						
Document	Item Number	Co	Branch	G/L Cat	Old Total WIP Cost	New Total WIP Cost	WIP Variance	Original Quantity
00157147	772481-PC3	12020	12-20	IN20	55.50	59.50	4.00	2.0000
Report Total.					55.50	59.50		

30838		JD Edwards World				Page	-	2
		WIP Re-Valuation Update				Date	-	2/12/17
Batch Number . . .		PROOF						
Batch Date . . .								
J/E Mode		Detailed						
Cost Method.		07 Standard						
G/L RECAP								
Doc	Document	G/L	Co	Account Description	G/L Account	. . . . . Amounts		LT
Ty		Date		Explanation		Debit	Credit	
IB	157147	02/12/17	12020	Material	12-20.1710.A1	6.00		AA
				WIP Revaluation				
IB	157147	02/12/17	12020	Labor	12-20.1720.B1	7.00		AA
				WIP Revaluation				
IB	157147	02/12/17	12020	Machine	12-20.1720.B3	2.00-		AA
				WIP Revaluation				
IB	157147	02/12/17	12020	Fixed Machine	12-20.1730.C2	7.00-		AA
				WIP Revaluation				
IB	157147	02/12/17	12020	Physical Inventory & Adjs	12-20.6310		4.00-	AA
				WIP Revaluation				
Doc. Total						4.00	4.00-	
Number of Documents, if Detailed				1				

See Also:

- [Section 18.1, "Creating Journal Entries"](#) for more information on detail and summary journal entries,
- [Section 20.5, "Reviewing the Item Ledger/Account Integrity Report."](#)

8.1.6 Processing Options

See [Section 23.8, "Item Cost Update \(P30835\)."](#)

Work with Additional Costing Features

This chapter contains these topics:

- [Section 9.1, "Copying Costs,"](#)
- [Section 9.2, "Copying Frozen Costs to Simulated Costs,"](#)
- [Section 9.3, "Updating Sales Order Price/Cost,"](#)
- [Section 9.4, "Updating Product Costs."](#)

You can use several additional features to work with costing information. You can copy costs for an item from one cost method to another. You can reset your simulated costs to their frozen values. You can update the costs in your sales orders with the most current cost values. You can update costs for an item globally, using an amount or a percentage change.

9.1 Copying Costs

Navigation

From Daily Product Costing (G3014), choose Periodic Product Costing

From Periodic Product Costing (G3023), choose Copy Costs

Use Copy Costs to copy the simulated or frozen costs and work center rates from one cost method to the simulated costs for another cost method. You can also copy work center rates between cost methods within the same work center.

Based on the processing option values, the program copies information in the Cost Components table (F30026) and the Work Center Rates table (F30008) to update costs for the cost method and branches you specify. You can only replace simulated costs, not frozen costs, in the copy to branch. Run the Frozen Update program to update frozen costs.

Caution: To ensure acceptable results, JD Edwards World recommends that you plan your choices carefully and write them down before you enter them. This program does not generate a report of the updated costs.

9.1.1 Processing Options

See [Section 23.15, "Copy Component Cost Values \(P30890\)."](#)

9.2 Copying Frozen Costs to Simulated Costs

Navigation

From **Daily Product Costing (G3014)**, choose **Periodic Product Costing**

From **Periodic Product Costing (G3023)**, choose **Reset Simulated Costs**

For the cost method and branches you choose, use **Reset Simulated Costs** to reset simulated costs to their frozen values. Resetting costs allows you to begin a simulation again.

9.2.1 Processing Options

See [Section 23.16, "Cost Simulation Reset \(P30850\)."](#)

9.3 Updating Sales Order Price/Cost

Navigation

From **Sales Order Management (G42)**, choose **End of Day Processing**

From **End of Day Processing (G4213)**, choose **Update Sales Price/Cost**

Use the **Update Sales Price/Cost** program to update the unit and extended cost in your sales orders with the most current cost values specified in the **Cost Ledger table (F4105)**. If multi-currency processing is active in the system, the program updates the **Foreign Unit** and **Extended Cost** fields as well. Use data selections to designate particular information to be processed.

Caution: When you run this program, the system updates your live sales order detail information. Therefore, JD Edwards World recommends extreme caution in setting up data selections.

See Also:

- *Updating Prices for a Customer in the JD Edwards World Sales Order Management Guide.*

9.3.1 Processing Options

See [Section 23.17, "Update Sales Cost, Price, or Exchange Rate \(P42950\)."](#)

9.4 Updating Product Costs

Navigation

From **Inventory Management (G41)**, choose **Inventory Price/Cost Updates**

From **Inventory Price/Cost Updates (G4123)**, choose **Speed Cost Maintenance**

Use **Speed Cost Maintenance** to update costs for purchased items in the branch/plants, locations, and lots you choose. You can increase or decrease costs by a percentage or dollar amount, or you can specify a new dollar amount. You also specify the cost method for which you want to update costs.

See Also:

- Section 3.5, "Setting Up Item Costs,"
- Updating Item Costs in the *JD Edwards World Inventory Management Guide*.

To update a product's cost

On Speed Cost Maintenance

Figure 9–1 Speed Cost Maintenance screen

The screenshot shows the 'Speed Cost Maintenance' screen in Oracle JD Edwards World. The window title is '4105 Speed Cost Maintenance Cos'. The screen is divided into several sections:

- Header:** 'ORACLE JD Edwards World' with navigation links for URL, Document, Email, World Resources, and Support.
- Left Panel:** A list of help and navigation options including 'Field Sensitive Help', 'Display Error Message', 'Exit Program', 'Reposition Window', 'Cost Revisions/Speed', 'Return to Previous Panel', 'Previous', 'Next', and 'Clear Screen'.
- Main Form:**
 - Action Code:** []
 - Item Number:** 0001
 - Branch/Plant:** M30
 - Cost Method to Update:** Last In
 - Amount Type (A % *):** []
 - Increase / Decrease Amount:** []
 - Unit Cost:** 16.1500
- Table:**

0	Location	Lot	Unit Cost	On Hand	Extended Cost.
[]			16.1500		
- Footer:** 'Weighted Average .0000' and function key shortcuts: 'Opt: I=Components 9=Delete F10=Speed F19=Previous F20=Next F24=More'.

1. To locate current cost information for an item, complete the following fields:
 - Item Number
 - Branch/Plant (if applicable)
 - Cost Method to Update
2. Complete the following fields:
 - Increase/Decrease Amount
 - Amount Type (A % *)
 - Unit Cost

Field	Explanation
Increase / Decrease Amount:	<p>The dollar amount or percentage by which you want to increase or decrease unit costs for items. You can also indicate a different amount to override current unit costs. The value you specify in the Amount Type field determines whether you enter an amount or a percentage.</p> <p>Note: Enter percentages as whole numbers. For example, enter 10 to increase costs by 10%. To decrease costs, enter a negative sign before the number. For example, enter -10 to decrease costs by 10%.</p> <p><i>Form-specific information</i></p> <p>The system changes all costs for all locations.</p>
Unit Cost	<p>Depending on the cost method, this data can come from various sources, for example, purchasing or the cost rollup.</p> <p><i>Form-specific information</i></p> <p>The cost for one unit of this item, based on the corresponding cost method.</p>
Amount Type (A % *)	<p>A code that indicates whether the number in the Increase/Decrease Amount field is an actual amount or a percentage value. Valid codes are:</p> <p>A – Amount</p> <p>% – Percentage</p> <p>* – Cost Override Amount</p>

9.4.1 What You Should Know About

Topic	Description
Displayed information	<p>The information that appears on Speed Cost Maintenance depends on the cost level for the item. For example, if an item has a cost level of 2, the system displays costs for all branch/plants. If an item has a cost level of 3, the system displays costs for all locations at the branch/plant you specify.</p> <p>See Section 3.5, "Setting Up Item Costs."</p>

9.4.2 Processing Options

See [Section 23.2, "Item Cost Revisions \(P4105\)."](#)

Part II

Product Costing in ERPx Environment

This part contains these chapters:

- [Chapter 10, "Overview to Product Costing in ERPx Environments,"](#)
- [Chapter 11, "Understand Batch Product Costing,"](#)
- [Chapter 12, "Understand Product Costing for Planning Items,"](#)
- [Chapter 13, "Work with Process Industry Costing,"](#)
- [Chapter 14, "Understand Configured Items."](#)

Overview to Product Costing in ERPx Environments

This chapter contains these topics:

- [Section 10.1, "Objectives,"](#)
- [Section 10.2, "About Product Costing in ERPx Environments."](#)

10.1 Objectives

- To learn how batches must be set up to calculate costs correctly
- To understand how kit items are costed
- To understand how co-/by-products are costed at an operation level
- To understand how configured items are costed

10.2 About Product Costing in ERPx Environments

If you use the Product Costing system in any special environment (using batches, kits, rate schedules, processes, or configured items), the system calculates product costs differently.

Understanding product costing in ERPx environments requires the following:

- Understanding batch product costing
- Understanding product costing for kit items
- Working with process industry costing
- Understanding configured items

Understand Batch Product Costing

This section contains the topic:

- [Section 11.1, "About Batch Product Costing."](#)

11.1 About Batch Product Costing

For bills of material and routings, you can have a batch quantity for products that are normally built in specific batch sizes, such as chemicals, food, or petroleum.

To obtain a correct rollup when you use a batch quantity, the accounting cost quantity, the bill of material batch size, and the routing batch size must match, as follows:

- Labor and overhead costs are rolled up only if the accounting cost quantity and the routing batch size match.
- Material costs are rolled up only if the accounting cost quantity and the bill of material batch size match.

The following table illustrates these possibilities.

Accounting Cost Quantity	Bill Batch Size	Routing Batch Size	Rollup
10,000	10,000	10,000	Complete
5,000	10,000	10,000	None
10,000	5,000	10,000	Labor and Overhead Only
10,000	10,000	5,000	Material Only

If the Simulate Cost Rollup program does not find a bill of material whose batch quantity matches the accounting cost quantity, it uses the zero batch bill. ACQ is the primary UOM.

11.1.1 What You Should Know About

Topic	Description
Displayed quantities	Quantities displayed on Costed Bill are expressed per each unit of measure, not batch quantity. Amounts displayed on Enter/Change Cost Component are expressed in per each primary unit of measure.

See Also:

- Working with Bills of Material in the *JD Edwards World Product Data Management - Discrete Guide*.

Understand Product Costing for Planning Items

This chapter contains the topic:

- [Section 12.1, "About Product Costing for Planning Items."](#)

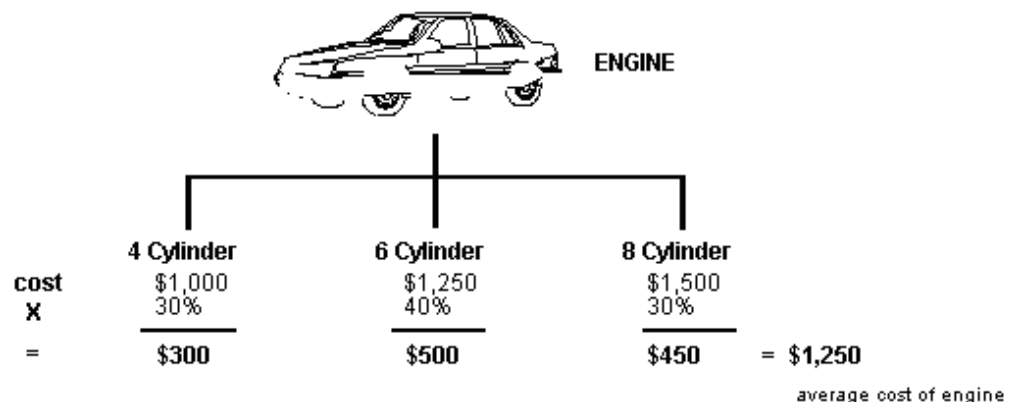
12.1 About Product Costing for Planning Items

When you use planning bills to support forecasting with options, the Simulate Cost Rollup program calculates the average cost of the parent phantom based on the feature costing percentage, as follows:

- The parent phantom must have a stocking type of M (manufactured). The options can be manufactured or purchased.
- The feature costing percentages of the components are user defined on the bill of material.
- The Simulate Cost Rollup program multiplies the feature costing percentage by the cost of the option (from the branch/plant table) to determine the option's share of the parent phantom's average cost.
- The program then adds dollar amounts for each option to determine the average cost for the parent phantom.

The following diagram illustrates an example of product costing for a kit item.

Figure 12-1 Product Costing for a Kit Item



12.1.1 Non-Stock Kit Items

When a non-stock item is included as part of kit, the cost and price records (F4105 and F4106) for the non-stock items are not used with kit components. Since the item cost and price records are not used by the system, the sales order process looks to the Bill of Material Unit Cost and Unit Price fields when a sales order for a kit containing the non-stock item is created.

When a non-stock item is set up in the Item Master the system does not require an Item Branch / Plant record. That non-stock item may be included as a component of a kit. If the component is added to a kit, the Enter / Change Bill of Material program (P3002) may require a branch record if processing option # 1 in P3002 is turned on to validate for an Item Branch/Plant record.

These fields are not used for any manufacturing costing or accounting. These fields are only used for costing / pricing on sales orders when a non-stock item is part of a kit.

Non-stock items cannot be sold independently (as a stand-alone item) because the sales order process looks for a location record and location records cannot be created for non-stock items.

The setup of a non-stock item in a kit involves the following Item Master information:

- Stocking type N
- Line type N

Note: JD Edwards World recommends leaving Processing Option #1 for P3002 off, or the system requires an Item/Branch record in order for the item to be listed on the kit Bill of Material. The F4105 and F4106 records do not need to be populated and are not used.

See Also:

- Entering Planning Bills in the *JD Edwards World Forecasting Guide*.

Work with Process Industry Costing

This chapter contains these topics:

- Section 13.1, "Working with Process Industry Costing,"
- Section 13.2, "Reviewing Product Costing for Processes,"
- Section 13.3, "Reviewing Product Costing for Intermediates,"
- Section 13.4, "Reviewing Product Costing for Ingredients,"
- Section 13.5, "Reviewing Product Costing for Co- and By-Products,"
- Section 13.6, "Calculating Costs for Co- and By-Products,"
- Section 13.7, "Reviewing a Costed Process,"
- Section 13.8, "Reviewing Product Costing for Percent Bills of Material."

13.1 Working with Process Industry Costing

Process manufacturing creates a product by mixing, separating, forming, or performing chemical reactions. This is usually a two-step procedure, which consists of a mixing or blending step, followed by a filling or packaging step. This type of manufacturing can also include intermediate steps, such as curing, baking, or fermenting.

Process manufacturing companies create a variety of items, including:

- Liquids
- Fibers
- Powders
- Gases

Pharmaceuticals, foods, and beverages are specific examples.

A process includes ingredients (equivalent to parts on a work order) and a process routing or recipe. The output from a process includes intermediates, by-products, and co-products.

Output	Description
Intermediate	The output from an operation that is used as the input to the next operation. There is no cost associated with an intermediate.
By-Product	The material produced incidental to or as a residual of the process.

Output	Description
Co-Product	An end item produced as a result of the process. There are usually two or more co-products from a process.

The following illustrates an example of a process.

Figure 13-1 Process - Potato Chips



Process - Potato Chips

Ingredients	Routing	Co-product and By-product
Potato Slices	10 Starch wash potatoes	
	20 Drain water	BY → Waste Water
	30 Add water, soak	
	40 Drain water	BY → Waste Water
Frying Oil	50 Deep fry	BY → Used Frying Oil
Seasoning	60 Add seasoning	
	70 Package	
Nitrogen	80 Add preservatives	CO → Potato Chips

You define a process item with ingredient relationships. These relationships also determine co-products, by-products, intermediates, and substitutions.

You define the steps that are required to produce a manufactured item with process routings. These routings also determine work centers and labor standards.

This section contains the following:

- Reviewing Product Costing for Processes
- Reviewing Product Costing for Intermediates
- Reviewing Product Costing for Ingredients
- Reviewing Product Costing for Co- and By-Products
- Calculating Costs for Co- and By-Products
- Reviewing a Costed Process
- Reviewing Product Costing for Percent Bills of Material

See Also:

- About Process Manufacturing in the *JD Edwards World Shop Floor Control - Process Guide*.

13.2 Reviewing Product Costing for Processes

Navigation

From Product Data Management (G30), choose Daily PDM Process

From Daily PDM Process (G3012), choose Enter/Change Process

Review process manufacturing to note the differences from discrete manufacturing in the input and output of costing.

To review product costing for a process

On Enter/Change Process

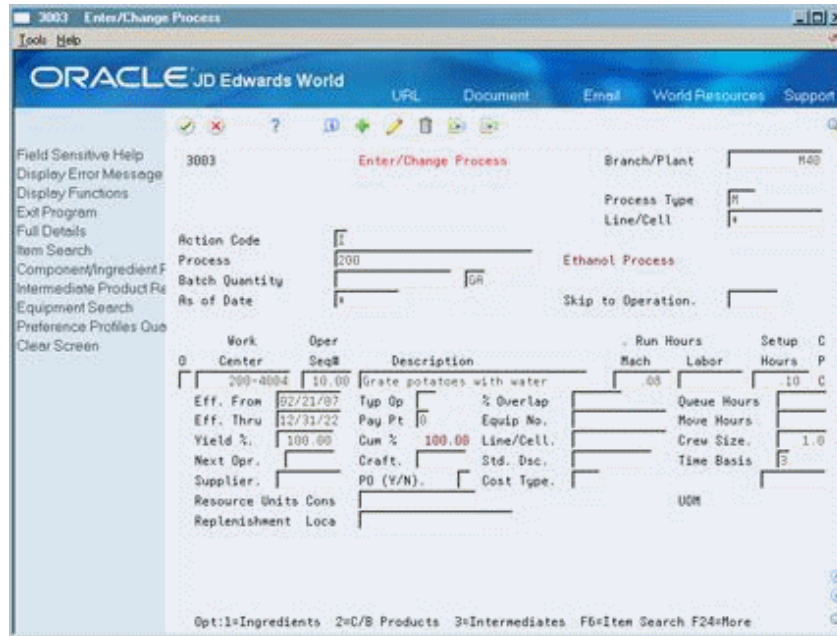
Figure 13–2 Enter/Change Process screen

Work Center	Oper Seq#	Description	Run Hours			C
			Mach	Labor	Hours	
200-4004	10.00	Grate potatoes with water	.05		10	C
200-4004	20.00	Add liquids from other process		10		C
200-4011	30.00	Transfer liquid to vats		.20		C
200-4011	40.00	Add yeast killer		.01		C
200-4013	50.00	Transfer to fermentation	3.00			C
200-4012	60.00	Separate solids from liquids		1.00		P
200-4014	70.00	Distillation of liquids	6.00			C
200-4014	80.00	Add contaminants		.30		C

Opt:1=Ingredients 2=C/B Products 3=Intermediates F6=Item Search F24=More

- Review the following fields:
 - Machine Run Hours
 - Labor Run Hours
 - Setup Hours
- Access the detail area (F4).

Figure 13–3 Enter/Change Process (Detail) screen



3. Review the following fields:

- Time Basis
- Crew Size
- Cost Type
- Type of Operation
- Yield Percent
- Cumulative Percent

Field	Explanation
Yield %	Represents the planned output yield percent for a step. The Planned Yield Update program uses this value to update the Cumulative Percent in the bill of material and the Operation Scrap Percent in the routing. Materials Requirements Planning uses the step scrap percent and the existing component scrap percent to plan component demand.
Cum %	Represents the cumulative planned output yield percent for a step. The system uses this value to adjust the operation step scrap percent for the components at that operation step. This enables the MRP system to use the operation step scrap percent along with the existing component scrap percent to plan component demand.

13.3 Reviewing Product Costing for Intermediates

Navigation

From Product Data Management (G30), choose Daily PDM Process

From Daily PDM Process (G3012), choose Enter/Change Process

An intermediate is the product of an operation. This product is not the end item of the process, but an input to the next operation. You define intermediates when you need to express them in a unit of measure different from that of the parent item, or when you need to track the quantity of materials at each operation. Only one intermediate is allowed per operation. You cannot define an intermediate for the last operation, because the output of the last operation is the end item of the process.

An example of an intermediate is fermented liquid. The liquid ferments for an extended period of time before being distilled. The resulting liquid is not a finished product. Rather, it proceeds to the next operation.

If you define an intermediate item at a particular operation, you also establish a ratio between the intermediate quantity and the parent quantity. The system uses this ratio for costing the operation. A direct relationship exists among hours, the time basis, parent batch quantity, and intermediate operation quantity.

The system uses intermediate quantities to cost only direct labor hours (cost component B1) and direct machine hours (B3) from the routing. These hours are then used to calculate efficiency (B4) and overhead (C1-C4).

The labor and machine hours at an operation with an intermediate are the hours to produce one unit of measure of the intermediate. The hours are then adjusted in the rollup by the total quantity of intermediates produced at that operation. The following example illustrates the effect of intermediates on costing:

Operation 10

Labor Hours = 5

Intermediate quantity produced = 50 pounds

Hours for costing = 5 x 50 = 250

See Also:

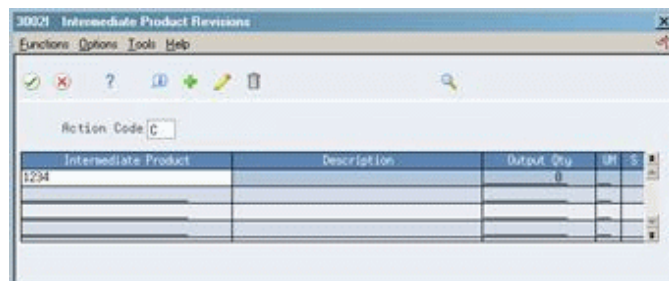
- *Attaching the Intermediate Items in the JD Edwards World Shop Floor Control - Process Guide.*

To review product costing for an intermediate

On Enter/Change Process

1. Access Intermediate Product Revisions (F9).

Figure 13-4 Intermediate Product Revisions screen



2. On Intermediate Product Revisions, review the following fields:
 - Output Quantity
 - Operation Sequence Number

Field	Explanation
Output Qty	<p>The number of units to which the system applies the transaction.</p> <p><i>Form-specific information</i></p> <p>The quantity of an intermediate produced at the current step in the process.</p>
Op Seq	<p>In routings, this number is used to sequence the fabrication or assembly steps in the manufacture of an item. You can track costs and charge time by operation.</p> <p>In bills of material, this number designates the routing step in the fabrication or assembly process that requires a specified component part. You define the operation sequence after you create the routing for the item. The Shop Floor Control system uses this field in the backflush/preflush by operation process.</p> <p>In engineering change orders, this number is used to sequence the assembly steps for the engineering change.</p> <p>Skip To fields allow you to enter an operation sequence that you want to begin the display of information.</p> <p>You can use decimals to add steps between existing steps. For example, use 12.5 to add a step between steps 12 and 13.</p> <p><i>Form-specific information</i></p> <p>In the process industry, the sequence number that produces the intermediate product.</p>

13.4 Reviewing Product Costing for Ingredients

Navigation

From Product Data Management (G30), choose Daily PDM Process

From Daily PDM Process (G3012), choose Enter/Change Process

Ingredients are the components of a process. You attach an ingredients list to a process (in the same way that you attach a parts list to a routing) as part of setup.

To review product costing for ingredients

On Enter/Change Process

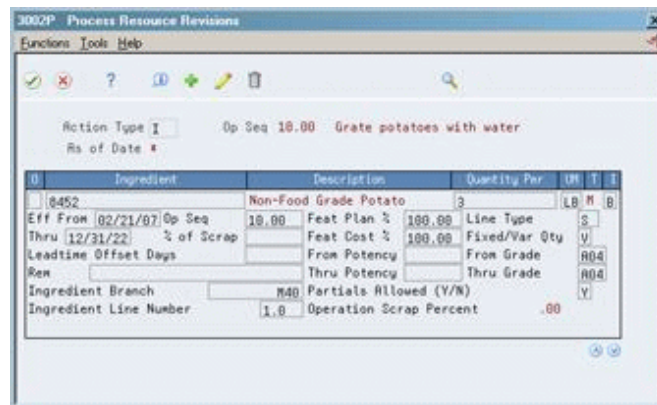
1. Access Process Resource Revisions for Ingredients (Option 1).

Figure 13–5 Process Resource Revisions screen



2. On Process Resource Revisions, review the following fields:
 - Ingredient
 - Quantity Per
 - Unit Of Measure
3. Access the detail area (F4).

Figure 13–6 Process Resource Revisions (Detail) screen



4. Review the following fields:
 - Fixed or Variable
 - Feature Cost Percent
 - Percent of Scrap
 - Operation Scrap Percent

13.5 Reviewing Product Costing for Co- and By-Products

Navigation

From Product Data Management (G30), choose Daily PDM Process

From Daily PDM Process (G3012), choose Enter/Change Process

Co-products are produced, usually together, as a result of a process routing. They are normally the main products (end items) that are then sold to customers.

A by-product is a material of value produced incidental to or as a residual of the production process. By-products can be recycled, sold as-is, or used for other purposes.

Co-products and by-products are costed using the Feature Cost Percent field.

13.5.1 Example: Feature Cost Percent and Co-/By-Product Costing (Release A9.3 Update)

In the following example:

- Cumulative cost = cost this operation + cost of previous operation - cost of the co-/by-product produced in the previous operation.
- The total of all percentages at an operation cannot exceed 100%.

- The total of all percentages at the last operation must equal 100%.

Operation	Co-/By-Product	%	Cost This Operation	Cumulative Cost	Co-/By-Product Cost
10	By 1	10	100.00	100.00	10.00
20	Co 1	30	100.00	100.00 + (100.00 - 10.00) = 190.00	57.00
Co 2	20	38.00			
30	100.00	100.00 + (190.00 - 95.00) = 195.00			
40	Co 1	60	100.00	100.00 + 195.00 = 295.00	177.00
Co 2	30	88.50			
Co 3	10	29.50			

To review product costing for co-/by-products

On Enter/Change Process

1. Access Process Resource Revisions for Co-/By-products (Option 2).
2. On Process Resource Revisions, review the following fields:
 - Output Quantity
 - Unit Of Measure
 - Feature Cost Percent
 - Effective
 - Resource Percent

Field	Explanation
Output Qty	<p>This value is the normal production quantity that is usually manufactured. An item can have multiple batch quantities, for example, liquids that are manufactured in different size vats.</p> <p><i>Form-specific information</i></p> <p>This value specifies the quantity of each co-/by-product that the process produces. If you use batch bills, this is the quantity that the batch produces.</p>
UM	A user defined code (00/UM) that indicates the quantity in which to express an inventory item, for example, CS (case) or BX (box).

Field	Explanation
Feat Cost %	<p>A percentage used by the Simulate Cost Rollup program to calculate the cost of a feature or option item as a percentage of the total cost of the parent.</p> <p>Enter the percentage as a whole number: 5% as 5.0</p> <p><i>Form-specific information</i></p> <p>This value is used in Cost Rollup to calculate what percent of the cost, up to and including the operation, that the co-/by-product comes out of, is apportioned to the co-/by-products at that step.</p> <p>The total of all percentages at an operation cannot exceed 100%. The total of all percentages at the last operation must equal 100%.</p>
Effective	<p>The date on which a lot becomes available. The system uses this date for availability and commitment processing to indicate that the lot is available on or after the date that you specify. You must complete this field when inventory first becomes an on-hand quantity for the lot. If you leave this field blank, the system calculates the effective date of the lot by using the value for Effective Days in the Item Branch Master (F4102) or the current date if the value for Effective Days is zero.</p>
Resource %	<p>If this option is chosen, this value indicates what percent of the ingredients should be issued separately to co-products and by-products.</p> <p><i>Form-specific information</i></p> <p>This is used to issue ingredients separately to co-/by-products at work order completion, rather than a total issue for each ingredient.</p> <p>For co-/by-products at the final operation, their resource percent must equal 100 to issue all ingredients.</p>

13.5.2 What You Should Know About

Topic	Description
Feat Cost %	<p>When a Co/By-Product has Feature Cost % set to 0.00 %, the Cost Simulation program P30820 retrieves the cost for the Co/By-Product from the cost setup in Item Cost Revisions (P4105). If a cost is defined for the zero feature cost percent Co/By-Product in the P4105, it is utilized by the system and is considered a fixed cost. If zero cost is required, set up the P4105 with zero cost.</p>

To set up the Co-/By-Products Planning Table

Navigation

From Product Costing Setup (G3042), choose Co-/By-Products Planning Table

This table tells the system which processes to use to calculate the costs of co/by products (Cost %), as well as which processes to use to satisfy MRP demand for co-products (Plan %).

Normally, all demand for co-/by-products is satisfied from process work orders. However, for special circumstances, you can specify, for example, 50% from process work orders and 50% from co-product work orders themselves. To do so, enter less

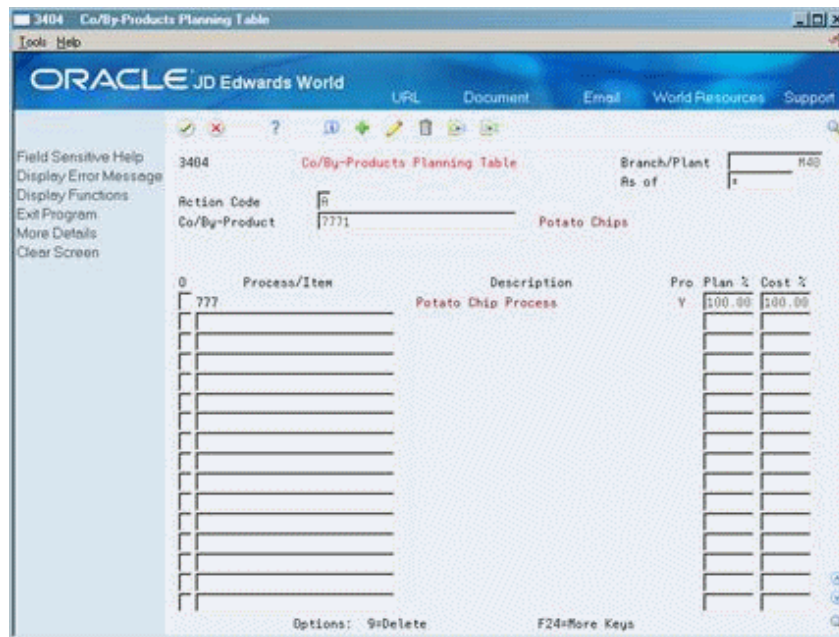
than 100% in the table. The remainder is automatically satisfied by co-product work orders.

Sometimes there will be more than one process that produces a co- or by-product. The cost for the co- or by-product from each process can then be allocated using the Co/By-Products Planning Table. This allows for assigning a weight to the costs from each process. For example, you may have a co-product that is produced by two processes. One process is the normal manufacturing process used 90% of the time. A second process is only used 10% of the time for rush orders, but the costs are much higher to produce this process. In the Co/By-Products Planning Table, the cost % is set to 90% for the first process, and 10% for the second. This allows the co-product's standard cost to reflect the extra costs that are incurred 10% of the time.

Even if all demand for co-/by-products is satisfied from process work orders, you must set up the co-/by-products planning table with a feature cost percent equal to 100. This ensures that the rollup calculates the costs of co- and by-products correctly.

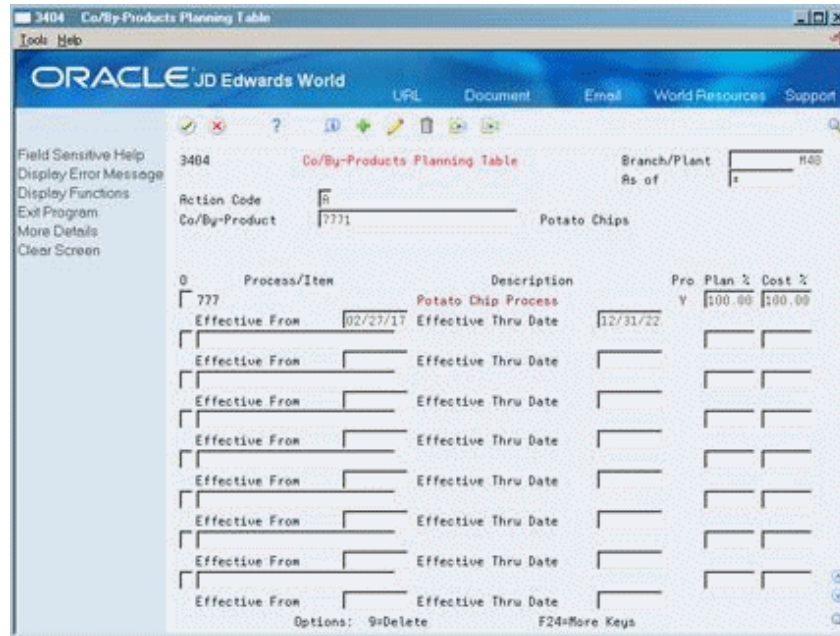
On Co/By-Products Planning Table

Figure 13–7 Co/By-Products Planning Table screen



1. Complete the following fields:
 - Co/By-Product
 - Process/Item
 - Pro (Process)
 - Planned %
 - Cost %
2. Access the detail area (F4).

Figure 13–8 Co/By-Products Planning Table (Detail) screen



3. Complete the following fields:

- Effective From
- Effective Thru Date

Field	Explanation
Co/By-Product	A number that the system assigns to an item. It can be in short, long, or 3rd item number format.
Process Item	This field indicates whether this is a process from which the co- or by-product is produced or a regular parent item.
Plan %	The percentage of demand for a specified feature based on projected sales. For example, a company might sell 35% of their computers with a standard keyboard and 65% of them with an extended keyboard, based on customer demand. The Material Planning system uses this percentage to accurately plan for a feature's component items. Enter percents as whole numbers: 5% as 5.0. The default value is 100%.
Cost %	A percentage used by the Simulate Cost Rollup program to calculate the cost of a feature or option item as a percentage of the total cost of the parent. Enter the percentage as a whole number: 5% as 5.0 <i>Form-specific information</i> Used to calculate the cost of a co-/by-product when it can be produced from more than one process, or from a combination of a process and a work order. This value determines what percent of the cost of the co-/by-product is allocated to the selected process.

13.6 Calculating Costs for Co- and By-Products

Navigation

From Manufacturing Systems (G3), choose Product Data Management

From Product Data Management (G30), choose Daily PDM Process

From Daily PDM Process (G3014), Choose Simulate Rollup

When you run the Cost Rollup the program (P30820), the system rolls up all of the costs for a process, as in the roll up of a discrete item. However, the process rollup involves more than a single end item, therefore, the system must calculate costs for co- and by-products.

You can use processing option 8 in P30820 to instruct the system to calculate costs for co- and by-products. When this processing option is turned on, the program divides the costs for the process into the co- and by-products according to the co- and by-product output quantity set up in the Process Resource Revisions screen (3002P). This gives the cost for the co/by product as it is produced in this process. The program then looks at the cost percentages in the co/by products planning table to allocate the cost from each process this co/by product is produced by to come up with a standard cost for the co/by product.

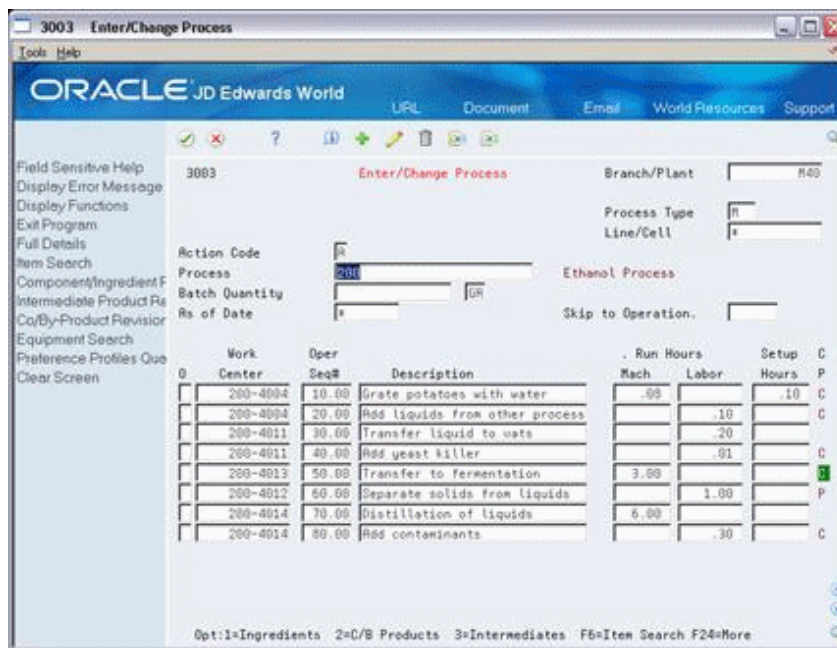
You can use processing option 10 to indicate that the costs of Co/By Products used as ingredients/components should not be cleared and recalculated.

To set up co- and by-products for a process

From Manufacturing Systems (G3), choose Product Data Management From Product Data Management (G30), choose Daily PDM Process From Daily PDM Process (G3012), Choose Enter/Change Process

On Enter / Change Process

Figure 13–9 Enter/Change Process (Co- and By-Products) screen



1. Complete the following fields:

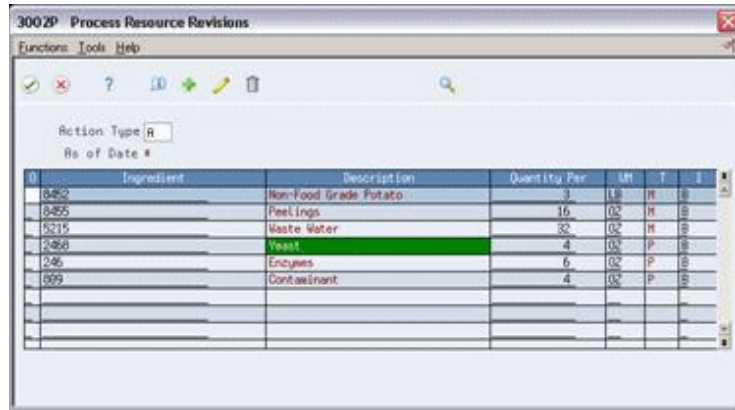
- Branch/Plant
 - Process Type
 - Process
 - Batch Quantity (Measure of Unit)
2. For each work center, complete the following fields:
 - Work Center
 - Oper Seq#
 - Description
 - Run Hours - Machine or Labor (as appropriate)
 - Setup Hours
 3. Choose Co/By Product Revisions (F10). The Process Resource Revisions screen displays with the Co/By Product fields.

Figure 13–10 Process Resource Revisions (Co- and By-Products) screen

C	Co/By Product	Description	Output Qty	UM	T
C	2201	Potato solids	50	OZ	H
C	2001	Ethanol	1	GA	H

4. For each co- or by-product to include, complete the following fields:
 - C (Co-Product, By-Product, or Intermediate)
 - Co/By Product (Item Number)
 - Description
 - Output Qty
 - UM
 - T (Stocking Type)
5. Choose Component/Ingredient Revisions (F8). The Process Resource Revisions screen displays with the Ingredient fields.

Figure 13–11 Process Resource Revisions (Component/Ingredient Revisions) screen



6. For each ingredient, complete the following fields:
 - Ingredient (Item Number)
 - Quantity Per
 - UM
 - I (Action Code)

13.7 Reviewing a Costed Process

Navigation

From **Manufacturing Systems (G3)**, choose **Product Costing**

From **Daily Product Costing (G3014)**, choose **Costed Process**

Use Costed Process to review the work center information and summarized costs of an item for each operation in the process. This information can help you effectively manage production costs. For example, you can:

- View the work center responsible for an operation.
- Determine if a work center performs multiple operations.
- Display simulated or frozen costs for labor values for cost methods.
- Calculate the totals for all costs by cost categories.
- View the costs of the ingredients.
- View the costs of the co- and by-products.
- View the costs for different quantities and units of measure. This feature allows you to simulate different scenarios and view the costing effect.

Note: The program can accumulate purchase costs for up to 999 components on each bill of material. Components beyond 999 are not included in the costing.

To review a costed process

On Costed Process

Figure 13–12 Costed Process screen

Work Center	Op Seq	Labor	Machine	Overhead	Components	Total
200-4007	10.00		.0829		.0318	.0348
200-4007	20.00	.0001				.0001
200-4007	30.00		.0829			.0039
200-4007	40.00	.0001				.0001
200-4008	50.00	.0253	.0003		.1404	.1659
200-4015	60.00	.0001			.3150	.3159
200-4016	70.00					
200-4016	80.00				.3000	.3000
		.0256	.0661	.0001	.7879	.8197

1. Review the following fields:

- As of Date
- Cost Method
- Requested Quantity
- Unit Of Measure
- Up to Operation Sequence
- Extras 1-3
- Extras 4-7
- Work Center
- Operation Sequence Number
- Labor
- Machine
- Overhead
- Components
- Total (row)
- Total (column)

Labor costs are real-time. They are calculated each time you access this form.

2. Toggle to review frozen or simulated costs (F15).

3. Access Operation Bucket Key Window to review the item's operation buckets (F11).

Figure 13–13 Operation Bucket Key Window

Labor	Machine	Overhead	Components	Extras 1-3	Extras 4-7
01	B3	C1	R1	X1	X01
02		C2	R2	X2	X02
04		C3	D1	X3	X03
		D4	D2		X04
					X05
					X06
					X07

- On Costed Process, access Costed Resources (F8).

Figure 13–14 Costed Resources screen

Requested Quantity	Purchased	Labor	Machine	Overhead	Extras Total
1 LB		.0256	.0053		.9859
. Simulated					
Totals	.7496	.2280	.0053	.0032	

You can view ingredient costs for a single operation or for all ingredients across all operations in the process. These costs are from the Cost Components table and reflect the last simulated rollup. Thus the costs might differ from those on Costed Process if you have changed the process since the last rollup.

- On Costed Process, access Costed Resources for Co-/By-Products (F10).

Figure 13–15 Costed Resources (Co-/By-Products) screen

Co-/By Product	Purchased	Simulated Labor	Machine	Overhead
2035				
2036	.1251	.1993	.0827	.0018
2035	.1251	.1993	.0827	.0018
2026	.0639	.0381	.0011	.0004
7771	.6622	.0378	.0014	
Totals	.9763	.5945	.0079	.0040

You can view co-/by-product costs for a single operation or for all co-/by-products across all operations. If the co-/by-product is made from more than one process, the costs shown are for all processes. These costs are from the Cost Components table and reflect the last simulated rollup. Thus the costs might differ from those on Costed Process if you have changed the process since the last rollup.

6. On Costed Process, access Detail to view all costs associated with an operation (Option 5).

Figure 13–16 Detail screen

Category	Type	Description	Cost
Machine	03	Machine Run	.8409
Overhead	01	Machine Variable Overhead	
Overhead	02	Machine Fixed Overhead	
Components	01	Material	.8318

Labor costs displayed are real-time. The cost components are grouped using cost buckets.

Field	Explanation
As of	This field is used for effectivity checking. Enter a specific date to display documents (orders, bills of material, routings, as applicable) that are effective on or after that date. The current system date is the default, but you can enter any future or past date. <i>Form-specific information</i> The routing that is effective as of this date is used.

Field	Explanation
Cost Method	A user defined code (system 40, type CM) that identifies a cost method. Cost methods 01 through 08 are hard-coded.
Requested Quantity	<p>The number of parent items you want to process. The system calculates lower-level values in quantity per the number of parent items requested. For example, if 3 components are needed for a parent item, and the requested quantity is 10, the system plans for 30 components.</p> <p><i>Form-specific information</i></p> <p>This is the number of parent items for which you want to see cost breakdowns. Costs are figured in quantity per the parent item.</p>
Op Seq	<p>In routings, this number is used to sequence the fabrication or assembly steps in the manufacture of an item. You can track costs and charge time by operation.</p> <p>In bills of material, this number designates the routing step in the fabrication or assembly process that requires a specified component part. You define the operation sequence after you create the routing for the item. The Shop Floor Control system uses this field in the backflush/preflush by operation process.</p> <p>In engineering change orders, this number is used to sequence the assembly steps for the engineering change.</p> <p>Skip To fields allow you to enter an operation sequence that you want to begin the display of information.</p> <p>You can use decimals to add steps between existing steps. For example, use 12.5 to add a step between steps 12 and 13.</p> <p><i>Form-specific information</i></p> <p>Top of form: A processing option controls whether "Skip to" or "Up to" operation sequence mode is in effect.</p> <p>In "Skip to" mode, the system uses an entered operation sequence number as the starting point when displaying operations, and displays the total from that point forward on the total line.</p> <p>In "Up to" mode, the system uses an entered operation sequence number as the cutoff for displaying operations. The total for all operations up to and including the operation sequence number entered appears on the total line.</p> <p>Bottom of form: The Op Seq field contains a number that indicates the order of each step in the manufacturing operation.</p>
Purchased	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 1 as defined for user defined code 30/CO, Operation Buckets. A processing option controls whether the system adds cost buckets 1 and 2 (at the top of the form) into the grand total of all costs for the parent item at the bottom of the form.</p>
Extras	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 2 as defined for user defined code 30/CO, Operation Buckets. A processing option controls whether the system adds cost buckets 1 and 2 (at the top of the form) into the grand total of all costs for the parent item at the bottom of the form.</p>

Field	Explanation
Work Center	<p>A number that identifies a branch, plant, work center, or business unit.</p> <p><i>Form-specific information</i></p> <p>This is the business unit assigned to the work center for the operation sequence listed.</p>
Labor	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 3 as defined for user defined code 30/CO, Operation Buckets. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p> <p>You also can view a detailed breakdown of the cost components added to determine the total for the work center.</p>
Machine	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 4 as defined for user defined code 30/CO, Operation Buckets. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p> <p>You also can view a detailed breakdown of the cost components added to arrive at the total for the work center.</p>
Overhead	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>Cost bucket No. 5 as defined for user defined code 30/CO, Operation Buckets. The total of this column appears at the bottom of the screen in the "Totals" row. The heading above the columns indicates which costs are displayed: frozen or simulated. You can toggle between simulated and frozen values.</p> <p>You can also view a detailed breakdown of the cost components added to arrive at the total for the work center.</p>
Total	<p>Work Amount field for the Manufacturing System.</p> <p><i>Form-specific information</i></p> <p>This column contains system-calculated totals for each row of costs, that is, for each operation sequence.</p> <p>The totals across the bottom of the screen are the totals of each cost bucket.</p> <p>The right-most bottom total is the total of all costs for the routing for an item.</p>

13.7.1 What You Should Know About

Topic	Description
Displayed costs	This program calculates the cost associated with each cost component in the same way as the Simulate Cost Rollup program.

See Also:

- [Section 6.6, "Setting Up Cost Bucket Codes for Costed Bills of Material,"](#)
- [Appendix A, "Calculations in Cost Rollup."](#)

13.7.2 Processing Options

See [Section 23.7, "Costed Routing Inquiry \(P30208\)."](#)

13.7.3 Cost Extras

Cost Extras for a process are treated differently due to the fact that they are not associated with a particular step of the process. Feature cost percentages are not used for distributing X costs (cost extras) that are entered on the process. Instead, the program determines the total of the NET ADDED B1-C4 costs for all of the co- and by-products, then determines the percentage of this total each co- and by-product comprises, and then uses this percentage to allocate the X cost.

13.7.4 Cost Extras (X Cost) on Ingredients

- If an ingredient that goes into a process has cost extras (X costs) built into it, these cost extras are allocated to the co- and by-products the same way the ingredients are allocated using the sequence where the ingredient is consumed, and the feature cost percentage of the Co/By product.

13.8 Reviewing Product Costing for Percent Bills of Material

Navigation

From Product Data Management (G30), choose Daily PDM Discrete

From Daily PDM Discrete (G3011), choose Enter/Change Bill

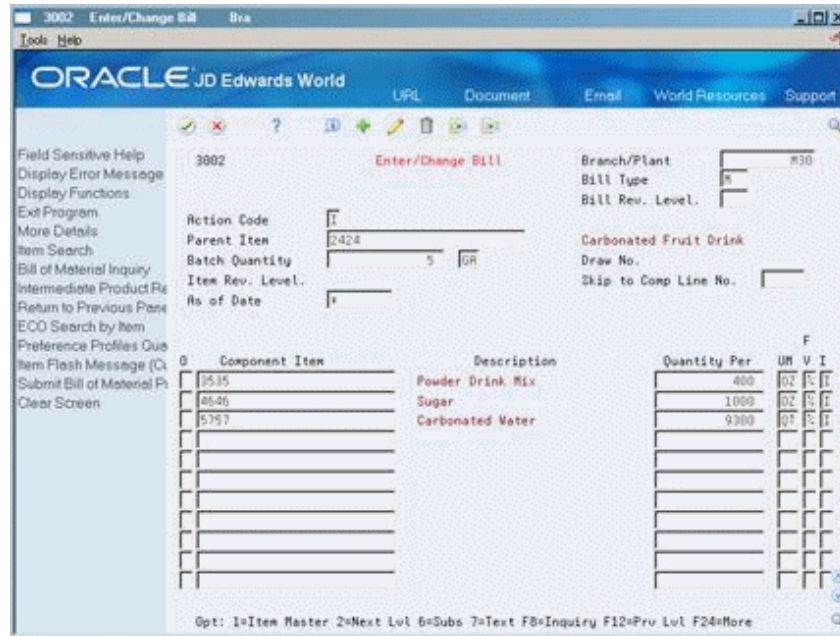
You use a percent bill of material to express the ingredients as a percentage of the process quantity.

If you use percent bills of material, the system calculates costs based on the quantities specified in the percent bill.

To review a percent bill of material

On Enter/Change Bill

Figure 13–17 Enter/Change Bill screen



Review the following fields:

- Quantity Per
- Fixed or Variable

Field	Explanation
Quantity Per	<p>The number of units to which the system applies the transaction.</p> <p><i>Form-specific information</i></p> <p>A number that indicates how many components you use to manufacture the parent item. A quantity of zero is valid. The default value is 1.</p>
F V	<p>Indicates if the quantity per assembly for an item on the bill of material varies according to the quantity of the parent item produced or is fixed regardless of the parent quantity. This value also determines if the component quantity is a percent of the parent quantity. Valid values are:</p> <p>F – Fixed Quantity V – Variable Quantity (Default) % – Quantities are expressed as a percentage and must total 100%</p> <p>For fixed quantity components, the Work Order and MRP systems do not extend the component's quantity per assembly value by the order quantity.</p> <p>For Process Manufacturing, the system stores percent components. Therefore, the system treats zero batch sizes like variable quantity components, and treats batch sizes greater than zero like fixed quantity components.</p>

See Also:

- Working with Components in the *JD Edwards World Product Data Management - Discrete Guide*.

Understand Configured Items

This chapter contains the topic:

- [Section 14.1, "About Costing for Configured Items."](#)

14.1 About Costing for Configured Items

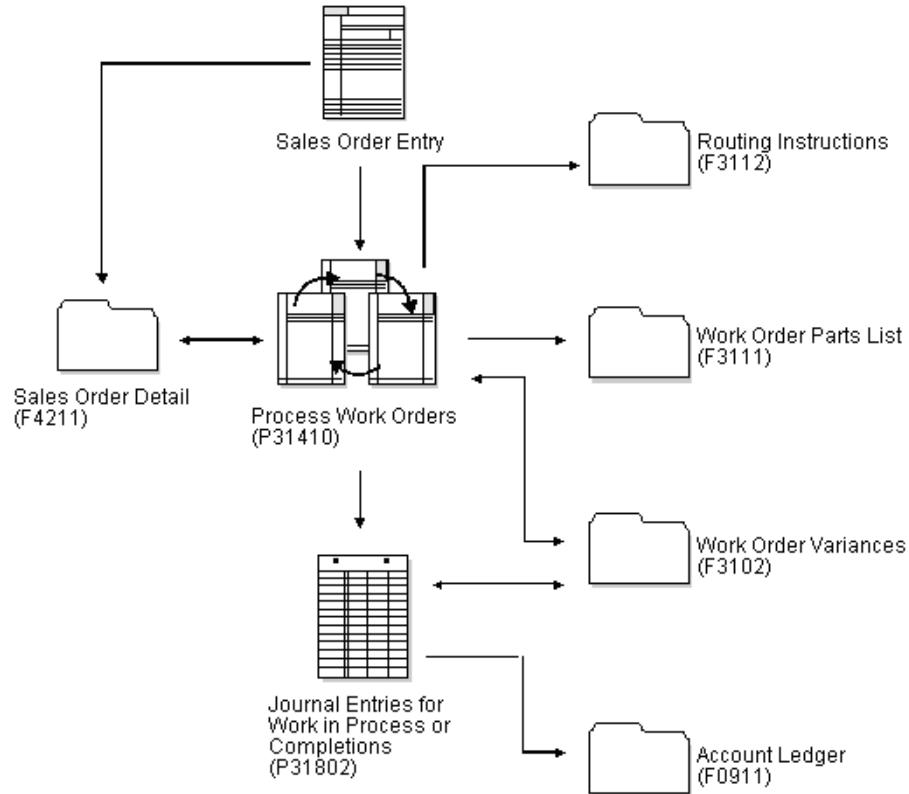
Costing for configured items is different from costing for non-configured items, because configured items do not have a standard bill of material or routing. Because there is no standard configuration, costing cannot be established before you enter the sales order. In other words, there are no standard costs for configured items.

The Process Work Orders program performs a cost rollup when it attaches a parts list and routing to a work order for a configured item. A processing option instructs the program to calculate the costs. When the costs are calculated, they are stored in the Work Order Variances table, not the Cost Components table.

When these costs have been established, the system updates the unit cost and extended cost on the sales order for the top-level configured item only.

The following graphic illustrates costing for configured items.

Figure 14-1 Costing for Configured Items

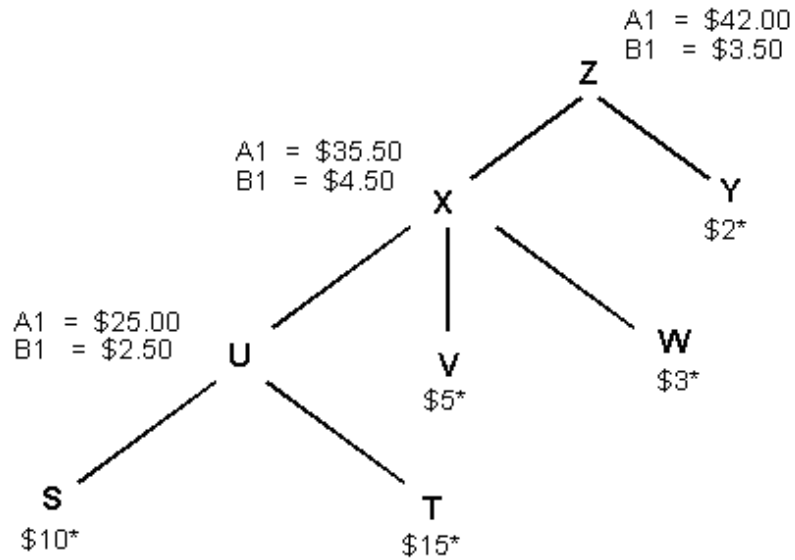


14.1.1 Example: Costing a Configured Item

The following example illustrates how the frozen standard costs are calculated for a configured item.

A basic assumption is that you have done a cost rollup for the non-configured items and that frozen standard costs exist on the Cost Components table for those items.

Figure 14-2 Frozen Standard Cost Calculations for a Configured Item



* component's total cost from sum of all cost components
 A1 material cost calculated from the total cost of the direct components
 B1 direct labor cost calculated from that item's routing

14.1.2 Process Work Orders Program

For the rollup to occur correctly, the data sequence for Process Work Orders must be set as follows.

14.1.2.1 Example: Process Work Orders Data Sequence Setup

Figure 14-3 Data Sequence Set-up screen



To ensure that the costs roll up properly, you must process work orders on the lowest level items first. In the example, you must process the work order for item U before the work order for item X, and the work order for item X before the work order for item Z.

See Also:

- *About Configuration Management in the JD Edwards World Configuration Management Guide.*

Part III

Manufacturing Accounting

This part contains these chapters:

- [Chapter 15, "Overview to Manufacturing Accounting,"](#)
- [Chapter 16, "Set Up Manufacturing Accounting,"](#)
- [Chapter 17, "Work with Work Orders,"](#)
- [Chapter 18, "Create Journal Entries,"](#)
- [Chapter 19, "Review General Ledger Batches,"](#)
- [Chapter 20, "Post to the General Ledger,"](#)
- [Chapter 21, "Define Flex Accounting,"](#)
- [Chapter 22, "Manufacturing Accounting in ERPx Environments."](#)

Overview to Manufacturing Accounting

This chapter contains these topics:

- [Section 15.1, "Objectives,"](#)
- [Section 15.2, "About Manufacturing Accounting,"](#)
- [Section 15.3, "About Flex Accounting,"](#)
- [Section 15.4, "Accounting Fundamentals,"](#)
- [Section 15.5, "Accounts and Account Numbers,"](#)
- [Section 15.6, "What is Subledger Accounting?"](#)
- [Section 15.7, "What is the Chart of Accounts?"](#)
- [Section 15.8, "What are Work Order Variances?"](#)

15.1 Objectives

- To review the basic concepts of manufacturing accounting
- To review the basic concepts of posting to the general ledger
- To understand how the general ledger and the account code structure relate to manufacturing accounting
- To understand what happens when work order transactions take place
- To learn what calculations are performed in the Manufacturing Accounting system
- To understand how work order variances are calculated and how to interpret variance reports
- To identify the available manufacturing accounting reports

15.2 About Manufacturing Accounting

The Manufacturing Accounting system works with the General Accounting system to help you manage the general ledger functions for your organization.

Working with the Manufacturing Accounting system consists of:

- Setting up manufacturing accounting
- Understanding work orders in accounting
- Working with work orders
- Creating journal entries

- Reviewing general ledger batches
- Posting to the general ledger

The following two graphics illustrate the interaction between the Manufacturing Accounting system and the General Accounting system.

Figure 15-1 Interaction Between the Manufacturing Accounting and General Accounting Systems (1 of 2)

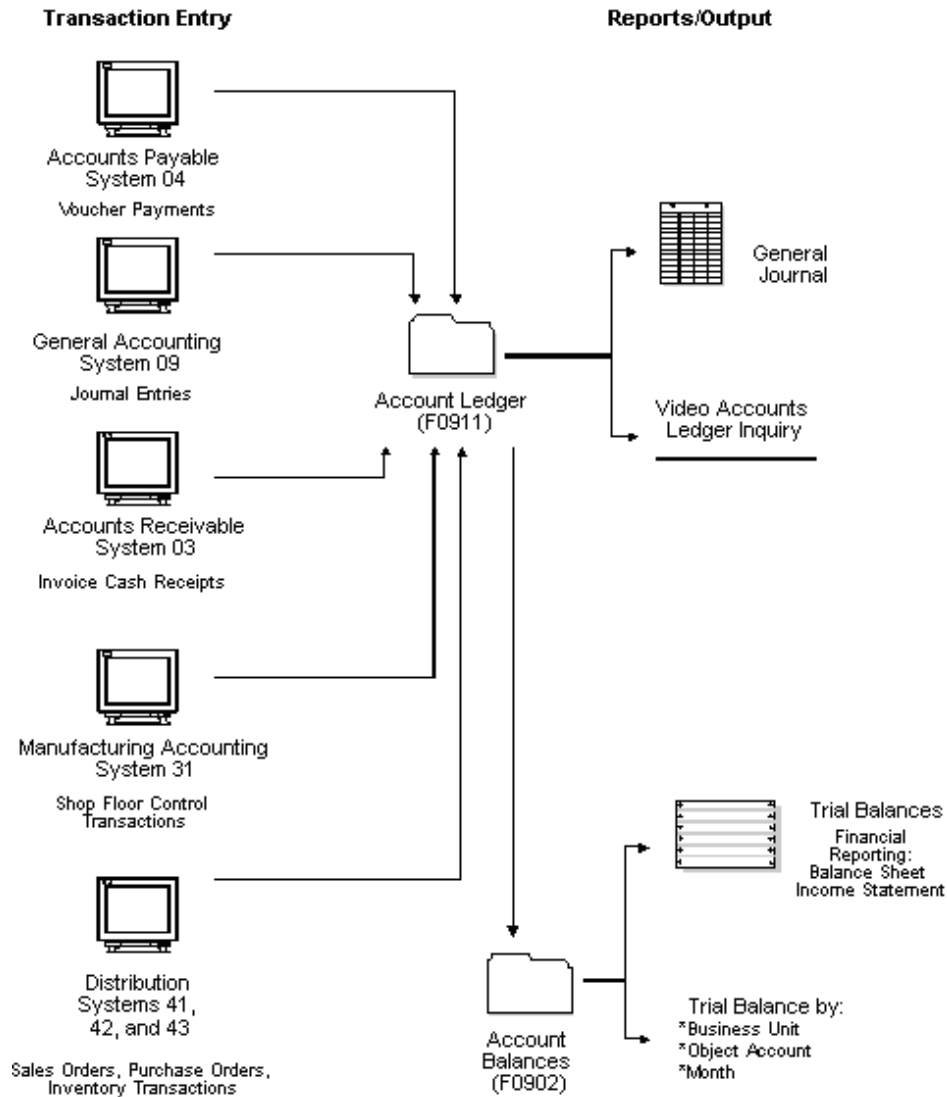
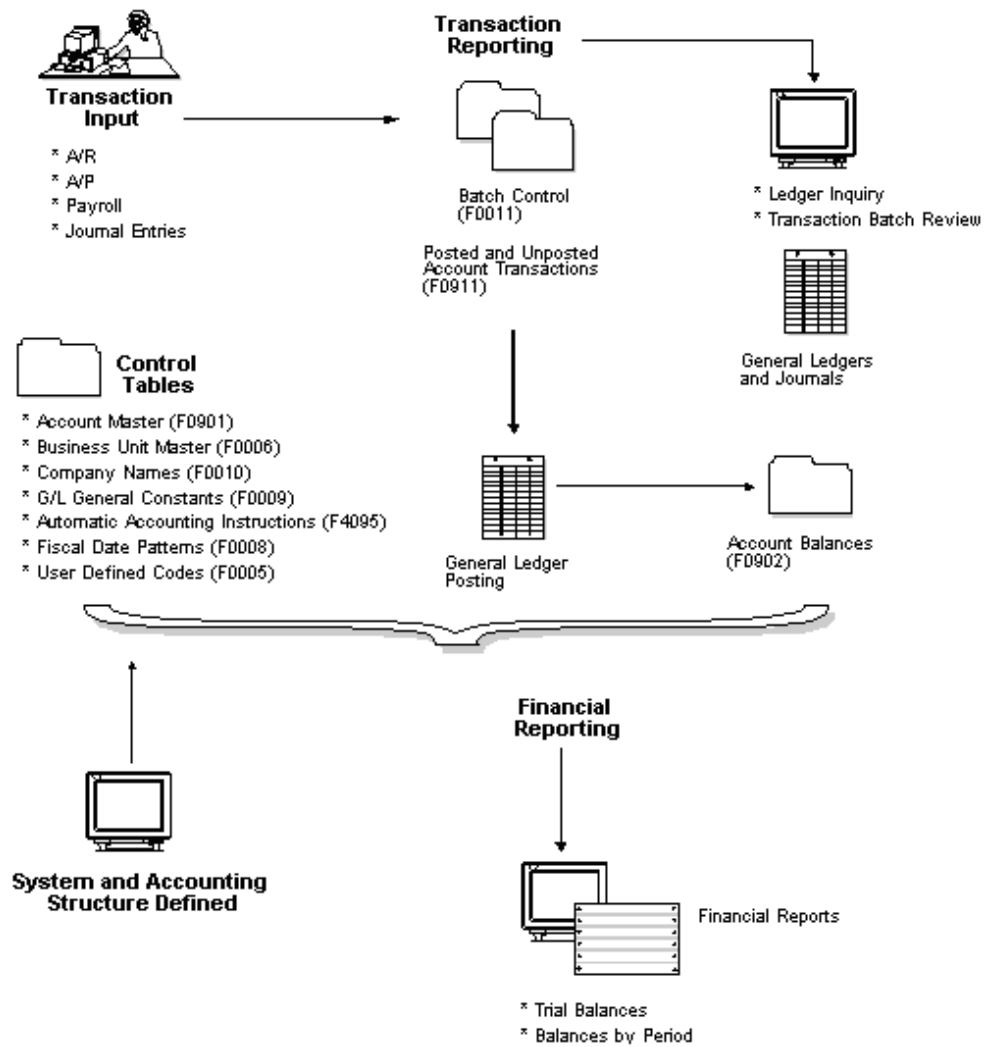


Figure 15-2 Interaction Between the Manufacturing Accounting and General Accounting Systems (2 of 2)



The following graphic (in two parts) illustrates the flow of the Manufacturing Accounting system.

Figure 15-3 Manufacturing Accounting System Flow (1 of 2)

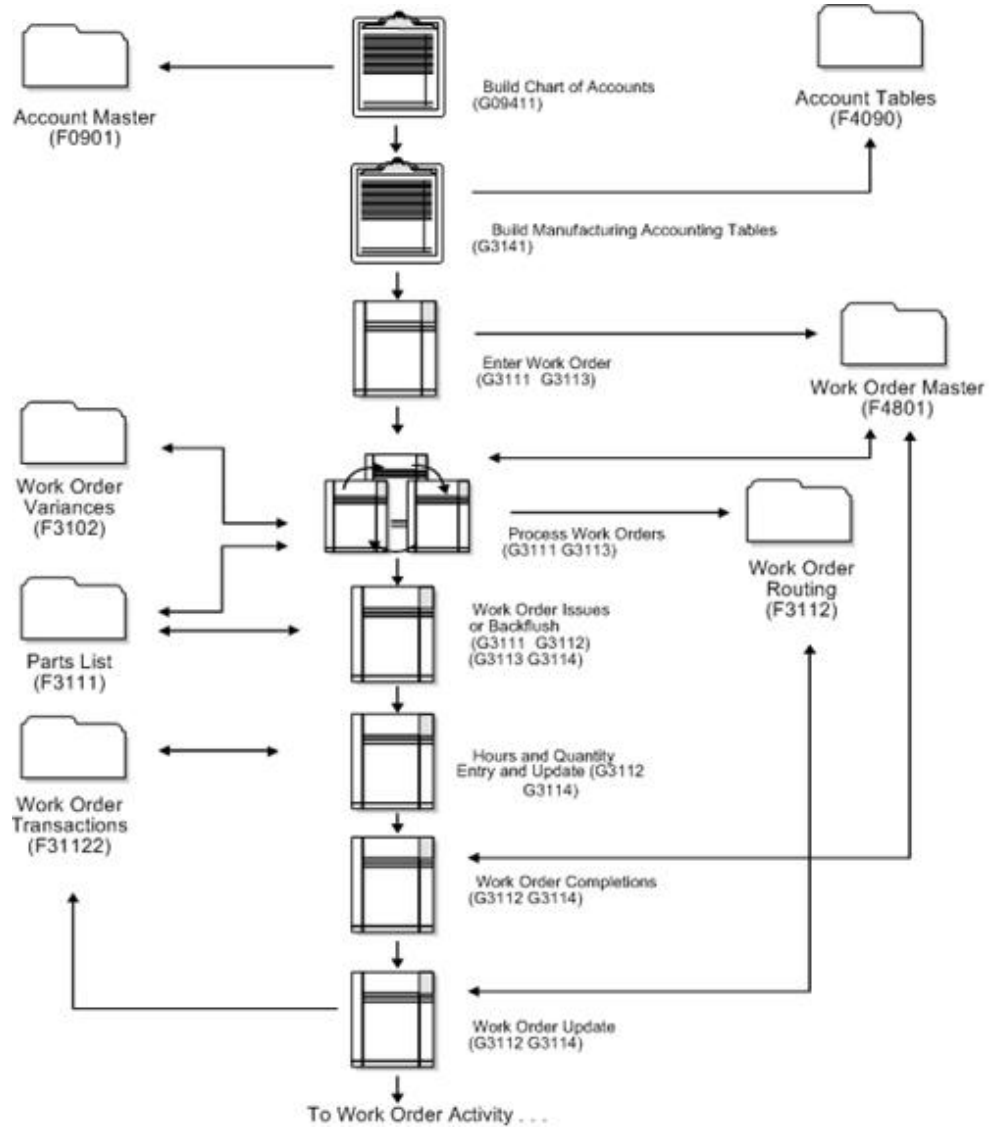
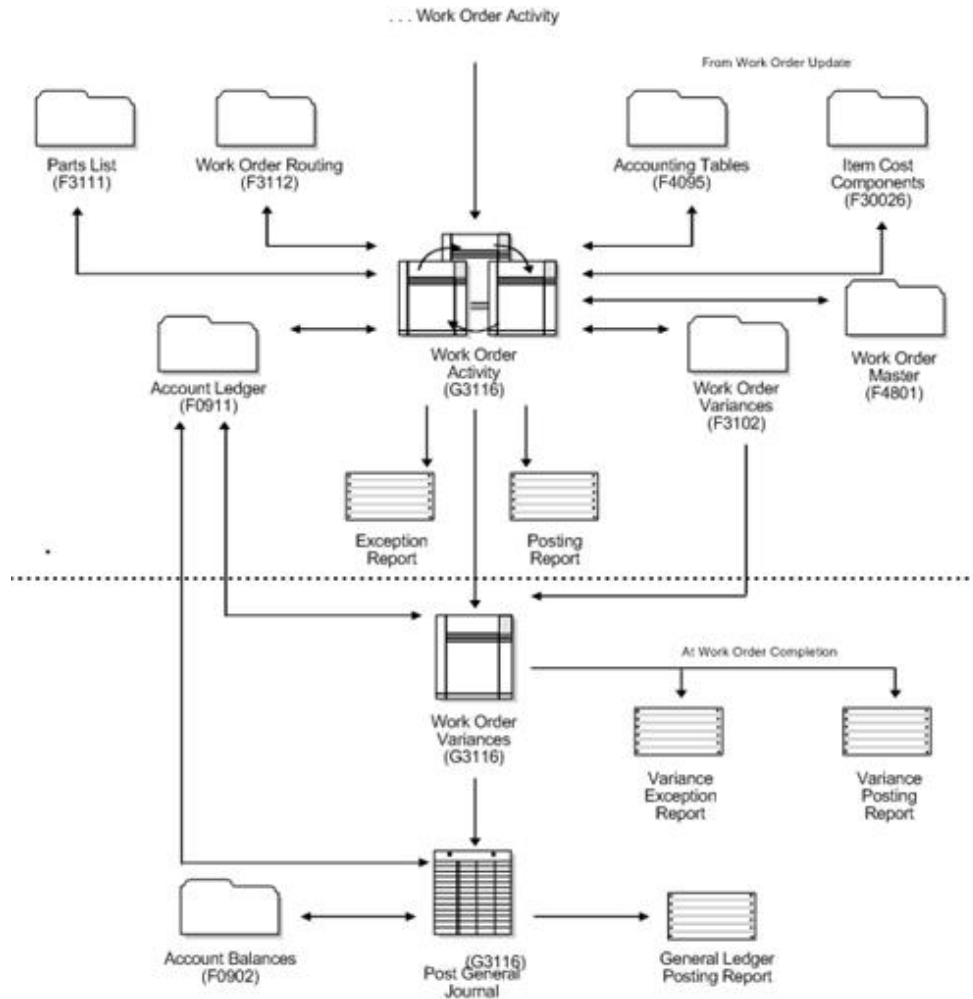


Figure 15-4 Manufacturing Accounting System Flow (2 of 2)



15.3 About Flex Accounting

Flex Accounting allows you to flex the Business Unit and Subsidiary sections of the general ledger account structure when performing a frozen cost update, WIP revaluation, manufacturing accounting, variance accounting, orderless completion accounting and actual cost close accounting.

15.4 Accounting Fundamentals

Before you set up your company's Manufacturing Accounting system, you must have a basic understanding of the general ledger and accounting concepts. After you understand the underlying framework, you can use the Manufacturing Accounting system to:

- Create and generate work orders
- Run work order variances

15.4.1 The Accounting Equation

To determine a company's net worth, you must review the results at the end of the previous fiscal period and then take into account changes that have occurred during the year.

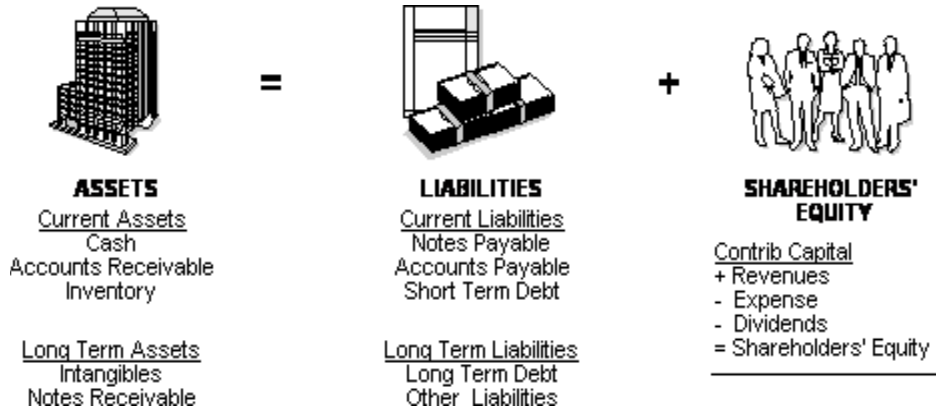
You calculate these changes with this basic accounting equation:

Figure 15-5 Accounting Equation



To extend this equation, Shareholders' Equity is equal to the change in contributed capital plus revenues, minus expenses and dividends. The complete equation is illustrated below:

Figure 15-6 Shareholder's Equity Equation

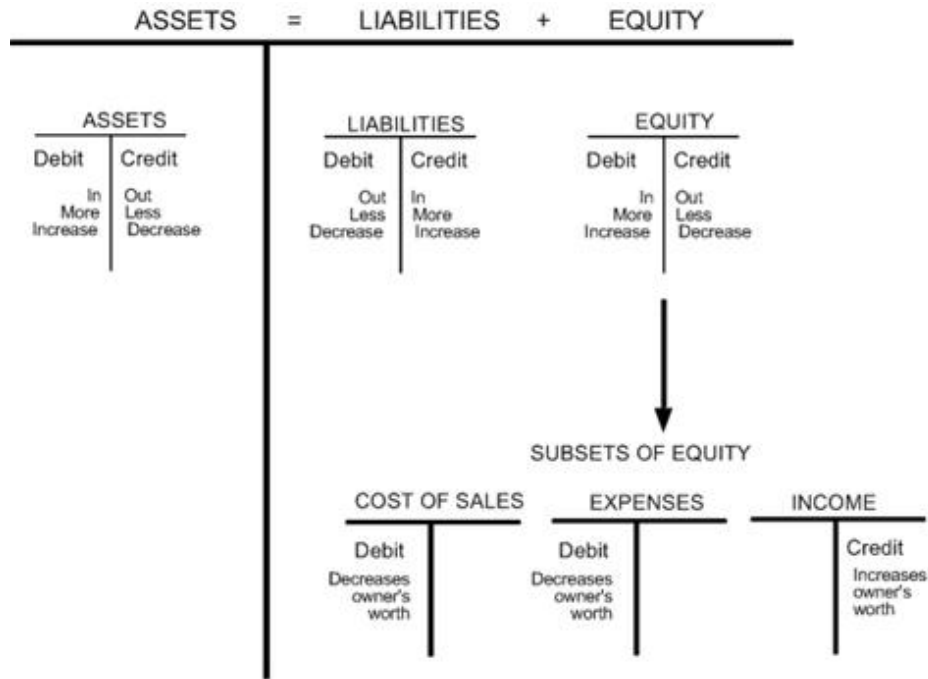


15.4.2 T-Accounts

The basis of all accounting systems is the T-account. This bookkeeping device is where you record the increases and decreases of a specific type of asset or liability caused by a business transaction.

T-accounts consist of two types of transactions-debits and credits. In the general ledger, "debit" and "credit" refer only to the position of the columns on the account. For example, you record an increase to an asset account as a debit and an increase to a liability account as a credit. Conversely, you record an increase to a revenue account as a credit and an increase to an expense account as a debit.

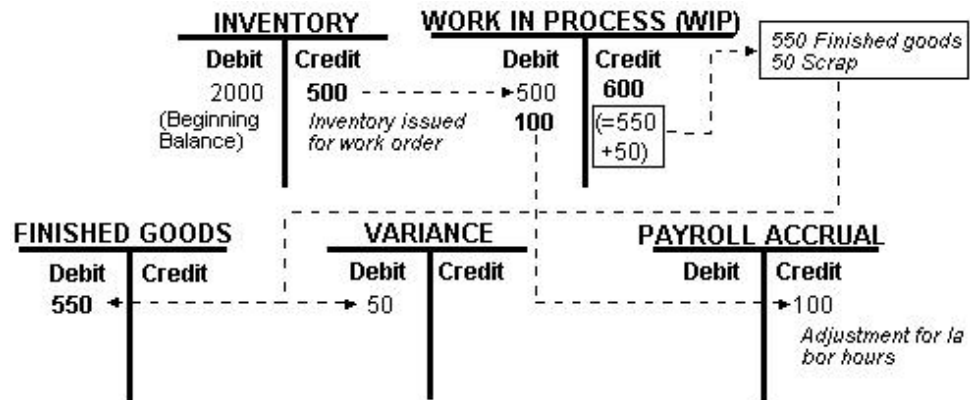
Figure 15-7 T-Accounts



15.4.3 General Ledger Transactions

The following example shows how transactions are recorded in the general ledger.

Figure 15-8 General Ledger Transactions



After work is complete, inventory transfers out of WIP to Finished Goods. The difference between the total inventory and the finished goods is the scrap, which transfers to the variance account.

15.5 Accounts and Account Numbers

The account code structure provides a method for the system to record transactions to the general ledger. When you set up your system, you must:

- Assign business unit/object/subsidiary codes
- Determine how amounts are posted

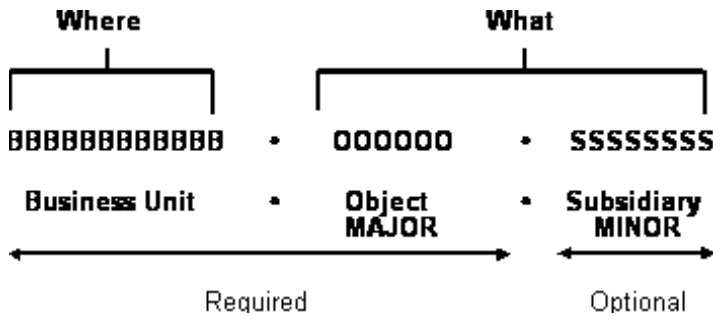
- Assign levels of detail that the system uses to structure accounts to roll up balances

15.5.1 Business Units

Business units are an important part of the basic account structure. Business units identify where general ledger activity occurs. They are the lowest organizational level within your business and the level at which you account for all revenues, expenses, assets, liabilities, and equity.

Business units of 12 alphanumeric characters are set up in the following format:

Figure 15–9 Business Units of 12 Alphanumeric Characters



A company can have several revenue and expense business units, for example:

- Department
- Machine shop
- Drill press

15.5.2 Object and Subsidiary Accounts

Every business unit you define must have an object and, optionally, subsidiary accounts. The object and subsidiary accounts define the kind of transaction you are working with (for example, rent, paper supplies, and so on). These items make up your chart of accounts.

15.5.2.1 Object - "Major Account"

The object, or major account, describes the type of transaction with which you are working. The system requires objects for each transaction entry, such as:

- Rent expense
- Service sales
- Finished goods inventory

You use up to six alphanumeric characters in this field. To make data entry more efficient, you should consider using only numbers in the object.

15.5.2.2 Subsidiary - "Minor Account"

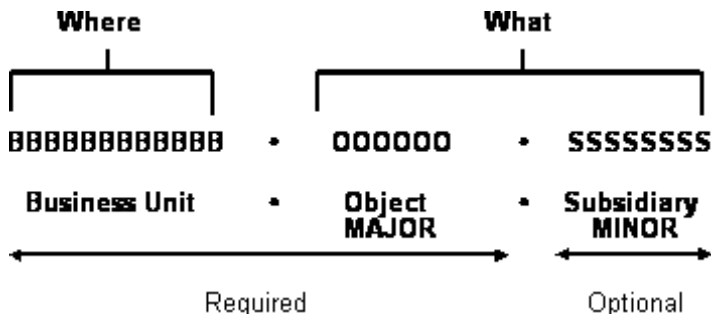
Subsidiary accounts are subdivisions of object accounts. Use a subsidiary account when you need more detailed accounting activity for an object account.

You can use up to eight alphanumeric characters in this field.

15.5.3 Account Numbers

An account number includes both the business unit and object.subsidiary codes. You can use periods (the default), commas, or other user defined symbols to separate the components of the account number.

Figure 15-10 Components of an Account Number



For example, you can categorize the "Cash in Banks" object (account 1110) into the following subsidiary accounts:

Account	Description
1110.BEAR	Bear Creek National Bank
1110.FIB	First Interstate Bank
1110.FRANCE	First Bank of France

See Also:

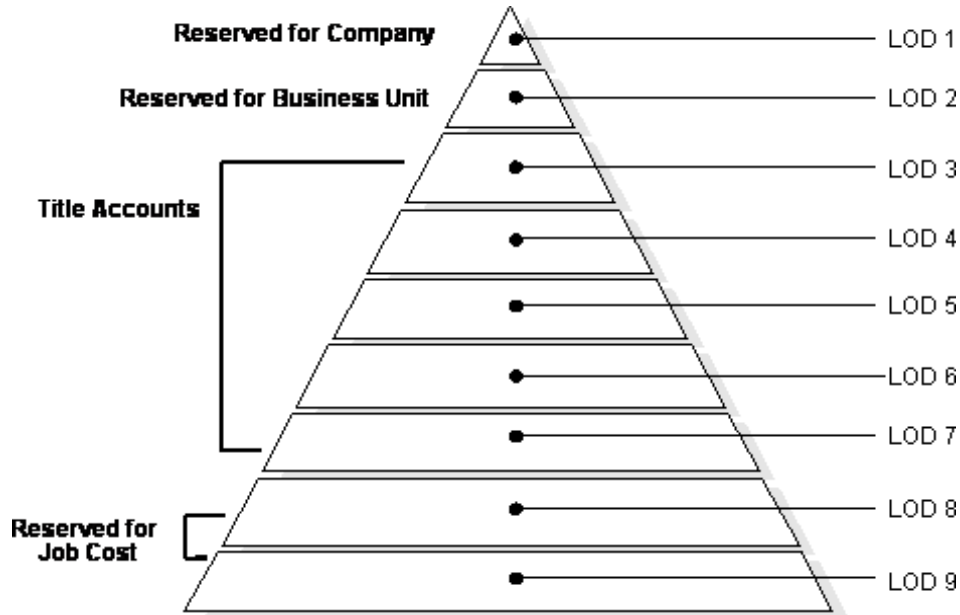
- Creating a Flexible Format in the *JD Edwards World General Accounting II Guide* for other methods for numbering accounts.

15.5.4 Level of Detail

You assign levels of detail (LODs) to control which accounts are subtotaled during the rollup process. The system also displays the level of detail you view online and in printed reports.

Use LOD 3 through 9 for accounts. LOD 1 is reserved for companies and LOD 2 for business units. The system underlines LOD 3 on balance sheet reports and LODs 3 and 4 on income statement reports.

Figure 15–11 Levels of Detail



The following guidelines apply when you assign levels of detail to accounts:

- Assign LODs sequentially and do not skip a level of detail. Non-sequential levels of detail cause rollup errors in financial reports that run at a level you did not use.
- Assign LOD 3 to balance sheet title accounts for assets, liabilities, and equity.
- Assign either LOD 3 or LOD 4 to major title accounts on the income statement. For example:
 - Revenues
 - Direct costs
 - General and administrative expenses
 - Other income and expenses

15.6 What is Subledger Accounting?

In addition to the regular business unit.object.subsidiary method of account coding, you can use subledger accounting. Subledgers are "subdivisions" of account details for categories that you do not want in the permanent chart of accounts.

The subledger and subledger type for a general ledger account work together to provide detailed accounting to the Account Master table (F0901). The subledger numbers become the audit trail for the posted subledger transactions.

You can group and report transactions posted to a general ledger account with subledger types. Subledger types allow you to view account totals in more detail. You can also report on subledgers across accounts (for example, all accounting activity by asset ID or by work order number).

Subledgers differ from subsidiary accounts in the following ways:

- Subledgers do not create additional records in the Account Master table (F0901).
- You enter and post transactions to the same account using different codes in the Subledger and Subledger Type fields rather than to different accounts.

- Subledgers can create additional records in the Account Balances table (F0902). You control this using the posting edit code on the Account Master table.

15.6.1 Subledger Types

There are eight predefined, hard-coded subledger types. Each one edits or validates the subledger number against a master table.

15.6.1.1 Core Subledger Types

Subledger Type	Description
A	Address Book number. This number is edited against the Address Book Master table (F0101). It is the most commonly used subledger type and is used for the detail method of intercompany settlements.
C	Business Unit number. This number is edited against the Business Unit Master table (F0006).

15.6.1.2 Other Subledger Types

Subledger Type	Description
E	Equipment Item number. This number is edited against the Equipment Master table (F1201).
L	Lease Item number. This number is edited against the Lease Master table (F1501).
I	Item number (short). This number is edited against the Item Master table (F4101).
O	Sales Order number. This number is edited against the Sales Order Master table (F4211).
S	Structure Subledger. This item is edited against the Chart of Accounts Format table (F0909).
W	Work order number. This number is edited against the Work Order Master table (F4801).
M	Summarized work order number. This number is used for summarized journal entries.

In addition, there are three subledger types (X, Y, and Z) that you can define with user defined codes (system 00, type ST). These types are not edited against any tables. You set up these types if you want the system to edit values against a format requirement rather than a specific value.

15.6.2 Posting Edit Codes

Use posting edit codes (PECs) to designate which accounts use subledgers and how the system posts accounts. These codes define how the system updates the general accounting tables and the type of information on which you can search or print a report.

Set the PEC on the Account Master table for all accounts that use subledger accounting. For subledger accounting, use one of the following PECs.

Posting Edit Code	Description
S	Summary. Posts subledgers in summary format on every transaction that references the account. You see only subledger detail in the Account Ledger table. This code requires subledger entry.
L	Long. Posts subledgers in detailed format. The system stores the subledger in detail in both the Account Ledger and Account Balances tables. This code requires subledger entry.
X	Does not allow subledger entry for the account.
Blank	Allows all posting. The system posts the subledger in detailed format. A blank code does not require subledger entry.

15.7 What is the Chart of Accounts?

The chart of accounts is a record of the valid accounts you assign to the business units within your company's reporting structure. When you set up your chart of accounts, you define the location of the accounts using automatic accounting instructions (AAIs) that indicate which number ranges represent assets, liabilities, and so on.

The chart of accounts begins with the major headings of your transactions and continues with detailed transaction descriptions:

Transaction	Description
Assets	(Balance Sheet)
Liabilities	(Balance Sheet)
Owners' Equity	(Balance Sheet)
Revenues	(Income Statement)
Expenses	(Income Statement)

The chart of accounts displays the following elements:

- The account number
- The posting edit codes
- The level of detail assigned to the account
- Which accounts are assigned to which business units

15.7.1 Example: Chart of Accounts

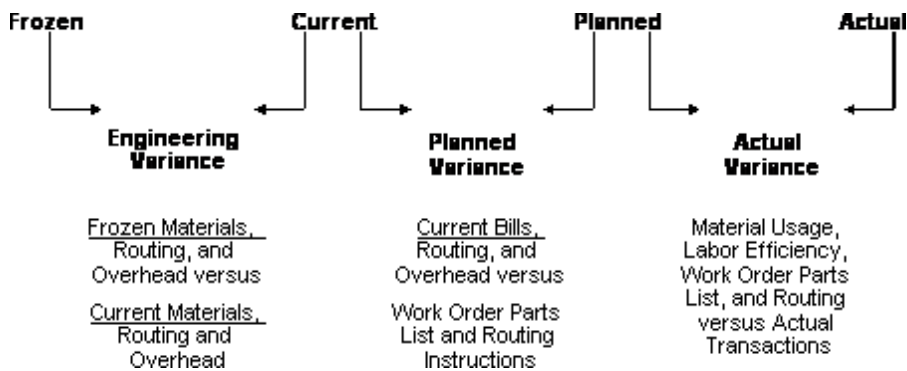
Figure 15–12 Chart of Accounts Example

Acct	Description	Post Edit	LOD	B/S BU100	DEN BU210
1000	Assets	N	3	X	
1001	Current Assets	N	4	X	
1100	Cash	N	5	X	
1110	Cash in Bank	N	6	X	
1130	Short-Term Investments	N	7	X	
1200	Accounts Receivable	M	5	X	
1210	Trade Accounts Receivable	M	6	6	
1215	Allow for Doubtful Accounts	N	5	X	
1400	Inventory	N	5	X	
1800	Prepaid Expenses		6	X	
1810	Prepaid insurance		6	X	
1890	Other Prepaid Expenses		6	X	
2000	Fixed Assets	N	4	X	
2001	Property and Equipment	N	5	X	
2020	Buildings	N	6	X	
2060	Furniture & Office Equipment	N	6	X	
2100	Accumulated Depreciation		6	X	
2160	Accum Depr - Buildings		5	X	
2170	Accum Depr - Office Furniture/Equipment		6	X	
3900	Accum Depr - Computer		6	X	
	Other Assets		5	X	

15.8 What are Work Order Variances?

Variances occur when the frozen standard costs differ from other user defined cost methods, such as current costs. These variances can be due to differences in labor or overhead, or changes to the bill of material or routing.

Figure 15–13 Work Order Variances



The following describes each variance type.

Variance Type	Description
Engineering	The difference between the frozen standard costs (material, labor, and overhead) at the beginning of the accounting period and the current costs derived from the bills of material, routings, and overhead rates.
Planned	The difference between the current costs derived from the bills of material, routings, and overhead rates and the costs based on the work order parts list and routing instructions. Planned variances can occur when you revise a work order.

Variance Type	Description
Actual	<p>The difference between the cost values derived from the work order parts list and routing, and the material and labor that were actually reported against that work order. Actual variances can occur when you:</p> <ul style="list-style-type: none"> ■ Issue material ■ Record hours and quantities ■ Record completions <p>Labor Efficiency (Actual)</p> <p>The difference between the planned and actual labor costs, based on the work order routing.</p> <p>Material Usage (Actual)</p> <p>The difference between the planned and actual material costs, based on the work order parts list.</p>
Other	<p>Three ways to produce Other Variances</p> <p>There are three ways to produce Other Variances in Manufacturing Accounting:</p> <ol style="list-style-type: none"> 1. The first is through rounding. If there is a difference in the number of data decimals in the Production Cost File (F3102) and the item cost component add-ons file F30026 versus the Account Ledger file F0911, the system produces a rounding variance. These other variances are for very small amounts. 2. The second is to change the Frozen Standard Cost of a parent or component in the F30026 when there is a work order in process. When there are existing costs and they get changed in the middle of producing an item, this leaves a balance in WIP when P31802 - Completions is run. You can revalue WIP when there is a change to Frozen Standard Costs by setting the processing options in Frozen Update (P30835). 3. The third way to produce an Other Variance is to over- or under-complete a work order.

Set Up Manufacturing Accounting

This chapter contains these topics:

- [Section 16.1, "Understanding Manufacturing Flex Accounting,"](#)
- [Section 16.2, "Understanding Orderless Accounting,"](#)
- [Section 16.3, "Setting Up Manufacturing Accounting,"](#)
- [Section 16.4, "Setting Up General Ledger \(G/L\) Class Codes,"](#)
- [Section 16.5, "Reviewing Manufacturing AAls,"](#)
- [Section 16.6, "Reviewing Outside Operations and Open Receipts,"](#)
- [Section 16.7, "Outside Operations Open Receipts Reporting."](#)

16.1 Understanding Manufacturing Flex Accounting

Use Flex Accounting to allow flexibility with the business unit and subsidiary segments of the general ledger account number to report entries based on product lines, category codes, and so on.

16.2 Understanding Orderless Accounting

The purpose of Orderless Accounting is the same as Manufacturing Accounting, which is to use a variety of tools to monitor costs that are generated during various manufacturing activities and provide management with a tool to compare actual results to expected results. The differences between the two accounting methods includes:

- Orderless Accounting uses transaction IDs and production plans, rather than using work orders as in Manufacturing Accounting.
- The orderless solution is available for Standard Costing only.

16.3 Setting Up Manufacturing Accounting

You can customize the Manufacturing Accounting system to meet your specific manufacturing environment needs.

This section contains the following:

- [Setting Up General Ledger \(G/L\) Class Codes](#)
- [Reviewing Manufacturing AAls](#)

Note: Because the system generates journal entries based on how you set them up, you should define these options carefully.

16.4 Setting Up General Ledger (G/L) Class Codes

Navigation

From Inventory Management (G41), choose Inventory Master/Transactions

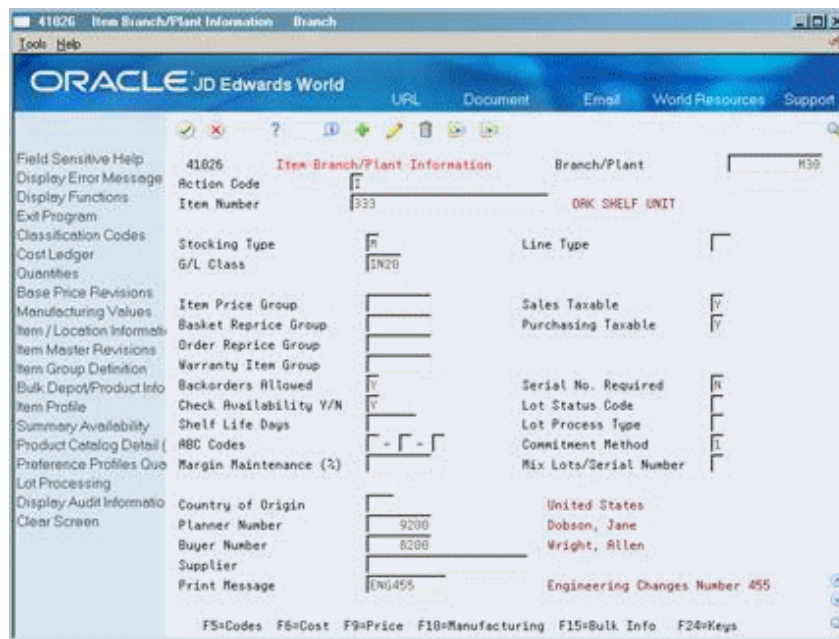
From Inventory Master/Transactions (G4111), choose Item Branch/Plant Information

G/L class codes are used by the AAIs to determine to which accounts the system posts transactions.

To set up G/L class codes

On Item Branch/Plant Information

Figure 16–1 Item Branch/Plant Information screen



Complete the following field:

- G/L Class

This value defaults to the primary location G/L Class code on the Item Location screen (F11). Manufacturing Accounting programs use the primary location G/L Class code to locate the account number to use.

Field	Explanation
G/L Class	<p>A user defined code that identifies the G/L offset to use when the system is searching for the account to which it will post the transaction. If you do not want to specify a class code, you can enter **** (four asterisks) in this field.</p> <p>The table of Automatic Accounting Instructions (AAIs) allows you to predefine classes of automatic offset accounts for the Inventory, Purchase, and Sales Order Management systems. G/L categories might be assigned as follows:</p> <p>IN20 – Direct Ship Orders IN60 – Transfer Orders IN80 – Stock Sales</p> <p>The system can generate accounting entries based upon a single transaction. As an example, a single sale of a stock item can trigger the generation of accounting entries similar to these:</p> <p>Sales-Stock (Debit) xxxxx.xx A/R Stock Sales (Credit) xxxxx.xx Posting Category: IN80 Stock Inventory (Debit) xxxxx.xx Stock COGS (Credit) xxxxx.xx</p> <p>Although this field is four characters, the system uses only the last two characters of the Category and the last character of the Document Type to find the AAI.</p>

16.5 Reviewing Manufacturing AAls

Navigation

From any Shop Floor Control menu, enter 29

From Shop Floor Control Setup(G3141), choose Automatic Accounting Instructions

Each transaction that creates journal entries has automatic accounting instructions (AAIs) that instruct the program to post to specific G/L accounts. User defined AAls connect manufacturing accounting, your chart of accounts, and financial reporting. You should create AAls for each unique combination of company, transaction, document type, and G/L class that you anticipate using.

Note: AAls are the same for actual cost as the AAls used for standard cost.

To create G/L entries for transactions, the AAls access the following information to find the account number to use:

- Company number
- Document type
- G/L class code
- Cost component
- Branch or business unit

Each AAI or record type points to a specific G/L account consisting of a business unit, an object, and a subsidiary code. JD Edwards World defines manufacturing AAIs at the 3000 level, as follows:

AAI	Description
3110 Raw Materials/Subassemblies	Specifies which balance sheet G/L accounts are used when issuing raw materials or parts from inventory to work in process. Also used to issue completed subassemblies from inventory back into work in process.
3120 Work in Process	For debit transactions, increases the material value of work in process by issuing raw materials and parts to work orders. Also records increases in direct labor, setup labor, machine time, and overhead by applying them to issued materials. For credit transactions, records the transfer of work order material costs from work in process inventory to some other inventory accounts because of work order completion. Also records the transfer of direct labor, setup labor, and overhead from work in process when work orders are complete.
3130 Subassemblies/Finished Goods	Specifies which balance sheet G/L accounts are used when receiving subassemblies or finished goods from work in process into inventory.
3220 Labor Variance 3240 Material Variance 3260 Planned Variance 3270 Engineering Variance 3280 Other Variance	These five AAIs post debits when there is a difference between actual and standard costs associated with shop floor activities. Variances are posted as positive or negative depending on whether they are favorable or unfavorable.
3401 Accruals	Specifies the profit and loss accounts that offset work in process labor transactions to work orders.

You can setup the Manufacturing Automatic Accounting Instruction (P40901) to any default AAI to skip to when accessing the AAIs from any manufacturing menu. Usually, the default is 3000.

The following table shows which DMAAIs are used during the manufacturing accounting process.

Transaction Type	Debit Account	Credit Account
IM	3120	3110*
IC	3130	3120
IS	3130.scrap	3120

*The credit side of the IM transaction uses the G/L Class Codes of the components to write journal entries to take raw material out of inventory. The debit side of the IM transaction and all other transactions use the G/L Class Code of the parent to generate journal entries.

The following table shows which AAIs are used during the variance accounting AAIs.

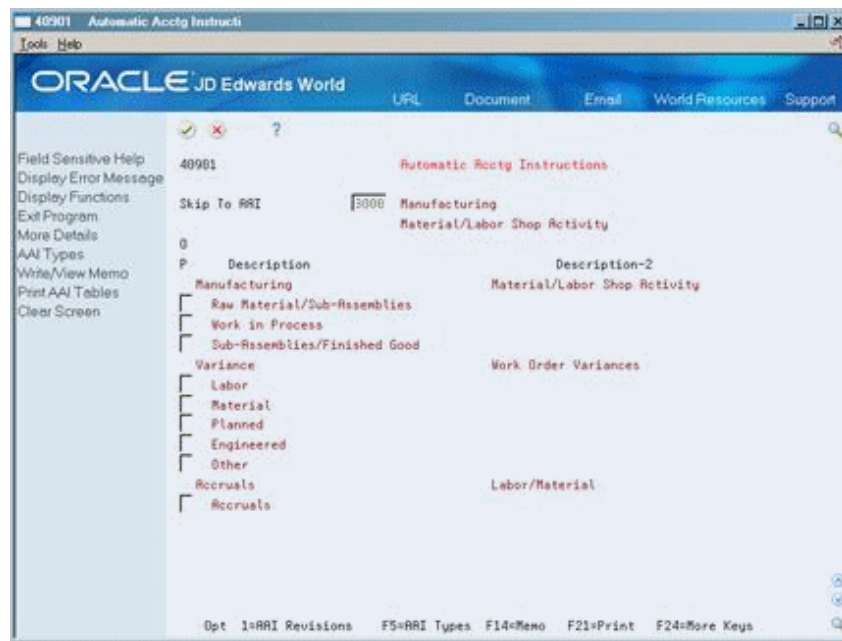
Note: In the WIP Account (IM+IH)-IC=IV.

3120 (WIP)	Or	3120 (WIP)	Depending on WIP account, will debit or credit to clear variance from WIP
3220	Or	3220	Labor Variance
3240	Or	3240	Material Variance
3260	Or	3260	Planned Variance
3270	Or	3270	Engineering Variance
3280	Or	3280	Other Variance

To review AAls

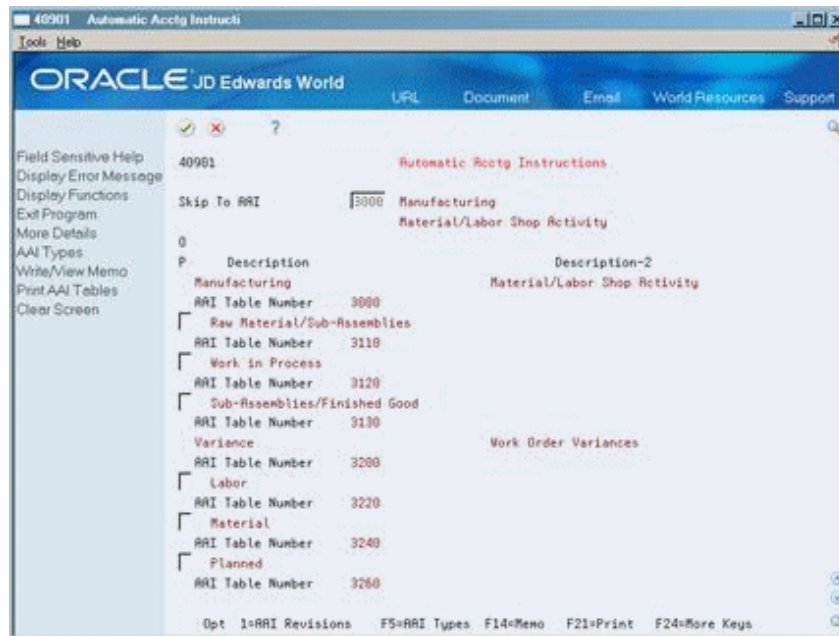
On Automatic Accounting Instructions

Figure 16–2 Automatic Accounting Instructions screen



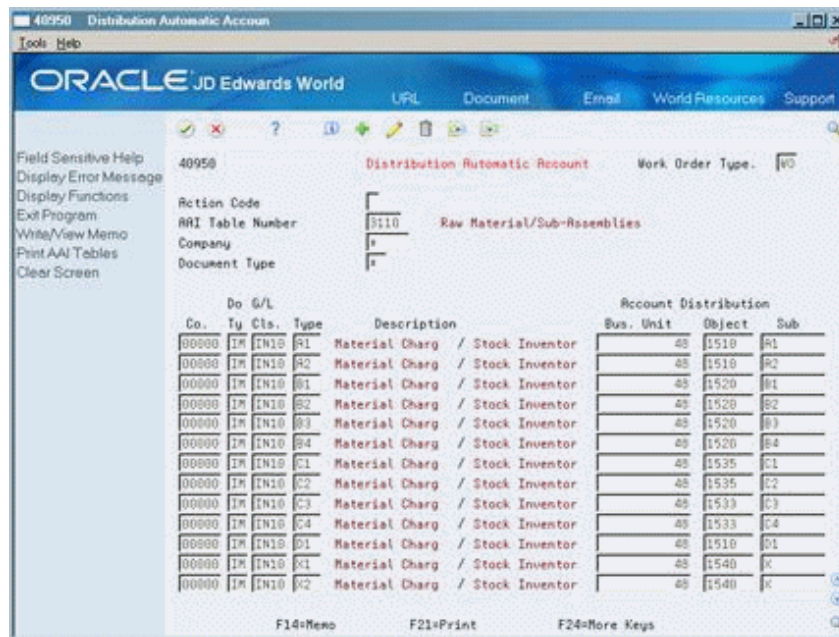
1. To view the AAI table number for each record, access the detail area (F4).

Figure 16–3 Automatic Accounting Instructions (Detail) screen



2. To access Manufacturing and Distribution Automatic Account, choose AAI Revisions (Option 1).

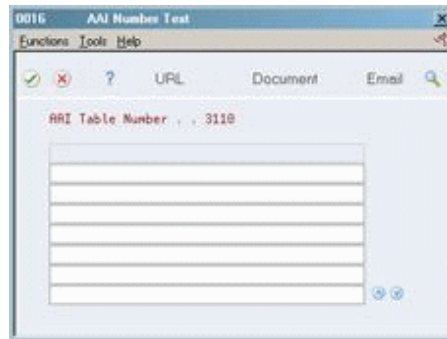
Figure 16–4 Distribution Automatic Account



3. On Manufacturing and Distribution Automatic Account, review the following fields:
 - Work Order Type
 - Company
 - Document Type

- Company
 - G/L Class Code
 - Type
 - Account Manufacturing and Distribution Business Unit
 - Account Manufacturing and Distribution Object
 - Account Manufacturing and Distribution Subsidiary
4. Access Memo Text (F14).

Figure 16–5 AAI Number Text screen



5. On AAI Number Text, review memo text for a record type.

Field	Explanation
Work Order Type	<p>A user defined code (00/DT) that identifies the type of document. This code also indicates the origin of the transaction. JD Edwards World has reserved document type codes for vouchers, invoices, receipts, and time sheets, which create automatic offset entries during the post program. (These entries are not self-balancing when you originally enter them.)</p> <p>The following document types are defined by JD Edwards World and should not be changed:</p> <ul style="list-style-type: none"> P – Accounts Payable documents R – Accounts Receivable documents T – Payroll documents I – Inventory documents O – Purchase Order Processing documents J – General Accounting/Joint Interest Billing documents S – Sales Order Processing documents

Field	Explanation
Company	<p>A code that identifies a specific organization, fund, entity, and so on. This code must already exist in the Company Constants table (F0010). It must identify a reporting entity that has a complete balance sheet. At this level, you can have intercompany transactions.</p> <p>Note: You can use company 00000 for default values, such as dates and automatic accounting instructions (AAIs). You cannot use it for transaction entries.</p> <p><i>Form-specific information</i></p> <p>In the inquiry field at the top of the form, the asterisk (*) is the default value. It causes the system to display AAIs for all companies.</p>
Document Type	<p>A user defined code (system 00/type DT) that identifies the origin and purpose of the transaction.</p> <p>JD Edwards World reserves several prefixes for document types, such as vouchers, invoices, receipts, and timesheets.</p> <p>The reserved document type prefixes for codes are:</p> <ul style="list-style-type: none"> P – Accounts payable documents R – Accounts receivable documents T – Payroll documents I – Inventory documents O – Order processing documents J – General ledger /joint interest billing documents <p>The system creates offsetting entries as appropriate for these document types when you post batches.</p> <p><i>Form-specific information</i></p> <p>In the inquiry field at the top of the form, the asterisk (*) is the default and causes the system to display all document types.</p>
Bus. Unit	<p>An alphanumeric field that identifies a separate entity within a business for which you want to track costs. For example, a business unit might be a warehouse location, job, project, work center, or branch/plant.</p> <p>You can assign a business unit to a voucher, invoice, fixed asset, and so on, for purposes of responsibility reporting. For example, the system provides reports of open accounts payable and accounts receivable by business units to track equipment by responsible department.</p> <p>Security for this field can prevent you from locating business units for which you have no authority.</p> <p>Note: The system uses this value for Journal Entries if you do not enter a value in the AAI table.</p> <p><i>Form-specific information</i></p> <p>If you leave this field blank, the system uses the business unit that you entered on the work order, in the Charge to Cost Center field.</p>

Field	Explanation
Object Account	The object account portion of a general ledger account. The term "object account" refers to the breakdown of the Cost Code (for example, labor, materials, and equipment) into subcategories (for example, dividing labor into regular time, premium time, and burden). If you are using a flexible chart of accounts and the object is set to 6 digits, JD Edwards World recommends that you use all 6 digits. For example, entering 000456 is not the same as entering 456, because the system enters three blank spaces to fill a 6-digit object.
Sub	A subdivision of an object account. Subsidiary accounts include more detailed records of the accounting activity for an object account. <i>Form-specific information</i> If you leave this field blank, the system uses the value you entered on the work order in the Cost Code field.

16.5.1 What You Should Know About

Topic	Description
Selection of DMAAIs	To choose a DMAAI, the system searches first for an exact match between company and the G/L class code. If it does not find one, it then searches for the default company and the item's G/L class code. If it does not find a match there, it then searches for the company, and uses **** (four asterisks) for the G/L class code.

16.5.2 Processing Options

See [Section 25.1, "AAI Revisions \(P40901\)."](#)

See [Section 25.8, "Manufacturing Accounting for Orderless Completion \(P31862\)."](#)

16.6 Reviewing Outside Operations and Open Receipts

Navigation

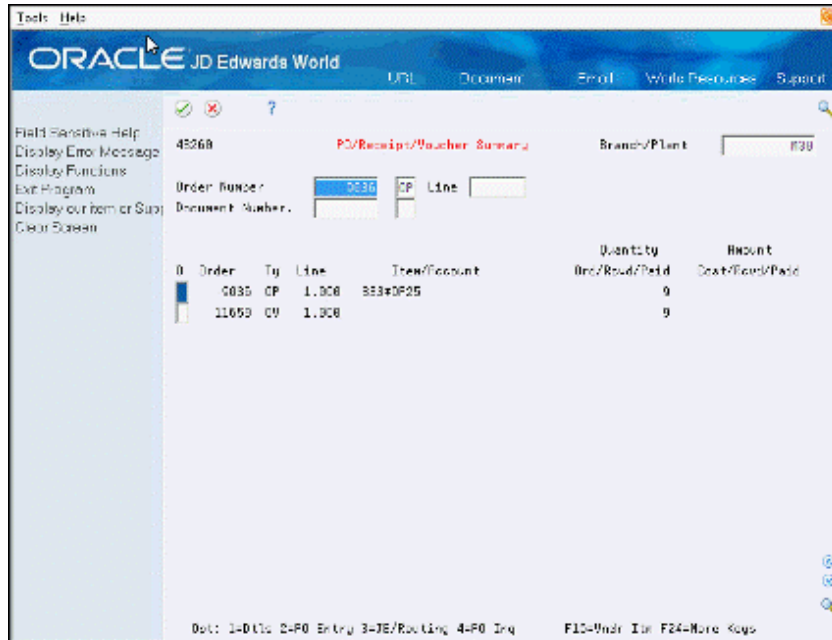
Reconciliation Reports and Inquiries (G43A1111), choose PO/Receipt/Voucher Summary under Reconciliation Inquiries

You can inquire on the Purchase Order containing the Outside Operations Open Receipt and view purchasing information linked to Work Order Detail and record in the Item Ledger.

To view the purchase information linked to Work Order Detail and record in Item Ledger

1. Create a Purchase Order from a Work Order for an outside operation item and receive the order in full.
2. Inquire on the Purchase Order.

Figure 16–6 PO/Receipt/Voucher Summary screen



16.6.1 Processing Options

See [Section 25.9, "PO/Receipt/Voucher Inquiry \(P43260\)."](#)

16.7 Outside Operations Open Receipts Reporting

Navigation

Reconciliation Reports and Inquiries (G43A1111), choose PO/Receipt/Voucher Summary under Reconciliation Reports

You can generate a report with Outside Operations Open Receipt information linked to Work Order detail and the Item Ledger transactions for any receipt records.

To view the report

1. Create a Purchase Order from a Work Order for an outside operation item and receive the order in full.
2. Run the report for the order record.

16.7.1 Processing Options

See [Section 25.10, "Purchase Order/Receipt/Voucher Report \(P43560\)."](#)

Work with Work Orders

As you work with work orders you can view the effect of each step on manufacturing accounting.

This chapter contains the following:

- [Section 17.1, "Creating a Work Order \(P48013\) \(Release A9.3 Update\),"](#)
- [Section 17.2, "Attaching a Parts List and Routing Instructions,"](#)
- [Section 17.3, "Issuing Parts to Work Orders,"](#)
- [Section 17.4, "Recording Hours and Quantities Used,"](#)
- [Section 17.5, "Recording Component Scrap,"](#)
- [Section 17.6, "Recording Completions to Work Orders,"](#)
- [Section 17.7, "Reviewing the Open WIP Balance by G/L Account Report."](#)

17.1 Creating a Work Order (P48013) (Release A9.3 Update)

Navigation

From Shop Floor Control (G31), choose **Daily Order Preparation * Discrete**

From **Daily Order Preparation - Discrete (G3111)**, choose **Enter/Change Order**

Create a work order as the first step in the process of understanding the cycle of a work order and its effect on manufacturing accounting.

When a work order is entered, the parent item's Sales/Inventory cost method for the F4105 is retrieved and stored in the F4801T field called WALEDG. The value in this field will determine if costing of the work order is standard or actual. Valid cost methods are 02 for Actual Cost or 07 for Standard Costing. Work order processing, completions, outside operations receipts, manufacturing accounting and close actual cost work order will use this field to determine how values are calculated and written.

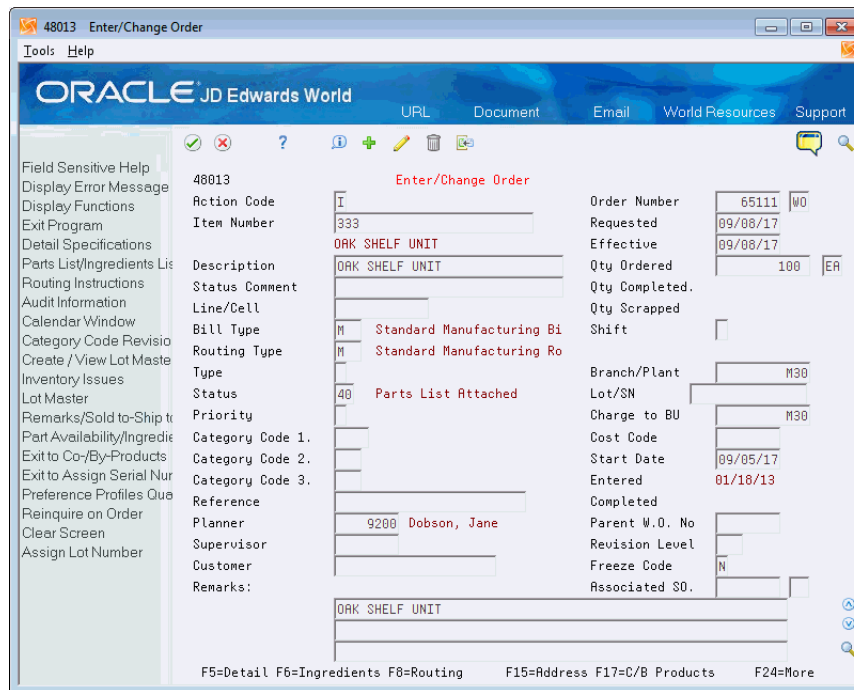
As an alternative to entering work orders manually, you can use the Manufacturing Work Order Entry Z File (P48013Z) program to import an extensive amount of work orders into your system. See [Appendix H, "Import Mass Data into Manufacturing Systems"](#) for more information.

See Also:

- *Create Work Orders in the JD Edwards World Shop Floor Control - Discrete Guide.*

To create a work order
On Enter/Change Order

Figure 17–1 Enter/Change Order (Create a Work Order) screen (Release A9.3 Update)



Complete the following fields:

- Item Number
- Requested
- Effective
- Quantity Ordered
- Branch/Plant
- Charge to Business Unit
- Cost Code

Field	Explanation
Item Number	A number that the system assigns to an item. It can be in short, long, or 3rd item number format.

Field	Explanation
Requested	<p>The date that an item is to arrive or that an action is to be complete.</p> <p><i>Form-specific information</i></p> <p>For Shop Floor Control</p> <p>When you change the requested date:</p> <ul style="list-style-type: none"> ■ The system calculates a new start date based on the new requested date if you delete the date in the Start Date field before you enter the new requested date. If you do not delete the start date, the system does not recalculate or change it. ■ The system recalculates the operation start and complete dates according to the scheduling rules defined.
Effective	<p>The date on which a lot becomes available. The system uses this date for availability and commitment processing to indicate that the lot is available on or after the date that you specify. You must complete this field when inventory first becomes an on-hand quantity for the lot. If you leave this field blank, the system calculates the effective date of the lot by using the value for Effective Days in the Item Branch Master (F4102) or the current date if the value for Effective Days is zero.</p>
Qty Ordered	<p>The quantity of units affected by this transaction.</p> <p><i>Form-specific information</i></p> <p>For Shop Floor Control Discrete Manufacturing:</p> <ul style="list-style-type: none"> ■ When you change the order quantity, the system recalculates the following: ■ The component-required quantities and commitments <p>The operation start and complete dates, if the lead times are variable</p> <p>In the process industry:</p> <p>The quantity of co-/by-products produced by the process.</p>
Branch/Plant	<p>A code that represents a high-level business unit. It can be used to reference a branch or plant that might have departments or jobs, which represent lower-level business units (data item MCU), subordinate to it. For example:</p> <ul style="list-style-type: none"> ■ Branch/Plant (MMCU) ■ Dept A (MCU) ■ Dept B (MCU) ■ Job 123 (MCU) <p>Business unit security is based on the higher-level business unit.</p> <p><i>Form-specific information</i></p> <p>For Shop Floor Control and Manufacturing Accounting:</p> <p>This field identifies the branch/plant in which the item resides.</p>

Field	Explanation
Charge to CC	<p>An alphanumeric field that identifies a separate entity within a business for which you want to track costs. For example, a business unit might be a warehouse location, job, project, work center, or branch/plant.</p> <p>You can assign a business unit to a voucher, invoice, fixed asset, and so on, for purposes of responsibility reporting. For example, the system provides reports of open accounts payable and accounts receivable by business units to track equipment by responsible department.</p> <p>Security for this field can prevent you from locating business units for which you have no authority.</p> <p>Note: The system uses this value for Journal Entries if you do not enter a value in the AAI table.</p> <p><i>Form-specific information</i></p> <p>The default business unit for journal entries for the work order. The business unit on the AAI tables must be blank.</p>
Cost Code	<p>A subdivision of an object account. Subsidiary accounts include more detailed records of the accounting activity for an object account.</p> <p><i>Form-specific information</i></p> <p>For Shop Floor Control and Manufacturing Accounting:</p> <p>If a value is not entered in the AAI table for subsidiary account, the system uses this value as a default in journal entries.</p>

17.2 Attaching a Parts List and Routing Instructions

Navigation

From Shop Floor Control (G31), choose Daily Order Preparation * Discrete

From Daily Order Preparation * Discrete (G3111), choose Order Processing

You can attach the parts list and routing instructions in one of three ways:

- Manually
- Interactively
- Through the Process Work Orders program

For example, to understand its effect on manufacturing accounting, run Work Order Processing (P31410). Work order processing attaches the parts list and routing for a work order and updates the production cost file, F3102. Costs will be generated in the standard and current columns of P3102 Variance Inquiry if the order is using standard cost. If using actual cost, the current column is populated and will be the original cost of the work order but no variances will be written.

A work order parts list (P3111) can also be attached from a bill of material or entered manually.

A work order routing (P3112) can be attached from a routing master or entered manually. The work order routing allows the entry of Employee Number and Machine Number. Actual cost orders will use the source for labor and machine rates from the Manufacturing Constants to determine these values. If employee rates and machine billing rates are chosen in the Manufacturing Constants and they are not entered, you will get a warning message and the system will use the 02 work center rates.

See Also:

- Attaching the Parts List Interactively in the *JD Edwards World Shop Floor Control - Discrete Guide*,
- Attaching the Routing Instructions Interactively in the *JD Edwards World Shop Floor Control - Discrete Guide*,
- Processing Work Orders in the *JD Edwards World Shop Floor Control - Discrete Guide*.

17.2.1 Processing Options

See [Section 25.2, "Generate and Print Work Orders \(P31410\)."](#)

17.3 Issuing Parts to Work Orders**Navigation**

From Shop Floor Control (G31), choose Daily Order Preparation * Discrete

From Daily Order Preparation * Discrete (G3111), choose Inventory Issues

Issue the necessary parts to the work order. There are four ways to issue parts:

- Manually
- Preflushing
- Backflushing
- Super backflushing

Whichever method you use, when you issue parts to a work order, you create:

- One source of an actual variance, if the cost of materials issued is different from the cost of materials specified on the parts list
- Unaccounted units in the Parts List table

For example, to understand its effect on manufacturing accounting, issue the parts manually using Work Order Inventory Issues (P31113).

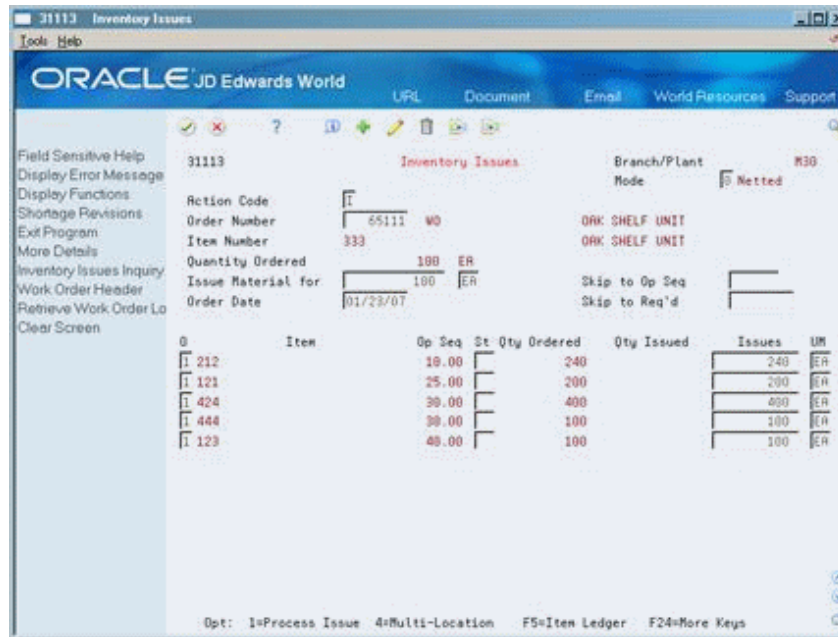
At the time inventory is issued, the system will use the following to write the Cardex IM transaction. The component cost is calculated using the parts list quantity multiplied by the P4105 Sales/Inventory cost of the component item(s). The unaccounted units are written to the CTS1 field. For actual cost orders, the cost is written to the CST4 amounts field in the F3111. For actual cost orders, the P31802 uses CTS4 for the material issue journal entry value. For standard cost orders, the P31802 uses the frozen component cost from Cost Components (P30026).

For standard cost (07) parent items, use processing option number 22 of the Inventory Issues program (P31113). This option determines, for standard cost work orders, whether the P4105 cost or the P30026 cost is used for the components issued when P31802 writes the journal entry. However, it should be noted that manufacturing variances are designed to be efficiency/usage variances. Using this option will add material cost into the variance.

Note: For standard cost, if the cost for the item in P4105 at the time of issue is not equal to the value in P30026 at the time Manufacturing accounting is run, the journal entry will not match the Cardex value.

To issue parts to work orders
On Inventory Issues

Figure 17–2 Inventory Issues screen



Complete the following fields:

- Order Number
- Issue Material For

Field	Explanation
Order Number	A number identifying the original document. This can be an invoice number, work order number, sales order number, journal entry number, and so on.
Issue Material for	The number of parent items you want to process. The system calculates lower-level values in quantity per the number of parent items requested. For example, if 3 components are needed for a parent item, and the requested quantity is 10, the system plans for 30 components.

You can set the Work Order Inventory Issues (P31113) Processing Option for Actual Costing Warning Messages to 1 to provide a warning message or a 2 to receive a hard error, when any component unit cost does not exist or is less than or equal to zero.

See Also:

- About Issue Transactions in the *JD Edwards World Shop Floor Control - Discrete Guide*.

17.3.1 Processing Options

See [Section 25.3, "Work Order Inventory Issues \(P31113\)."](#)

17.4 Recording Hours and Quantities Used

Navigation

From Shop Floor Control (G31), choose Daily Order Preparation * Discrete

From Daily Order Reporting * Discrete (G3112), choose Hours and Quantities

As you produce items on a work order, you record the hours spent on production and the number of items completed in that time.

When you record hours and quantities used, you create:

- One source of an actual variance, if the cost of machine and labor reported differs from the cost of machine and labor as specified on the work order parts list and routing instructions
- Unaccounted units in the Routing Instructions table

Hours & Quantities (P311221) retrieves machine and labor rates for actual cost orders based on the sources in the Manufacturing Constants or they can be manually input.

The labor rates sources areas follows:

- Frozen Work center rates from the F30008 work center rates for the 02 cost method
- Employee labor rates table (31/ER in F00191)
- Manual entry (Manual entry will over-ride any of the other rates)

The machine rate sources include:

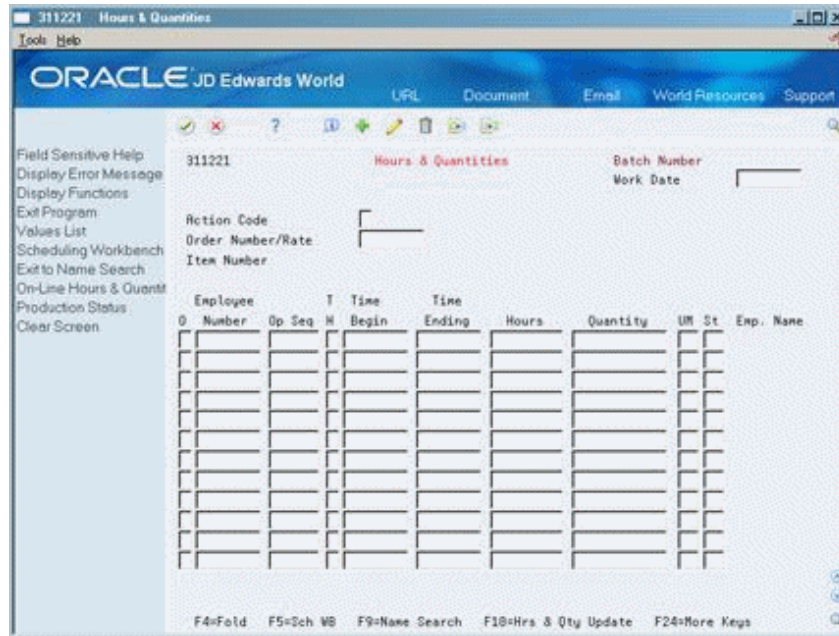
- Frozen Work center rates from the F30008 work center rates for the 02 cost method
- Equipment rental rates from F1301
- Manual entry (Manual entry will over-ride any of the other rates)

Labor by Shop Floor Control (P061181) is another way to process hours and quantities. You can activate this program and the related manufacturing fields by turning on processing options 10 through 12. This processing option updates the F31122 work order Time Transaction table with actual employee hours and labor rates charged to each work order. Enter a value of 1 in the option field to set an exit to the regular time entry screen for manufacturing.

To record hours and quantities used

On Hours and Quantities

Figure 17-3 Hours and Quantities screen



Complete the following fields:

- Work Date
- Order Number
- Employee Number
- Operation Number
- Type of Hours
- Hours
- Quantity
- Unit of Measure
- Operation Status

Field	Explanation
Work Date	A date that identifies the financial period to which the transaction is to be posted. The general accounting constants specify the date range for each financial period. You can have up to 14 periods. Generally, period 14 is for audit adjustments. The system edits this field for PBCO (posted before cutoff), PYEB (prior year ending balance), and so on.
Order Number/Rate	A number identifying the original document. This can be an invoice number, work order number, sales order number, journal entry number, and so on. <i>Form-specific information</i> You can specify the order number or employee number in the processing options for the Hours and Quantities program.

Field	Explanation
Employee Number	A number that identifies an entry in the Address Book system. Use this number to identify employees, applicants, participants, customers, suppliers, tenants, and any other Address Book members.
Op Seq	<p>In routings, this number is used to sequence the fabrication or assembly steps in the manufacture of an item. You can track costs and charge time by operation.</p> <p>In bills of material, this number designates the routing step in the fabrication or assembly process that requires a specified component part. You define the operation sequence after you create the routing for the item. The Shop Floor Control system uses this field in the backflush/preflush by operation process.</p> <p>In engineering change orders, this number is used to sequence the assembly steps for the engineering change.</p> <p>Skip To fields allow you to enter an operation sequence that you want to begin the display of information.</p> <p>You can use decimals to add steps between existing steps. For example, use 12.5 to add a step between steps 12 and 13.</p> <p><i>Form-specific information</i></p> <p>This is the sequence number of the routing step on the work order. You must enter this number.</p>
TH	<p>A code to indicate the type of time entered. Valid codes are:</p> <ul style="list-style-type: none"> 1 – Run Labor Hours 2 – Setup Labor Hours 3 – Machine Hours 4 – Quantities Completed 5 – Quantities Scrapped 9 – Miscellaneous (piece rate bonus and so forth)
Hours	The number of hours associated with each transaction.
Quantity	<p>The number of units committed for shipment in Sales Order Entry, using either the entered or the primary unit of measure defined for this item.</p> <p>In the Manufacturing system and Work Order Time Entry, this field can indicate completed or scrapped quantities. The quantity type is determined by the type code entered.</p>
St	A user-defined code (31/OS) that identifies the current status of a work order or engineering change order as the operation steps in the routing are completed.

17.4.1 What You Should Know About

Option	Explanation
Type Hours (TYR) 4 and 5	<p>Type Hours (TYR) 4 and 5 in P311221 are for Shop Floor informational purposes only.</p> <p>WIP Manufacturing Accounting does not use these types of hour entries to generate completions and/or scrap journal entries.</p> <p>The completed quantities and scrap entries used by Manufacturing Accounting are those entered in the Work Order Completion program (P31114). The value of units completed and scrapped are recorded in the WO header file(F4801) in the (SOQS) and (SOCN) fields respectively. WIP Manufacturing Accounting (P31802) uses these fields to calculate and to generate the completions and scrap journal/entry transactions.</p>

17.4.2 Hours and Quantities Update (P31422)

Based on the information in F311221, entered from either P311221 or P061181, the Hours and Quantities Update (P31422) program will update F3112 with both unaccounted units and amounts using the CTS1-CTS6 fields:

- CTS1 Unaccounted Direct Labor Units
- CTS2 Unaccounted Setup Labor Units
- CTS3 Unaccounted Machine Units
- CTS4 Unaccounted Direct Labor Amounts
- CTS5 Unaccounted Setup Labor Amounts
- CTS6 Unaccounted Machine Amounts

17.5 Recording Component Scrap

Navigation

From Shop Floor Control (G31), choose Daily Order Preparation * Discrete

From Daily Order Preparation * Discrete (G3111), choose Component Scrap

When you report the quantity of component material scrapped, and you run Journal Entries for Work in Process or Completions, the program calculates the new A2 cost value for the parent. If the amount of the scrapped material differs from the estimated scrap amount on the bill of material, this difference updates the amount of the actual variance.

See Also:

- Recording Component Scrap in the *JD Edwards World Shop Floor Control - Discrete Guide*.

To record component scrap

On Component Scrap

Figure 17-4 Component Scrap screen

31116 Component Scrap

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help 31116 Component Scrap Branch/Plant Requested R39
 Display Error Message 09/08/17
 Display Functions
 Exit Program
 More Details
 Exit to Issues Inquiry
 Clear Screen

Action Code
 Order Number 55111 W0
 Item Number 333
 Quantity Ordered 100 ER
 Quantity Completed ER
 Transaction Date 01/23/07

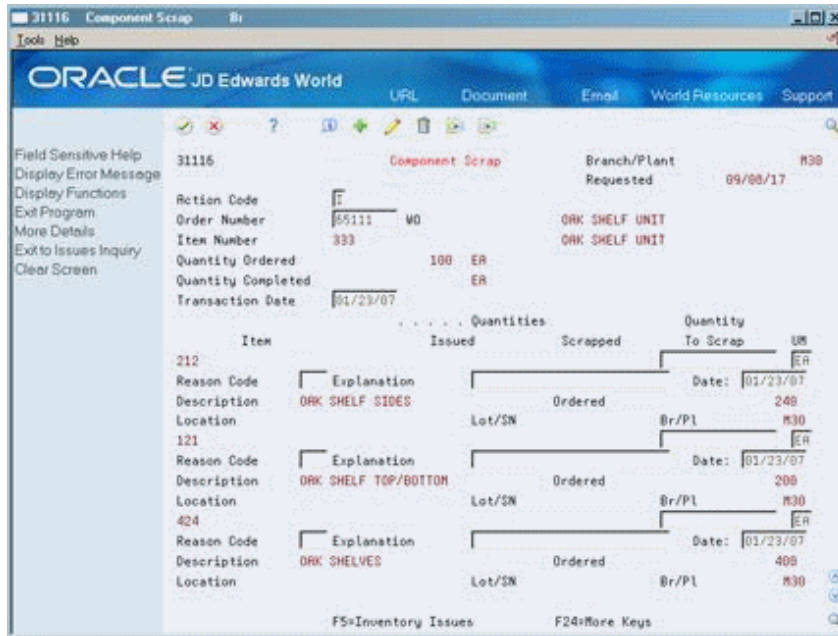
Branch/Plant Requested 09/08/17
 ORX SHELF UNIT
 ORX SHELF UNIT

Item	Issued	Scrapped	Quantity To Scrap	UM
212				ER
121				ER
424				ER
444				ER
123				ER

F5=Inventory Issues F24=More Keys

1. Review the following fields:
 - Quantity Ordered
 - Quantity Completed
 - Ingredient
 - Quantities Issued
 - Quantities Scrapped
2. Complete the following field:
 - Quantity to Scrap
3. Complete the following optional fields:
 - Unit of Measure
 - Transaction Date
4. Access the detail area (F4).

Figure 17-5 Component Scrap (Detail) screen



The detail area is only accessible if you have already issued parts to the work order.

5. Complete the following optional fields:

- Reason Code
- Explanation
- Date

Field	Explanation
Quantity Ordered	The quantity of units affected by this transaction. <i>Form-specific information</i> The work order quantity.
Quantity Completed	The number of units committed for shipment in Sales Order Entry, using either the entered or the primary unit of measure defined for this item. In the Manufacturing system and Work Order Time Entry, this field can indicate completed or scrapped quantities. The quantity type is determined by the type code entered. <i>Form-specific information</i> The quantity completed on this work order to date.
Transaction Date	The date that an order was entered into the system. This date determines which effective level that the system uses for inventory pricing.
Item Number	A number that the system assigns to an item. It can be in short, long, or 3rd item number format. <i>Form-specific information</i> These are the components used on this work order.

Field	Explanation
Scrapped	The number of units canceled in Sales Order or Work Order Processing, using either the entered or the primary unit of measure defined for this item. In manufacturing, this can also be the number of units scrapped to date.
Reason Code	A user-defined code (system 42/type RC) that explains the purpose for a transaction. For example, you can indicate the reason that you are returning items, such as the goods were damaged in shipment or too many goods were shipped. <i>Form-specific information</i> A user-defined code (system 41, type RC) that indicates the reason for the quantity scrapped at this operation.
Explanation	This text identifies the reason that a transaction occurred.
Quantities Issued field	The quantity of a component that has been issued to date.
Quantity to Scrap field	The quantity of a component that is being scrapped on this work order.

17.5.1 Processing Options

See [Section 25.4, "Component Scrap Transactions \(P31116\)."](#)

17.6 Recording Completions to Work Orders

Navigation

From **Shop Floor Control (G31)**, choose **Daily Order Reporting * Discrete**

From **Daily Order Reporting * Discrete (G3112)**, choose **Full Completion**

When you finish production of a work order on the shop floor, you must record the completions to inventory. These transactions update records in the Inventory Management system. You can record completions in the following ways:

- Super backflushing
- Partial completion
- Full completion
- Backflushing at completion

When you record completions to a work order, you create:

- One source of an actual variance, if the cost of materials and labor reported differs from the cost of materials and labor as specified on the work order parts list and routing instructions
- Unaccounted units in the Work Order Master table

For example, to understand its effect on manufacturing accounting, record a full completion.

The Work Order Completions (P31114) is a key program for actual costing. All material issues, hours and quantities entry and hours and quantities update should be in place before completing the work order. The entire work order must be completed to a single location. Stock should not be moved from this location until all accounting is complete. Parent scrap is reported at the time of work order completion.

Work order completion does all of the following in Actual Costing:

- Calculates the work order cost.
- Updates the units and amounts to the F4801 CTS1 and F4801T CTS4 fields.
- Creates/Updates unaccounted completions and scrap amounts in the F3102.
- Recalculates weighted average and updates the F4105 with the new unit cost for method 02.
- Updates the Cardex with the completed units and 02 value.

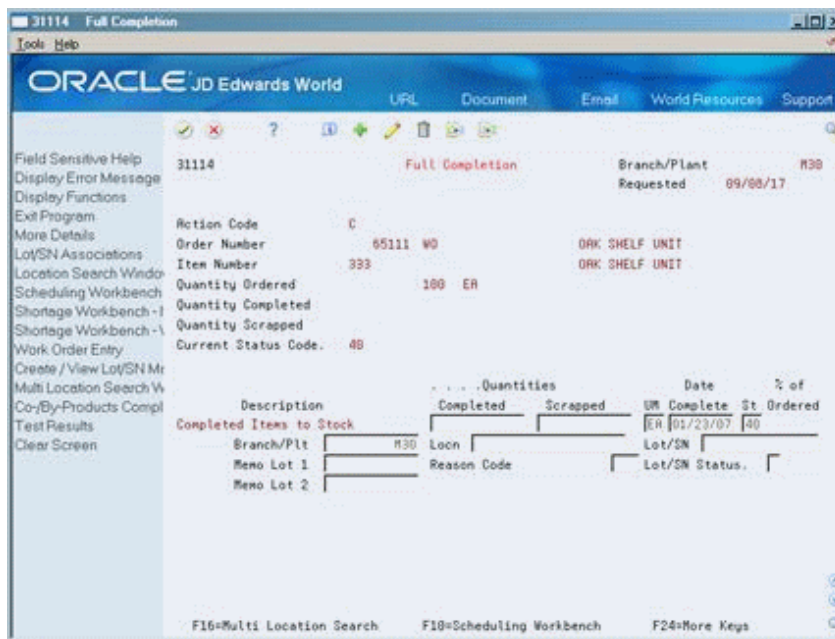
See Also:

- Create Work Orders Overview in the *JD Edwards World Shop Floor Control - Discrete Guide*,
- Complete Work Orders in the *JD Edwards World Shop Floor Control - Discrete Guide*.

To record completions to work orders

On Full Completion

Figure 17-6 Full Completion screen



Complete the following fields:

- Order Number
- Quantity Completed
- Quantity Scrapped
- Date Complete
- Work Order Status

Field	Explanation
Scrapped	The number of units canceled in Sales Order or Work Order Processing, using either the entered or the primary unit of measure defined for this item. In manufacturing, this can also be the number of units scrapped to date.
Completed Date	The date the work order or engineering change order is completed or canceled.
St	A user-defined code (00/SS) that describes the status of a work order or engineering change order. Any status change from 90 thru 99 automatically updates the date completed.

17.6.1 What You Should Know About

Topic	Description
Outside Operations	When outside operations purchase orders are received in the P3103W, the actual purchase order units and amounts are updated in the F3112 using the CTS7 and CTS8 fields.

17.7 Reviewing the Open WIP Balance by G/L Account Report

Navigation

Manufacturing Accounting Periodic (G3123), choose Open WIP Balance by G/L Account

Use the Open WIP Balance by G/L Account report (P31450) to view the WIP Account Balances on open work orders. Manufacturing Accounting (P31802) must be run without errors to establish debits and credits that can be verified in WIP accounts for partially processed work orders. These orders include the following:

- Issuing of material without completing order
- Completing an order without issuing material or applying labor
- Reporting machine, direct labor, and setup labor hours without completing order

Figure 17-7 Open WIP Balance by G/L Account report

31450 J.D. Edwards World Page									
Open WIP Balance by G/L Account Date 8/31/									
Or	Order	WO	Cost	Item	Account	G/L	Debit	Credit	Amounts
Ty	Number	Sts	Meth	Number	Description	Account			
WO	138579	96	07	00200	1122				
					Variable Labor	M30.1730.C3	195.91		
					Fixed Labor	M30.1730.C4	163.26		
						Work Order Total	3,845.56		
WO	582291	96	07	00200	1221.M				
					Labor	1720.B1		2.00-	
					Setup	1720.B2		4.00-	
					Variable Labor	1730.C3		.06-	
					Fixed Labor	1730.C4		.06-	
						Work Order Total		6.12-	
WO	582362	96	07	00200	0110.M				More...
					Labor	1720.B1		1.00-	
					Setup	1720.B2		2.00-	
					Machine	1720.B3		3.00-	
					Variable Machine	1730.C1		.03-	
					Fixed Machine	1730.C2		.03-	
					Variable Labor	1730.C3		.03-	
					Fixed Labor	1730.C4		.03-	
						Work Order Total		6.12-	
WO	582442	96	07	00200	1221.M				
					Labor	1720.B1		3.00-	
					Setup	1720.B2		6.00-	
					Variable Labor	1730.C3		.09-	
					Fixed Labor	1730.C4		.09-	
						Work Order Total		9.18-	
WO	582451	96	07	00200	1221.M				More...
					Labor	1720.B1		2.00-	
					Setup	1720.B2		4.00-	
					Machine	1720.B3		6.00-	
					Variable Machine	1730.C1		.06-	
					Fixed Machine	1730.C2		.06-	
					Variable Labor	1730.C3		.06-	
					Fixed Labor	1730.C4		.06-	
						Work Order Total		12.24-	
31450 J.D. Edwards World Page									
Open WIP Balance by G/L Account Date 8/31/									
Or	Order	WO	Cost	Item	Account	G/L	Debit	Credit	Amounts
Ty	Number	Sts	Meth	Number	Description	Account			
WO	582469	96	07	00200	1221.M				
					Labor	1720.B1		1.00-	
					Setup	1720.B2		2.00-	
					Machine	1720.B3		3.00-	
					Variable Machine	1730.C1		.03-	
					Fixed Machine	1730.C2		.03-	
					Variable Labor	1730.C3		.03-	

Create Journal Entries

This chapter contains these topics:

- [Section 18.1, "Creating Journal Entries,"](#)
- [Section 18.2, "Creating Journal Entries for Work in Process or Completions,"](#)
- [Section 18.3, "Reviewing Variances \(P3102\),"](#)
- [Section 18.4, "Creating Journal Entries for Variances,"](#)
- [Section 18.5, "Creating Journal Entries for Bulk Manufacturing Gains and Losses,"](#)
- [Section 18.6, "Reviewing Summarized Work Order Journal Entry Batches."](#)

18.1 Creating Journal Entries

You create journal entries for work in process (issues, labor entry, and machine run time), completions, and manufacturing variances as the first step towards posting these transactions to the general ledger.

If you have extra costs on purchased items, and you want to calculate their costs separately, you need to understand purchase price variance and material burden cost.

See Also:

- [Appendix A, "Calculations in Cost Rollup."](#)

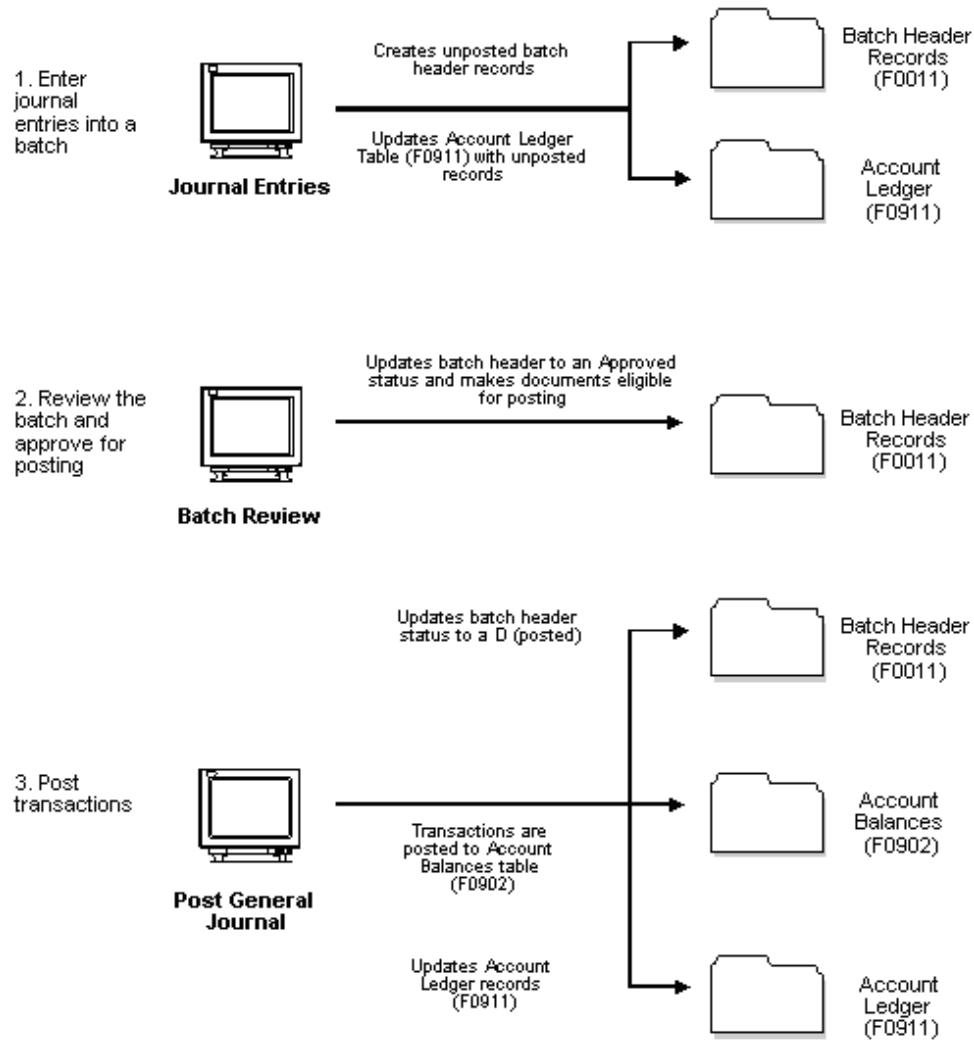
18.1.1 Journal Entries and the Three-Tier Process

When you enter daily journal transactions, you are performing the first of three steps in the JD Edwards World three-tier process. This process is used throughout all JD Edwards World entry programs and includes the following steps:

- Entering transactions into a batch
- Reviewing and approving the batch for posting
- Posting the batch transactions

The following graphic illustrates the three-tier process.

Figure 18-1 Three-Tier Process



Journal entries can occur in two ways:

- Manually, when you enter transactions through the General Accounting system, such as:
 - Accruals
 - Adjustments
 - Reclassifications
- Automatically, when the Journal Entries for Work in Process or Completions program generates journal entries based on another system's transactions, such as:
 - Manufacturing Accounting
 - Shop Floor Control

In the Manufacturing Accounting system, you use programs to create journal entries for various types of shop floor activity, including:

- Material issues
- Labor and machine reporting
- Completions

- Scrap
- Variances
 - Engineering
 - Planned
 - Material usage (actual)
 - Labor efficiency (actual)
 - Other (volume)

18.1.2 Detail and Summary Journal Entries

You can enter detail or summary entries for both debit and credit journal entry transactions. Use the object portion of the account number to control the level of detail of your journal entries.

Detail Journal Entries

To enter detail journal entries for a work order by cost component, enter a different object account number for each cost component.

For example:

Cost Component	Business Unit	Account Number
A1	M30	1341
B1	M30	1342
B2	M30	1343

Summary Journal Entries

To summarize the cost components for an item on a work order into a single journal entry, enter the costs with the same object account number.

For example:

Cost Component	Business Unit	Account Number
A1	M30	1340
B1	M30	1340
B2	M30	1340

In addition, you can set processing options to:

- Summarize material issues (document type IM) by account number within a work order. There is one journal entry for each unique combination of account number and work order number.
- Summarize all journal entries by account number across work orders and for all document types, including material issues. There is one entry for the batch for each account. The entry is the sum of all work orders transactions for each account by document type.
- Summarization across work orders takes precedence over summarization within a work order, in the event that both options are selected.
- Print a summarized Accounting Transaction report.

When journal entries for multiple work orders are summarized, the subledger (GLSBL) and subledger type (GLSBLT) fields are not populated.

When journal entries are created in detail, the subledger contains a work order number and subledger (GLSBT) will be populated with a W. Subledger type M will denote the summarization of one Work order in the General Ledger or the Report.

If you use summarized journal entries, the program batches the appropriate work orders and then builds the Cross-Reference table (F3106). The table can be viewed from the Work Order Processing menu (G3116), using the GL Review by WO Number menu (option 22).

18.2 Creating Journal Entries for Work in Process or Completions

Navigation

From Shop Floor Control (G31), choose Daily Manufacturing Accounting

From Daily Manufacturing Accounting (G3116), choose Work in Process or Completions

Journal Entries for Work in Process or Completions creates journal entries for shop floor activity. You can report transactions for material issues, completions, and labor and machine hours reported against a work order.

This program locates unaccounted units in the Parts List table, Routing Instructions table, and Work Order Master table, and creates journal entries for them. The program then purges the unaccounted units.

This program also updates information in the Production Cost File (F3102), which Journal Entries for Variances uses to create journal entries for transactions with variances.

This program uses the following AAI tables to match inventory and cost transactions to general ledger accounts.

AAI	Description
3110 Credit inventory, raw materials/subassemblies	Moves inventory cost from inventory during issue reporting. Not used by variance accounting.
3120 Debit/credit work in process	Moves inventory cost to WIP during inventory issue and shop hours report. Also moves inventory from WIP during inventory completion reporting.
3130 Debit inventory, subassemblies/finished goods	Moves inventory cost to inventory during the completion reporting. Not used by variance accounting.
3401 Credit accruals	Moves shop hour cost to accruals during shop hours reporting. Not used by variance accounting.

18.2.1 Hierarchy Search for the Appropriate DMAAI

The system locates the general ledger account number to use when generating manufacturing entries by accessing the appropriate AAI table and searching for a unique combination of the following five keys:

- Work Order Type for the AAI

- Company Number
- Document Type
- General Ledger Class Code
- Cost Type

The program makes the following four passes to retrieve this information prior to finalizing the selection.

- It will attempt to locate an exact match in the DMAAIs based on the five keys.
- Next it will search for a match by the Order Type, the Company number that the Branch/Plant reports to, and the G/L Class Code.
- Next it will search for a match by the Order Type, the default/wild card Company 00000 and the G/L Class Code.
- As a last resort it will select the default/wild card Company of 00000 with a G/L Class Code wild card of ****.

Figure 18–2 Manufacturing WIP Journal Entries for Work Orders in Process report

31803		JD Edwards World		Page 1					
Batch Type - 0		Manufacturing WIP Journal Entries		Date 4/03/17					
Batch Number - 129172		for Work Orders in Process							
Batch Date - 04/03/17		Status Less Than 95							
Report Mode - Summarize by Acct. across WO's									
J/S Mode - Summarize by Acct. across WO's									
G/L RECAP (Summarized by Account)									
Do	Document	Or	G/L	Co	Account Description	G/L Account	Amounts		LT
Ty	Ty	Date			Explanation	Subldgr-Ty	Debit	Credit	
IM	135634	WO	06/30/17	00200	Material	M30.1710.A1	3,416.28		AA
					Material Charged To W.O.'s				
					Summarized W.O.'s				
IM	135634	WO	06/30/17	00200	Material	M30.1510.A1		3,416.28-	AA
					Material Charged To W.O.'s				
					Summarized W.O.'s				
IH	135634	WO	06/30/17	00200	Outside Ops	M30.1710.D1	67.05		AA
					Labor Charged To W.O.'s				
					Summarized W.O.'s				
IH	135634	WO	06/30/17	00200	Labor	M30.1720.B1	59.86		AA
					Labor Charged To W.O.'s				
					Summarized W.O.'s				
IH	135634	WO	06/30/17	00200	Variable Labor	M30.1730.C3	44.18		AA
					Labor Charged To W.O.'s				
					Summarized W.O.'s				
IH	135634	WO	06/30/17	00200	Fixed Labor	M30.1730.C4	36.82		AA
					Labor Charged To W.O.'s				
					Summarized W.O.'s				
IH	135634	WO	06/30/17	00200	Other Charges	M30.1740.X	254.55		AA
					Labor Charged To W.O.'s				
					Summarized W.O.'s				
IH	135634	WO	06/30/17	00200	R&D	M30.1740.X5	.30		AA
					Labor Charged To W.O.'s				
					Summarized W.O.'s				
IH	135634	WO	06/30/17	00200	Accrued Payroll	200.4205		59.86-	AA
					Labor Charged To W.O.'s				
					Summarized W.O.'s				
IH	135634	WO	06/30/17	00200	Actual Burden Clearing Account	200.4333		335.85-	AA
					Labor Charged To W.O.'s				
					Summarized W.O.'s				
IH	135634	WO	06/30/17	00200	Other Accrued Expenses	200.4420		67.05-	AA
					Labor Charged To W.O.'s				
					Summarized W.O.'s				
IC	135634	WO	06/30/17	00200	Material	M30.1510.A1	3,332.07		AA
					Completed W.O.'s To Inventory				
					Summarized W.O.'s				
IC	135634	WO	06/30/17	00200	Material/Scrap	M30.1510.A2	95.76		AA
					Completed W.O.'s To Inventory				
					Summarized W.O.'s				
IC	135634	WO	06/30/17	00200	Outside Operations	M30.1510.D1	67.05		AA
					Completed W.O.'s To Inventory				
					Summarized W.O.'s				
IC	135634	WO	06/30/17	00200	Direct Labor	M30.1520.B1	55.92		AA
					Completed W.O.'s To Inventory				
					Summarized W.O.'s				
IC	135634	WO	06/30/17	00200	Setup Labor	M30.1520.B2	6.69		AA
					Completed W.O.'s To Inventory				
					Summarized W.O.'s				
IC	135634	WO	06/30/17	00200	Labor Efficiency	M30.1520.B4	12.99		AA

18.2.2 Configured Items

After the Order Processing (P31410) program establishes frozen standard costs for configured items, journal entries for configured items are created in the same way as for non-configured items.

See Also:

- [Section 16.5, "Reviewing Manufacturing AAIs."](#)

18.2.3 Processing Options

See [Section 25.5, "Manufacturing WIP Journal Entries \(P31802\)."](#)

18.3 Reviewing Variances (P3102)

Navigation

From Shop Floor Control (G31), choose Daily Manufacturing Accounting

From Daily Manufacturing Accounting (G3116), choose Variance Inquiry (P3102)

Review variances to identify errors before you run Journal Entries for Variances. For example, if you did not issue parts to a work order, a large actual variance appears. You can issue the parts, rerun Journal Entries for Work in Process or Completions, and review the variances again. After you correct any errors, run Journal Entries for Variances.

The Variance Inquiry screen displays the costs and variances associated with a work order. You can view variances by comparing amounts calculated in one mode to amounts calculated in another mode. Modes include:

- Frozen
- Current
- As planned
- Actual
- Completed

Variance Inquiry inserts defaults of 1 and 2 into the column modes when you first access the program. These defaults compare frozen costs with current costs, but you can change the values to compare different modes. The program uses frozen standard costs from the Cost Components table (F30026). Current amounts are based on the current bills of material, routings, and constants. Both frozen and current amounts are extended by the work order quantity.

The following table describes this interaction in more detail.

Figure 18-3 Variances Interaction Review

OPAT/OPUN	CCCA/CCCU	PLAT/PLUN	CLAT/CLUN	CPAT/CPUN
Show Amounts				
Standard Amount	Current Amount	Planned Amount	Actual Amount	Completed Amount
<u>Engineering Variance</u>		<u>Planned Variance</u>		<u>Other Variance</u>
		<u>Actual Variance</u>		
Parent item P30026 frozen std costs multiplied by W/O QTY at time of parts list attachment	Bill (F3002) and Routing (F3003) are used for these calculations. (units * frz std cost (P30026) of components and W/C rates * hours)	W/O Parts list (F3111) and Routing (F3112) are used for these calculations. (units * frz std cost (P30026) of components and W/C rates * hours)	W/O Parts list (F3111) and Routing (F3112) are used for these calculations. (units * frz std cost (P30026) of components and W/C rates * hours)	Parent item P30026 frozen std costs multiplied by W/O QTY at time of IC trx
<i>P a r t s L i s t</i>				
Work Order Quantity	Parts List Quantity	Current Parts List Quantity	Actual Quantity Issued Parts	Quantity Completed & Scrapped
x	x	x	x	x
30026 (Frozen Standard)	Current 30026 (Frozen Standard)	Current 30026 (Frozen Standard)	Current 30026 (Frozen Standard)	30026 (Frozen Standard)
From parent	From components	From current components	From current components	From parent for each cost type
<i>R o u t i n g</i>				
Work Order Qty	Current Routing	Current Routing	Actual Reported Hours	Qty Completed & Scrapped
x	x	x	x	x
30026 (Frozen Standard)	Current 30008 (Frozen Standard)	Current 30008 (Frozen Standard)	Current 30008 (Frozen Standard)	30026 (Frozen Standard)
Work Center Rates from parent	Work Center Rates	Work Center Rates	Work Center Rates	from parent for each cost type
<i>P o p u l a t e d b y</i>				
Attaching Parts	Attaching Parts	Running Manufacturing Accounting in proof or final.	Running Manufacturing Accounting (P31802) in final	Running Manufacturing Accounting (P31802) in final
List and Routing to Work Order Interactively or Batch (P31410)	List and Routing to Work Order Interactively or Batch (P31410)	Planned cost is recalculated each time the P31802 is run		

The following describes how the system calculates the different types of variances:

- Engineering Variance - This type of variance identifies an "engineering" or design change to the original bill of material and routing. The system uses AAI 3270 to write a journal entry for the difference between frozen standard for the parent and the parts list x frozen component cost (and routing x current frozen work center rates as attached to the work order).
- Planned Variance - This type of variance identifies a "planned" change to the parts list or routing. The system uses AAI 3260 to write a journal entry for the difference between the "current" parts list and routing as originally attached and the parts list and routing at the time P31802 was run.
- Actual Variance - This type of variances identifies the "actual" shop floor activity. The system uses AAI 3240 to write a journal entry for the difference between actual material issues and the planned parts list.

Uses AAI 3220 to write a journal entry for the difference between actual hours and the planned routing

- Other Variance - The system uses AAI 3280 to write journal entries for rounding differences, differences created by freezing standard costs for an open work order, and differences created by over- or under-completing the work order.

Note: See [Section 25.6, "Manufacturing Variance Journal Entries \(P31804\),"](#) Over/Under Completions Tab, Restate Production Costs. If this processing option is set, over- and under-completions variances will be eliminated.

18.3.1 What You Should Know About

Topic	Description
Configured Items	If you manufacture configured items, no engineering variance exists because there is no bill of material.
Process Industry Accounting	<p>Small engineering variances can appear on Variance Inquiry because the frozen amounts differ slightly from the current amounts. However, Journal Entries for Variances rounds the amounts, and no variances print on the report.</p> <p>Amounts are calculated in the process industry as follows:</p> <ul style="list-style-type: none"> Frozen amounts - Frozen amounts are based on the cost of the process, from the Cost Components table (F30026). Actual amounts - The actual costs of the ingredients issued are added to calculate the actual A1 cost of the process. Completed amounts - For each cost component, the completed costs of the co- and by-products are added to calculate the completed cost of the process for that cost component. For example, the completed B1 cost of all co- and by-products is added. The sum of the B1 costs is the completed B1 cost of the process.
Flex Accounting for Manufacturing Accounting	You can use Flex Accounting when generating journal entries for Shop Floor work orders.
Flex Accounting for Variance Accounting	You can use Flex Accounting when generating journal entries for Shop Floor work order variance accounting.
Flex Accounting for Close Actual Cost Work Order	You can use Flex Accounting when generating journal entries and closing actual cost Shop Floor work orders.

To review variances

On Variance Inquiry

Figure 18-4 Variance Inquiry screen

1. Complete the following fields:
 - Column 1 Mode
 - Column 2 Mode
 - Order Number
2. Review the following fields:
 - Quantity Ordered
 - Quantity Completed
 - Item
 - Cost
 - Parent/Component
 - Variance Amount

Depending on the values you entered for Column 1 Mode and Column 2 Mode, two of the following amounts appear:

- Frozen Amount
- Current Amount
- As Planned Amount
- Actual Amount
- Completed Amount

Field	Explanation
Column 1 Mode	<p>Determines which amounts the system displays in the first column on the data table for the work order. Valid codes are:</p> <ul style="list-style-type: none"> 1 – Frozen (Standard) Cost 2 – Current Cost 3 – Planned Cost 4 – Actual Cost 5 – Completed Cost (includes scrapped) <p>The difference (variance) between column 1 and column 2 amounts displays in the Variance Amount (3rd) column.</p>
Column 2 Mode	<p>Determines which amounts the system displays in the second column on the data table for the work order. Valid codes are:</p> <ul style="list-style-type: none"> 1 – Frozen (Standard) Cost 2 – Current Cost 3 – Planned Cost 4 – Actual Cost 5 – Completed Cost (includes scrapped) <p>The difference (variance) between column 1 and column 2 amounts displays in the Variance Amount (3rd) column.</p>
Quantity Ordered	<p>The quantity of units affected by this transaction.</p> <p><i>Form-specific information</i></p> <p>The original order quantity for the work order.</p>
Quantity Completed	<p>The units completed for the work order.</p> <p><i>Form-specific information</i></p> <p>The sum of units completed and scrapped on the work order.</p>
Process/Item	<p>A number that the system assigns to an item. It can be in short, long, or 3rd item number format.</p> <p><i>Form-specific information</i></p> <p>This column contains either the number assigned to the item on the work order or a brief description of the item.</p>

Field	Explanation
Cost	<p>This code designates each element of cost for an item. An example of the coding structure is:</p> <p>A1 – Purchased raw material B1 – Direct labor routing sheet rollup B2 – Setup labor routing sheet rollup C1 – Variable burden routing sheet rollup C2 – Fixed burden routing sheet rollup Dx – Usually used for outside processing routing sheet rollup Xx – Usually used for extra add-ons, such as electricity, water, and so forth</p> <p>The optional add-on computations usually operate with the type "X" extra add-ons. This cost structure allows you to use an unlimited number of cost components to calculate alternative cost rollups. The system then associates these cost components with one of six user defined summary cost buckets.</p> <p><i>Form-specific information</i></p> <p>This code indicates which cost element, or type of cost, the amounts are for.</p>
P/C	<p>A code that indicates if the parent item number has a child item number associated with it. Valid codes are:</p> <p>Blank No relationship has been defined. P – Parent number. C – Child number. B – Co-/By-Product</p>

See Also:

- [Appendix B, "Calculations for Variances."](#)

18.4 Creating Journal Entries for Variances

Navigation

From Shop Floor Control (G31), choose Daily Manufacturing Accounting

From Daily Manufacturing Accounting (G3116), choose Variances

Journal Entries for Variances (P31804) creates detailed or summary journal entries for work order and rate schedule variances. These include engineering, planned, actual, and other variance transactions for the following items:

- Material issues
- Hours entry
- Material completions

The program generates an exceptions report that lists errors such as invalid account numbers. If no errors exist, the report states that the batch is error-free. However, this error check is not as comprehensive as the error check for the general ledger post process.

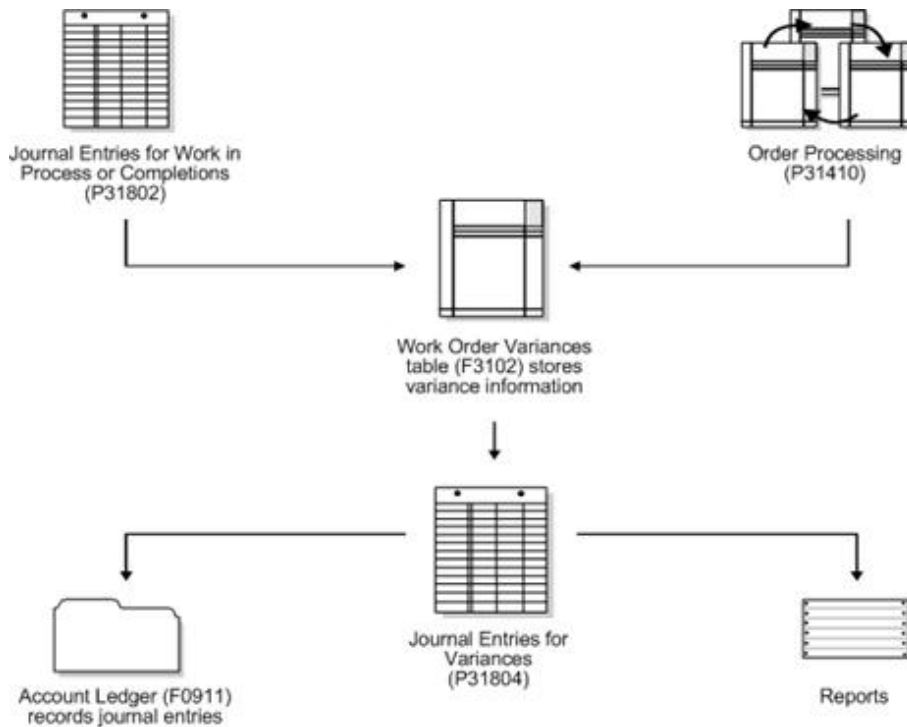
You can set processing options to:

- Indicate to which general ledger date to post entries
- Indicate the document type for the manufacturing variances
- Use the work order number as the subledger number for detailed journal entries
- Update the status of the work orders processed
- Run the program in proof or final mode
- Summarize journal entries
- Print an accounting journal report that details the journal entries
- Calculate the variances using either the:
 - Completed (plus scrapped) quantity, or
 - Ordered quantity
 - Eliminate/Reduce the 'Other' type variance caused by the over/under completion of the work order.

When you run this program in final mode, the system creates a batch of journal entries for posting to the general ledger.

The following graphic illustrates the flow of information when you run Journal Entries for Variances.

Figure 18–5 Journal Entries for Variances Flow



This program creates journal entries for variances using the following calculations.

Variance	Description
Engineering	Standard (frozen) cost minus current cost Results from a change to the standard bill of material or standard routing.

Variance	Description
Planned	Current cost minus planned cost Results from a change to the parts list or routing instructions, or from a shrink factor.
Material usage (actual)	Planned cost minus actual cost
Cost components A1 and A2	Results from over- or under-issues.
Labor efficiency (actual)	Planned cost minus actual cost
All cost components except A1 and A2	Results from having actual hours that differ from the standard hours.
Other (to clear out WIP)	Completed cost minus standard cost Results from doing a cost rollup in the middle of the cycle.

Note: When selecting OVER/UNDER COMPLETIONS, the program will re-state the standard, current, and planned production costs in the Production Cost File (F3102) based on completed + scrapped quantities. The 'Other' type variance that is caused by the over or under completion of the work order will be avoided. The use of PROOF mode is recommended, to avoid unexpected and final updates to Production Cost File (F3102).

The program uses the following AAI tables to match inventory and cost transactions to general ledger accounts:

AAI	Description
3120	WIP
3220	Variances, Labor
3240	Variances, Material
3260	Variances, Planned
3270	Variances, Engineered
3280	Other

The system uses the following data to match the transaction to the AAI account:

- Work order type for the AAI.
- Table number for the AAI. If the system does not find a match, it uses table 3280.
- Company number associated with the work order or component branch/plant. If the system does not find a match, it uses 00000.
- Document type associated with the transaction.
- G/L category code for the transaction item. If the system does not find a match, it uses **** (four asterisks).
- Cost component.

18.4.1 Before You Begin

- Run one or more available reports to review your production costs and variances. See [Section 20.6, "Reviewing World Writer Reports for Manufacturing Accounting."](#)

Figure 18–6 Manufacturing Variance Journal Entries report

31805		JD Edwards World				Page	1		
Batch Type	-	129173	Manufacturing Variance Journal Entries		Batch Date	4/03/17			
Batch Number	-	04/03/17	for Completed Work Orders		Order Status	Eq 96			
Batch Date	-	Summarize by Acct. across WO's							
Report Mode	-	Summarize by Acct. across WO's							
J/S Mode	-	Summarize by Acct. across WO's							
G/L Recap (Summarized by Account)									
Do Ty	Document	Or Ty	G/L Date	Co	Account Description	G/L Account Subldgr-Ty	Debit	Credit	LT
IV	135642	WO	04/03/17	00200	Direct Labor (Actual)	M30.6076.B1	3.95		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Setup Labor (Actual)	M30.6076.B2	8.92-		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Labor Eff (Actual)	M30.6076.B4	12.99-		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Material (Actual)	M30.6083.A1	84.21		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Scrap (Actual)	M30.6083.A2	95.76-		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Var Labor (ENG)	M30.6086.C3	1.34		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Fixed Labor (ENG)	M30.6086.C4	1.12		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Var Labor (Actual)	M30.6088.C3	2.52-		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Fixed Labor (Actual)	M30.6088.C4	2.10-		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Setup Labor	M30.6091.B2	2.23		AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Material	M30.1710.A1		84.21-	AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Scrap	M30.1710.A2		95.76	AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Labor	M30.1720.B1		3.95-	AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Setup	M30.1720.B2		6.69	AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Labor Efficiency	M30.1720.B4		12.99	AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Variable Labor	M30.1730.C3		1.18	AA
					Variance Calculated for W.O.'s				
					Summarized Variances				
IV	135642	WO	04/03/17	00200	Fixed Labor	M30.1730.C4			

See Also:

- [Section 16.5, "Reviewing Manufacturing AAls."](#)

18.4.2 Processing Options

See [Section 25.6, "Manufacturing Variance Journal Entries \(P31804\)."](#)

18.4.3 Using the Close Actual Cost Work Order (P31806)

Since actual cost is not comparing costs to a standard, manufacturing variances are not created. Therefore you should not run the Manufacturing Variances Journal Entries (P31804) for actual cost work orders.

Instead, use Close Actual cost Work Order Accounting (P31806) to look for and find any costs that were not included at the time of completion (P31114). If unaccounted units or amounts are found, the report will instruct the user to run Manufacturing Accounting (P31802) before running P31806.

P31806 will write journal entries to clear WIP and adjust the Inventory balance. It will also adjust the finished good cost in the Cardex (P4111) and the per unit cost in (P4105) Cost Revisions.

18.4.4 Processing Options

See [Section 25.7, "Work Order Closing and Clear WIP \(P31806\)."](#)

18.5 Creating Journal Entries for Bulk Manufacturing Gains and Losses

Navigation

From Bulk Stock Management (G4150), choose Bulk Stock Reconciliations

From Bulk Stock Reconciliations (G41502), choose Gain/Loss Analysis Report

If you use bulk manufacturing and you indicated on the Work Center Master (F30006) that you want to calculate gains and losses, use this program to calculate the gains and losses. The program reads the Production Cost File (F3102) to calculate the total quantity issued and completed for a work center within a work order. The difference between the quantity issued and the quantity completed is the gain or loss for that work center. The program then writes a journal entry to the gain and loss account, and the offset to the manufacturing variance account for Other variances.

Figure 18-7 Bulk Gain/Loss Exceptions and Gain/Loss Posting reports

Bulk Gain/Loss Exceptions										Page	1	
										Date	12/31/17	
Batch Number	Account Number	G/L Date	AAI Num	Do Ty	G/L Cat	Cost Type	Document Number	Or Ty	Amount	Error Messages		
12345678	249.7513.AI	07/15/16	3280	IV	IN40	AI	12345678	WO	5.18	Account Number Invalid		

Gain/Loss Posting Report										Page	1	
										Date	12/31/17	
415142	Batch Type	- O										
	Batch Number	- 12345678										
	Batch Date	- 07/15/16										
	Report Mode	- Detailed										
	J/E Mode	- Detailed										
Do Ty	Document Ty	Or Date	G/L Date	Co	Account Description	G/L Subldgr	Account Ty	Amounts		LT		
											Debit	Credit
IV	12345678	WO	07/15/16	00249	Bulk Gains/Losses	249.9142		5.13		AA		
					Work Center	BLEND1	12345678	W				
					Process Lube Oil 1 Blending							
					Gain/Loss Quantity:	3	LT					
IV	12345678	WO	07/15/16	00249	Material Variance	249.7513.AI				5.13- AA		
					Work Center	BLEND1	12345678	W				
					Process Lube Oil 1 Blending							
								Batch Total	5.13	5.13-		
								Report Total	5.13	5.13-		

18.5.1 Processing Options

See [Section 25.11, "Gain/Loss Analysis Report \(P415402\)."](#)

18.6 Reviewing Summarized Work Order Journal Entry Batches

Navigation

From Shop Floor Control (G31), choose Daily Manufacturing Accounting

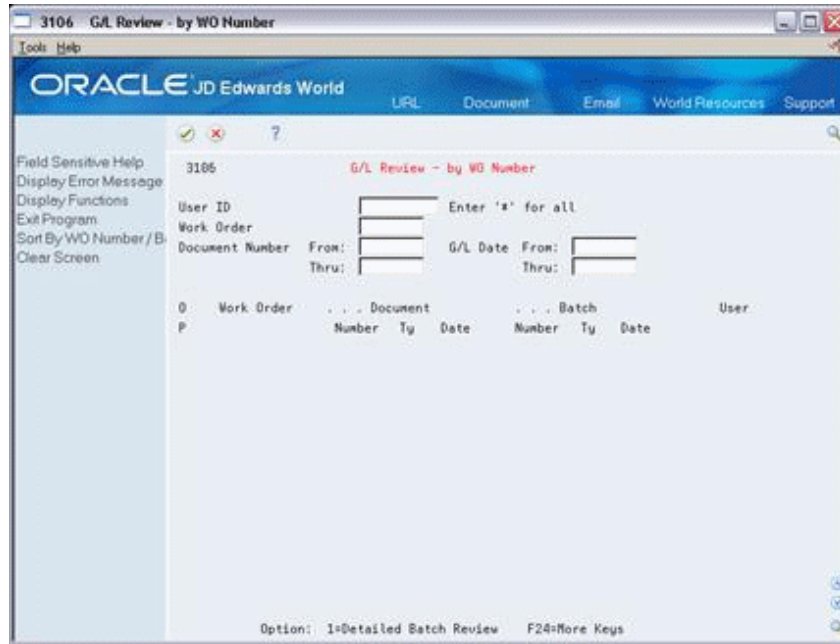
From Daily Manufacturing Accounting (G3116), choose G/L Review - by WO Number

You can view which work orders were summarized into a particular batch.

To review summarized work orders

On G/L Review - by WO Number

Figure 18–8 G/L Review - by WO Number screen

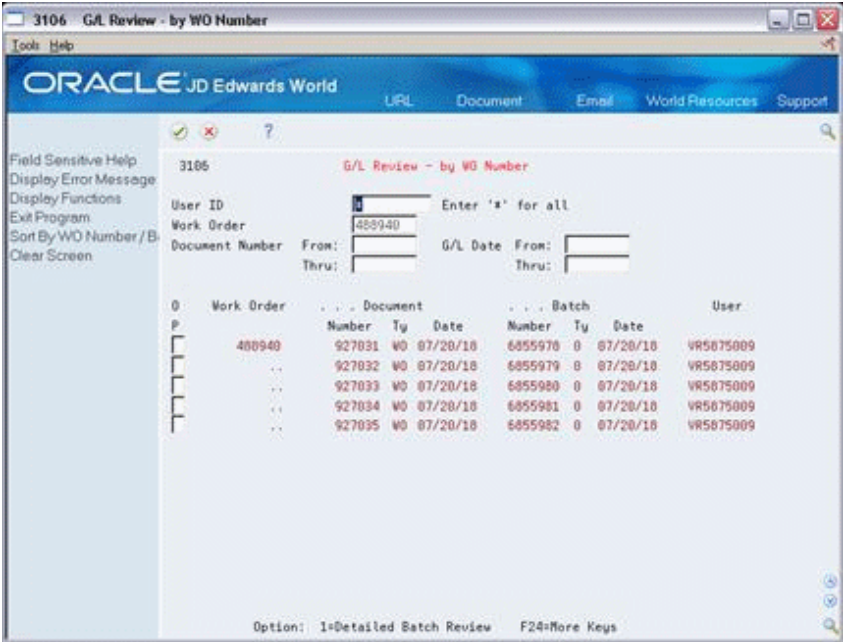


Complete one or more of the following fields:

- User ID
- Work Order
- Document Number From:
- Document Number Thru:
- G/L Date From:
- G/L Date Thru:

The G/L Review - by WO Number screen displays summarized work order journal entries, their batch dates, and their general ledger dates.

Figure 18-9 G/L Review - by WO Number (Detail) screen



Review General Ledger Batches

This chapter contains the topic:

- [Section 19.1, "Reviewing General Ledger Batches."](#)

19.1 Reviewing General Ledger Batches

Navigation

From Shop Floor Control (G31), choose Daily Manufacturing Accounting

From Daily Manufacturing Accounting (G3116), choose G/L Review

After you generate journal entries, you review and approve them before posting them to the general ledger. This review is the second step in the JD Edwards World three-tier process.

When you review G/L batches, you can:

- Review all or specific batches
- Review G/L batch detail
- Review the original journal entry document

Each batch of journal entries has one of the following status codes:

- Pending
- Approved
- Error

The status that the system assigns depends on how you set the management approval in the Application Constants (F8 from the Branch/Plant Constants). If a batch has an error status, the system prevents it from posting.

The system updates information in the Batch Control (F0011) and the Account Ledger (F0911) tables.

Note: If you change, void, or add transactions to a posted batch, the system automatically changes the batch status from posted to the default entry status of pending or approved. You must then repost the batch. The post only processes changed transactions.

19.1.1 Before You Begin

- Verify that you have set up your general accounting system properly.

- Set the management approval in the Application Constants constants for approving journal entries for posting. This depends on the workflow and responsibility controls you establish for your organization.

See Also:

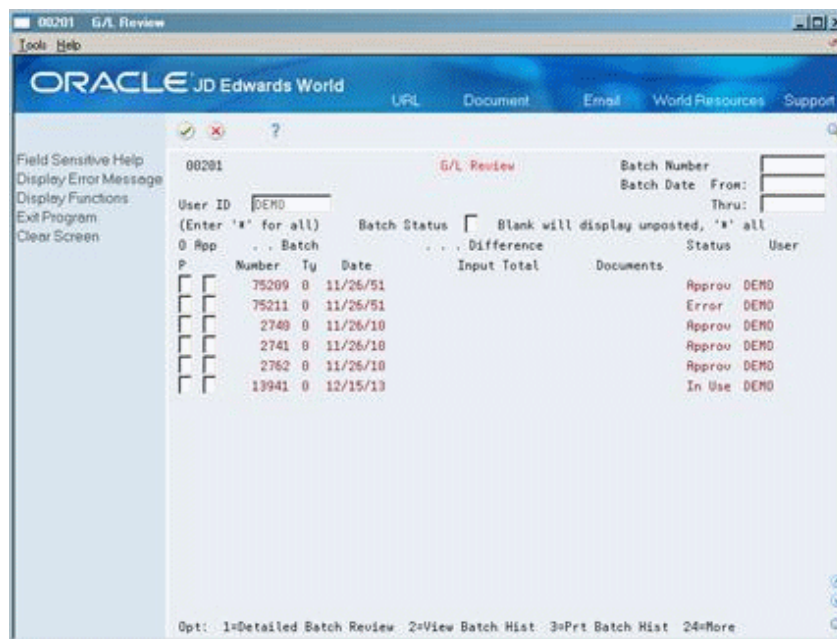
- [Section 18.1, "Creating Journal Entries,"](#)
- Reviewing Journal Entries in the *JD Edwards World General Accounting I Guide*.

To review all or specific G/L batches

When you review all or specific journal entry batches, you can also approve a batch for posting (if allowed), change the status of a batch, or select a particular batch of journal entries to review the batch detail.

On G/L Review

Figure 19–1 G/L Review screen



Review the following fields:

- Batch Number
- Batch Date From
- Batch Date Through
- User ID
- Batch Approved for Posting
- Batch Number
- Batch Type
- Batch Date
- Status
- User

Field	Explanation
Batch Number	A number that identifies a group of transactions that the system processes and balances as a unit. When you enter a batch, you can either assign a batch number or let the system assign it through Next Numbers. When you change, locate, or delete a batch, you must specify the batch number.
From:	The date of the batch. If you leave this field blank, the system date is used.
Thru:	The ending date of the range for the batches you want to display. If you specify a From date and leave the Thru date blank, the system displays all batches with that batch date and future batch dates.
User ID	The IBM-defined user profile.
App	A code that indicates whether a batch is ready for posting. Valid codes are: A – Approved, ready for posting. P – Pending approval. The batch will not post. If the Application Constants (F8 from the Branch/Plant Constants) do not specify manager approval, the system automatically approves batches that are not in error.
Ty	A code that indicates the system and type of entries for a batch. This is a user-defined code (system 98, type IT).
Batch Date	The date for the batch. If this is an entry field and you leave it blank, the system supplies the current date.
Batch Status	A – user-defined code (98/IC) that indicates the posting status of a batch. Valid codes are: blank Unposted batches that are pending approval or have a status of approved. A – Approved for posting. The batch has no errors, is in balance, but has not yet been posted. D – Posted. The batch posted successfully. E – Error. The batch is in error. You must correct the batch before it can post. P – Posting. The system is posting the batch to the general ledger. The batch is unavailable until the posting process is complete. If errors occur during the post, the batch status is changed to E (error). U – In use. The batch is temporarily unavailable because someone is working with it.

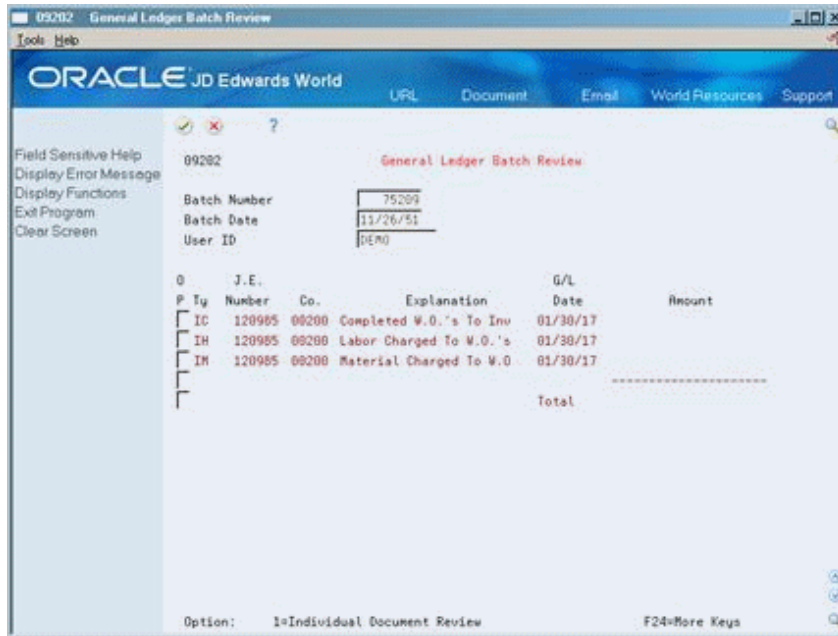
To review G/L batch detail

You can review detailed batch header information and general journal entry information (one line per document) for a batch. You can also select a specific journal entry from the batch to review or revise.

On G/L Review

1. Access General Ledger Batch Review (Option 1).

Figure 19–2 General Ledger Batch Review screen



2. On General Ledger Batch Review, review the following fields:

- Mode
- Type
- Journal Entry Number
- Company
- Explanation
- G/L Date
- Amount
- Currency Code

Field	Explanation
Mode(F)	This code indicates whether amounts are in the domestic currency of the company that the accounts are associated with, or in the foreign currency of the transaction. If Detailed Currency Restatement is being used, amounts restated from the domestic currency of the company that the accounts are associated with are shown. Codes are: D – Domestic F – Foreign

Field	Explanation
Ty	<p>A user defined code (system 00/type DT) that identifies the origin and purpose of the transaction.</p> <p>JD Edwards World reserves several prefixes for document types, such as vouchers, invoices, receipts, and timesheets.</p> <p>The reserved document type prefixes for codes are:</p> <p>P – Accounts payable documents R – Accounts receivable documents T – Payroll documents I – Inventory documents O – Order processing documents J – General ledger/joint interest billing documents</p> <p>The system creates offsetting entries as appropriate for these document types when you post batches.</p>
Co	<p>A number that, along with document number, document type and G/L date, uniquely identifies an original document, such as invoice, voucher, or journal entry.</p> <p>For World, if you are using the Next Numbers by Company/Fiscal Year feature, the Automatic Next Numbers program (X0010) uses the document company to retrieve the correct next number for that company.</p> <p>If two or more original documents have the same document number and document type, you can use the document company to locate the desired document.</p>
Explanation	A description, remark, explanation, name, or address.
G/L Date	A date that identifies the financial period to which the transaction will be posted. The company constants table for general accounting specifies the date range for each financial period. You can have up to 14 periods. Generally, period 14 is for audit adjustments.
Amount	The gross amount of an invoice or voucher pay item, including tax but not including discounts. The total amount for a voucher or invoice is the accumulation of the open pay items. The accounting distributions must balance to the net amount of a voucher or invoice, not to the gross amount.
Cur Cod	<p>A code that indicates the currency of a customer's or a supplier's transactions.</p> <p><i>Form-specific information</i></p> <p>This is the currency code of the transaction if the form is displaying foreign amounts (F in the Mode field). It is the currency code of the company if the form is displaying domestic amounts (D in the Mode field).</p>

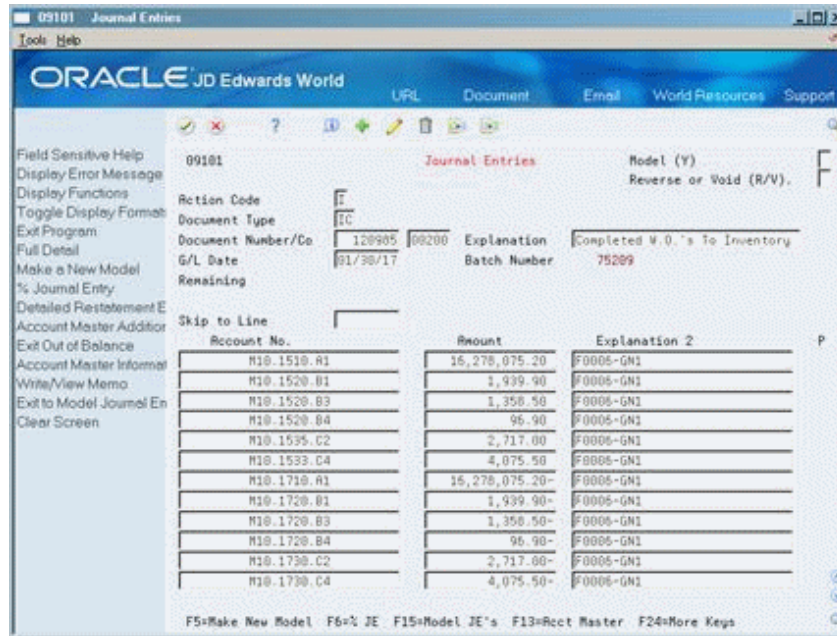
To review the original journal entry document

You can review the original journal entry document. You can also make changes to the accounting distributions, as well as add a new transaction to an existing batch.

On G/L Review

1. Access General Ledger Batch Review.
2. On General Ledger Batch Review, access Journal Entries (Option 1).

Figure 19-3 Journal Entries screen

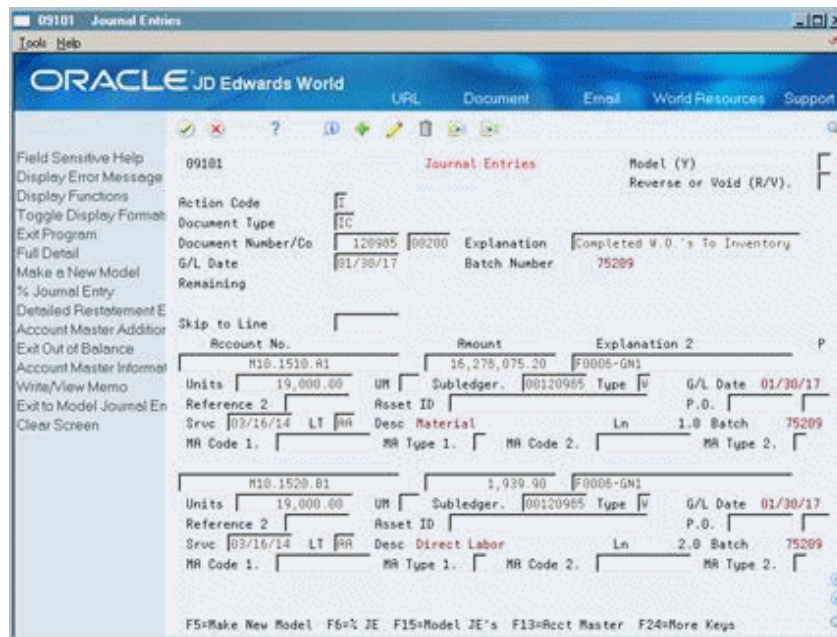


3. On Journal Entries, review the following fields:

- Account Number
- Amount
- Explanation 2

4. Access the detail area (F4).

Figure 19-4 Journal Entries (Detail) screen



5. Review the following fields:

- Units

- Subledger
- Type
- G/L Date
- Ledger Type

Field	Explanation
Account No	<p>A field that identifies an account in the general ledger. You can use one of the following formats for account numbers:</p> <ul style="list-style-type: none"> ■ Standard account number (business unit.object.subsidiary or flexible format) ■ Third G/L number (maximum of 25 digits) ■ 8-digit short account ID number ■ Speed code (not currently available in OneWorld) <p>The first character of the account indicates the format of the account number. You define the account format in the General Accounting Constants program.</p> <p><i>Form-specific information</i></p> <p>Depending on your general accounting constants, you might be able to accept an invalid account number. Insert an & (ampersand) as the first character in front of the invalid account number. For example, &90.1107</p>
Amount	<p>A number that identifies the actual amount. Type debits with no sign or a plus sign (+). Type credits with a minus sign (-) either before or after the amount. You can use decimals, dollar signs, and commas. The system ignores non-significant symbols.</p> <p><i>Form-specific information</i></p> <p>For a percent journal entry or a model for percent journal entries, enter the percent to be distributed to the account without a % (percent) sign. For example, enter 25.75 for 25.75%. The system will calculate the amount as a percentage of the amount to distribute.</p> <p>When you use the Journal Entry format with separate debit and credit columns, omit signs. Instead, enter the amount in the appropriate column (debit or credit).</p>
Explanation 2	<p>A name or remark that describes an element in the JD Edwards World systems.</p> <p><i>Form-specific information</i></p> <p>An optional description of the transaction or a remark. Press the key that is set up to act as a duplication key to copy the description from the preceding line.</p>
Units	<p>The quantity of something that is identified by a unit of measure. For example, it can be the number of barrels, boxes, cubic yards, gallons, hours, and so on.</p>
Subledger	<p>A code that identifies a detailed auxiliary account within a general ledger account. A subledger can be an equipment item number, an address book number, and so forth. If you enter a subledger, you must also specify the subledger type.</p>

Field	Explanation
Type	<p>A user-defined code (00/ST) that is used with the Subledger field to identify the subledger type and subledger editing. On the User Defined Codes form, the second line of the description controls how the system performs editing. This is either hard-coded or user-defined. For example:</p> <p>A – Alphanumeric field, do not edit</p> <p>N – Numeric field, right justify and zero fill</p> <p>C – Alphanumeric field, right justify and blank fill</p>
G/L Date	<p>A date that identifies the financial period to which the transaction is to post. The company constants table for general accounting specifies the date range for each financial period. You can have up to 14 periods. Generally, period 14 is for audit adjustments.</p>
Ledger Type	<p>A user-defined code (system 09/type LT) that specifies the type of ledger, such as AA (Actual Amount), BA (Budget Amount), or AU (Actual Units). You can set up multiple, concurrent accounting ledgers within the general ledger to establish an audit trail for all transactions.</p> <p><i>Form-specific information</i></p> <p>The default ledger type is AA.</p>

Post to the General Ledger

This chapter contains these topics:

- [Section 20.1, "Posting to the General Ledger,"](#)
- [Section 20.2, "Posting Manufacturing Journal Entries,"](#)
- [Section 20.3, "Reviewing the Posting Edit Report for Manufacturing,"](#)
- [Section 20.4, "Reviewing the Posting Journal Report,"](#)
- [Section 20.5, "Reviewing the Item Ledger/Account Integrity Report,"](#)
- [Section 20.6, "Reviewing World Writer Reports for Manufacturing Accounting,"](#)

20.1 Posting to the General Ledger

Update your account balances with amounts from journal entries by posting the journal entries to the general ledger. After posting, the system provides several reports that you can use to view the journal entries that have been posted.

20.2 Posting Manufacturing Journal Entries

Navigation

From Manufacturing Systems (G3), choose Manufacturing Accounting

From Manufacturing Accounting (G3116), choose Post General Journal

After you enter, review, and approve journal entries, use Post General Journal to post the journal entries to the general ledger.

You can only run one post at a time. You must ensure that all post menu selections are routed to the same job queue and that the job queue only allows one job to process at a time.

Caution: JD Edwards World strongly recommends that you do not customize the post program.

The post is the third step of the JD Edwards World three-tier process. The post itself consists of two phases, the pre-post process and the post process.

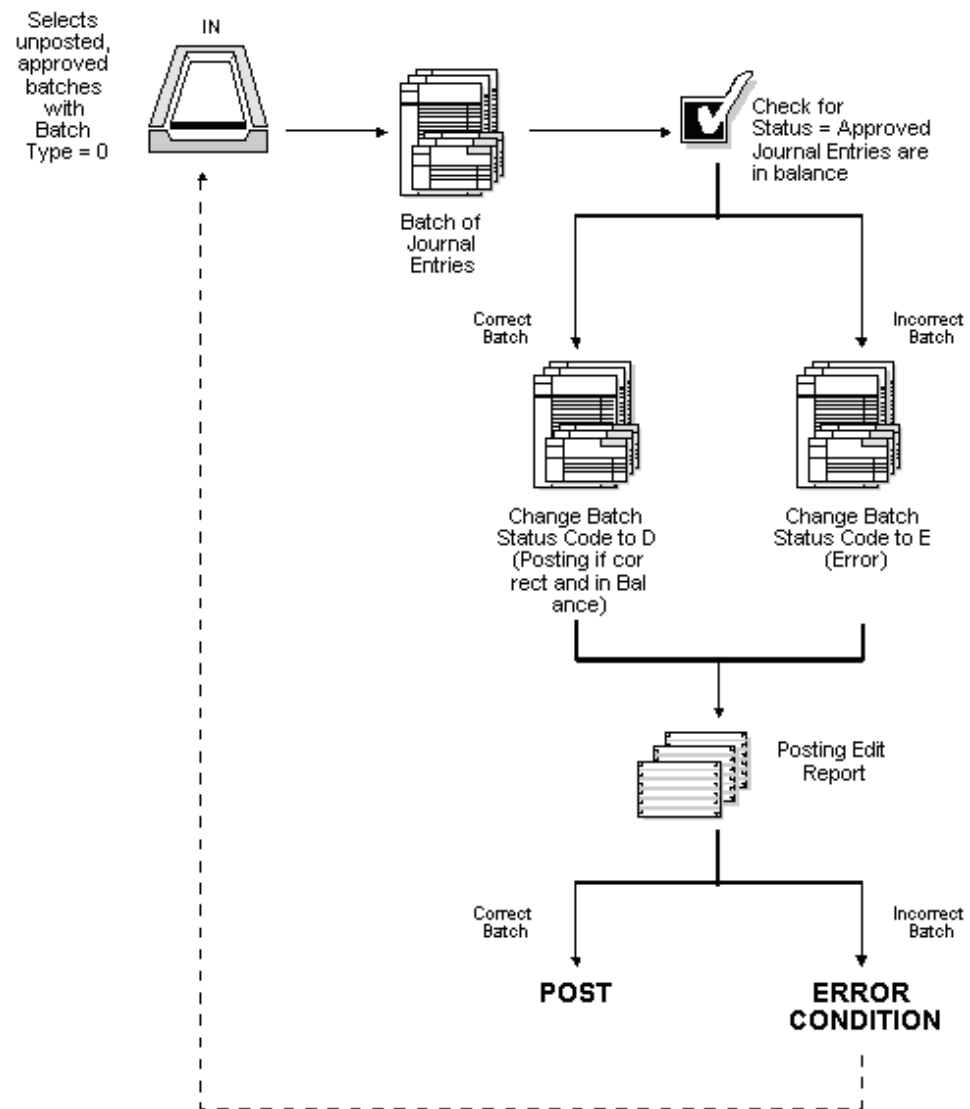
20.2.1 Pre-Post Process

The pre-post process consists of several elements:

Pre-Post Element	Description
Selection	The Post General Journal program selects unposted, approved transactions with a batch type 0 and other criteria specified in the processing options. These transactions come from the Account Ledger table (F0911).
Detail edit	The program edits each transaction to determine whether: <ul style="list-style-type: none"> ■ The account exists in the Account Master and is a posting account. ■ The business unit is valid in the Business Unit Master table (F0006). ■ The G/L date is valid. ■ Intercompany transactions exist. ■ Detail currency restatement should be done.
Batch edit	The program edits each batch to ensure that it is approved and in balance. If the program finds any errors, it does not post the batch.
Posting Edit report	This report lists all batch errors that have occurred. It prints in batch sequence.
Error conditions	If any transaction in the batch is in error, the program places the entire batch in error, which prevents it from posting.

Note: You should not make changes to the accounts, automatic accounting instructions (AAIs), intercompany settlements, general accounting constants, or processing options when you run the post.

The following graphic illustrates the pre-post process.

Figure 20–1 Pre-Post Process

20.2.2 Post Process

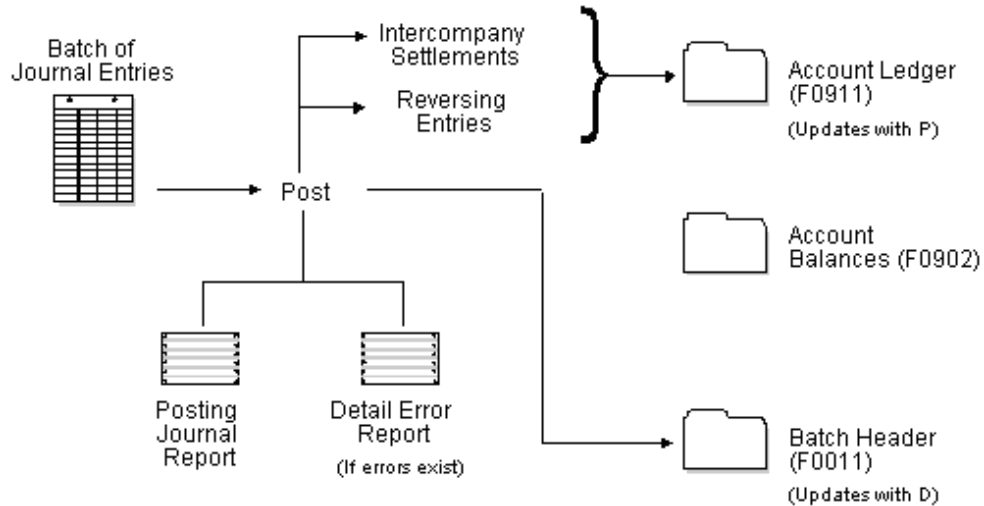
The Post General Journal program only posts batches when no errors are found in the pre-post process. In general, the program:

- Posts transactions to the Account Balances table (F0902) and marks each transaction and the batch header as posted in the Account Ledger table and the Batch Control table (F0011)
- Changes the batch status for the Batch Control table to D
- Marks each transaction with a status of P (posted)
- Performs intercompany settlements for ledger types AA (actual amounts), XA, YA, CA, AZ, and ZA (detailed currency restatement amounts), if requested
- Creates reversing entries, if requested
- Generates two reports:

- Posting Journal report, which lists the transactions posted to the Account Balances and the Account Ledger tables
- Detailed Post Error report, which lists the detail transactions in a batch if there is a balancing error.

The following graphic illustrates the post process.

Figure 20–2 Post Process



20.2.3 Before You Begin

- Verify that the batch has an approved status. See [Section 19.1, "Reviewing General Ledger Batches."](#)
- Verify that the post is submitted to a single-threaded job queue.

See Also:

- [Section 18.1, "Creating Journal Entries,"](#)
- Reviewing Journal Entries in the *JD Edwards World General Accounting I Guide*,
- Post Journal Entries in the *JD Edwards World General Accounting I Guide*.

20.2.4 Processing Options

See [Section 25.12, "General Ledger Post \(P09800\)."](#)

20.3 Reviewing the Posting Edit Report for Manufacturing

Each time you run Post General Journal, the program generates the Posting Edit Report. This report lists errors detected during the post. If the program finds errors, it does not post the batch. You must correct all errors in order for the batch to be posted.

Figure 20–3 Posting Edit Report

09800	JD Edwards World General Ledger Post - General Accounting Posting Edit Report				Page 4	Date 4/24/17
Create Intercompany Settlements: Y						
Batch Number	Batch Date	Account Number - Input Account ID	G/L Date Subldgr	Do Document Ty	JE Line Number	Error Messages
89287	04/24/17					***NO ERRORS*** Batch will post.

20.3.1 Common Posting Errors

Error	Description
Batch not approved for posting	This error message is caused by a batch with a pending or error status.
Account not set up in Account Master table (F0901)	<p>Two situations can cause this error message:</p> <ul style="list-style-type: none"> An undefined account number (designated as # during journal entry) was entered. To correct this, locate the document number and line number on the Journal Entries form. Change the # on the detail line to the valid account number. An undefined account number was not set up prior to posting, or it does not meet the model account criteria to be automatically created by the system. Add the G/L account number on Accounts by Object.
Batch journal entries out-of-balance	<p>This error message occurs when debits do not equal credits. If the out-of-balance journal entry was entered in error, correct the error and post the batch again.</p> <p>Other situations can cause a journal entry to be out-of-balance. For example:</p> <ul style="list-style-type: none"> A power failure might have occurred during entry or posting. A valid, one-sided journal entry might have been entered to correct a conversion error made during setup. <p>For information about how to enter an out-of-balance transaction, see <i>Correct Out-of-Balance Batches</i> in the <i>JD Edwards World General Accounting II Guide</i>.</p>

20.4 Reviewing the Posting Journal Report

Each time you run Post General Journal, the program generates the Posting Journal report during the post process. This report lists the transactions posted to the Account Balances and Account Ledger tables.

Figure 20-4 Posting Journal report

09801		JD Edwards World				Page	1
Batch Type - G		General Ledger Post - General Accounting				Date	4/24/17
Batch Number - 83257							
Batch Date - 04/24/17							
Posting Journal							
Post Out of Balance :							
Create Intercompany Settlements: Y							
Do Ty	Document	G/L	Co	Account Description	G/L Account Subldgr-Ty/Asset Number	Amounts	LT Units
				Explanation		Debit	Credit
JE	1522	03/31/17	00100	Miscellaneous Expense USD Bank Service Charge	90.9250	1.000.00	AA
JE	1522	03/31/17	00100	Bear Creek National B USD Bank Service Charge	100.1110.BEAR		1.000.00- AA
JE	1522	03/31/17	00100	Miscellaneous Expense USD Bank Service Charge	90.9250		1.000.00- AA
VOID JOURNAL ENTRY							
JE	1522	03/31/17	00100	Bear Creek National B USD Bank Service Charge	100.1110.BEAR	1.000.00	AA
VOID JOURNAL ENTRY							
JE	10418	03/31/17	00001	Other Expense USD Bank Service Charge	9.9200	1.000.00	AA
JE	10418	03/31/17	00001	Bear Creek National B USD Bank Service Charge	1.1110.BEAR		1.000.00- AA
JE	10418	03/31/17	00100	Miscellaneous Expense USD Bank Service Charge	90.9250	1.000.00	AA
JE	10418	03/31/17	00100	Bear Creek National B USD Bank Service Charge	100.1110.BEAR		1.000.00- AA
Batch Total						4.000.00	4.000.00- AA

20.5 Reviewing the Item Ledger/Account Integrity Report

Navigation

From Inventory Reports (G41111), choose Inventory Integrity Reports

From Inventory Integrity Reports (G41113), choose Item Ledger/Account Integrity

The Item Ledger/Account Integrity report lists discrepancies between the Item Ledger and Account Ledger tables. If the data in the two files is in agreement, no lines print.

The lines that print are summary lines, that is, the amounts on a line represent the total for a specific document type, document number, and key company. No other total lines print. You can run this report as many times as needed because no tables are updated.

If you use summarized journal entries for work orders, the program uses the Work Order Cross-Reference table (F3106) to locate the material issue transactions (IM), completions (IC), and scrap transactions (IS) against those summarized work orders.

The system uses next numbering for the GL doc number rather than using the work order number. The system implements Work Order Cross-Reference (P3106) in order to cross-reference the work order number to the G/L document number. You can review this cross-reference on the Work Order Processing menu (G3116), using the GL Review by WO Number menu (option 22).

Following is a grid of the files and fields that are relevant to manufacturing work order cross-referencing:

Figure 20–5 Files and Fields for Work Order Cross-Referencing

File	File Name	File Prefix	DOCO	DCT	DOC		ICU	DGJ
F3106	WO Cross Reference	SD	Work Order Number	WO Doc Type UDC 00/DT	Hardcoded NN 09/2 with P31802 and P31804 run		Batch Number NN hardcoded 00/1 with P31802/P31804 Final Run	Batch Date (P31802/P31804 Final)
F4111	Item Ledger / Cardex	IL	Work Order Number	WO Doc Type UDC 00/DT	Work Order number labeled 'Document'	Transaction type like IM, IC (P31114,P31113, P31123)	Batch Number NN hardcoded 00/1 updated with P31802 Final Run	Batch Date updated by P31802 - Final
F0911	G/L Detail	GL	SBL Subledger = WO number when P31802/P31804 setup and run in detail only		Hardcoded NN 09/2 with P31802 and P31804 run	Transaction type like IM, IC used by P31802, from F3111 and F4801	Batch Number NN hardcoded 00/1 with P31802/P31804 Final Run	Batch Date (P31802/P31804 final)

Work Order Number

20.5.1 What You Should Know About

Option	Explanation
Batch Number	Updated in field (ICU) in Cardex, Work Order Cross Ref and G/L Detail are generated with Next Number Product Code = 00, Use(positioned line) = 1.
Document Number	Updated in field (DOC) in Cardex and G/L Detail are generated with Next Numbers, Product Code =09, Use = 2.

If you determine that there is not a true integrity issue between the F4111 and F0911 files, but the report is showing a discrepancy, do the following:

- Determine which number (per the report) is inaccurate by reviewing the related Cardex transaction and journal entry.
- If the Item Ledger (F4111) amount is wrong, check the data selection and sequencing. Try testing with the exact setup from the demo version.
- If the Account Ledger (F0911) amount is wrong, check the UDC table 41/IN and the related AAI table setup.

20.5.2 Before You Begin

- Verify that you have set up exception rules (41/IN).

Figure 20–6 Item Ledger/Account Integrity report

41543		JD Edwards World				Page - . . . 2	
		Item Ledger/Account Integrity				Date - . . . 12/12/17	
From - 01/01/17 To - 12/10/17							
Document Type/Number	Key Co	Item	Amount Ledger	Variance	G/L Date	Error Number	Error Message
IA	8	100	60,000.00		01/01/16	3036	No existing General Ledger records
IA	9	100	180,000.00		01/01/16	3036	No existing General Ledger records
IA	10	100	33,600.00		01/01/16	3036	No existing General Ledger records
IA	11	100	273,600.00		01/01/16	3036	No existing General Ledger records
IA	12	100	30,000.00		01/01/16	3036	No existing General Ledger records
IA	653	200	2,048,212.61		01/30/17	3036	No existing General Ledger records
IA	4144	200	104,938.00-	104,938.00-	06/30/17	3038	Item Ledger and G/L do not balance
IB	1918	50	4,184.83-		10/13/13	3036	No existing General Ledger records
IB	2240	200	24,394.53	24,394.54	0.01-11/22/14	3038	Item Ledger and G/L do not balance
IB	2242	200	8,347.96	8,347.97	0.01-11/22/14	3038	Item Ledger and G/L do not balance
IB	2243	200	22,467.04	22,467.05	0.01-11/22/14	3038	Item Ledger and G/L do not balance
IB	2247	200	18,592.68	18,592.69	0.01-11/22/14	3038	Item Ledger and G/L do not balance
IC	109954	200	281,405.45	562,810.90	281,405.45-12/01/14	3038	Item Ledger and G/L do not balance
IC	109971	200	255,261.97	485,215.94	229,953.97-12/01/14	3038	Item Ledger and G/L do not balance
IC	109989	200	319,531.34	639,062.68	319,531.34-12/01/14	3038	Item Ledger and G/L do not balance
IC	109997	200	245,458.17	490,916.34	245,458.17-12/01/14	3038	Item Ledger and G/L do not balance
IC	110023	200	314,810.99	629,621.98	314,810.99-12/01/14	3038	Item Ledger and G/L do not balance
IC	110040	200	261,071.63	464,623.26	203,551.63-12/01/14	3038	Item Ledger and G/L do not balance
IC	110058	200	269,423.02	512,134.04	242,711.02-12/01/14	3038	Item Ledger and G/L do not balance
IC	110066	200	327,882.73	655,765.46	327,882.73-12/01/14	3038	Item Ledger and G/L do not balance
IC	110074	200	288,304.42	548,624.84	259,720.42-12/01/14	3038	Item Ledger and G/L do not balance
IC	110082	200	344,222.40	688,444.80	344,222.40-12/01/14	3038	Item Ledger and G/L do not balance
IC	110091	200	276,321.99	519,159.98	242,837.99-12/01/14	3038	Item Ledger and G/L do not balance

See Also:

- Reviewing the Item Ledger/Account Integrity Report in the *JD Edwards World Inventory Management Guide*,
- [Section 18.1, "Creating Journal Entries"](#) for more information on summarized journal entries.

20.5.3 Processing Options

See [Section 25.13, "Item Ledger/Account Integrity \(P41543\)."](#)

20.6 Reviewing World Writer Reports for Manufacturing Accounting

Navigation

From Master Directory II (G1), choose World Writer Reporting

From World Writer Reporting (G82), choose Manufacturing

When you access the Manufacturing World Writer menu, locate the World Writer reports for Group Q31. You must manually enter Query Group Q31 as the default is Q30.

These reports help you review your production costs and variances. You might want to run them before you run Journal Entries for Variances, or you can run them after Journal Entries for Variances to verify the accuracy of the journal entries.

Complete the following tasks:

- Review Work Order Activity (Amounts)
- Review Work Order Activity (Units)
- Review Engineering Variance
- Review Planned Variance (to Current)
- Review Planned Variance (to Standard)
- Review Material Usage Variances
- Review Efficiency Variances
- Review Total/WIP and Other Variances

- Review Open Work Order Valuation
- Review Completed Work Order Valuation
- Review Work Order Amount Variances
- Review Manufacturing Accounting Tables
- Review Variance Flag Exceptions

20.6.1 Reviewing Work Order Activity (Amounts)

This report lists standard, current, planned, actual, and completed amounts of work orders.

Figure 20–7 Work Order Activity (Amounts) report

Order Number	2nd Item Number	Cost F Type C	Work Order Activity Amounts				Page	2
			Standard Amount	Current Amount	Planned Amount	Actual Amount	Date	- 02/21/17
422 333		A1 P	16,178.9200	18,806.9400	19,206.9400	20,826.5230	16,178.9200	
422 333		A2 P	525.6000	1,051.2080	1,051.2080		525.6000	
422 333		B1 P	37.2800	37.2750	37.2750	55.1200	37.2800	
422 333		B2 P		3.1875	3.1875	3.1800		
422 333		B3 P		8.1250	11.3750	11.3700		
422 333		B4 P	8.6700	8.6625	8.6625	12.8625	8.6700	
422 333		C1 P		10.1563	14.2188	14.2125		
422 333		C2 P		8.5313	11.9438	11.9385		
422 333		C3 P	27.5600	29.4750	29.4750	42.6975	27.5600	
422 333		C4 P	22.9700	24.5626	24.5626	35.5813	22.9700	
422 333		D1 P	478.0000	478.0000	478.0000	478.0000	478.0000	
422 333		X2 P	85.2600	85.2600	85.2600	85.2600	85.2600	
422 333		X3 P	3.3000	3.3000	3.3000	3.3000	3.3000	
422 333		X5 P	2.0000	2.0000	2.0000	2.0000	2.0000	
422 333		X6 P	1,608.4000	1,608.4000	1,608.4000	1,608.4000	1,608.4000	
Parent Child Relationship. . .								
Total			18,977.9600	22,165.0832	22,575.8082	23,190.4453	18,977.9600	
490 1007				84.4000				
Parent Child Relationship. . .								
Total				84.4000				

20.6.2 Reviewing Work Order Activity (Units)

This report lists standard, current, planned, actual, and completed units of work orders.

Figure 20-8 Work Order Activity (Units) report

Work Order Activity Units							Page	2
							Date	- 02/21/17
Order Number	2nd Item Number	Cost F Type C	Standard Units	Current Units	Planned Units	Actual Units	Completed Units	
422 333		A1 F	100.0000	100.0000	100.0000	100.0000	100.0000	
422 333		A2 P	100.0000	100.0000	100.0000	100.0000	100.0000	
422 333		B1 F	100.0000	7.1000	7.1000	10.5000	100.0000	
422 333		B2 P	100.0000	.7500	.7500	.7500		
422 333		B3 F	100.0000	2.5000	3.5000	3.5000		
422 333		B4 P	100.0000	7.1000	7.1000	10.5000	100.0000	
422 333		C1 F	100.0000	2.5000	3.5000	3.5000		
422 333		C2 P	100.0000	2.5000	3.5000	3.5000		
422 333		C3 F	100.0000	9.5000	9.5000	13.7000	100.0000	
422 333		C4 P	100.0000	9.5000	9.5000	13.7000	100.0000	
422 333		D1 F	100.0000	100.0000	100.0000	100.0000	100.0000	
422 333		X2 F	100.0000	100.0000	100.0000	100.0000	100.0000	
422 333		X3 P	100.0000	100.0000	100.0000	100.0000	100.0000	
422 333		X5 F	100.0000	100.0000	100.0000	100.0000	100.0000	
422 333		X6 P	100.0000	100.0000	100.0000	100.0000	100.0000	
Parent Child Relationship. . .								
Total			1,500.0000	741.4500	744.4500	659.6500	1,100.0000	
490 1007		C		2,000.0000				
Parent Child Relationship. . .								
Total				2,000.0000				
490 1001		A1 F	2,000.0000					
490 1001		B1 F	2,000.0000	37.1000				
490 1001		B2 P	2,000.0000	4.0000				
490 1001		B3 F	2,000.0000	16.0000				
490 1001		B4 P	2,000.0000	37.1000				
490 1001		C1 F	2,000.0000	16.0000				
490 1001		C2 P	2,000.0000	16.0000				
490 1001		C3 F	2,000.0000	48.1200				
490 1001		C4 P	2,000.0000	48.1200				
490 3991		A1 F	2,000.0000	2,000.0000				
490 3991		A2 P		2,000.0000				
490 3991		B1 F	2,000.0000	80.0000				
490 3991		B3 P	2,000.0000	32.0000				
490 3991		C1 F	2,000.0000	32.0000				
490 3991		C2 P	2,000.0000	32.0000				
Parent Child Relationship. . .								
Total			28,000.0000	4,398.4400				

20.6.3 Reviewing Engineering Variance

This report lists work orders, their standard and current amounts, and their engineering variances.

Figure 20-9 Engineering Variance report

Engineering Variance Amounts						Page	1
						Date	- 02/21/17
Order Number	2nd Item Number	Cost F Type C	Standard Amount	Current Amount	Engineering Variance		
406 5120		B1 F	5,701.8000	5,701.5000	.3000-		
406 5120		B2 F	2,337.6000	11.6875	2,325.9125-		
406 5120		B4 P	1,108.8000	1,108.8000			
406 5120		C3 F	5,488.8000	4,093.1925	1,395.6075-		
406 5120		C4 P	4,573.8000	3,410.9938	1,162.8062-		
Parent Child Relationship. . .							
Total			19,210.8000	14,326.1738	4,884.6262-		
414 333		A1 F	16,178.9200	16,178.9200			
414 333		A2 P	525.6000	525.6040	.0040		
414 333		B1 F	37.2800	37.2750	.0050-		
414 333		B4 P	8.6700	8.6625	.0075-		
414 333		C3 F	27.5600	27.5625	.0025		
414 333		C4 P	22.9700	22.9688	.0012-		
414 333		D1 F	478.0000	478.0000			
414 333		X2 F	85.2600	85.2600			
414 333		X3 P	3.3000	3.3000			
414 333		X5 P	2.0000	2.0000			
414 333		X6 P	1,608.4000	1,608.4000			
Parent Child Relationship. . .							
Total			18,977.9600	18,977.9528	.0072-		
422 333		A1 F	16,178.9200	18,806.9400	2,628.0200		
422 333		A2 P	525.6000	1,051.2080	525.6080		
422 333		B1 F	37.2800	37.2750	.0050-		
422 333		B2 P		3.1875	3.1875		
422 333		B3 F		8.1250	8.1250		
422 333		B4 P	8.6700	8.6625	.0075-		
422 333		C1 F		10.1563	10.1563		
422 333		C2 P		8.5313	8.5313		
422 333		C3 F	27.5600	29.4750	1.9150		
422 333		C4 P	22.9700	24.5626	1.5926		
422 333		D1 F	478.0000	478.0000			
422 333		X2 F	85.2600	85.2600			
422 333		X3 P	3.3000	3.3000			
422 333		X5 P	2.0000	2.0000			
422 333		X6 P	1,608.4000	1,608.4000			
Parent Child Relationship. . .							
Total			18,977.9600	22,165.0832	3,187.1232		

20.6.4 Reviewing Planned Variance (to Current)

This report lists all work orders and their planned variances (current amounts compared to planned amounts). Journal entries for planned variances are calculated in the same way.

Figure 20–10 Planned Variance (to Current) report

Order Number	2nd Item Number	Cost F Type C	Planned Variance Amounts			Page
			Current Amount	Planned Amount	Planned Variance	Date
						1
						02/21/17
422 212		C	5,256.0400	5,256.0400		
422 121		C	2,609.5000	2,609.5000		
422 424		C	5,256.6000	5,256.6000		
422 444		C	5,200.8000	5,200.8000		
422 123		C	400.0000	800.0000	400.0000	
422 122		C	84.0000	84.0000		
Parent Child Relationship. . .						
Total			18,806.9400	19,206.9400	400.0000	
422 333		A1 F	18,806.9400	19,206.9400	400.0000	
422 333		A2 F	1,051.2080	1,051.2080		
422 333		B1 F	37.2750	37.2750		
422 333		B2 P	3.1875	3.1875		
422 333		B3 P	8.1250	11.3750	3.2500	
422 333		B4 F	8.6625	8.6625		
422 333		C1 F	10.1563	14.2188	4.0625	
422 333		C2 F	8.5313	11.9438	3.4125	
422 333		C3 F	29.4750	29.4750		
422 333		C4 F	24.5626	24.5626		
422 333		D1 P	478.0000	478.0000		
422 333		X2 P	85.2600	85.2600		
422 333		X3 F	3.3000	3.3000		
422 333		X5 F	2.0000	2.0000		
422 333		X6 F	1,608.4000	1,608.4000		
Parent Child Relationship. . .						
Total			22,165.0832	22,575.8082	410.7250	
490 1007		C	84.4000		84.4000-	
Parent Child Relationship. . .						
Total			84.4000		84.4000-	
490 1001		B1 P	195.7750		195.7750-	
490 1001		B2 F	24.8000		24.8000-	
490 1001		B3 F	67.6800		67.6800-	
490 1001		B4 F	36.6550		36.6550-	
490 1001		C1 F	54.1440		54.1440-	
490 1001		C2 F	58.8816		58.8816-	
490 1001		C3 P	164.7680		164.7680-	
490 1001		C4 F	143.5150		143.5150-	
490 3991		A1 F	84.4000		84.4000-	
490 3991		B1 F	4.2000		4.2000-	
490 3991		B3 F	1.0400		1.0400-	
490 3991		C1 F	1.3000		1.3000-	
490 3991		C2 F	1.0920		1.0920-	
Parent Child Relationship. . .						
Total			838.2506		838.2506-	

20.6.5 Reviewing Planned Variance (to Standard)

This report lists work orders and their planned variances (standard amounts compared to planned amounts). These variances are informational only. Journal entries are not created from these amounts. Journal entries for planned variances come from comparing current amounts to planned amounts.

Figure 20–11 Planned Variance (to Standard) report

Planned Variance Amounts						Page	1
						Date	02/21/17
Order Number	2nd Item Number	Cost Type	F C	Standard Amount	Planned Amount	Planned Variance	
110040	1122	A1	P	2,323.1163	2,323.1163		
110040	1122	A2	P	2,323.1163		2,323.1163-	
110040	1122	B1	P				
110040	1122	B2	P				
110040	1122	B3	P				
110040	1122	B4	P				
110040	1122	C1	P				
110040	1122	C2	P				
110040	1122	C3	P				
110040	1122	C4	P				
Parent Child Relationship. . .							
Total				4,646.2326	2,323.1163	2,323.1163-	
110058	1122	A1	P	2,560.6702	2,560.6702		
110058	1122	A2	P	2,560.6702		2,560.6702-	
110058	1122	B1	P				
110058	1122	B2	P				
110058	1122	B3	P				
110058	1122	B4	P				
110058	1122	C1	P				
110058	1122	C2	P				
110058	1122	C3	P				
110058	1122	C4	P				
Parent Child Relationship. . .							
Total				5,121.3404	2,560.6702	2,560.6702-	
110066	1122	A1	P	3,278.8273	3,278.8273		
110066	1122	A2	P	3,278.8273		3,278.8273-	
110066	1122	B1	P				
110066	1122	B2	P				
110066	1122	B3	P				
110066	1122	B4	P				
110066	1122	C1	P				
110066	1122	C2	P				
110066	1122	C3	P				
110066	1122	C4	P				
Parent Child Relationship. . .							
Total				6,557.6546	3,278.8273	3,278.8273-	

20.6.6 Reviewing Material Usage Variances

This reports lists the planned and actual material (A1) quantities, extended by standard cost, and a total dollar variance for items on your work orders.

Figure 20–12 Material Usage Variances report

Material Usage Variances Amounts						Page	1
						Date	02/21/17
Order Number	2nd Item Number	Cost Type	F C	Planned Amount	Actual Amount	Material Usage Variance	
3390		A1	P				
Parent Child Relationship. . .							
Total							
347	INSPECT FAN BLADES	A1	P				
347	INSPECT FAN BLADES	A2	P				
Parent Child Relationship. . .							
Total							
406	5120	A1	P				
Parent Child Relationship. . .							
Total							
414	333	A1	P				
414	333	A2	P				
Parent Child Relationship. . .							
Total							
422	333	A1	P	19,206.9400	20,826.5230	1,619.5830	
422	333	A2	P	1,051.2080		1,051.2080-	
Parent Child Relationship. . .							
Total				20,258.1480	20,826.5230	568.3750	

20.6.7 Reviewing Efficiency Variances

This report shows planned and actual labor hours (all cost components except A1), extended by standard rates, and the dollar amount of variance by work order and item number.

Figure 20-13 Efficiency Variances report

Order Number	2nd Item Number	Cost P Type C	Efficiency Variances Amounts			Page
			Planned Amount	Actual Amount	Efficiency Variance	Date
422 212		C	5,256.0400	6,307.2480	1,051.2080	- 1
422 121		C	2,609.5000	3,261.8750	652.3750	- 02/21/17
422 424		C	5,256.6000	5,256.6000		
422 444		C	5,200.8000	5,200.8000		
422 123		C	800.0000	800.0000		
422 122		C	84.0000		84.0000-	
Parent Child Relationship. . .						
Total			19,206.9400	20,826.5230	1,619.5830	
422 333		B1 P	37.2750	55.1200	17.8450	
422 333		B2 P	3.1875	3.1800	.0075-	
422 333		B3 P	11.3750	11.3700	.0050-	
422 333		B4 P	8.6625	12.8625	4.2000	
422 333		C1 P	14.2188	14.2125	.0063-	
422 333		C2 P	11.9438	11.9385	.0053-	
422 333		C3 P	29.4750	42.6975	13.2225	
422 333		C4 P	24.5626	35.5813	11.0187	
422 333		D1 P	478.0000	478.0000		
422 333		X2 P	85.2600	85.2600		
422 333		X3 P	3.3000	3.3000		
422 333		X5 P	2.0000	2.0000		
422 333		X6 P	1,608.4000	1,608.4000		
Parent Child Relationship. . .						
Total			2,317.6602	2,363.9223	46.2621	

20.6.8 Reviewing Total/WIP and Other Variances

This report shows the standard, actual, and completed amounts, and total and other variances by cost component and item for your work orders.

Figure 20-14 Total/WIP and Other Variances report

Order Number	2nd Item Number	Cost P Type C	Total/WIP and Other Variances Amounts				Page
			Standard Amount	Actual Amount	Completed Amount	Total/WIP Variance	Other Variance	Date
414 333		A1 P	16,178.9200				16,178.9200
414 333		A2 P	525.6000				525.6000
414 333		B1 P	37.2800				37.2800
414 333		B2 P					
414 333		B3 P					
414 333		B4 P	8.6700				8.6700
414 333		C1 P					
414 333		C2 P					
414 333		C3 P	27.5600				27.5600
414 333		C4 P	22.9700				22.9700
414 333		D1 P	478.0000				478.0000
414 333		X2 P	85.2600				85.2600
414 333		X3 P	3.3000				3.3000
414 333		X5 P	2.0000				2.0000
414 333		X6 P	1,608.4000				1,608.4000
Parent Child Relationship. . .							
Total			18,977.9600				18,977.9600
422 333		A1 P	16,178.9200	20,826.5230	16,178.9200	4,647.6030	
422 333		A2 P	525.6000		525.6000	525.6000-	
422 333		B1 P	37.2800	55.1200	37.2800	17.8400	
422 333		B2 P		3.1800		3.1800	
422 333		B3 P		11.3700		11.3700	
422 333		B4 P	8.6700	12.8625	8.6700	4.1925	
422 333		C1 P		14.2125		14.2125	
422 333		C2 P		11.9385		11.9385	
422 333		C3 P	27.5600	42.6975	27.5600	15.1375	
422 333		C4 P	22.9700	35.5813	22.9700	12.6113	
422 333		D1 P	478.0000	478.0000	478.0000		
422 333		X2 P	85.2600	85.2600	85.2600		
422 333		X3 P	3.3000	3.3000	3.3000		
422 333		X5 P	2.0000	2.0000	2.0000		
422 333		X6 P	1,608.4000	1,608.4000	1,608.4000		
Parent Child Relationship. . .							
Total			18,977.9600	23,190.4453	18,977.9600	4,212.4853	

20.6.9 Reviewing Open Work Order Valuation

This report shows the standard, actual, completed, and outstanding balance of amounts by cost component and item for your open work orders. The program calculates the total for each type of cost by work order and a grand total of each cost for all of the work orders listed.

Figure 20-15 Open Work Order Valuation report

Open Work Order Valuation for Status Less Than 97							Page	1
							Date	02/21/17
Order Number	Item Number	Cost Type	C	Standard Amount	Actual Amount	Completed Amount	Balance (Actual-Complete)	
347	INSPECT FAN BLADES	A1	P	.00	.00	.00	.00	
		A2	P	.00	.00	.00	.00	
Order Number . . . . .				.00	.00	.00	.00
Total				.00	.00	.00	.00	
698	SHAFT MAINT PM KIT	A1	P	.00	.00	.00	.00	
		A2	P	.00	.00	.00	.00	
Order Number . . . . .				.00	.00	.00	.00
Total				.00	.00	.00	.00	
844	200-001	A1	P	19750.49	19750.49	.00	19750.49	
		B1	P	3254.50	.00	.00	.00	
		B3	P	86.60	16.92	.00	16.92	
		C1	P	129.90	13.54	.00	13.54	
		C2	P	69.28	14.72	.00	14.72	
		C3	P	3599.75	.00	.00	.00	
		C4	P	3519.45	.00	.00	.00	
Order Number								
Total				30409.97	19795.67	.00	19795.67	

20.6.10 Reviewing Completed Work Order Valuation

This report shows the standard, actual, completed, and outstanding balance amounts by cost component and item for your completed work orders. The Journal Entries for Work in Process or Completions and Journal Entries for Variances programs have already been run for these work orders. The program calculates the total for each type of cost by work order and a grand total of each cost for all of the work orders listed.

Figure 20-16 Completed Work Order Valuation report

Completed Work Order Valuation for Status Greater Than or Equal To 97							Page	3
							Date	02/21/17
Order Number	Item Number	Cost Type	C	Standard Amount	Actual Amount	Completed Amount	Balance (Actual-Complete)	
112328	12706	A1	F	2.33	2.33	2.33	.00	
		A2	F	.00	.00	.00	.00	
		B1	P	.39	.39	.39	.00	
		B2	P	.19	.00	.19	.19-	
		B3	P	1.41	1.41	1.41	.00	
		B4	P	.08	.08	.08	.00	
		C1	P	1.77	1.77	1.77	.00	
		C2	F	1.48	1.48	1.48	.00	
		C3	F	.40	.28	.40	.12-	
		C4	F	.33	.24	.33	.09-	
Order Number				8.38	7.99	8.38	.39-	
Total				8.38	7.99	8.38	.39-	
112344		A1	F	2.33	2.33	2.33	.00	
		A2	F	.00	.00	.00	.00	
		B1	P	.39	.39	.39	.00	
		B2	P	.19	.00	.19	.19-	
		B3	P	1.41	1.41	1.41	.00	
		B4	P	.08	.08	.08	.00	
		C1	P	1.77	1.77	1.77	.00	
		C2	F	1.48	1.48	1.48	.00	
		C3	F	.40	.28	.40	.12-	
		C4	F	.33	.24	.33	.09-	
Order Number				8.38	7.99	8.38	.39-	
Total				8.38	7.99	8.38	.39-	
112352		A1	F	2.33	2.33	2.33	.00	
		A2	F	.00	.00	.00	.00	
		B1	P	.39	.39	.39	.00	
		B2	P	.19	.00	.19	.19-	
		B3	P	1.41	1.41	1.41	.00	
		B4	P	.08	.08	.08	.00	
		C1	P	1.77	1.77	1.77	.00	
		C2	F	1.48	1.48	1.48	.00	
		C3	F	.40	.28	.40	.12-	
		C4	F	.33	.24	.33	.09-	
Order Number				8.38	7.99	8.38	.39-	
Total				8.38	7.99	8.38	.39-	

20.6.11 Reviewing Work Order Amount Variances

This report shows detailed production costs and variance amounts for your work orders.

Figure 20-17 Work Order Variances (Amounts) report

Work Order Variances Amounts									Page	-	1
									Date	-	02/21/17
Cost Type	Standard Amount	Current Amount	Engineering Variance	Planned Amount	Planned Variance	Actual Amount	Actual Variance	Other Variances	Total Variance		
A1	16178.92	18806.94	2628.02	19206.94	400.00	20826.52	1619.58	.00	4647.60		
A2	525.60	1051.21	525.61	1051.21	.00	1051.21	1051.21	.00	525.60		
B1	37.28	37.28	.01	37.28	.00	55.12	17.85	.00	17.84		
B2	.00	3.19	3.19	3.19	.00	3.18	.01	.00	3.18		
B3	.00	8.13	8.13	11.38	3.25	11.37	.01	.00	11.37		
B4	8.67	8.66	.01	8.66	.00	12.86	4.20	.00	4.19		
C1	.00	10.16	10.16	14.22	4.06	14.21	.01	.00	14.21		
C2	.00	8.53	8.53	11.94	3.41	11.94	.01	.00	11.94		
C3	27.56	29.48	1.92	29.48	.00	42.70	13.22	.00	15.14		
C4	22.97	24.56	1.59	24.56	.00	35.58	11.02	.00	12.61		
D1	478.00	478.00	.00	478.00	.00	478.00	.00	.00	.00		
X2	85.26	85.26	.00	85.26	.00	85.26	.00	.00	.00		
X3	3.30	3.30	.00	3.30	.00	3.30	.00	.00	.00		
X5	2.00	2.00	.00	2.00	.00	2.00	.00	.00	.00		
X6	1608.40	1608.40	.00	1608.40	.00	1608.40	.00	.00	.00		
Order Totals	18977.96	2165.08	3187.12	22575.81	410.73	23190.45	614.64	.00	4212.49		
Total	18977.96	2165.08	3187.12	22575.81	410.73	23190.45	614.64	.00	4212.49		
A1	19750.49	975049.00	955298.51	19750.49	955298.51	19750.49	.00	19750.49	19750.49		
B1	3254.50	3254.50	.00	3254.50	.00	.00	3254.50	.00	3254.50		
B3	86.60	86.60	.00	42.30	44.30	16.92	25.38	86.60	16.92		
C1	129.90	129.90	.00	33.84	96.06	13.54	20.30	129.90	13.54		
C2	69.28	69.28	.00	36.80	32.48	14.72	22.08	69.28	14.72		
C3	3599.75	3599.75	.00	3608.00	8.25	.00	3608.00	3599.75	.00		
C4	3519.45	3519.45	.00	3526.38	6.93	.00	3526.38	3519.45	.00		
Order Totals	30409.97	1985708.48	1955298.51	30252.31	1955456.17	19795.67	10456.64	30409.97	19795.67		
Total	30409.97	1985708.48	1955298.51	30252.31	1955456.17	19795.67	10456.64	30409.97	19795.67		

20.6.12 Reviewing Manufacturing Accounting Tables

This report lists the manufacturing AAs used by your companies.

Figure 20-18 Manufacturing Accounting Tables report

Manufacturing Accounting Tables								Page	-	4
								Date	-	02/21/17
M Co	G/L	Do	Description	V Cost	Description	Cost	Obj	Sub		
C	Cat	Ty		T Type		Center	Acct			
3 0	IN20	IC	Completed W.O.'s To Inventory	A1	Material	48	1510	A1		
	IN20	IC		A2	Scrap	48	1510	A2		
	IN20	IC		B1	Direct Labor	48	1520	B1		
	IN20	IC		B2	Setup Labor	48	1520	B2		
	IN20	IC		B3	Machine Run	48	1520	B3		
	IN20	IC		B4	Labor Efficiency	48	1520	B4		
	IN20	IC		C1	Machine Variable Overhead	48	1535	C1		
	IN20	IC		C2	Machine Fixed Overhead	48	1535	C2		
	IN20	IC		C3	Labor Variable Overhead	48	1533	C3		
	IN20	IC		C4	Labor Fixed Overhead	48	1533	C4		
	IN20	IC		D1	Outside Operation	48	1510	D1		
	IN20	IC		X1	Taxes and Duty	48	1540	X		
	IN20	IC		X2	Electricity	48	1540	X		
	IN20	IC		X3	Freight Out	48	1540	X		
	IN20	IC		X4	Royalties	48	1540	X		
	IN20	IC		X5	R&D	48	1540	X5		
	IN20	IC		X6	Warehouse Charge	48	1540	X		
	IN20	IC		X7	Cooling Unit	48	1540	X		
	IN20	IS	Scrapped W.O.'s To Inventory	A1	Material	48	1511	A1		

20.6.13 Reviewing Variance Flag Exceptions

This report allows you to view Variance Flag Exceptions which are work order statuses greater than 96 but Variance Flag is not equal to 3.

Figure 20-19 Variance Flag Exceptions

Variance Flag Exceptions						Page	-
Var Flag	Order Number	Or Ty	MO Sts	2nd Item Number	Branch/Plant	Date	- 08/31/1
2	581925	WO	99	A-1	WHS		
2	581933	WO	99	B-1	WHS		
2	581941	WO	99	D-1	WHS		
2	581950	WO	99	A-1	WHS		
2	581968	WO	99	B-1	WHS		
2	581976	WO	99	D-1	WHS		
2	581984	WO	99	A-1	WHS		
2	581992	WO	99	B-1	WHS		
2	582004	WO	99	D-1	WHS		
2	609326	WO	99	AJDA	H30		
2	609377	WO	99	AJDA	H30		
2	629554	WO	97	MFG13	TOKYO		
2	629509	WO	98	MFG13	H30		
2	629618	WO	97	MFG13	TOKYO		
							More...
2	629626	WO	97	MFG13	TOKYO		
2	631355	WO	97	MFG14	TOKYO		
2	631363	WO	97	MFG14	TOKYO		
2	631371	WO	97	MFG14	H30		
2	631380	WO	97	MFG14	H30		
2	631398	WO	97	MFG14	H30		
2	631427	WO	99	MFG15	TOKYO		
2	631435	WO	99	MFG15	H30		
2	631443	WO	99	MFG15	H30		
1	624251	WO	99	BRDOWP	DONY		
1	628535	WO	99	BRDOWP	DONY		
1	629562	WO	97	MFG13	TOKYO		
	840	WO	99	200-001	H30		
	852	WO	97	200-001	H30		
	861	WO	97	200-001	H30		
	12273	WO	99	100	H20		
	12274	WO	99	100	H20		
	12275	WO	99	100	H20		
	12276	WO	99	205	H20		
	12277	WO	99	205	H20		More...
	12278	WO	99	205	H20		
	12279	WO	99	205	H20		
	12280	WO	99	206	H20		
	12281	WO	99	206	H20		
	12282	WO	99	206	H20		
	12283	WO	99	206	H20		
	120651	WO	99	2221	H40		
	120660	WO	99	7771	H40		
	120678	WO	99	7771	H40		
	120686	WO	99	2221	H40		
	120694	WO	99	7771	H40		
	120707	WO	99	2221	H40		
	120715	WO	99	7771	H40		
	120723	WO	99	2221	H40		
	120731	WO	99	2221	H40		
	120740	WO	99	7771	H40		
	120758	WO	99	2221	H40		
	120766	WO	99	7771	H40		

Define Flex Accounting

This chapter contains these topics:

- [Section 21.1, "Understanding Flex Accounting,"](#)
- [Section 21.2, "Defining Flexible Account Numbers."](#)

21.1 Understanding Flex Accounting

Flex Accounting allows you to flex the Business Unit and Subsidiary sections, of the general ledger account structure when performing a frozen cost update, WIP revaluation, manufacturing accounting, variance accounting, orderless completion accounting and actual cost close accounting. The system associates each element with a field stored in a file.

Note: You cannot use Flex Accounting to flex the object segment, you must define the object account through AAIs.

21.2 Defining Flexible Account Numbers

Navigation

From Shop Floor Control Setup (G3141), choose Flex Manufacturing Accounting

To create a flexible account number, you define one or more segments by associating one or more elements with each segment.

JD Edwards World supports the following files and fields hard-coded in UDC tables 31/FI and 31/DI.

For Orderless Completion F3116:

- Employee ID (AN8)
- Document Number (DOC)
- Document Type (DCT)
- Short Item Number (ITM)
- WC or Line (MCU)
- Branch/Plant (MMCU)

For Item Master F4101:

- Buyer Number (BUYR)

- Preferred Carrier - Purchasing (CARP)
- Preferred Carrier - Sales (CARS)
- G/L Class (GLPT)
- Short Item Number (ITM)
- Purchasing Category Codes (PRPx)
- Shipping Commodity Class (SHCM)
- Shipping Conditions Code (SHCN)
- Sales Category Codes (SRPx)

For Item Branch F4102:

- Planner Number (ANPL)
- Buyer Number (BUYR)
- Preferred Carrier - Purchasing (CARP)
- Preferred Carrier - Sales (CARS)
- G/L Class (GLPT)
- Short Item Number (ITM)
- Branch/Plant (MCU)
- Country of Origin (ORIG)
- Purchasing Category Codes (PRPx)
- Shipping Commodity Class (SHCM)
- Shipping Conditions Code (SHCN)
- Sales Category Codes (SRPx)
- Primary Supplier Number (VEND)

For Work Order Master F4801:

- Customer Number (AN8)
- Originator Number (ANO)
- Supervisor Number (ANPA)
- Planner Number (ANSA)
- Company Number (CO)
- Document Type (DCTO)
- Order Number (DOCO)
- Short Item Number (ITM)
- Line/Cell (LINE)
- Charge to BU (MCU)
- Branch/Plant (MMCU)
- Parent WO Number (PARS)
- Associated SO (RORN)
- Cost Code (SUB)

- Work Order Category Codes (WRxx)

You can define flexible segments for all DMAAI tables used by manufacturing costing and accounting programs: 3110, 3120, 3130, 3220, 3240, 3260, 3270, 3280, 3401, 4134, and 4136. You must define AAIs with blank values in the segment that is going to be flexible.

If you define multiple elements for a single segment, the system concatenates them left to right in ascending order according to their assigned sequence numbers.

You activate flexible manufacturing accounting through a single processing option for the following batch programs:

- Cost Update (P30835)
- Manufacturing Journal Entries (P31802)
- Manufacturing Variance Journal Entries (P31804)
- Close Actual Cost Work Order and Clear WIP (P31806)
- Orderless Manufacturing Accounting (P31862)

To define a flexible account number

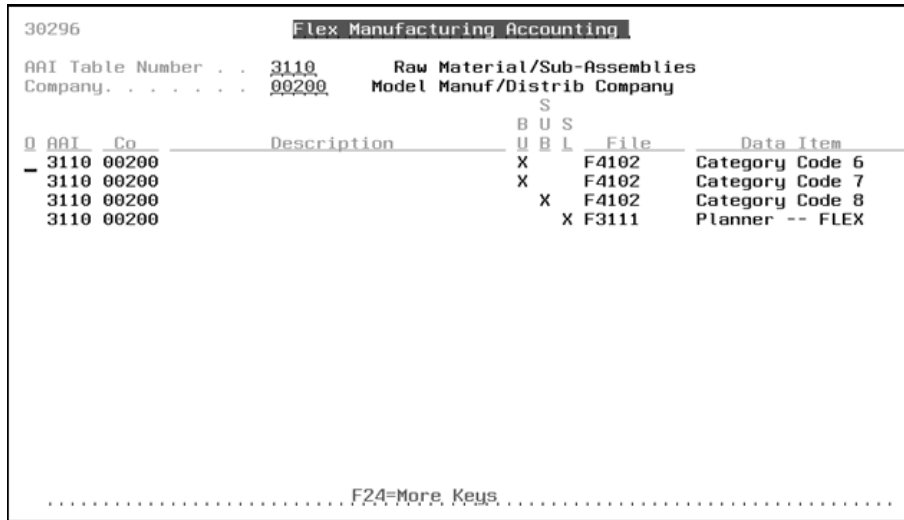
On Flex Manufacturing Accounting Setup

Figure 21-1 Flex Manufacturing Accounting Setup screen

Seq	Business Unit	Sub Account	Subledger Len	Description	Data Item	File
001	X	-	-	6 Category Code 6	SRP6	F4102
002	X	-	-	6 Category Code 7	SRP7	F4102
003	-	X	-	6 Category Code 8	SRP8	F4102
004	-	-	X	8 Planner -- FLEX	DDCD	F3111
005	-	-	-			
006	-	-	-			
007	-	-	-			
008	-	-	-			
009	-	-	-			
010	-	-	-			
011	-	-	-			
012	-	-	-			
013	-	-	-			

1. From the Flex Manufacturing Accounting (G3141) screen, access the setup screen and complete the AAI and Company fields.
2. Enter X in either the Business Unit, Sub Account, or Subledger column to associate a flexible segment element to the standard format segment. When defining a flexible segment for Subledger, you must define the Subledger Type.

Figure 21–2 Flex Manufacturing Accounting screen



3. Enter File and Data Item values for each flexible element.

21.2.1 What You Should Know About

Topic	Description
Using a consistent account structure	<p>You must use the same account structure for all companies and all business units in your organization. This is necessary for multi company consolidations and automated intercompany settlements.</p> <p>If you use flexible accounting in the JD Edwards World financial systems, the business unit and subsidiary account that you define through manufacturing flexible accounting must have the same number of characters as the business unit and subsidiary account that you define through financial flexible accounting.</p>
Defining one subledger per account	<p>You can define only one subledger type for each account. It is important that you review your account structure before you set up flexible accounts to determine how you use subledgers.</p>
Elements from F3116 and F4801 cannot be combined	<p>You cannot combine elements for any AAI and Company, including elements from both F3116 and F4801 (Work Order Master File). However, you can use elements from F4101 and F4102 to establish flexible segments, which the system uses for either work order or orderless journal entries.</p>
Enabling Flexible Accounting	<p>When you enable Flexible Accounting, the system uses a defined flexible format business unit or subsidiary wherever allowed by AAI setup. In other words, the system determines the account information by searching the automatic accounting instructions first. If you do not have a defined business unit or subsidiary account, the system uses the defined flexible format.</p> <p>The system also uses the flexible format subledger, when defined, otherwise populates the subledger.</p>

21.2.2 Processing Options

- See [Section 23.8, "Item Cost Update \(P30835\)."](#)
- See [Section 25.5, "Manufacturing WIP Journal Entries \(P31802\)."](#)

See Section 25.6, "Manufacturing Variance Journal Entries (P31804)."

See Section 25.7, "Work Order Closing and Clear WIP (P31806)."

See Section 25.8, "Manufacturing Accounting for Orderless Completion (P31862)."

Manufacturing Accounting in ERPx Environments

This chapter contains these topics:

- [Section 22.1, "Objectives,"](#)
- [Section 22.2, "About Manufacturing Accounting in ERPx Environments,"](#)
- [Section 22.3, "About Process Industry Accounting."](#)

22.1 Objectives

- To understand what happens when completions are reported against co- and by-products

22.2 About Manufacturing Accounting in ERPx Environments

If you use the Manufacturing Accounting system in any special environment (using rate schedules or processes), there are differences in how the system calculates variances and creates journal entries. Actual cost is not supported for Process or Repetitive manufacturing.

Understanding manufacturing accounting in ERPx environments requires the following:

- Understanding process industry accounting

22.3 About Process Industry Accounting

The main difference between discrete manufacturing accounting and process manufacturing accounting is that with a process, completions are reported against the co- and by-products themselves and not against the parent process. You can set a processing option to allow completions of unplanned co- and by-products. Variances are still reported against the process.

22.3.1 About Unaccounted Units in Process Industry Accounting

Unaccounted units represent the quantities and dollar amounts of transactions that occur against a work order when you issue parts, or record labor or completions. You cannot view unaccounted units. They are stored by the system until you run the Journal Entries for Work in Process or Completions program. This program creates journal entries for the unaccounted units and then purges the unaccounted units.

In the process industry, unaccounted units are stored in the same tables as in the discrete industry. Unaccounted units are stored in the following tables:

Table	Description
Work Order Master (F4801)	When you complete a work order or record scrap against a work order, unaccounted units are stored in the Work Order Master table.
Parts List (F3111)	When you issue material to a work order, unaccounted units are stored in the Parts List table.
Routing Instructions (F3112)	When you record hours against a work order, unaccounted units are stored in the Routing Instructions table.

22.3.2 About Calculated Amounts in Process Industry Accounting

Variance Inquiry can display small engineering variances because the frozen amounts differ slightly from the current amounts. However, Journal Entries for Variances rounds the amounts, and no variances print on the report.

Amounts are calculated in the process industry as follows:

Amount	Description
Frozen amounts	Frozen amounts are based on the cost of the process, from the Cost Components table (F30026).
Actual amounts	The actual costs of the ingredients issued are added to calculate the actual A1 cost of the process.
Completed amounts	For each cost component, the completed costs of the co- and by-products are added to calculate the completed cost of the process for that cost component. For example, the completed B1 cost of all co- and by-products are added. Their sum is the completed B1 cost of the process.

Part IV

Processing Options

This part contains these chapters:

- [Chapter 23, "Product Costing Processing Options,"](#)
- [Chapter 24, "Product Costing in ERPx Environments Processing Options,"](#)
- [Chapter 25, "Manufacturing Accounting Processing Options."](#)

Product Costing Processing Options

This chapter contains these topics:

- Section 23.1, "Item Cost Level Conversion (P41815),"
- Section 23.2, "Item Cost Revisions (P4105),"
- Section 23.3, "Costing Exceptions (P30801),"
- Section 23.4, "Cost Simulation (P30820),"
- Section 23.5, "Item Cost Components (P30026),"
- Section 23.6, "Costed Bill of Material Inquiry (P30206),"
- Section 23.7, "Costed Routing Inquiry (P30208),"
- Section 23.8, "Item Cost Update (P30835),"
- Section 23.9, "Item Ledger - Costs (P4111),"
- Section 23.10, "Costed Bill (P30440),"
- Section 23.11, "Multi-Level Costed Bill (P30445),"
- Section 23.12, "Cost Components (P30026P),"
- Section 23.13, "Cost Component/Ledger Integrity (P30543),"
- Section 23.14, "Comprehensive Cost Comparison-Cost Lvl 1 (P30550),"
- Section 23.15, "Copy Component Cost Values (P30890),"
- Section 23.16, "Cost Simulation Reset (P30850),"
- Section 23.17, "Update Sales Cost, Price, or Exchange Rate (P42950),"
- Section 23.18, "Item Cost Revisions (P4105)."

23.1 Item Cost Level Conversion (P41815)

Processing Option	Processing Options Requiring Further Description
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PROCESS CONTROL:

1. Enter the cost level to update to.

2. If updating to cost level '1', enter the branch to default the costs from.

If updating from a cost level '3', the costs will default from the primary location.

Processing Option**Processing Options Requiring Further Description**

3. Enter a '1' to run in final mode and update files.

If blank, no file updates will occur.

4. Enter a '1' to print only exceptions on the edit report.

A blank will print all items.

23.2 Item Cost Revisions (P4105)

Processing Option**Processing Options Requiring Further Description**

DISPLAY CONTROL:

1. Enter a '1' for Speed Cost Update.

If left blank, the screen will default to Item Cost Revisions.

DEFAULT VALUES:

2. Enter the default cost method to display when the Speed Cost Update format is selected.

PROCESS CONTROL:

3. Enter a '1' to prevent the standard cost from being changed.

4. Enter a '1' to write Subledger Information based on Item Number, into Journal Entries.

If left blank, no Subledger Information will be written in Journal Entries

5. Enter '1' to use 15 character lot, leave blank to default to 12 characters.

23.3 Costing Exceptions (P30801)

Processing Option**Processing Options Requiring Further Description**

ERROR MESSAGES:

1. Enter the minimum message level to appear on the report. Error messages are defined in the Vocabulary Overrides file (F0020).

2. Enter the Cost Method to base costing errors on.

If left blank, '07' will be used.

23.4 Cost Simulation (P30820)

Processing Option**Processing Options Requiring Further Description**

DATE EFFECTIVITY:

1. Enter the As Of Date.

If left blank, the system date will be used.

This relates to the As Of date on the BOM and Routing. It can be utilized to simulate costs for items in the future.

COST ROLLUP MODE:

Processing Option	Processing Options Requiring Further Description
2. Enter the Cost Method to use for the roll up. If left blank, '07' will be used.	This is the OUTPUT. This is the cost method you want simulated.
3. Enter a '1' to simulate only the items selected and not explode the bill of material.	Works in conjunction with processing option 6 and 7. If this is a blank, then 6 and 7 are input from F4105. If this is a 1, then 6 and 7 are input from F30026. Note: If this is a 1 for a single-level BOM roll, the system goes to a different input file (F30026) and when you run the cost update, the system will only revalue items that are included in the data selection.
COST SIMULATION PRINT INFORMATION:	
4. Enter one of the following:	
1 = Print all items	
2 = Print changed items	
If left blank, no report will be printed.	
ROUTING CALCULATION INFORMATION:	
5. Enter one of the following:	
1 = Clear and recalculate labor and overhead for manufactured items only	
2 = Clear and recalculate labor and overhead for all items	
3 = Clear Labor and Overhead for all items, but recalculate labor and overhead for manufactured items only	
If left blank, labor and overhead will not be recalculated.	
SUBCONTRACTED ITEMS:	
6. Enter the Cost Method to move from the Cost Ledger file (F4105) to the Cost Components file (F30026).	The file read is dependent on the value in processing option 3.
If left blank, no cost will be moved.	
PURCHASED ITEMS:	
7. Enter the Cost Method to move from the Cost Ledger file (F4105) to the Cost Components file (F30026).	The file read is dependent on the value in processing option 3.
If left blank, no cost will be moved.	
PROCESS MANUFACTURING:	
8. Enter a '1' to calculate costs of Co/By-Products.	
DEFAULT DISPLAY DECIMALS:	
9. Enter the number of decimals to use for display (0-4) in the Cost Simulation report (P30825).	
If left blank, 4 decimals will be used.	
CO/BY PRODUCT RECALCULATION:	
10. Enter a '1' to indicate that the costs of Co/By Products used as Ingredients/Components should not be cleared and recalculated.	

23.5 Item Cost Components (P30026)

Processing Option	Processing Options Requiring Further Description
COST TYPES:	
1. Enter a '1' to allow input into the Calculated Cost Types for routings (B1-B4 and C1-C4).	If you want to manually input these values then be sure processing option 5 is blank on the P30820 program.
SUBCONTRACT PURCHASE ORDERS:	
2. Enter the cost method to be used for subcontracted items *OPxx (i.e., 01, 02, 03). If left blank, parent item's method will be used.	
DEFAULT DECIMALS:	
3. Enter the number of decimals to use for display (0-4). If left blank, 4 decimals will be used.	
AS OF DATE:	
4. Enter the As of Date for which Operation sequences will be picked up from Routing (F3003) for Cost Type Calculations Detail Window. If left blank, this will default to today's System Date.	

23.6 Costed Bill of Material Inquiry (P30206)

Processing Option	Processing Options Requiring Further Description
DEFAULT VALUES:	
1. Enter the number of decimals to use for display (0-4). If left blank, 4 decimals will be used.	
2. Enter a '1' to base fixed costs on the requested quantity. If left blank, fixed costs will be based on the Accounting cost quantity.	

23.7 Costed Routing Inquiry (P30208)

Processing Option	Processing Options Requiring Further Description
SUBCONTRACT PURCHASE ORDERS:	
1. Enter the cost method to be used for subcontracted items. If left blank, '01' will be used.	
PURCHASED ITEMS:	
2. Enter the cost method to be used for purchased items. If left blank, '07' will be used.	
OPERATION SEQUENCE DISPLAY:	

Processing Option	Processing Options Requiring Further Description
3. Enter a '1' to display the costs up to and including the operation sequence entered in the 'Skip To' field. If left blank, the costs will be displayed beginning with the entered operation's costs.	
TOTALING OPTIONS:	
4. Enter a '1' to include cost buckets 1 and 2 in the total. If left blank, the total will only include cost buckets 3-6.	
COSTED RESOURCES/CO/BY-PRODUCTS:	
5. Enter the number of decimals to display (0-4) in the Costed Resources/Co/By-Products window. If left blank, 4 decimals will be used.	

23.8 Item Cost Update (P30835)

Processing Option	Processing Options Requiring Further Description
PROCESSING CONTROL:	
1. Enter a '1' to update costs. If left blank, Proof mode is assumed and costs will not be updated.	
2. Enter the Cost Method to update in the Cost Components and Item Cost Ledger files. If left blank, '07' will be used.	This is the OUTPUT. This is the cost method that will be updated in final mode.
3. Enter a '1' to update only the items selected and not explode the bill of material. Note: If revaluing configured item WIP, include all changing configured items and their changing components in the data selection (no standard BOM).	If this is set to 1, only the items in the data selection will update. If blank, then all items on all levels of the Bill of material will be updated.
4. Enter a '1' to update the Work Center Rates in the Work Center Rates file. If left blank, rates will not be updated.	
PROCESS MANUFACTURING:	
5. Enter a '1' to update costs of Co/By-Products.	
ACCOUNT LEDGER INFORMATION:	
6. Enter one of the following: 1 = Write Detailed G/L transactions (by Item) 2 = Write Summarized G/L transactions (by Account). If left blank, no G/L transactions will be written.	
7. Enter the General Ledger Date. If left blank, the system date will be used.	
REPORT FORMAT:	

Processing Option	Processing Options Requiring Further Description
8. Enter one of the following: 1 = Print all items 2 = Print changed items If left blank, all items will be printed.	
WIP RE-VALUATION:	
9a. Enter a '1' to adjust WIP according to new costs.	
9b. Enter a '1' to include configured items in WIP revaluation. If left blank, configured work orders will not be adjusted.	
WARNING: If unexpected journal entries are written by WIP revaluation, the only recovery is to restore the F3102 (production cost file) from backup, so use of proof mode is recommended (see processing option 1).	
10. Enter the document type. If left blank, 'IB' will be used.	
11. Enter one of the following: 1 = Write Detailed G/L transactions (by document) 2 = Write Summarized G/L transactions (by Account). If left blank, no G/L transactions will be written.	
12. Enter a '1' to move the Production Document Number into the Sub-Ledger field.	This cannot be set to 1 if processing option 6 or 11 is set to 2.
DEFAULT DISPLAY DECIMALS:	
13. Enter the number of decimals to use for display (0-4) in the Item Cost Rollup Report(P30835). If left blank, 4 decimals will be used.	
FLEX ACCOUNTING:	
14. Enter '1' to use flex accounting. If left blank, flex accounting will not be used.	

23.9 Item Ledger - Costs (P4111)

Processing Option	Processing Options Requiring Further Description
DISPLAY OPTIONS:	
1. Enter the format to be displayed: 1 = Running Quantity Balance format. 2 = Running Dollar Balance format. 3 = Cost Item Ledger format. 4 = Location Item Ledger format. 5 = Lot Status/Grade/Potency Item Ledger format. If left blank, the Cost Item Ledger format will be displayed.	
DEFAULT VALUES:	

Processing Option	Processing Options Requiring Further Description
2.	Enter the default document type upon entering the video. If left blank, a '*' will default for all document types.
3.	Enter a '1' to display Item Ledger entries in ascending date and time order. If left blank, the entries will be displayed in descending date and time order. (This option does NOT apply to Running Balance formats.)
4.	Enter a '1' to search by Original Document Type. If left blank, the search will be done by G/L Document Type. DREAM WRITER VERSIONS: Enter a DREAM Writer Version for the following programs. (ZJDE0001) is the default.
5.	Load & Delivery Ledger Inq P49511

23.10 Costed Bill (P30440)

Processing Option	Processing Options Requiring Further Description
	BILL EFFECTIVITY:
1.	Enter the As Of Date for the bill of material. If left blank, the system date will be used.
	COSTING OPTIONS:
2.	Enter the Cost Method to use. If left blank, '07' will be used.
3.	Enter the costs to be printed. 1 = Simulated 2 = Frozen
4.	Enter the number of units to cost (e.g., 10000).
5.	Enter a '1' to base fixed costs on the requested quantity. If left blank, fixed costs will be based on the Accounting cost quantity.
	AMOUNT DECIMAL POSITIONS:
6.	Enter a '1' to display 2 decimal positions in the amount fields. If left blank, 4 decimal positions will be displayed in the amount fields.

23.11 Multi-Level Costed Bill (P30445)

Processing Option	Processing Options Requiring Further Description
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BILL EFFECTIVITY:

1. Enter the As Of Date for the bill of material.

If left blank, the system date will be used.

COSTING OPTIONS:

2. Enter the Cost Method to use.

If left blank, '07' will be used.

3. Enter the costs to be printed.

1 = Simulated

2 = Frozen

4. Enter the number of units to cost (e.g., 10000).

PRINT FORMAT:

5. Enter a '1' to print an indented bill of material.

6. Enter a '1' to print a Unit Cost line of detail.

If left blank, only one line of detail will be printed for each item.

23.12 Cost Components (P30026P)

Processing Option	Processing Options Requiring Further Description
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REPORT FORMAT:

1. Enter the Cost to print:

1 - Simulated Cost

2 - Frozen Cost

23.13 Cost Component/Ledger Integrity (P30543)

Processing Option	Processing Options Requiring Further Description
-------------------	--

REPORT FORMAT:

1. Enter a '1' to see report detail for all items processed.

If left blank, only items with cost discrepancies will be printed.

23.14 Comprehensive Cost Comparison-Cost Lvl 1 (P30550)

Processing Option	Processing Options Requiring Further Description
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PRINT VARIANCE OPTIONS:

Processing Option	Processing Options Requiring Further Description
-------------------	--

1. Enter a '1' to print items with a cost ledger unit cost (F4105) vs.

frozen cost (F30026) variance.

Enter a '2' to print items with a simulated cost vs. frozen cost (F30026) variance.

Enter a '3' to print items with either or both variances. Leave blank to print all items regardless of any variances.

Blank is the default.

STOCKING TYPES:

2. Enter the Stocking Types of items to be selected to print on the report. Up to 5 stocking types may be entered. (for example: MPX) If left blank, all stocking types will be selected.

23.15 Copy Component Cost Values (P30890)

Processing Option	Processing Options Requiring Further Description
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COPY FROM INFORMATION:

1. Branch/Plant (Required)

2. Cost Method (Required)

3. Select the Costs to be copied:

1 = Simulated

2 = Frozen

COPY TO INFORMATION:

4. Branch/Plant (Required)

5. Cost Method (Required)

23.16 Cost Simulation Reset (P30850)

Processing Option	Processing Options Requiring Further Description
-------------------	--

PROCESSING CONTROL:

1. Enter the Branch/Plant to be processed or '*' to process all Branch/Plants.

2. Enter a '1' to reset rates for Cost Centers for the selected Cost Method(s).

23.17 Update Sales Cost, Price, or Exchange Rate (P42950)

Processing Option	Processing Options Requiring Further Description
-------------------	--

UPDATE OPTIONS:

Processing Option	Processing Options Requiring Further Description
1. Enter '1' to update Sales Order with the most current unit cost.	If left blank, will not update cost.
2. Enter '1' to update the currency exchange rate. Please note that only the domestic amounts will be re-calculated, the foreign amounts will remain the same.	If left blank the currency exchange rate will remain the same.
3. Enter '1' to update the inter-company currency exchange rate. Foreign amounts will not be re-calculated.	If left blank, will not update the inter-company exchange rate.
UPDATE PRICE OPTIONS:	
4. Enter '1' to recalculate the unit price of the sales order.	If left blank, the unit price will remain the same.
5. Enter '1' to recalculate the Transfer Price for inter-branch sales. The pricing method specified when the order was entered will be used.	
6. Specify the date on which all base price and advanced price adjustment recalculations will be based:	
' ' - Transaction/Order Date	
'1' - Requested Ship Date	
'2' - Promised Ship Date	
'3' - Original Promised Date	
'4' - Actual Ship Date	
'5' - System Date	
'6' - Invoice Date	
*' - Use System Constants value	
'P' - Use Based-on Date Preference	
NOTE: Processing options 7 thru 9 are supported only by the Advanced Price Adjustment Module (45).	
7. Enter the Line Type of the new sales detail line item. This line item will contain the difference between the old sales price and the newly recalculated price.	If left blank, will update the new price directly to the item. This must be a non-inventory Line Type.
8. If you have specified in the last processing option to create a sales detail record to record the price difference, enter the override next status of the detail line.	If left blank, will use the original detail line's next status.
9. Enter '1' to base recalculation on the original order quantity.	If left blank, the system will recalculate based on the current quantities of the order.

23.18 Item Cost Revisions (P4105)

Processing Option	Processing Options Requiring Further Description
DISPLAY CONTROL:	
1. Enter a '1' for Speed Cost Update. If left blank, the screen will default to Item Cost Revisions.	
DEFAULT VALUES:	
2. Enter the default cost method to display when the Speed Cost Update format is selected.	
PROCESS CONTROL:	
3. Enter a '1' to prevent the standard cost from being changed.	
4. Enter a '1' to write Subledger Information based on Item Number, into Journal Entries. If left blank, no Subledger Information will be written in Journal Entries	
5. Enter '1' to use 15 character lot, leave blank to default to 12 characters.	

Product Costing in ERPx Environments Processing Options

This chapter contains the topic:

- [Section 24.1, "Costed Routing Inquiry \(P30208\)."](#)
- [Section 24.2, "Work Center Rate Revisions - Z File \(P30061Z\)."](#)

24.1 Costed Routing Inquiry (P30208)

Processing Option	Processing Options Requiring Further Description
SUBCONTRACT PURCHASE ORDERS:	
1. Enter the cost method to be used for subcontracted items. If left blank, '01' will be used.	
PURCHASED ITEMS:	
2. Enter the cost method to be used for purchased items. If left blank, '07' will be used.	
OPERATION SEQUENCE DISPLAY:	
3. Enter a '1' to display the costs up to and including the operation sequence entered in the 'Skip To' field. If left blank, the costs will be displayed beginning with the entered operation's costs.	
TOTALING OPTIONS:	
4. Enter a '1' to include cost buckets 1 and 2 in the total. If left blank, the total will only include cost buckets 3-6.	
COSTED RESOURCES/CO/BY-PRODUCTS:	
5. Enter the number of decimals to display (0-4) in the Costed Resources/Co/By-Products window. If left blank, 4 decimals will be used.	

24.2 Work Center Rate Revisions - Z File (P30061Z)

Processing Option	Processing Options Requiring Further Description
ERROR REPORTING:	

Processing Option	Processing Options Requiring Further Description
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1. Enter '1' to skip printing the error report. If left blanks, the report will print.	
--	--

2. Enter the version to be used to call the error report program (P41ZERR). If left blank, XJDE0010 will be used.	
---	--

Manufacturing Accounting Processing Options

This chapter contains these topics:

- [Section 25.1, "AAI Revisions \(P40901\),"](#)
- [Section 25.2, "Generate and Print Work Orders \(P31410\),"](#)
- [Section 25.3, "Work Order Inventory Issues \(P31113\),"](#)
- [Section 25.4, "Component Scrap Transactions \(P31116\),"](#)
- [Section 25.5, "Manufacturing WIP Journal Entries \(P31802\),"](#)
- [Section 25.6, "Manufacturing Variance Journal Entries \(P31804\),"](#)
- [Section 25.7, "Work Order Closing and Clear WIP \(P31806\),"](#)
- [Section 25.8, "Manufacturing Accounting for Orderless Completion \(P31862\),"](#)
- [Section 25.9, "PO/Receipt/Voucher Inquiry \(P43260\),"](#)
- [Section 25.10, "Purchase Order/Receipt/Voucher Report \(P43560\),"](#)
- [Section 25.11, "Gain/Loss Analysis Report \(P415402\),"](#)
- [Section 25.12, "General Ledger Post \(P09800\),"](#)
- [Section 25.13, "Item Ledger/ Account Integrity \(P41543\)."](#)
- [Section 25.14, "Manufacturing Work Order Entry - Z File \(P48013Z\)"](#)

25.1 AAI Revisions (P40901)

Processing Option	Processing Options Requiring Further Description
DEFAULT INFORMATION:	
1. Enter the default skip to AAI Number:	

25.2 Generate and Print Work Orders (P31410)

Processing Option	Processing Options Requiring Further Description
GENERATION INFORMATION:	

Processing Option	Processing Options Requiring Further Description
<p>1A. Enter one of the following: 1 = Parts List only 2 = Routing only 3 = Both Parts List and Routing If left blank, neither parts list nor routing will be generated.</p>	<p>Note: If using Backflush to Work Center location in Manufacturing Constants, then routings must be attached first for commitments to be made correctly.</p>
<p>1B. Enter a '1' to prevent the update of existing parts list and routing instructions. Commitment and substitute processing of parts lists will occur as usual. If left blank, existing parts list and/or routing will be rewritten.</p>	<p>Note: If transactions have occurred against the order the parts list and routing should be protected from update.</p>
<p>2. Enter a '1' to use the W.O. Date for effectivity checking. If left blank, the W.O. Start Date is used.</p>	
<p>UPDATE INFORMATION:</p>	
<p>3. Enter the new Status Code for the work order/rate header. If left blank, status will not be changed.</p>	
<p>WORK ORDER PRINT INFORMATION:</p>	
<p>4. Enter a '1' to print work orders. If printing work orders:</p>	
<p>PARTS LIST PRINT INFORMATION:</p>	
<p>5. Enter a '1' to print Parts List</p>	
<p>6. Enter a '1' to print the 2nd line of information, which is scrap and related work center.</p>	
<p>7. Enter a '1' to print Parts List on a new page.</p>	
<p>8. Enter the version of the Parts List program (P31415). If left blank, 'ZJDE0001' will be used.</p>	
<p>9. Enter a '1' to print a consolidated Parts List.</p>	
<p>ROUTING PRINT INFORMATION:</p>	
<p>10. Enter a '1' to print the Routing.</p>	
<p>11. Enter a '1' to print Routing on a new page.</p>	
<p>12. Enter the version of the Routing Instructions program (P314151). If left blank, the operation sequence is used.</p>	
<p>BACKSCHEDULING INFORMATION:</p>	
<p>13. Enter the Unit of Measure for backscheduling.</p>	<p>Note: Hours is the standard unit of measure for backscheduling. If this option is left blank, backscheduling will not calculate correctly.</p>
<p>SHOP PACKET SUMMARY INFORMATION:</p>	
<p>14a. Enter a '1' to print the Shop Packet Summary.</p>	
<p>14b. Enter the version of the Shop Packet Summary program (P31416). If left blank, 'ZJDE0001' will be used.</p>	
<p>SHORTAGE REPORT INFORMATION:</p>	

Processing Option	Processing Options Requiring Further Description
15. Enter the version of the Shortage Report program (P31418).	If left blank, no shortage report will be printed.
BAR CODE INFORMATION:	
16. Enter the version of the Bar Code Print program (P31413) for the desired print overrides.	
INVENTORY ISSUE INFORMATION:	
17. Enter the version of Batch Inventory Issues program (P31420).	If left blank, Inventory Issues will not be called.
PURCHASE ORDER INFORMATION:	
18. Enter the version of Write Purchase Orders program (P3420).	If left blank, 'ZJDE0002' will be used.
SALES ORDER INFORMATION:	
19. Enter the new Line Type for kit and configured components. This is used to avoid issuing inventory from Sales Order processing. The Line Type used should be inventory interface 'N'.	If left blank, Line Type will not be changed.
20. Enter the Next Status for Sales Order kit and configured component lines. (This is used to bypass the normal flow of the order, i.e., Pick Slip.)	If left blank, next status will not be changed.
21. Enter a '1' to delete the existing Work Order Text and copy the Sales Order Text to the Work Order.	Enter a '2' to append the Sales Order Text to the end of the existing Work Order Text.
If left blank (default) the Work Order Text will not be updated.	
CONFIGURED ITEM COSTS:	
22. Enter one of the following options for calculating the standard cost for configured items in the Production Cost File (F3102).	
1 = Always calculate the standard cost	
2 = Only calculate the standard cost if it has not already done (no variance records exist)	
If left blank, standard cost will not be calculated.	
BOM SUBSTITUTES:	
23. Enter '1' to allow the use of Bill of Material substitutes in case of a shortage.	
PURCHASING JOURNAL ENTRIES:	
24. Enter a '1' to load the Work Order Number into the Subledger field of the purchasing J/E's.	
BLANKET/QUOTE PROCESSING:	

Processing Option	Processing Options Requiring Further Description
25. Enter a '1' for automatic blanket order release processing.	
BUILD AGAINST PRIOR REVISIONS:	
26. Enter a '1' to permit building work orders against prior revision levels. The revision level in the work order header (F4801) will be used to select the parts list to attach to the work order. If left blank, prior revision level bills will not be selected.	
WAREHOUSE PROCESSING:	
27. Enter the request processing mode: 1 = Generate requests only 2 = Generate requests and process using the subsystem. If left blank, requests will not be generated.	
28. If processing pick requests using the subsystem, enter the version of Process Pick Requests (P46171) to call. If left blank, 'XJDE0002' will be used.	
29. Enter the default staging location for moving goods out of the warehouse.	
30. Enter a '1' if the default staging location should be checked for availability. If the part is available at the staging location a request will NOT be generated. Note: This option only applies to parts with no work center locations.	
GENERIC TEXT PRINT OPTIONS:	
31. Enter a '1' to print the component's generic text on the Parts List.	
32. Enter a '1' to print the operation's generic text on the Routing.	
BAR CODE INFORMATION:	
34. Enter the format for bar code printing. 1 = Code 3 of 9 (Code 39) 2 = Code 128 If left blank, bar codes will not print.	
COMMITMENT PROCESSING:	
35. Enter a '1' to bypass commitment processing when creating the Parts List. If left blank, commitments will be processed per Commitment Control in Manufacturing Constants (P3009).	
QUALITY MANAGEMENT:	
36. Enter '1' to print Manufacturing Specifications.	
37. Enter the version of the Manufacturing Specifications print program to call (P37470). If left blank, 'ZJDE0001' will be used.	

Processing Option	Processing Options Requiring Further Description
PHANTOM OPERATION SEQUENCE NUMBER:	
38. Enter a '1' to default the phantom's (parent) operation sequence for the components on the parts list. If left blank, the component's operation sequence will be used.	
WORK ORDER START DATE UPDATE:	
39. Enter a '1' to update the Work order Start Date with the Start Date of the first routing operation for variable lead time. If left blank no updating will be performed	
LOT EXPIRATION DATE:	
40. Select the date that will be used to determine the eligibility of lot/ /serial numbered components. Only lots with effective dates less than or equal to the date specified AND expiration dates (based on the item's commitment date method) greater than or equal to the date specified will be considered. ' ' = Parts list required date (default) '1' = Work order start date '2' = Work order requested (completion) date	
AUTOMATIC LOT NUMBER GENERATION:	
41. Enter a '1' to automatically generate a lot number upon co/by products creation for items with a lot process type of 1 or 2.	

25.3 Work Order Inventory Issues (P31113)

Processing Option	Processing Options Requiring Further Description
UPDATE INFORMATION:	
1. Enter the Document Type associated with an inventory issue.	
2. Enter the Status Code for update to the work order header. If left blank, the header will not be updated. Enter '*' to update according to Work Order Activity Rules.	
3. Enter the default value for the Material Status Code. If left blank, material status will not be updated.	
4. Enter the Status Code beyond which issues cannot be made.	
INQUIRY INFORMATION:	
5. Enter a '1' to display only valid Issue Type Codes. If left blank, all Parts List items will display.	
6. Enter a '1' to preload all screen detail lines with the selection value to process the issue.	
OPERATION SEQUENCE FIELD:	

Processing Option	Processing Options Requiring Further Description
7. Enter a '1' to display operations that equal the entered Operation Sequence. If left blank, the value will be used as a 'Skip To' field.	
REQUESTED DATE FIELD:	
8. Enter a '1' to display operations that equal the entered Requested Date. If left blank, the value will be used as a 'Skip To' field.	
EDIT INFORMATION:	
9. Enter a '1' to give an error if the quantity on hand is negative.	
ITEM SALES HISTORY INFORMATION:	
10. Enter a '1' to update Item Sales History (F4115) file.	
HOLD CODE TO ISSUE:	
11. Enter the lot hold codes (up to 5) that are acceptable for inventory issues, or enter a '*' to allow issues to all held lots. If left blank, issues to held lots will not be allowed.	
SHORTAGE MAINTENANCE:	
12. Enter the version of Shortage Maintenance (P3118) to be called.	
If left blank, 'ZJDE0001' will be used.	
UNPLANNED ISSUES:	
13. Enter '1' to allow for unplanned issues.	
14. Enter a '1' to default the Location and Lot from the Primary Location. If left blank, the user must specify a valid Location and Lot.	
LOT NUMBER:	
15. Enter '1' to protect the lot number from entry.	
PROCUREMENT INFORMATION:	
16. Enter the document type for purchase orders. (Default is 'OP')	
17. Enter the version of the Open Inquiry Window program (P3160W) to use. If left blank, 'ZJDE0001' will be used.	
18. Enter the default route type to be used to search for a receipt route. (Default is 'OT')	
RECEIPT ROUTINGS:	
19. Enter the value of the default route to be used for items without a receipt routing.	
20. Enter the version of Receipt by PO/Item/Account (P4312) to call.	
If left blank, 'ZJDE0008' will be used.	
MOVE AND DISPOSITION:	

Processing Option	Processing Options Requiring Further Description
21. Enter the version of Move and Disposition (P43250) to call. If left blank, 'ZJDE0002' will be used.	
FOR STANDARD COSTING:	
22. Enter a '1' to use the cost from F4105 for manufacturing accounting. If left blank, use cost from F30026 for manufacturing accounting.	
OPTION TO CLOSE A LINE:	
23. Enter a '1' to prevent closing a line (option 9) with issued quantities. If left blank closing any line will be allowed.	
FOR ACTUAL COSTING:	
24. Enter a '1' to provide a warning message when any component unit cost does not exist or is less than or equal to zero. Enter a '2' to provide a hard error message. If left blank, the component unit cost is not checked for the component items.	

25.4 Component Scrap Transactions (P31116)

Processing Option	Processing Options Requiring Further Description
DEFAULT FORMAT:	
1. Enter a '1' for Item Number entry. If left blank, Work Order Number entry will be used.	
DEFAULT VALUES:	
2. Enter the Item Ledger Transaction date. If left blank, the system date will be used.	
3. Reason Code (Optional)	
4. Enter the Document Type associated with the Component Scrap Transaction.	
SERIAL NUMBER PROCESSING:	
5. Enter the Document Type to use for Serial Number Issues. If left blank, 'IM' will be used.	

25.5 Manufacturing WIP Journal Entries (P31802)

Processing Option	Processing Options Requiring Further Description
PROCESSING CONTROL:	
1. Enter the G/L Date. If left blank, the system date will be used.	

Processing Option	Processing Options Requiring Further Description
2. Enter a '1' to create journal entries. If left blank, Proof mode is assumed.	
JOURNAL ENTRY SUMMARIZATION:	
3. Enter a '1' to summarize Material Issues by Account within a document.	
4. Enter a '1' to summarize by Account ACROSS documents. WARNING: This option will reduce the number of journal entries.	NOTE: If you summarize ACROSS work orders you cannot activate processing option 9 to default the Work Order Number into the Subledger field
REPORT OPTIONS:	
5. Enter a '1' to print an Accounting Journal.	
6. Enter a '1' to print subtotals by Document Type and Document.	
REPORT SUMMARIZATION:	
7. Enter a '1' to summarize Material Issues within a document.	
8. Enter a '1' to summarize by Account ACROSS documents. Caution: This option will reduce the report output.	NOTE: If you summarize ACROSS work orders you cannot activate processing option 9 to default the Work Order Number into the Subledger field.
SUBLEDGER/WORK ORDER NUMBER:	
9. Enter a '1' to default the document number into the Subledger field.	
WORK ORDER STATUS CHANGE:	
10. Enter the new Status Code for the document. If left blank, the status will not be changed.	
ADDITIONAL WORK ORDER TYPES:	
11. Enter the Document Type associated with Inventory Scrap.	
12. Enter the Document Type to default for Shop Floor Activity.	
NOTE: This will only be used if no Document Type exists in the Routing file (F3112).	
ISSUES OF MATERIAL:	
13. Enter a '1' to use the Charge to Business Unit for the Credit Side of IM Transactions. If left blank, Component Branch/Plant is used.	
CARDEX USER-ID UPDATE:	
14. Enter a '1' to update the User ID in the Cardex File (F4111). If left blank, the User ID will not be changed.	

25.6 Manufacturing Variance Journal Entries (P31804)

Processing Option	Processing Options Requiring Further Description
PROCESSING CONTROL:	
1. Enter the G/L date. If left blank, the system date will be used.	
JOURNAL ENTRY SELECTIONS:	
2. Enter '1' to create journal entries. If left blank, program will run in Proof mode and no journal entries will be created.	
3. Enter '1' to summarize by account ACROSS documents.	
WARNING: This option will reduce the number of journal entries.	
REPORT SELECTIONS:	
4. Enter '1' to print an accounting journal.	
5. Enter '1' to print subtotals by document.	
6. Enter '1' to summarize by account ACROSS documents.	
WARNING: This option will reduce the report output.	
SUBLEDGER/WORK ORDER NUMBER:	
7. Enter '1' to default the Document Number into the Subledger field (not recommended if processing options 3 or 6 are selected).	
DOCUMENT TYPE:	
8. Enter the Document Type associated with manufacturing variances.	
WORK ORDER STATUS CHANGE:	
9. Enter the new status code for the document. If left blank, the status will not be updated.	
Enter '*' to update according to Work Order Activity Rules.	
CLOSED ORDER STATUS:	
10. Enter '1' to re-state the standard, current, and planned production costs based on completed + scrapped quantity.	
Note: This will eliminate the 'Other' type variance caused by the over/under completion. The use of PROOF mode is recommended, to avoid unexpected updates to Production Cost File (F3102).	
OVER/UNDER COMPLETIONS (Continued):	
11. Enter the status beyond which documents should not be allowed to have additional activity.	
If left blank, '99' will be used. When the value specified here is less than or equal to the status specified in processing option 9, the variance flag (PPFG) will be updated to closed (3).	
FLEX ACCOUNTING:	

Processing Option	Processing Options Requiring Further Description
12. Enter '1' to use flex accounting. If left blank, flex accounting will not be used.	

25.7 Work Order Closing and Clear WIP (P31806)

Processing Option	Processing Options Requiring Further Description
1. Enter the G/L Date. If left blank, the current date will be used.	
JOURNAL ENTRY SELECTIONS:	
2. Enter a '1' to create journal entries. If left blank, 'Proof' mode is assumed.	
3. Enter a '1' to summarize by Account ACROSS work orders. WARNING: This option will reduce the number of journal entries. See Helps.	NOTE: If you summarize ACROSS work orders you cannot activate processing option 7 to default the Work Order Number into the Subledger field.
REPORT SELECTIONS:	
4. Enter a '1' to print an Accounting Journal.	
5. Enter a '1' to print subtotals by Document.	
6. Enter a '1' to summarize by Account ACROSS work orders. WARNING: This option will reduce the report output. See Helps.	NOTE: If you summarize ACROSS work orders you cannot activate processing option 7 to default the Work Order Number into the Subledger field.
7. Enter a '1' to default the Work Order Number into the Subledger field.	
8. Enter the Document Type for Completion. If left blank, 'IC' will be used.	
9. Enter the Document Type for Scrap. If left blank, 'IS' will be used.	
10. Enter the new Status Code for the Work Order. If left blank, the status will not be changed.	

25.8 Manufacturing Accounting for Orderless Completion (P31862)

Processing Option	Processing Options Requiring Further Description
1. Enter the G/L date. If left blank, the current date will be used.	
2. Enter a '1' to create journal entries. If left blank, 'Proof' mode is assumed.	
JOURNAL ENTRY SUMMARIZATION:	
3. Enter a '1' to summarize Material Issues by Account within a document.	

Processing Option	Processing Options Requiring Further Description
4. Enter a '1' to summarize by Account ACROSS documents.	
WARNING: This option will reduce the number of journal entries. See Helps.	
REPORT OPTIONS:	
5. Enter a '1' to print an Accounting Journal.	
6. Enter a '1' to print subtotals by Document Type and Document.	
REPORT SUMMARIZATION:	
7. Enter a '1' to summarize Material Issues within a document.	
8. Enter a '1' to summarize by Account ACROSS documents.	
WARNING: This option will reduce the report output. See Helps.	
DOCUMENT TYPES:	
9. Enter the Document Type associated with Inventory Issues.	
10. Enter the Document Type associated with Orderless Shop Floor Activity.	
11. Enter the Document Type associated with Inventory Completions.	
12. Enter the Document Type associated with Inventory Scrap.	
13. Enter the Document Type associated Accounting Variances.	
FLEX ACCOUNTING:	
14. Enter '1' to use flex accounting. If left blank, flex accounting will not be used.	

25.9 PO/Receipt/Voucher Inquiry (P43260)

Processing Option	Processing Options Requiring Further Description
DEFAULT VALUES:	
1. Order Type (Required)	
DISPLAY OPTIONS:	
2. Enter '1' to display all G/L transactions generated by individual steps in the Receipt Route. If left blank, only the final G/L transaction generated from the Receipt Route will be displayed.	
3. Enter '1' to display all Landed Cost transactions lines. If left blank, no landed cost transactions will be displayed.	
DREAM WRITER VERSIONS:	
Enter the version for each program.	

Processing Option	Processing Options Requiring Further Description
4. Order Inquiry (P43030W)	
5. Review Unmatched Receipts (P43214W)	
6. Purchase Order Detail (P4311)	
7. Receipt Routing Inquiry (P43252)	
8. Open Order Inquiry (P430301)	
9. Voucher Match (P4314)	
10. Work Order Maintenance (P48013)	

25.10 Purchase Order/Receipt/Voucher Report (P43560)

Processing Option	Processing Options Requiring Further Description
1. Enter '1' to display all G/L transactions generated by individual steps in the Receipt Route. If left blank, only the final G/L transaction generated from the Receipt Route will be displayed.	
2. Enter '1' to display all Landed Cost transactions lines. If left blank, no landed cost transactions will be displayed.	
3. Enter currency mode (D/F) If left blank, the default is 'D'	

25.11 Gain/Loss Analysis Report (P415402)

Processing Option	Processing Options Requiring Further Description
1. Enter the range of transaction dates for inclusion of records. (Blanks will default to system date) From Date Thru Date	
2. Enter the relation to use for the variance selection. GT=greater than LT=less than EQ=equal to	
3. Enter the quantity to compare the variance to for selection.	
4. Enter one of the following: A = compare the volume difference % = compare the percent variance	

25.12 General Ledger Post (P09800)

Processing Option	Processing Options Requiring Further Description
BATCH SELECTION:	

Processing Option	Processing Options Requiring Further Description
1. Enter Batch Number or Batch Date or Batch User ID	
PRINT SELECTION:	
2. Identify how to print amount fields on Post Journal:	
'1' = to Millions (w/ commas)	
'2' = to Billions (w/o commas)	
Blank (Default) = No Journal Printed.	
3. Identify which account number to print on report:	
'1' = Account Number	
'2' = Short Account ID	
'3' = Unstructured Account	
'4' = (Default) Number Entered During Input	
FIXED ASSETS:	
4. Enter a '1' to post F/A entries to Fixed Assets.	
Note: DREAM Writer version ZJDE0001 of Post G/L Entries to Assets (P12800) is executed when this option is selected. All transactions selected from that DREAM Writer will be posted rather than just the current entries being posted to G/L.	
5. Enter a 'Y' if you wish to explode parent item time down to the assembly component level. Component billing rates will be used. (This applies to batch type 'T' only.)	
CASH BASIS ACCOUNTING:	
6. Enter a '1' to create and post Cash Basis accounting entries. (Applies to batch type G, K, M, W, & R only.)	
7. Enter units ledger type for Cash Basis Accounting entries.	
(Default of blank will use "ZU" ledger type.)	
ACCOUNTING FOR 52 PERIODS:	
8. Enter a '1' for 52 Period Post.	
Note: DREAM Writer data selection is used for 52 period posting ONLY. It is NOT used for the standard post to the F0902. Additionally, 52 period date patterns must be set up.	
TAX FILE UPDATE:	
9. Identify when to update the Tax Work file (F0018):	
'1' = V.A.T. or Use Tax only	
'2' = for All Tax Amounts	
'3' = for All Tax Explanation Codes	
Blank (Default) = No Update to File	
Note: When using Vertex Taxes the Vertex Tax Register file will be updated instead of the Tax Work file for methods '1', '2', and '3'.	

Processing Option	Processing Options Requiring Further Description
10. Adjust VAT Account for Cash Receipt Adjustments and Write Offs. Tax explanation must be a 'V'.	
'1' = update VAT amount only	
'2' = update VAT amount, extended price and taxable amount	
11. Adjust VAT Account for Discount Taken. The Tax Rules file must be set to Calculate Tax on Gross Amount, including Discount and Calculate Discount on Gross Amount, including Tax. Tax explanation must be a 'V'.	
'1' = update VAT amount only	
'2' = update VAT amount, extended price and taxable amount	
PROPERTY MANAGEMENT:	
12. Enter DREAM Writer version of Property Management G/L Transaction Creation to be executed.	
Default is version ZJDE0001. (This applies to batch types '2' and '/'.)	
UPDATE OPTION:	
13. Enter '1' to update short ID number, company, fiscal year/period number, century, and fiscal quarter in unposted transaction records selected for posting. (May be required for custom input programs.)	
REPORT FORMAT:	
14. Enter a '1' to print the Posting Journal in a 198 character format.	
The default of blank will print the format with 132 characters.	
DETAILED CURRENCY RESTATEMENT:	
15. Enter a '1' to create currency restatement entries. This creates records in the XA, YA, and/or ZA ledgers depending on the version you are running.	
16. Enter the version of the Detailed Currency Restatement (P11411) to execute.	
Default of blank will execute ZJDE0001.	
RECONCILIATION FILE PROCESSING:	
17. Enter a '1' to update the Cross-Environment Reconciliation file. Blank will not update the reconciliation file.	
Note: The Cross-Environment Reconciliation file can also be updated through the stand-alone Cross-Environment File Creation program.	
REVERSING JOURNAL ENTRIES:	

Processing Option	Processing Options Requiring Further Description
18.	When normal number of periods = 12 or 13 and posting a reversing entry into period 12 or 13, enter a '1' to create reversing journal entries to the first period of the following year. This is to avoid posting reversing entries to an adjusting period. Example: Normal number of periods = 12. Period 12 ends 12/30/xx and period 13 ends 12/31/xx. Journal Entry date of 12/30/xx will post reversing entry to period 01 of next year if processing option is set to '1'.
BATCH TYPE SELECTION:	
Note: This option should NOT be changed by User.	

25.13 Item Ledger/Account Integrity (P41543)

Processing Option	Processing Options Requiring Further Description
REPORT DISPLAY:	
1.	Enter the beginning Item Ledger date.
2.	Enter the ending Item Ledger date.
SUMMARIZED MANUFACTURING J/E's:	
3.	Enter a '1' to indicate that Manufacturing J/E's are summarized by account.
Enter Document Types associated with:	
4.	Inventory Issues
5.	Inventory Completions
6.	Parent Scrap
LOAD AND DELIVERY DOCUMENT TYPE:	
7.	Enter the Load and Delivery document type. (This should be same value as used in the Load and Delivery Transaction Server XT49799 document type.) 'CT' is the default.
DIRECT SHIP LINE TYPE:	
8.	Enter the Line Type for Direct Ship Sales Order lines. If left blank, there will not be a check for direct ship lines.

25.14 Manufacturing Work Order Entry - Z File (P48013Z)

Processing Option	Processing Options Requiring Further Description
DREAM WRITER VERSIONS:	
1.	Enter the version to be used to call Work Order Master (P48013). If left blank, ZJDE0001 will be used.
ERROR REPORTING:	
1.	Enter '1' to skip printing the error report. If left blanks, the report will print.

Processing Option	Processing Options Requiring Further Description
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2. Enter the version to be used to call the error report program (P41ZERR). If left blank, XJDE0011 will be used.

Calculations in Cost Rollup

This appendix contains these topics:

- [Section A.1, "Material Cost Components,"](#)
- [Section A.2, "Routing Cost Components,"](#)
- [Section A.3, "Outside Operation Cost Components \(Dx\)."](#)

The following provides information about how hard-coded cost components are generated in the cost rollup process. These calculations can vary according to your manufacturing constants and your processing option choices.

The program adjusts direct labor hours and direct machine hours by time basis, crew size, and cumulative yield, as appropriate. The program adjusts component material quantities by operation scrap. Hours and quantities are also converted to the primary unit of measure.

See Also:

- [Section 6.4, "Assigning Values to User Defined Cost Components."](#)

A.1 Material Cost Components

A.1.1 A1 (Purchased Material Cost)

- If you enter a cost method in the Purchased Item processing option on the Simulate Cost Rollup program, the program uses that cost method to retrieve the cost from the Cost Ledger table.
- If you leave the processing option blank, the program uses the values entered manually on Enter/Change Cost Components.

A.1.2 A2 (Material Scrap)

- Used for items that have a percent of scrap defined in their bill of material.
- Net added cost comes from scrap incurred when the components are assembled.
- Component material scrap cost = % of scrap from bill of material x quantity per parent item x the total cost of the component.

A.2 Routing Cost Components

Routing cost components (cost components B and C) can be controlled manually or through the Simulate Cost Rollup program.

A.2.1 B1 (Direct Labor)

- Parent direct labor costs = sum of direct labor calculations for all operations on the item's routing.
- Operation direct labor cost = $((\text{operation direct labor hours} / \text{operation time basis}) \times \text{operation crew size}) / (\text{operation cumulative yield \%} / 100) \times \text{work center direct labor rate}$.

A.2.2 B2 (Setup Labor)

- Parent setup labor cost = sum of all setup labor calculations for all operations on the item's routing.
- Operation setup labor cost = $(\text{operation setup labor hours} \times \text{work center setup labor rate}) / \text{accounting cost quantity}$ (if the accounting cost quantity is not zero).

A.2.3 B3 (Machine Run)

- Parent machine run cost = sum of machine run calculations for all operations on the item's routing.
- Operation machine run cost = $(\text{operation machine run hours} / \text{operation time basis}) \times (\text{operation cumulative yield} / 100) \times \text{work center machine run rate}$.

A.2.4 B4 (Labor Efficiency)

- Increases or decreases the cost of the labor required to produce an item. If you have set the manufacturing constants to modify costs by work center efficiency, the program creates a cost component (B4) for labor efficiency when you run Simulate Cost Rollup. In addition, if the efficiency for a work center is equal to zero, then no calculation is performed for that work center. Labor efficiency is only calculated for direct labor hours.
- Parent labor efficiency cost = sum of all efficiency calculations for all operations on the item's routing.
- Operation labor efficiency cost = $\text{operation direct labor hours} - (\text{operation direct labor hours} \times (\text{work center efficiency} / 100)) \times \text{work center direct labor rate}$.

A.2.5 C1, C2 (Variable/Fixed Machine Overhead)

- Calculated only if you have set the Manufacturing Constants table (F3009) to include variable and fixed machine overhead in the cost. In this table, you must also determine whether machines' overhead costs are calculated from manually entered rates in the Work Center Master table (F30006) or as a percent of machine run costs.
- Parent variable/fixed machine overhead cost = sum of all variable/fixed machine overhead calculations for the item's routing.
- Operation variable/fixed machine overhead cost by percent = $\text{machine run hours} \times (\text{work center variable/fixed machine overhead percent} / 100) \times \text{work center machine run rate}$.

- Operation variable/fixed machine overhead cost by rate = machine run hours x work center variable/fixed machine overhead rate.

A.2.6 C3, C4 (Variable/Fixed Labor Overhead)

The following calculations are displayed as rates. If you indicate on Work Center Master that variable/fixed labor overhead costs should be calculated as a percent of labor costs, multiply the work center labor rate by the percent / 100 to obtain the labor overhead rate. For example:

Operation variable labor overhead rate = (work center variable labor overhead percent / 100) x work center direct labor rate

- Calculated only if you have set the Manufacturing Constants table (F3009) to include variable and fixed labor overhead in the cost. In this table, you must also determine whether labor overhead costs are calculated from manually entered rates in the Work Center Master table (F30006) or as a percent of labor costs. In addition, you can set the manufacturing constants to factor labor overhead by work center efficiency.
- Parent variable/fixed labor overhead cost = sum of all variable/fixed labor overhead calculations for all operations on the item's routing.
- Variable/fixed labor overhead cost = direct labor overhead cost + setup labor overhead cost:
 - Direct labor overhead cost by rate:
 - * Without labor efficiency: direct labor hours x work center variable/fixed labor overhead rate
 - * With labor efficiency: (direct labor hours + work center efficiency) x work center variable/fixed labor overhead rate

Work center efficiency = labor hours - ((work center efficiency percent / 100) x labor hours)
 - Setup labor overhead cost by rate = (operation setup labor hours / accounting cost quantity) x work center variable/fixed labor overhead rate. Accounting cost quantity is factored if it is not equal to zero.

A.3 Outside Operation Cost Components (Dx)

An outside operation is Manufacturing's vehicle to interface with Accounts Payable. When the vendor sends an Invoice for their services, there is a purchase order in the system to use in the voucher match procedure. It is important to remember that an outside operation is nothing more than the payment for services rendered. It is not an inventoried item. The following tips relate to cost components as they relate to outside operations.

- Can be entered manually on Enter/Change Cost Components or retrieved from the Cost Ledger table (F4105) when you run Simulate Cost Rollup.
- The Simulate Cost Rollup program creates item numbers for outside operations as follows:
 - Parent*OPxx. Parent = the parent item number and xx = the whole-number portion of the outside operation's operation sequence number.

For example, for item 333, an outside operation at operation sequence number 30 receives an item number of 333*OP30.

- If you enter a cost method in the Outside Operations processing option on the Simulate Cost Rollup program, the program uses that cost method to retrieve the cost from the Cost Ledger table. If the value is zero and a value previously existed in the Cost Components table, the original value remains.
- If you leave the processing option blank, the program uses the values entered manually on Enter/Change Cost Components.
- Outside operation cost components require a special handling code to segregate them from extra costs. Verify that UDC 30/CA contains a value of 1 in the special handling code (SHC) for any Dx cost component.
- Use inventory cost level 1 or 2 (CLEV). Inventory Cost Level 3 is not supported because outside operations are not inventory items, but rather the payment for services rendered. As a result of this, the functionality for Multi-Location, Lot Numbers or Serial Numbers is not included.

Caution: Do not make the *OP item lot controlled because at Purchase Order Receipt the system writes an OV to the Cardex. This OV location is in the fold of the Purchase Order (LOCN), but the corresponding IM will always be written to the Primary Location.

- You can key in a valid cost method in Item Cost Revisions (P4105) in the Subcontracte Items processing option for Standard Cost Simulation (P30820). This cost method holds the value associated with it for the outside operation. The result of a successful completion of P30820 will then yield an A1 cost for the *OP item and a Dxx cost type on the parent item for the outside operations.
- When an outside receipt is done with the Receipts by Purchase Order program (P4312), the DMAAI 4335 Standard Cost, is generally used along with the Inventory DMAAI 4310, and 4320 for Received Not Vouchered.

A.3.1 Manufacturing WIP Journal Entries (P31802)

After an outside operation purchase order has been received in all or in part, you can run the Manufacturing WIP Journal Entries (P31802) to produce IH Journal Entries that relate to the outside operation. The AAI's that are generally used by P31802 for the Outside Operation are 3120 Work in Process and 3401 Accruals. The system debits 3120 and credits 3401 (an off-setting account of the 4310).

The 3120 AAI table is the value of the Outside Operation and is incorporated into the parent cost. It is the value of WIP. The 3401 balances the journal entry for 3120. The 3401 should be the same account number as the 4310, because other than balancing the 3120 and 4320, they are relatively meaningless.

The P31802 performs the following calculation: $(SOQS - CLUN) * F30026$ of the outside operation.

SOQS = Quantity shipped from F3112

CLUN = Actual Units from the F3102

(These fields are internal to the system and cannot be viewed on a video.)

An IH document type journal entry is created for the amount generated by the calculation. After the calculation takes place, the system updates the CLUN in the F3102 to match the SOQS in the F3112. This ensures that duplicate IH Journal Entries are not created for the Outside Operation.

Note: The Batch Number, G/L Date, User ID, and Program ID are not updated in the Cardex for the IM entry that correspond to the Outside Operation. The IM record in the Item Ledger reflects the opposite amount of the corresponding receipt (OV) giving a net effect of zero on-hand balance and zero value.

B

Calculations for Variances

This appendix contains these topics:

- [Section B.1, "Standard Costs,"](#)
- [Section B.2, "Current Costs,"](#)
- [Section B.3, "Planned Costs,"](#)
- [Section B.4, "Actual Costs,"](#)
- [Section B.5, "Completed/Scrapped Costs."](#)

Variance Inquiry displays costs from the Production Cost File (F3102). How the system calculates each cost component is explained here.

B.1 Standard Costs

Cost Component	Description
A1	<p>Sum of rolled costs minus sum of net added costs = component material cost. Component material cost multiplied by work order quantity.</p> <p>This cost type is created under the following conditions:</p> <ul style="list-style-type: none">■ When Work Order Processing is run■ When the Work Order Parts List and Routing copy the standard Bill of Material and Routing.■ When Work Order quantity is changed and recalculation is requested
All other cost components	<p>Net added cost x work order quantity</p> <p>These costs are created under the following conditions:</p> <ul style="list-style-type: none">■ When you run Order Processing■ When the Parts List Revisions program copies the bill of material■ When the Work Order Routing program copies the routings■ When you generate journal entries for work order activity

B.2 Current Costs

Cost Component	Description
A1	<p>The sum of total rolled costs for each item in the current bill of material. The cost of components is based on the quantity before scrap is added.</p> <p>This value is created under the following conditions:</p> <ul style="list-style-type: none"> ■ When you generate a parts list with Process Work Orders ■ When you generate journal entries for work order activity ■ When Work Order quantity is changed and recalculation is requested
A2	<p>The sum of the total rolled costs for each item that is scrapped.</p> <p>This value is created under the following conditions:</p> <ul style="list-style-type: none"> ■ When you generate a parts list with Process Work Orders ■ When Parts List Revisions copies the bill of material
B1-C4	<p>Calculated in the same manner as the Simulate Cost Rollup using the hours from the current routing.</p> <p>This value is created under the following conditions:</p> <ul style="list-style-type: none"> ■ When you generate a parts list with Process Work Orders ■ When Work Order Routing copies the routing
All other cost components	<p>Net added cost x work order quantity</p> <p>These costs are created under the following conditions:</p> <ul style="list-style-type: none"> ■ When you generate work order routing with Process Work Orders ■ When Work Order Routing copies the routing

B.3 Planned Costs

Planned costs are updated to the 3102 file with Manufacturing Accounting (P31802) is run in Proof or Final mode.

Cost Component	Description
A1	The sum of total rolled costs for each item in the current parts list.
A2	The sum of the total rolled costs for each item that is scrapped.
B1-C4	Calculated in the same manner as the Simulate Cost Rollup using the hours from the work order routing.
All other cost components	<p>The net added cost x work order quantity.</p> <p>This value is created when you generate journal entries for work order activity.</p>

B.4 Actual Costs

You must run Manufacturing Accounting in Final mode to update these values.

Cost Component	Description
A1	Generated based on actual work order issues. This value is created when you generate journal entries for work order activity.
A2	The cost of the components actually scrapped using the Component Scrap form. See Section 17.5, "Recording Component Scrap."
B1-C4	Calculated in the same manner as Simulate Cost Rollup using the hours from the work order routing. This value is created when you generate journal entries for work order activity.
All other cost components	The net added cost x work order quantity This value is created when you generate journal entries for work order activity.

B.5 Completed/Scrapped Costs

You must run Manufacturing Accounting in Final mode to update these values.

Cost Component	Description
A1	Sum of rolled costs - sum of net added costs = component material cost. This amount includes completed and scrapped quantities.
All other cost components	Net added cost x work order quantity. This value is created when you generate journal entries for work order activity.

Purchase Price Variance

This appendix contains the topic:

- [Section C.1, "Example: Purchase Price Variance and Material Burden."](#)

For purchased items, if the standard cost differs from the actual purchase price, you have a purchase price variance (PPV). If you use extra costs on purchased items, the total standard cost might differ from the A1 (material) cost. This difference is the material burden cost.

When you receive a purchase order, the system updates the accounts payable account using the price on the purchase order. The system updates the inventory account with the standard item cost from the Cost Ledger table (F4105). Any difference between the two costs is made up of PPV and material burden. PPV is the difference between the frozen A1 cost and the purchase order cost. Material burden cost is the difference between the total standard cost from the Cost Ledger table and the A1 cost, as follows:

$$\text{PPV} = \text{A1 cost} - \text{purchase order unit cost}$$

$$\text{Material burden cost} = \text{total standard cost} - \text{A1 cost}$$

C.1 Example: Purchase Price Variance and Material Burden

Cost Ledger Table (F4105)

Average cost = \$14

Standard cost = \$16

Cost Components Table (F30026)

A1 cost = \$13

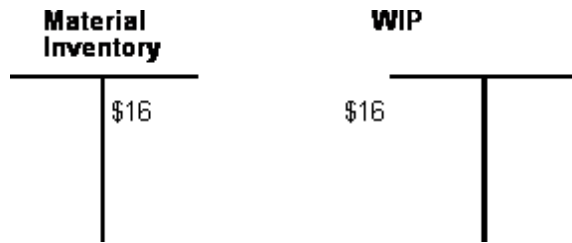
X1 cost = \$3

Figure C-1 Purchase Price Variance and Material Burden

Material Inventory	Material Received (AP)	Material Burden	PPV
\$16	\$12	\$3	\$1
total standard cost	Purchase Order cost		

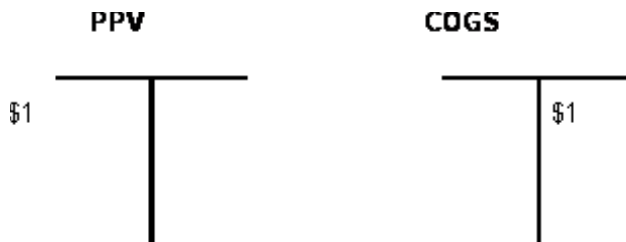
Material issued to the work order relieves the inventory account and posts to the WIP account with the fully loaded standard cost for the item.

Figure C-2 *Material Inventory Posted to the WIP Account*



At period end, a manual journal entry closes the PPV to the Cost of Goods Sold account.

Figure C-3 *Closed PPV to the Cost of Goods Sold Account*



There is an additional AAI table (4337) to handle posting of the material overhead.

If you have multiple cost extras and you want to post to different accounts for each of them, you must use landed cost.

See Also:

- Setting Up Landed Costs in the *JD Edwards World Procurement Guide*.

Functional Servers

This appendix contains the topic:

- [Section D.1, "About Functional Servers."](#)

D.1 About Functional Servers

Several JD Edwards World programs access functional servers. The purpose of functional servers is to provide a central location for standard business rules about entering documents, such as vouchers, invoices, and journal entries. These business rules establish the following:

- Data dictionary default values
- Field edits and valid values
- Error processing
- Relationships between fields or applications

The advantages of a functional server are:

- It reduces maintenance of entry programs because edit rules reside in one central location.
- You can standardize documents across all applications because you create them using the same business rules.
- Generally, the user interface (appearance and interaction) of a form is now separate from how a program works.

To set up business rules for an entry program

The steps for setting up business rules for an entry program are:

1. Create a DREAM Writer version for a specific functional server program (for example, XT0411Z1 for voucher entry).
2. Set the processing options within the version according to your company requirements.
3. Specify the version you want the entry program to use in the processing options for that entry program.

You can have all your entry programs use the same DREAM Writer version (and thus, use the same rules) or you can set up different DREAM Writer versions. JD Edwards World provides DREAM Writer version ZJDE0001 as the default functional server version for your entry programs.

Caution: Only the person responsible for system-wide setup should make changes to the functional server version. For more information about how to set up DREAM Writer versions, see the *JD Edwards World Technical Foundation Guide*.

D.1.1 Example: Voucher Processing Functional Server

The following programs use the voucher processing functional server. JD Edwards World provides two demo versions of the functional server, ZJDE0001 and ZJDE0002.

- Speed Voucher Entry (P040015)
- Standard Voucher Entry (P04105)
- Void Payment Entry (P4704103)
- Credit Tied to Debit Bill (P041010)
- Multi-Voucher (P041017)
- Calculate Withholding (P04580)

Files and Fields Updated

This appendix contains the topic:

- [Section E.1, "Files and Fields Updated."](#)

E.1 Files and Fields Updated

The following chart generally shows the files and fields that are updated by various product costing and manufacturing accounting programs:

Figure E-1 Files and Fields Updated by Product Costing and Manufacturing Accounting Programs

Manufacturing Program Executed	Work Order Header F4001	Parts List F3111	Routing Hours F31122	Routing File F3112	Variances F3102	General Ledger F0911	Account Balances F0902	Item Ledger F4111
Process Work Orders F31410	Quantity on Order Updated	Required Quantity Updated		Required Hours Updated	Standard & Current Units and Amounts			
Material Issues F31113		Quantity Issued (WMTRQT) & Unaccounted Units Updated (WMCTSI)						IM Transaction Written (no batch # or O/L Date)
Hours and Quantities F311221			Hours Reported Updated					
Hours and Quantities Update F31422*			Processed Flag Updated (WTYST)	Unaccounted Units Updated (WLCTSI - WLCTSE)				
Work Order Completions F31114	Quantity Completed (WASOQS) & Unaccounted Units Updated (WACTSI)							IC Transaction Written (no batch # or O/L Date)
Manufacturing Accounting F31302	Unaccounted Units Reset to Blank	Unaccounted Units Reset to Blank		Unaccounted Units Reset to Blank	Planned, Actual, Completed, and Scrapped Units and Amounts	Journal Entries Created for IM, IC & IH Transactions		IM & IC Batch # and O/L date Updated
Variance Accounting F31304	Variance Flag Updated (WAFPPG)					Journal Entries Created for IV Transactions		
Journal Entry Post F09800							Account Balances Updated	

Troubleshooting Techniques for Product Costing

This appendix contains these topics:

- Section F.1, "Run the Integrity Analysis Program (P30601),"
- Section F.2, "Verify the Processing Options for P30820,"
- Section F.3, "Review A1 Cost Setup,"
- Section F.4, "Review Batch Quantity Setup,"
- Section F.5, "Adjust Primary Unit of Measure,"
- Section F.6, "Adjust the B1 or B2 Costs,"
- Section F.7, "Adjust the B3 through C4 Costs,"
- Section F.8, "Adjust the D1, D2, D3 Costs."

F.1 Run the Integrity Analysis Program (P30601)

Anytime there is a problem with the cost roll up, the Integrity Analysis program (P30601) is a good program to run. This will:

- Verify that all items in the F3002 have a corresponding F4101 and F4102 record.
- Look for any and all recursive bills of material (any BOM that is an item going into itself).
- Reset the Low level Codes, if all the F3002 items have a corresponding F4101 and F4102 record, and there are no recursive bills of material.

Note: This program has no processing options or data selection. It is launched when selected from the menu. You cannot access the Item Master, Item Branch or Bills of Material files while this program is running.

F.2 Verify the Processing Options for P30820

Go through all of the processing options for P30820, and verify that they have been input correctly.

F.3 Review A1 Cost Setup

If an A1 cost is not being generated check for the following:

- A "Purchased" item has something other than a "P" in the second description of UDC Table 41/I
- The A1 cost type was deleted from the 30/CA UDC Table
- The Cost of the product is less than .0001
- No Bill of Material (BOM) exists
- The Feature Cost % is either "0" or blank
- It is a Non-Stock Product
- Valid Effectivity Dates

F.4 Review Batch Quantity Setup

If you are not using a "0" BOM (default) and the Batch Quantity does not match the Accounting Cost Quantity, review the batch quantity setup. See [Chapter 11, "Understand Batch Product Costing."](#)

F.5 Adjust Primary Unit of Measure

Your Primary Unit of Measure may not be the smallest. See *Entering Item Unit of Measure Information* in the *JD Edwards World Inventory Management Guide* for more information.

F.6 Adjust the B1 or B2 Costs

If there are no B1 or B2 costs being generated, check the following:

- There are no work center rates.
- The effectivity dates are correct.
- You are rolling a routing other than a "M" type routing.
- The Time Basis Codes in the fold of the Routing are correct.
- B1 was not taken out of the UDC Table 30/CA.
- The value of the B1 is not less than .0001.
- You are not using "0" routings (default) and that the Batch Quantity does not match the Accounting Cost Quantity
- The Crew Size in the fold of the routing is not blank.
- The Accounting Cost Quantity is either "0" or Blank.

F.7 Adjust the B3 through C4 Costs

If there are no B3 thru C4 costs being generated, check the Manufacturing Constants and verify that the client has asked the system to calculate these costs.

F.8 Adjust the D1, D2, D3 Costs

If there are no D1 or D2, D3 etc. costs being generated, check the following:

- The Routing Type is correct
- A D1, D2 etc.; is in the Cost type field in the fold of the Routing

Routing Cost Type Calculations

This appendix contains these topics:

- Section G.1, "B1 Direct Labor,"
- Section G.2, "B2 Setup Labor,"
- Section G.3, "B3 Machine Run,"
- Section G.4, "B4 Labor Efficiency Cost,"
- Section G.5, "C1 Machine (Mach) Variable (Var) Overhead (O/H) Cost,"
- Section G.6, "C2 Machine Fixed Overhead Cost,"
- Section G.7, "C3 Labor Variable Overhead,"
- Section G.8, "C4 Labor Fixed Overhead."

These are the detail calculations for each cost type (B1 - C4). This appendix also gives examples on the calculations.

G.1 B1 Direct Labor

Direct Labor Hours / Time Basis * Crew Size * Direct Labor Rate = *Direct Labor Cost*

G.1.1 Example:

1.00 Direct Labor Hours / 1 Time Basis * 1.0 Crew Size * 5.25 Direct Labor Rate = 5.25
Direct Labor Cost

G.2 B2 Setup Labor

Setup Labor Hours / Accounting Cost Quantity * Setup labor Rate = *Setup Labor Cost*

G.2.1 Example:

1.00 Setup Labor Hours / 100 Accounting Cost Quantity * 4.25 Setup Labor Rate =
.0425 *Setup Labor Cost*

G.3 B3 Machine Run

Machine Run Hours / Time Basis * Machine Run Rate = *Machine Run Cost*

G.3.1 Example:

$1.00 \text{ Machine Run Hours} / 1 \text{ Time Basis} * 3.25 \text{ Machine Run Rate} = 3.25 \text{ Machine Run Cost}$

G.4 B4 Labor Efficiency Cost

$\text{Direct Labor Hours} / \text{Time Basis} * \text{Crew Size} = \text{Factored Labors Hours}$

$\text{Work Center Efficiency} / 100 \text{ Percentage Conversion} * \text{Factored labors Hours} = \text{Factored Efficiency}$

$\text{Factored Labors Hours} - \text{Factored Efficiency} * \text{Direct Labor Rate} = \text{Labor Efficiency Cost}$

G.4.1 Example:

$1,000 \text{ Direct Labor Hours} / 1 \text{ Time Basis} * 1.0 \text{ Crew Size} = 1.0000 \text{ Factored Labor Hours}$

$50.00 \text{ Work Center Efficiency} / 100 \text{ Percentage Conversion} * 1,0000 \text{ Factored Labor Hrs} = .5000 \text{ Factored Efficiency}$

$1.0 \text{ factored Labors Hours} - 5000 \text{ Factored Efficiency} * 5.25 \text{ Direct Labor Rate} = 2.6250 \text{ Labor Efficiency Cost}$

G.5 C1 Machine (Mach) Variable (Var) Overhead (O/H) Cost

$\text{Var. Mach. O/H Percent} / 100 \text{ Percentage Conversion} * \text{Machine Run Rate} = \text{Var. Mach. O/H Rate}$

$\text{Machine Run Hours} / \text{Time Basis} = \text{Var. Mach. O/H Run Hours}$

$\text{Var. Mach. O/H Run Hours} * \text{Var. Mach. O/H Rate} = \text{Var. Mach. O/H Cost}$

G.5.1 Example:

$125.00 \text{ Var. Mach. O/H Percent} / 100 \text{ Percentage Conversion} * 3.25 \text{ Machine Run Rate} = 4.06 \text{ Var. Machine O/H Rate}$

$1.00 \text{ Machine Run Hours} / 1 \text{ Time Basis} = 1.0000 \text{ Var. Machine O/H Run Hours}$

$1.00 \text{ Var. Mach. O/H Run Hours} * 4.06 \text{ Var. Machine O/H Rate} = 4.0625 \text{ Var. Mach O/H Cost}$

G.6 C2 Machine Fixed Overhead Cost

$\text{Fixed Mach O/H Percent} / 100 \text{ Percentage Conversion} * \text{Machine Run Rate} = \text{Fixed Mach O/H Rate}$

$\text{Machine Run Hours} / \text{Time Basis} = \text{Fix Mach. O/H Run Hours}$

$\text{Fix Mach. O/H Run Hours} * \text{Fixed Mach O/H Rate} = \text{Fixed Mach. O/H Cost}$

G.6.1 Example:

$105.00 \text{ Fixed Mach. O/H Percent} / 100 \text{ Percentage Conversion} * 3.25 \text{ Machine Run Rate} = 3.41 \text{ Fixed Machine O/H Rate}$

$1.00 \text{ Machine Run Hours} / 1 \text{ Time Basis} = 1.0000 \text{ fixed Machine O/H Run Hours}$

$1.0000 \text{ Fixed Mach. O/H Run Hours} * 3.41 \text{ Fixed Mach O/H Rate} = 3.4125 \text{ Fixed Machine O/H Cost}$

G.7 C3 Labor Variable Overhead

$\text{Var. Labor O/H Percent} / 100 \text{ Percentage Conversion} * \text{Direct Labor Rate} = \text{Var. Labor O/H Rate}$

$\text{Direct Labor Hours} / \text{Time Basis} * \text{Crew Size} = \text{Factored Labor Hours}$

$\text{Work Center (WC) Efficiency} / 100 \text{ Percentage Conversion} * \text{Factored Labor Hours} = \text{Factored Efficiency}$

$\text{Factored Labor Hours} - \text{Factored Efficiency} = \text{WC Efficiency Hours}$

$\text{Factored Labor Hours} + \text{WC Efficiency Hours} * \text{Var. Labor O/H Rate} = \text{Direct Labor O/H Cost}$

$\text{Var. Labor O/H Percent} / 100 \text{ Percentage Conversion} * \text{Setup Labor Rate} = \text{Var. Labor O/H Rate}$

$\text{Setup Labor Hours} * \text{Var. Labor O/H Rate} / \text{Accounting Cost Quantity} = \text{Setup Labor O/H Cost}$

$\text{Direct Labor O/H Cost} + \text{Setup labor O/H Cost} = \text{Var. labor O/H Cost}$

G.7.1 Example:

$60.00 \text{ Var. Labor O/H Percent} / 100 \text{ Percentage Conversion} * 5.25 \text{ Direct Labor Rate} = 3.15 \text{ Var. Labor O/H Rate}$

$1.00 \text{ Direct Labor Hours} / 1 \text{ Time Basis} * 1.0 \text{ Crew Size} = 1.0000 \text{ Factored Labor Hours}$

$50.00 \text{ Work Center Efficiency} / 100 \text{ Percentage Conversion} * 1.0000 \text{ Factored Labor Hrs} = .5000 \text{ Factored Efficiency}$

$1.0000 \text{ Factored Labor Hours} - .5000 \text{ Factored Efficiency} = .5000 \text{ WC Efficiency Hrs.}$

$1.0000 \text{ Factored Labor Hours} + .5000 \text{ WC Efficiency Hrs} * 3.15 \text{ Var. Labor O/H Rate} = 4.7250 \text{ Direct Labor O/H Cost}$

$60.00 \text{ Var. Labor O/H Percent} / 100 \text{ Percentage Conversion} * 4.25 \text{ Setup Labor Rate} = 2.55 \text{ Var. Labor O/H Rate}$

$\text{Setup Labor Hours} * 2.55 \text{ Var. Labor O/H Rate} / 100 \text{ Accounting Cost Quantity} = .0255 \text{ Setup labor O/H Cost}$

$4.7250 \text{ Direct Labor O/H Cost} + .0255 \text{ Setup labor O/H Cost} = 4.7505 \text{ Var. Labor O/H Cost}$

G.8 C4 Labor Fixed Overhead

$\text{Fixed labor O/H Percent} / 100 \text{ Percentage Conversion} * \text{Direct Labor Rate} = \text{Fixed Labor O/H Rate}$

$\text{Direct Labor Hours} / \text{Time Basis} * \text{Crew Size} = \text{Factored Labor Hours}$

$\text{Work Center Efficiency} / 100 \text{ Percentage Conversion} * \text{Factored labor Hours} = \text{Factored Efficiency}$

$\text{Factored labor Hours} - \text{Factored Efficiency} = \text{WC Efficiency Hours}$

$\text{Factored labor Hours} + \text{WC Efficiency Hours} * \text{Fixed Labor O/H Rate} = \text{Direct Labor O/H Cost}$

$\text{Fixed Labor O/H Percent} / 100 \text{ Percentage Conversion} * \text{Setup labor Rate} = \text{Fixed Labor O/H Rate}$

Setup labor Hours * Fixed labor O/H Rate / Accounting Cost Quantity = *Setup Labor O/H Cost*

Direct Labor O/H Cost + Setup labor O/H Cost = *Fixed labor O/H Cost*

G.8.1 Example:

50.00 Fixed Labor O/H Percent / 100 Percentage Conversion * 5.25 Direct Labor Rate =
2.63 *Fixed labor O/H Rate*

1.00 Direct labor Hours / 1 Time Basics * 1.0 Crew Size = 1.00 *Factored labor Hours*

50.00 Work Center Efficiency / 100 Percentage Conversion * 1.0000 Factored Labors
Hrs = .5000 *Factored Efficiency*

1.0000 Factored Labors Hours - .5000 Factored Efficiency = .5000 *WC Efficiency Hrs.*

1.0000 Factored Labors Hours + .5000 WC Efficiency Hours * 2.63 Fixed Labor O/H
Rate = 3.9375 *Direct Labor O/H Cost*

50.00 Fixed Labor O/H Percent / 100 Percentage Conversion * 4.25 Setup Labor Rate =
2.13 *Fixed Labor O/H Rate*

1.00 Setup Labor Hours * 2.13 Fixed Labor O/H Rate / 100 Accounting Cost Quantity
= .0213 *Setup labor O/H Cost*

3.9375 Direct labor O/H Cost + .0213 Setup labor O/H Cost = 3.9588 *Fixed labor O/H
Cost*

Import Mass Data into Manufacturing Systems

Two interactive Manufacturing programs can run in batch mode and accept data from a Z file, allowing you to process mass amounts of data from an outside source easily and efficiently using existing programs to validate the data.

You can process any number of records to add, change, or delete. You also have the advantage of:

- Data selection to limit the records you want to process.
- Processing options that allow you to choose the version of the interactive program to process the records.
- Error report printing.

Generally, the DREAM Writer program number corresponds to the screen and program number with a Z appended to the end. For example, P48013Z corresponds to the Manufacturing Work Order Entry program P48013.

See:

- [Import Using Z File Processing in the *JD Edwards World Technical Tools Guide*](#) for detailed information about Z file processing.
- [Overview to Import/Export in the *JD Edwards World Technical Tools Guide*](#) for information about importing data into the system.

The following table includes the Manufacturing Z file processing programs.

Program	Program Name	Z File	
		Program	Z File
P30061	Work Center Rate Revisions	P30061Z	F30008Z
P48013	Manufacturing Work Order Entry	P48013Z	F48013Z

Navigation

From Manufacturing Z File Processes (G3001Z), choose Work Center Rates or Work Order Header

Processing Options

See [Section 24.2, "Work Center Rate Revisions - Z File \(P30061Z\)"](#) or [Section 25.14, "Manufacturing Work Order Entry - Z File \(P48013Z\)"](#).

Data Selection

Do not change the existing data selection. The Processed Y/N field is set to NE Y. This prevents the program from processing records more than once.

You can add additional selections to limit the data.

Data Sequence

Do not change the data sequence.

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