Data Models

Release A7.3
The information in this guide is confidential and a proprietary trade secret of J.D. Edwards & Company. It may not be copied, distributed, or disclosed without prior written permission. This guide is subject to change without notice and does not represent a commitment on the part of J.D. Edwards & Company. The software described in this guide is furnished under a license agreement and may be used or copied only in accordance with the terms of the agreement. J.D. Edwards & Company uses an automatic software disabling routine to monitor the license agreement. For more details about this routine, please refer to the Technical Foundation Guide.
# Table of Contents

## Technical Foundations

- Software Version Repository ............................................... 1
- Data Dictionary .................................................................... 2

## Financials

- General Accounting ............................................................... 3
- Address Book ...................................................................... 4
- Electronic Mail .................................................................... 5
- Accounts Payable ............................................................... 6
- Accounts Receivable ............................................................. 7
- Fixed Assets ........................................................................ 8

## Manufacturing

- Product Data Management ..................................................... 9
- Forecasting .......................................................................... 10
- Shop Floor Control ............................................................... 11
- Configuration Management ................................................... 12
- Capacity Management ......................................................... 13
- Manufacturing and Distribution Planning – Demand Side ........ 14
- Manufacturing and Distribution Planning – Supply Side .......... 15

## Distribution

- Purchase Management .......................................................... 16
- Sales Order Management ....................................................... 17
- Inventory Management ........................................................ 18
- Warehouse Management ....................................................... 19

## Architecture, Engineering & Construction

- Job Cost ............................................................................... 20
- Work Orders ......................................................................... 21
- Contract Billing Setup ............................................................ 22
- Contract Billing Workfile Generation ...................................... 23
- Contract Billing Invoice Format Definition ............................ 24
- Contract Billing Revenue Recognition ..................................... 25
Data Models

Contract Billing Base ........................................ 26
Service Billing Base ........................................ 27
Service Billing Workfile Generation .................. 28
Service Billing Revenue Recognition ................. 29
Service Billing Invoice Format Definition ........... 30
Contract Management ....................................... 31
Change Management ........................................ 32
Equipment Billing .......................................... 33
Plant and Equipment Maintenance ..................... 34
Plant and Equipment Maintenance (continued) ...... 35
Property Management Base ............................... 36
Expense Participation and Escalation ................. 37
Sales Overage and Sales Analysis ..................... 38

Human Resource Management

Pay Cycle Processing ....................................... 39
Payroll History ........................................... 40
Payroll Journal Entries ................................... 41
Canadian Pay Cycle Processing ....................... 42
Canadian Payroll History ................................ 43
Canadian Journal Entries ................................ 44
Overview .................................................. 45
Benefits Administration .................................. 46
Employee History and Turnover ....................... 47
Job Specifications ......................................... 48
Applicants, Requisitions, and Positions ............. 49
Supplemental Data ........................................ 50
Pay Grade Step ............................................ 51
Technical Foundations
Financials
Electronic Mail
Manufacturing
Product Data Management

[Diagram of data models and relationships]

Release A7.3 (June 1996)

Data Models
Shop Floor Control

Data Models

- **Item Master (F4101)**
  - Item Number
  - Description
  - Units of Measure
  - Category Codes

- **Cost Center (F0006)**
  - Address Number
  - Company
  - Tax Area
  - Category Codes
  - G/L Bank Acct.
  - Labor Distrib.
  - Subledger Inactive

- **Item Location (F4102)**
  - Branch/Plant
  - Location
  - Lot Quantities
  - Cost/Price
  - Category Codes

- **Work Order Routing (F3112)**
  - Work Center ID
  - Hours
  - Start Date
  - Completion Date
  - Operation No.

- **Work Order Hours/Qty's (F31122)**
  - Actual Hours
  - Actual Quantities
  - Operation

- **Work Order Parts List (F3111)**
  - Item
  - Quantity
  - Location
  - Requested Date

- **Work Order Variance (F3102)**
  - Cost Type
  - Quantities
  - Hours
  - Amounts

- **Work Order Header (F4801)**
  - Item/Branch Quantity
  - Start Date
  - Requested Date

- **Journal Entries (F0911)**
  - Document Type
  - Document No.
  - G/L Date
  - JE Line Number
  - Posted Code
  - Batch Type
  - Account Number
  - Subledger
  - Subledger Type
  - Ledger Type
  - Currency Code
  - Currency Exchange Rate
  - Amount
  - Units
  - Explanation

Table Relationships

- 1 = 1 record
- M = many records
Manufacturing and Distribution Planning - Demand Side

Table Relationships
1 = 1 record
M = many records
Manufacturing and Distribution Planning - Supply Side

Cost Center Master F0006
- Address Number
- Company
- Tax Area
- Category Codes
- G/L Bank Acct.
- Labor Distrib.
- Subledger Inactive

Item Master F4104
- Item Number
- Description
- Units of Measure
- Category Codes

Forecast Detail F3460
- Item
- Forecast Type
- Date
- Quantity
- Amount

Message Detail F3411
- Item
- Message
- Quantity Dates

Pegging Detail F3412
- Parent Item
- Work Order No.
- Date
- Quantity

Time Series F3413
- Item Number
- Date
- Quantity

Forecast Consumption Periods F3405
- Period
- Date

Purchase Order Detail F4311
- Order ID
- Item ID
- Quantity
- Unit Cost
- Discount
- Required Date
- Promised Date

Work Order Master F4801
- Work Order NO.
- Address Number
- Job Phase
- Scheduled Date

Table Relationships
1 = 1 record
M = many records

Data Models
Distribution
Architecture, Engineering & Construction
Contract Billing Setup

Table Relationships
1 = 1 record
M = many records
Contract Billing Workfile Generation

Table Relationships
1 = 1 record
M = many record
Contract Billing Invoice Format Definition

Data Models
Contract Billing Revenue Recognition

Data Models

Table Relationships
1  = 1 table
M = many table
### Table Relationships

1 = 1 record

M = many records

### Data Models

**Service Billing Base**

- **Cost Plus Markup Information F48096**
  - Key Type
  - Key Value
  - Amounts
  - Dates

- **Service Billing Workfile F4812**
  - Contract Number
  - Dates
  - Amounts
  - Customer
  - Employee Number
  - Hours

- **G/L Offset and Retainage Information F48128**
  - Key Type
  - Key Value
  - Payment Terms
  - G/L Offset
  - Return Percent
  - Return Offset

- **G/L Linkage F48912**
  - Billing Control ID
  - Accounts
  - Dates
  - Journal Line Number
  - Sequence Numbers
  - Component Code

- **Detail Journal Workfile F48910**
  - Accounts
  - Amounts
  - Billing Control ID
  - Sequence Numbers

- **Compressed Journal Workfile F48911**
  - Document Type
  - Document Number
  - Dates
  - Amounts

- **Invoice Summary Workfile F4822**
  - Contract Number
  - Line Number
  - Batch Number
  - Invoice Number
  - Pay Item
  - Amounts
  - G/L Offset

- **Invoice Summary Access F48520**
  - Contract Number
  - Owner Pay Item
  - Employee Number
  - G/L Date
  - Business Unit Objects
  - Subsidiary
  - Component Code

- **Invoice Number**
  - Amounts
  - G/L Offset

- **Journal Entries F0911**
  - Document Type
  - Document Number
  - Accounts
  - Amounts
  - Date

- **A/R Account Leger F0311**
  - Contract Number
  - Line Number
  - Batch Number
  - Invoice Number
  - Pay Item
  - Amounts
  - G/L Offset

- **Service Billing Retention Release Cross Reference F48221**
  - Batch Number
  - Customer Number
  - Invoice Number

**Table Relationships**

1 = 1 record

M = many records

**Diagram**

- **Service Billing Workfile F4812**
  - Contract Number
  - Dates
  - Amounts
  - Customer
  - Employee Number
  - Hours

- **Invoice Summary Workfile F4822**
  - Contract Number
  - Line Number
  - Batch Number
  - Invoice Number
  - Pay Item
  - Amounts
  - G/L Offset

- **Invoice Summary Access F48520**
  - Contract Number
  - Owner Pay Item
  - Employee Number
  - G/L Date
  - Business Unit Objects
  - Subsidiary
  - Component Code

**Diagram Notes**

- **Table Relationships**
  - 1 = 1 record
  - M = many records

**Data Models**

- **Service Billing Base**
  - Cost Plus Markup Information F48096
    - Key Type
    - Key Value
    - Amounts
    - Dates

- **Service Billing Workfile F4812**
  - Contract Number
  - Dates
  - Amounts
  - Customer
  - Employee Number
  - Hours

- **G/L Offset and Retainage Information F48128**
  - Key Type
  - Key Value
  - Payment Terms
  - G/L Offset
  - Return Percent
  - Return Offset

- **G/L Linkage F48912**
  - Billing Control ID
  - Accounts
  - Dates
  - Journal Line Number
  - Sequence Numbers
  - Component Code

- **Detail Journal Workfile F48910**
  - Accounts
  - Amounts
  - Billing Control ID
  - Sequence Numbers

- **Compressed Journal Workfile F48911**
  - Document Type
  - Document Number
  - Dates
  - Amounts

- **Invoice Summary Workfile F4822**
  - Contract Number
  - Line Number
  - Batch Number
  - Invoice Number
  - Pay Item
  - Amounts
  - G/L Offset

- **Invoice Summary Access F48520**
  - Contract Number
  - Owner Pay Item
  - Employee Number
  - G/L Date
  - Business Unit Objects
  - Subsidiary
  - Component Code

**Diagram Elements**

- **Service Billing Workfile F4812**
  - Contract Number
  - Dates
  - Amounts
  - Customer
  - Employee Number
  - Hours

- **Invoice Summary Workfile F4822**
  - Contract Number
  - Line Number
  - Batch Number
  - Invoice Number
  - Pay Item
  - Amounts
  - G/L Offset

- **Invoice Summary Access F48520**
  - Contract Number
  - Owner Pay Item
  - Employee Number
  - G/L Date
  - Business Unit Objects
  - Subsidiary
  - Component Code
Service Billing Workfile Generation

Table Relationships
1 = 1 record
M = many records

Data Models
Service Billing Revenue Recognition

Diagram showing relationships between Service Billing Workfile F4812, Account Derivation Information F48126, Detail Journal Workfile F48910, Compressed Journal Workfile F48911, and Account Ledger F0911.
Service Billing Invoice Format Definition

Table Relationships
1 = 1 record
M = many records
Plant and Equipment Maintenance

Data Models

Work Order Status Action Table F4826
- Order Type
- Type
- Status
- Next Status
- Allowed Status
- Maintenance Status
- Status Inventory
- Commitment
- Subledger Inactive
- Capacity Flag

Work Order Approval Routing F4828
- Order Type
- Type
- Approval Type
- Status
- Sequence Number
- Amount
- Address Number
- Retest Status

Standard Parts Lists F3002
- Type
- Parent Part Number
- Branch
- Component Item
- Component Backup

Parts List F3111
- Work Order Number
- Component Item
- Branch Description
- Quantity

Status History F1307
- Item Number
- Work Order No.
- Status
- Effective Date
- Effective Time

Item Master F1201
- Company
- Item Number
- Parent Number
- Description
- Equip. Status
- Accounts
- Quantity
- Location

Work Order Master F4801
- Work Order No.
- Priority
- Type
- Description
- Charge to Cost Center
- Repair Code Branch
- Address No.'s Dates
- Reference Item Number

Work Center Rates F30008
- Business Unit
- Frozen Standard Labor or Rate

Labor Instructions F3112
- Work Order Number
- Branch Description
- Operation Sequence
- Work Center
- Labor Rate Hours

Work Order Supplemental Data Types F48090
- Data Type
- User Defined Codes
- User Defined Titles

Work Order Supplemental Data Types F48092
- Work Order No.
- Data Type
- User Defined Amount
- User Defined Date
- User Defined Code

Associated Service Types F13907
- Item Number
- Message No.
- Service Type
- Threshold Separate WO (Y/N)

Maintenance Schedules F1207
- Item Number
- Service Type
- Maint. Status
- Service Intervals
- Model WO No.
- Maint. Percent Complete

PM Projections F13411
- Item Number
- Service Type
- Forecast Type
- Schedule Date
- Estimated Hours
- Estimated Labor
- Estimated Material

See Additional Tables on Next Page.
See Additional Tables on Next Page.
Property Management Base

Table Relationships
1 = 1 record
M = many record

Cost Center Master
F0006

Floor Master
F1506

Unit Master
F1507

Lease Master
F1501

Log Lines
F1503

Recurring Billing
F1502

Tenant Billings
F1511

Accounts Receivable
Detail F0311

Accounts Payable
Detail F0411

Building (Cost Center)
Company Project

Building Floor

Building Floor

Lease Number
Tenant
Effective Dates
Building
Unit
Square Footage

Log Class
Amenity ID
Quantity
Dates
Text

Lease
Amount
Frequency
Date

Invoice Number
Lease
Amount
Bill Code

Invoice Number
Amount
G/L Offset

Voucher Number
Amount
G/L Offset
## Expense Participation and Escalation

### Data Models

#### Release A7.3 (June 1996)

The diagram illustrates the relationships between various data models, including:

- **Expense Participation**
- **Escalation**
- **Calculation Details**
- **Tenant Billings**
- **Accounts Receivable**

### Table Relationships

<table>
<thead>
<tr>
<th>Table Relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  = 1 record</td>
</tr>
<tr>
<td>M  = many records</td>
</tr>
</tbody>
</table>

### Class Master F1530

- Account Range
- Effective Dates

### Expense Participation F1501

- Class
- Participation Rate
- Dates

### Escalation Index Master F1550

- Index Code
- Year
- Month
- Index Value

### Calculation Details F1548

- Lease Master F1501
- Lease Amounts
- Dates

### Tenant Billings F1511

- Invoice Number
- Lease Amount
- Bill Code

### Accounts Receivable F0311

- Invoice Number
- Lease Amount
- GL Offset

### Table Relationships

- **Table Relationships**
- **1 = 1 record**
- **M = many records**
Sales Overage and Sales Analysis

Release A7.3 (June 1996)

Table Relationships
1 = 1 record
M = many records

Data Models
Human Resource Management
Pay Cycle Processing

**Address Book**
- Address Number
- Name
- Phone Number
- Address

**Employee Master**
- Employee Number
- Social Security No.
- Home Company
- Home Business Unit
- Marital Status
- Tax Area
- Job Type
- Union
- Salary

**Pay/Ded/Ben Instructions**
- Pay/Deduction/Benefit No.
- Amount/Rate
- Calculation Parameters

**Union Instructions**
- Union
- Job Type
- Job Step
- Business Unit
- Deduction/Benefit Account Number
- Ending Effective Date
- Amount/Rate

**Employee Pay Instructions**
- Employee Number
- DBA Number
- Beg and Ending Effective Date
- Rate/Amount
- Override Code

**Time Cards**
- Employee Number
- Pay Type
- Hours
- Rate
- Gross Pay
- Work Date
- G/L Account
- Union

**Payroll Check Work File**
- Employee Number
- Check Control No.
- Check Date
- Gross Amount
- Net Amount
- Tax Amounts
- Tax Codes

**DBA Detail Transaction**
- Employee Number
- Deduction/Benefit Number
- Work Date
- Amount

**Vertex Tax Work File**
- Employee Number
- Check Control No.
- Check Date
- Gross Amount
- Net Amount
- Tax Amounts
- Tax Codes

Table Relationships
- 1 = 1 record
- M = many records
Payroll Journal Entries

Table Relationships
1 = 1 record
M = many records

Database Details
Transaction F0609

Employee Master F060116
Employee Number
Social Security No.
Home Company
Home Business Unit
Marital Status
Tax Area
Job Type
Union
Salary

Time Cards F06116
Employee Number
Pay Type
Hours
Rate
Gross Pay
Work Date
G/L Account
Union

Vertex Tax Work File F06126
Employee Number
Check Control No.
Check Date
Gross Amount
Net Amount
Tax Amounts
Tax Codes

Burden Distribution F0624
Burden Type
Tax Type
Fringe Type
Burden Rate
Burden Amount
Account
Hours

Raw (Detail) Journal Entries F06290
Employee Number
Pay/Deduction/Benefit Code
Deduction Type
Account
Gross Amount
Hours
G/L Period
G/L Date

Payroll Journal Entries F06395
Document Number
Explaination
G/L Date
G/L Period
Amount
Employee Number
Account Number

Journal Entries F0911
Document Type
Document Number
G/L Date
Entry Line Number
Amount
Posted Code
Account Number
Amount
Units

G/L Account Balances F09002
Account Number
Fiscal Year
Ledger Type
Period Balances
Budget Amounts
By Period

Data Models
41
Release A7.3 (June 1996)
Canadian Pay Cycle Processing

Table Relationships
1 = 1 record
M = many records

Data Models
Canadian Payroll History

Table Relationships
1 = 1 record
M = many records
Canadian Journal Entries

Table Relationships
1 = 1 record
M = many records
Overview

Table Relationships
1 = 1 record
M = many records

Address Book
- Address Number
- Name
- Phone Number
- Address
- Category Codes

Employee Master
- Employee No.
- Social Security No.
- Pay Frequency
- Job Type/Step
- Date of Birth

Employee Multiple Job
- Employee Number
- Social Security Number
- Salary
- Pay Frequency
- Job Type/Step
- Date of Birth

Benefits Administration
- Employee No.
- Plan ID
- Option
- Effective Dates
- Enrollment Status
- Eligibility Date

Employee History
- Employee No.
- Data Item
- Historical Value
- Effective Date
- Change Reason

Salary & Wage Administration
- Review Group
- Description
- Employee No.
- Appraisal No.
- Annual Salary
- Date Next Review

Health and Safety
- Case Number
- OSHA (Y/N)
- Employee No.
- Injury/Illness Rel.
- Establishment

Applicant Master
- Applicant No.
- Applicant Status
- Business Unit
- Position ID
- Job Type/Step
- Asking Salary
- Application Date

Employee Master
- Employee No.

Employee Turnover
- Employee No.
- Data Item
- Turnover Data
- Effective Date
- Change Reason

Position Control
- Fiscal Year
- Business Unit
- Position ID
- Full Time
- Equivalent
- Job Type/Step

Position Activity
- Business Unit
- Position ID
- Employee No.
- Effective Date
- Emp. Action

Data Models

Table Relationships
1 = 1 record
M = many records

Address Book
- Address Number
- Name
- Phone Number
- Address
- Category Codes

Employee Master
- Employee No.
- Social Security No.
- Pay Frequency
- Job Type/Step
- Date of Birth

Employee Multiple Job
- Employee Number
- Social Security Number
- Salary
- Pay Frequency
- Job Type/Step
- Date of Birth

Benefits Administration
- Employee No.
- Plan ID
- Option
- Effective Dates
- Enrollment Status
- Eligibility Date

Employee History
- Employee No.
- Data Item
- Historical Value
- Effective Date
- Change Reason

Salary & Wage Administration
- Review Group
- Description
- Employee No.
- Appraisal No.
- Annual Salary
- Date Next Review

Health and Safety
- Case Number
- OSHA (Y/N)
- Employee No.
- Injury/Illness Rel.
- Establishment

Applicant Master
- Applicant No.
- Applicant Status
- Business Unit
- Position ID
- Job Type/Step
- Asking Salary
- Application Date

Employee Master
- Employee No.

Employee Turnover
- Employee No.
- Data Item
- Turnover Data
- Effective Date
- Change Reason

Position Control
- Fiscal Year
- Business Unit
- Position ID
- Full Time
- Equivalent
- Job Type/Step

Position Activity
- Business Unit
- Position ID
- Employee No.
- Effective Date
- Emp. Action

Data Models
Employee History and Turnover

HR Constants F08040
Library for Empl. Master File
HR Subsystem Name
Track Employee History
Track Turnover
Pos. Control Edit

Select Data For Tracking F08041
Field ID
Data Item
Include in History (Y/N)

Employee Master F060116
Employee Number
Social Security No.
Salary
Pay Frequency
Job Type/Step
Date of Birth

Employee History F08042
Employee Number
Data Item
Historical Value
Effective Date
Change Reason

Define Turnover Col. F08046
Turnover Column Number
Change Reason
Column Heading

Employee Multi Job F060118
Employee Number
Social Security Number
Salary
Pay Frequency
Job Type

Employee Multi Job History F060119
Employee Number
Data Item
Turnover Data
Effective Date
Change Reason

Table Relationships
1 = 1 record
M = many records

Release A7.3 (June 1996)
Job Specifications
Applicants, Requisitions, and Positions

Table Relationships

1 = 1 record
M = many records
Supplemental Data
Pay Grade Step

Table Relationships
1 = 1 record
M = many records
NOTES
NOTES
NOTES

NOTES
NOTES
NOTES
NOTES
NOTES