



QAD Adaptive Applications  
Enterprise Edition

# Technical Reference Entity Diagrams

70-3160-2021EE  
QAD Enterprise Edition 2021  
September 2021

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# Entity Relationship Diagrams Change Summary

## Product Name Change

Starting in September 2019, the new name for QAD’s complete portfolio of products is QAD Adaptive Applications. Additionally, QAD Adaptive ERP is the new name for QAD’s flagship ERP solution. QAD Adaptive ERP includes the functionality previously associated with QAD Cloud ERP and QAD Enterprise Applications - Enterprise Edition, plus the QAD Enterprise Platform and Adaptive UX which resulted from the Channel Islands program. Going forward, the terms QAD Enterprise Applications, QAD Cloud ERP, and Channel Islands will be deprecated but will remain in previous documentation and training materials. QAD’s intention is to—as soon as possible—eliminate the use of the deprecated terms going forward.

## Change Summary

The following table summarizes significant differences between this document and previous versions.

Date/Version	Description	Reference
September 2021/v2021 EE	Added description of different conventions for some newer diagrams	page 2
October 2020/v2020 EE- Revision 1	Corrected relationship lines in Supplier Consignment I diagram	page 148
September 2020/v2020 EE	Rebranded for 2020 EE	--
September 2019/QAD 2019EE	Added Production Order entity diagrams to Section 1.	page 86 through page 91
	Added new Purchasing Requisition diagram to Section 1.	page 95
March 2019/v2018 EE Revision 2	Added new Section 3 for additional products.	
	Moved Data Collection 3.1 Event Template to new Section 3	page 312
	Moved Data Collection 3.1 Lookup Template to new Section 3	page 313
	Moved Data Collection 3.1 Program Definition to new Section 3	page 314
	Moved Data Collection 3.1 Service Connection to new Section 3	page 315
	Moved Data Collection 3.1 Transaction Definition to new Section 3	page 316
	Moved Data Collection 3.1 Transaction Menu to new Section 3	page 317
	Added Label Printing Service 3.1 Application Configuration	page 318
	Added Label Printing Service 3.1 Auto Release Startup	page 319
	Added Label Printing Service 3.1 Label Content Routing	page 320
Added Label Printing Service 3.1 Label Extract Configuration	page 321	

Date/Version	Description	Reference
	Added Label Printing Service 3.1 Label Format	page 322
	Added Label Printing Service 3.1 Label Maintenance	page 323
	Added Label Printing Service 3.1 Label Manual Release	page 324
	Added Label Printing Service 3.1 Label Mapping	page 325
	Added Label Printing Service 3.1 Label Printer Routing	page 326
	Added Label Printing Service 3.1 Label Printer Setup	page 327
	Added Label Printing Service 3.1 Label Queue Monitor	page 328
	Added Label Printing Service 3.1 Label Reprint Maintenance	page 329
	Added Label Printing Service 3.1 Label Request History	page 330
	Added Label Printing Service 3.1 Manual Labor Reprint	page 331
October 2018/v2018 EE Revision 1	Data Collection 3.1 Event Template	--
	Data Collection 3.1 Lookup Template	--
	Data Collection 3.1 Program Definition	--
	Data Collection 3.1 Service Connection	--
	Data Collection 3.1 Transaction Definition	--
	Data Collection 3.1 Transaction Menu	---
September 2018/v2018 EE	Rebranded for 2018 EE	--
September 2017/v2017 EE	Advanced Self Billing Accrual Historic Information	page 190
	Advanced Self Billing Control	page 191
	Advanced Self Billing Exclusion Shipper	page 192
	Advanced Self Billing Invoice & Shipments I	page 193
	Advanced Self Billing Invoice & Shipments II	page 194
	Advanced Self Billing Invoice & Shipments III	page 195
	Advanced Self Billing Invoice & Shipments IV	page 196
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	Revenue Recognition Calculation I	page 272
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	Revenue Recognition Contract Invoice View	page 274
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	Revenue Recognition Contract Transaction View I	page 277
	Revenue Recognition Contract Transaction View II	page 278
	Revenue Recognition GL Account Mapping	page 279
	Supplier Invoice Approval Workflow History	page 292
	Supplier Payments - Prepayments	page 296
	Unrealized Gain/Loss	page 304

Date/Version	Description	Reference
	Corrected diagram: Serialization - Setup	page 120
	Replaced diagram: Serialization - Shipping History	page 121
	Modified diagram: Supplier Network and Network Bill	page 150
	Corrected diagram: Account Replication	page 181
March 2016/v2016 EE	Added new diagram: Serialization - Label Format	page 117
	Added new diagram: Serialization - Packaging Structure	page 118
	Added new diagram: Serialization - Serial Range	page 119
	Added new diagram: Serialization - Setup	page 120
	Added new diagram: Serialization - Shipping History	page 121
	Added new diagram: Serialization - Transaction Data	page 122
	Added new diagram: Serialization - Transaction History	page 123
	Added new diagram: Days On Hand	page 29
	Added new diagram: Supplier Network and Network Bill	page 150
	Added new diagram: Entity FDS Restrictions	page 239
	Added new diagram: KPI	page 255
	Added new diagram: Layer Transfer	page 261
August 2015/v2015 EE	Added new diagram: IAQ - Attribute Value History	page 48
	Added new diagram: IAQ - Attribute Values	page 49
	Added new diagram: IAQ - Attributes Business Service	page 50
	Added new diagram: IAQ - Certificate of Analysis	page 51
	Added new diagram: IAQ - Item Attribute Profiles	page 52
	Added new diagram: IAQ - Quality Orders	page 53
	Added new diagram: IAQ - Quality Setup	page 54
March 2015/v2015 EE	Modified diagram: Financials vs Operations Replication I	page 247
	Modified diagram: Financials vs Operations Replication II	page 248
	Modified diagram: Posting II	page 267
March 2014/v2014 EE	Added new diagram: Bank Charges	page 199
	Added new diagram: Billing	page 201
	Added new diagram: TPM Deductions I	page 302
	Added new diagram: TPM Deductions II	page 303
Dec 2013/v2013.1 EE (rev1)	Added Relations to all Financial Diagrams	---
	Added txz_mstr, txcl_mstr, txu_mster to Address	page 183
	Master Business Relations renamed Business Relations II	page 211
	Master Account renamed GL Account	page 250
September 2013/v2013.1 EE	Added new diagram: MSW/PSW	page 74
	Modified diagram: Repetitive Scheduling (added cross-reference)	page 103
March 2013/v2013 EE	Added new diagram: Retrobilling	page 105
	Added new diagram: Accounting Period	page 182
	Added FRW Chart to Budgets II	page 203
	Added new diagram: Budget Flow	page 206
	Added new diagram: Financials vs Operations Replication I	page 247
	Added new diagram: Financials vs Operations Replication II	page 248

Date/Version	Description	Reference
	Added Currency to GL Open Item	page 250
	Added FRWTreeView to Financial Report Writer II	page 244
	Added Currency, FRWBuildLog, Company to FRW III	page 245
	Added Company Property to Business Relations II	page 211
	Added GLConsolidCy to GL Account II	page 250
	Added OIAdjustLn in Withholding Tax I	page 305
September 2012/v2012.1 EE	Rebranded for QAD 2012.1 EE	--
March 2012/v2012 EE	Modified diagram: AP Matching Detail II	page 186
	Added new diagram: Financial Report Writer I	page 242
	Added new diagram: Financial Report Writer II	page 244
	Added new diagram: Financial Report Writer III	page 245
	Added new diagram: Financial Report Writer IV	page 246
	Added new diagram: TPM Deductions	page 302
	Modified diagram: Withholding Taxes I	page 305
	Modified diagram: Withholding Taxes II	page 306
September 2011/v2011.1 EE	Rebranded for QAD 2011.1 EE	--

# Diagram Conventions

This chapter explains the diagram conventions used in this volume.

***Introduction*** 2

***How to Use the Diagrams*** 4

## Introduction

This guide details major relationships between tables in a QAD Enterprise Edition database. These diagrams are designed to help:

- Programmers interested in customizing or modifying the standard system. The diagrams show relationships that must be preserved in any customization or modification.
- Programmers writing queries or custom reports. The diagrams show which tables can be joined and the field specifications required to make them join. Note that all possible table relationships are not shown, just the major ones.
- Administrators interested in the availability of custom reports. The diagrams show which reports you can prepare.
- Users of Progress Results who want to determine the relationships available for reporting.

These diagrams are meant to be used in conjunction with *QAD Database Definitions Technical Reference*, which is available separately.

## Entity Relationship Diagrams

As of 2020, QAD entity diagrams are created in a different diagram tool. The new tool creates entity diagrams with a different look and feel. For this reason, the following topics discuss relationships as depicted in:

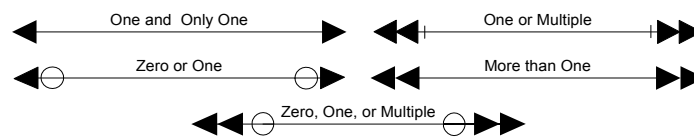
- Original Entity Diagrams
- 2020+ Entity Diagrams

### Original Entity Diagrams

In a relational database, each table is a self-contained collection of data about a single thing (or *entity*). There are five relationship line identifiers that can be combined to distinguish 15 specific entity relationships.

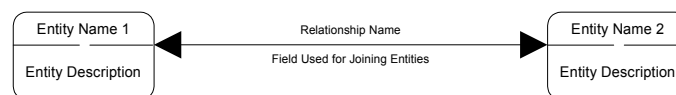
The five relationship lines are displayed in Figure 1.1

**Fig. 1.1**  
Table Relationship Description



Relationships are identified by using the lines, as shown in Figure 1.2.

**Fig. 1.2**  
Table Relationship Description

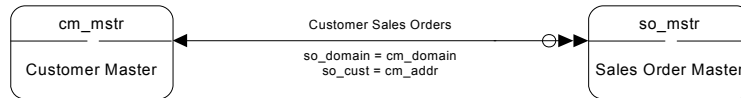


A bar symbol (|) indicates an OR relationship when more than one field can be used for joining.

## Relationship Examples

Figure 1.3 shows that one customer can have zero or more sales orders and that one sales order has one and only one customer.

**Fig. 1.3**  
cm\_mstr to so\_mstr Relationship Example



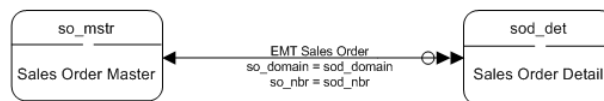
To join these two tables within Progress, you would set so\_cust equal to cm\_addr or vice versa.

```

FOR EACH cm_mstr EACH so_mstr WHERE so_domain = cm_domain AND cm_addr = so_cust:
    DISPLAY cm_addr so_nbr.
END.
  
```

Figure 1.4 shows that one EMT sales order can have zero or more sales order details and that one sales order detail has one and only one EMT sales order.

**Fig. 1.4**  
so\_mstr to sod\_det Relationship Example



To join these two tables within Progress, set so\_nbr to sod\_nbr.

```

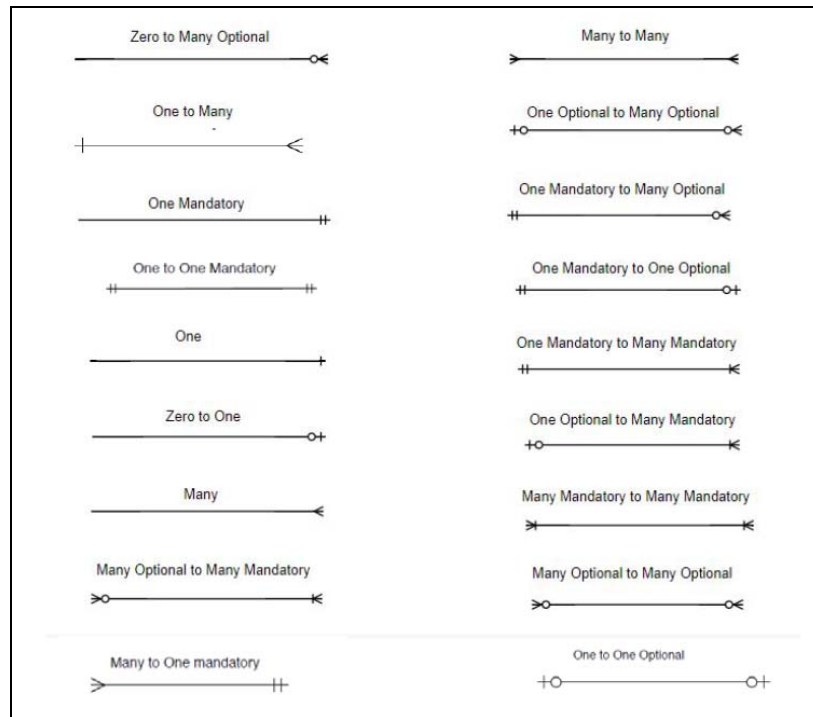
FOR EACH so_mstr EACH sod_det WHERE so_domain = sod_domain AND so_nbr = sod_nbr:
    DISPLAY so_nbr and sod_nbr.
END.
  
```

## 2020+ Entity Diagrams

Diagrams created after 2020 use a slightly different format, primarily in the connection type. These diagrams use the following connection conventions:

## 4 QAD Entity Diagrams Technical Reference

**Fig. 1.5**  
Updated Connection Conventions



## How to Use the Diagrams

The diagrams are organized alphabetically by functional modules. The most practical way to find information about a particular area is to turn to the diagram for that area. Find the entity (table) that you are interested in and trace out the relationships.

When creating a report or browse, use the entity relationship diagrams to decide which table names you should use (and the join relationships). If no relationship exists between two tables, a report showing such a relationship is not possible.

For Progress Results users, these diagrams indicate the relationships that you can show. Progress Results shows the names of tables that have relationships with a specified table. These diagrams show those tables in graphic form and show the subsidiary relationships between tables.

## Operational Tables

QAD table names and table name description are closely related. The table name consists of a prefix and type, separated by an underscore (\_). Common table types are listed in Table 1.1.

**Table 1.1**  
Database Table Types

Table Type	Meaning	Description
ctrl	Control	Parameters and logical fields that control other functions.
mstr	Master Table	Used for data storage.



Table Type	Meaning	Description
det	Detail Table	Detail related to another record. There are typically many detail records associated with one master record.
hist	History Table	Contains records created by activity within the database.
plan	Planning Table	Data for planning functions.
wkfl	Work Table	Used to support other functions.

In the typical case, the table prefix consists of two or three significant letters of the table name description.

**Example** The table name for sales order master is `so_mstr`, and `po_mstr` is the table name for purchase order master.

In most cases, the first letter of the table name is the first letter of the description; the few exceptions involve tables such as line changeover master, which is `chg_mstr`.

Detail tables related to master data typically have the same prefix with the addition of the letter `d`.

**Example** The detail table associated with `so_mstr` is `sod_det`.

Within a table, all the data elements use the same prefix.

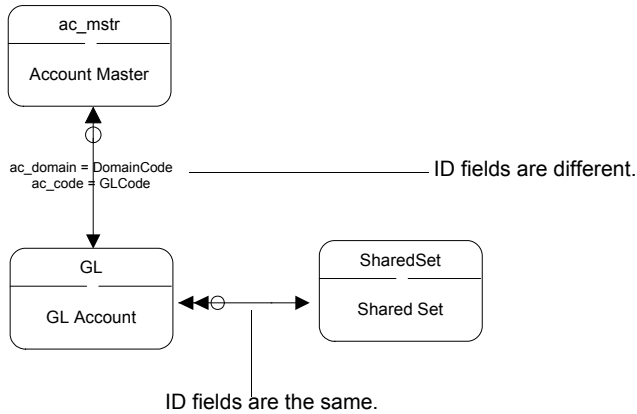
**Example** The repetitive production schedule (`rps_mstr`) table includes fields named `rps_part` and `rps_record`.

## Financial Tables

Financial table relationships differ slightly from operational table relationships. In financial entity diagrams:

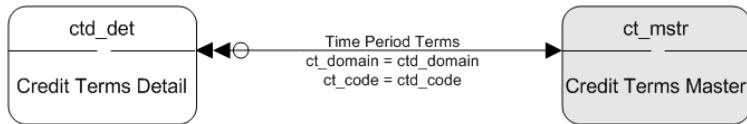
- The key to most relationships between financial tables is an ID field. In most cases, the ID field is the same for both tables. When they are the same, the ID field is not included in the financial entity diagrams. When the ID field is not the same, it is included; see Figure 1.6 on page 6.
- Some relationships show multiple arrows. This indicates that multiple fields are linked between the tables. For example, the Year End Close diagram has four arrows between the YearClosing and GL tables. This is because the YearClosing table contains four fields that are GL accounts and point to the GL Account table; see “Year End Close” on page 307.
- Some diagrams depict Q-variant tables that hold temporary data. The dotted-line tables have names that start with the letter Q; for example, `QPostingLine`. Typically, the records in the Q tables are created when certain actions or transactions occur, then the system transfers the data to other permanent tables and deletes the data in the temporary Q tables.
- Some diagrams include a line without arrows that indicates an indirect relationship for retrieving the domain code for certain types of data. This occurs when financial data that is specific to a shared set is also stored in operational tables that are domain specific. For example, data stored in the journal table is based on shared sets. Data in the corresponding operational daybook table (`dy_mstr`) is based on domains. To determine the applicable domain for a particular daybook, the system references the information stored in the DomainSharedSet table. See “Daybook” on page 233.

**Fig. 1.6**  
Financial Diagrams Differences, ID Fields



### Replicated Tables

To improve system performance and provide efficiency for data retrieval, some data is stored in duplicate tables in the database. In these cases, the data is created and maintained in one primary table and then copied to a secondary table for use by other functions in the system. When a diagram references a secondary table, the secondary table appears with a shaded background to indicate that it stores data that is actively maintained in a different table.



Most of these replicated tables contain data that is maintained in Financial modules.

# Operational Table Relationships

This section includes entity diagrams for operational modules.

***Operational Entity Diagrams*** 9

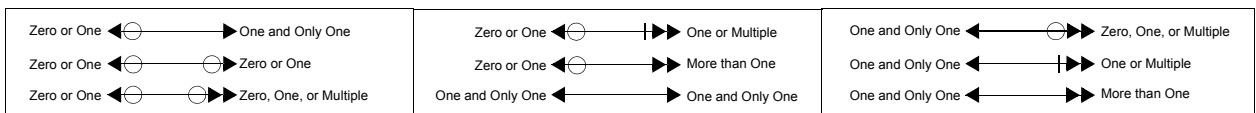
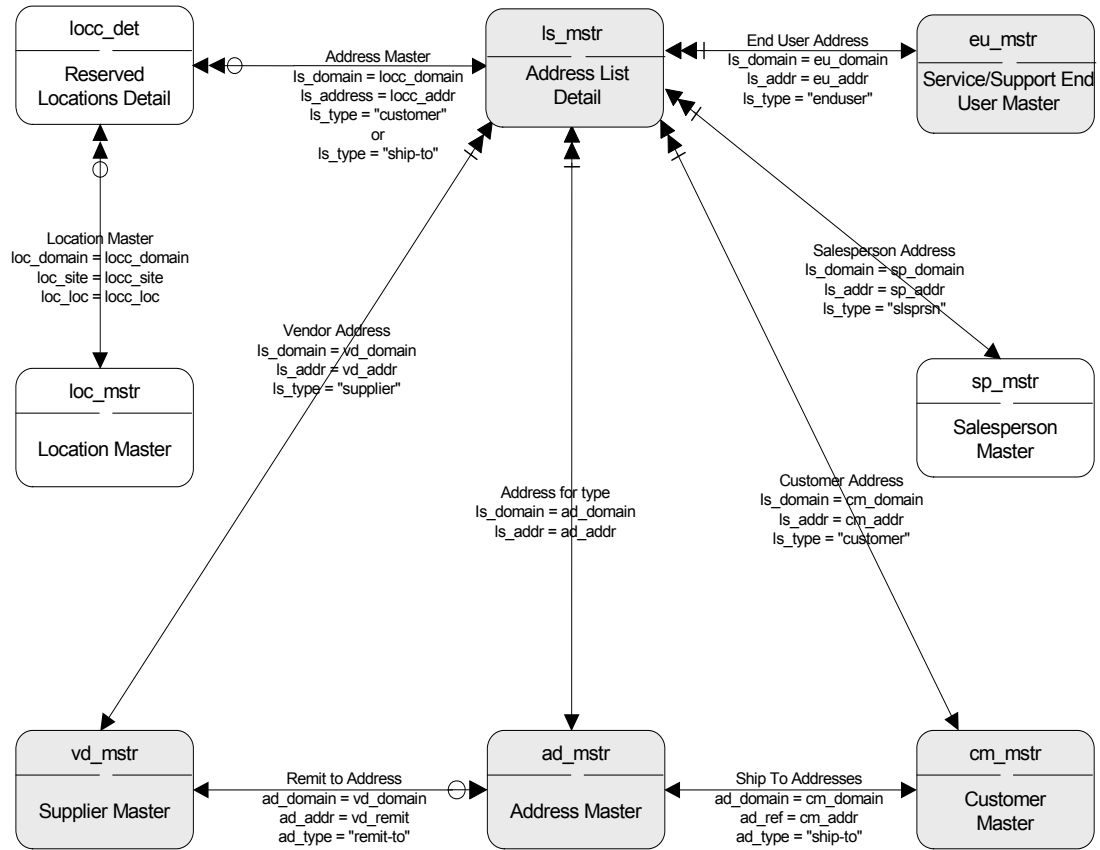


# Operational Entity Diagrams

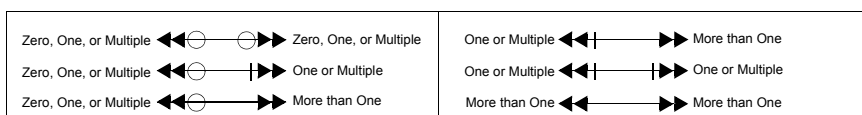
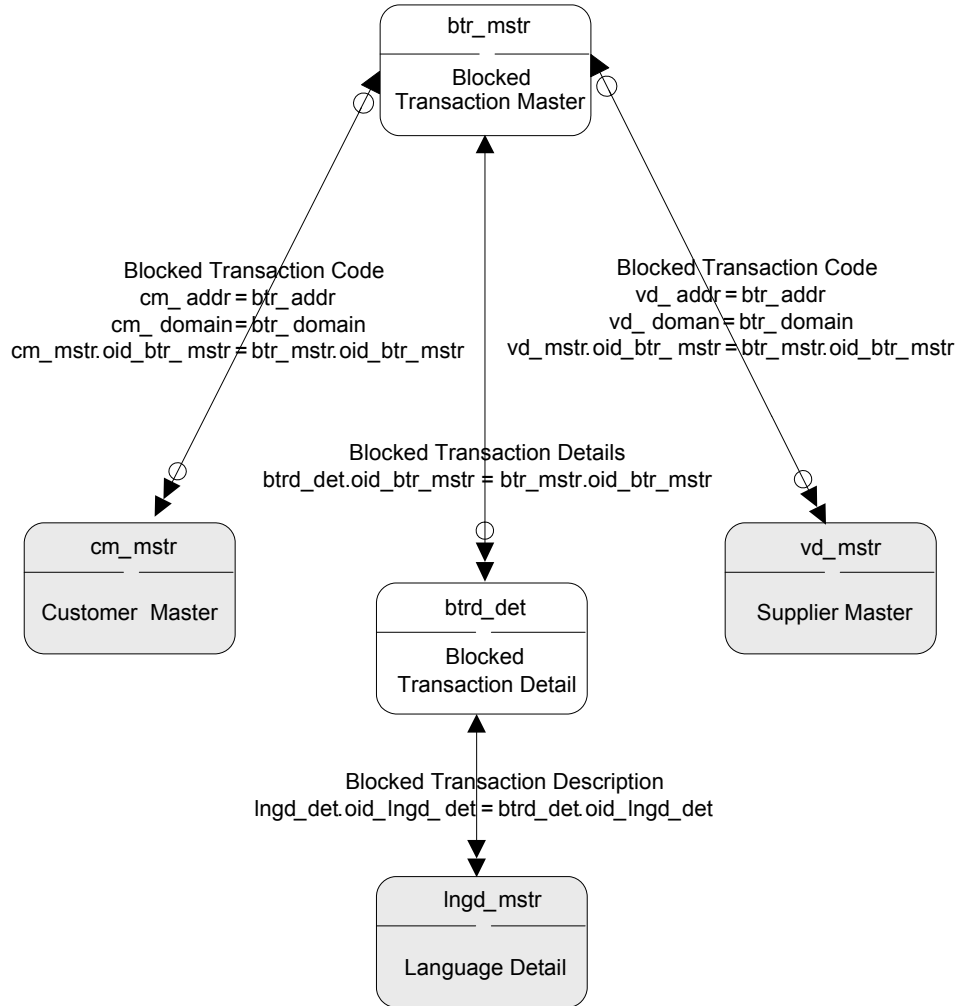
The entity diagrams are in alphabetical order starting on the next page.

Table 3.1 on page 178 lists each table included in the diagrams and indicates the title of the diagram where the table appears.

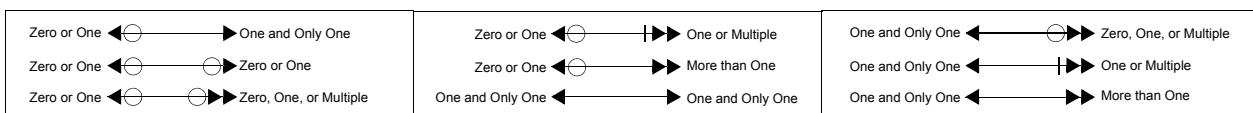
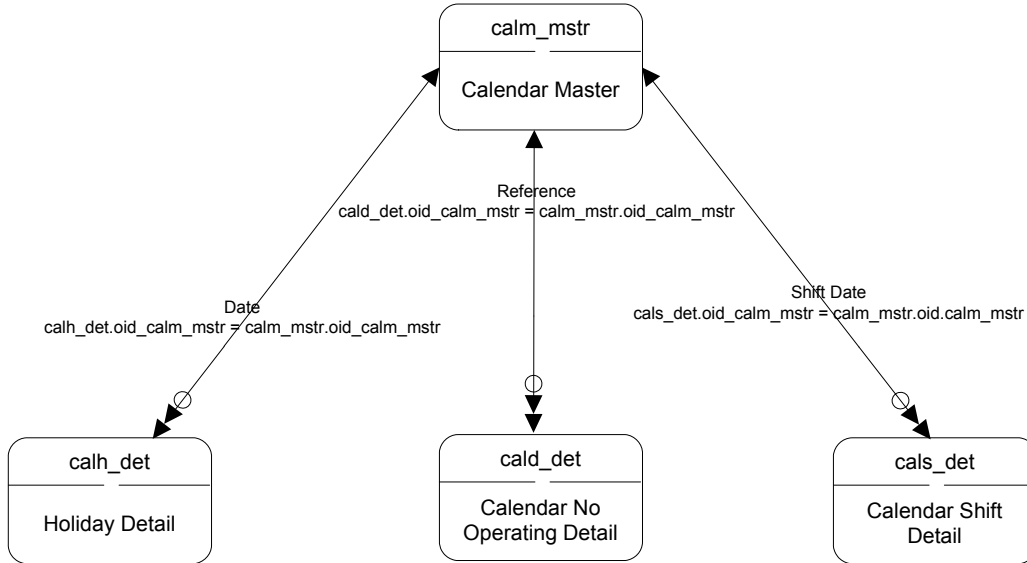
# Addresses



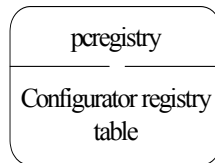
# Blocking Transaction



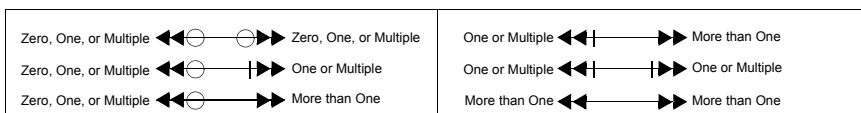
# Calendars



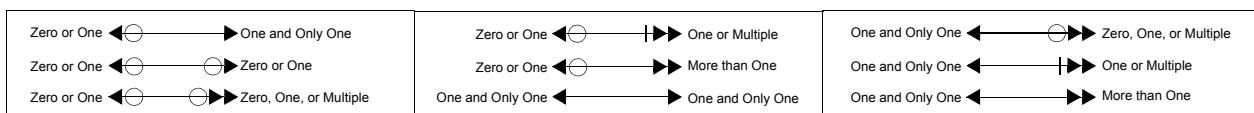
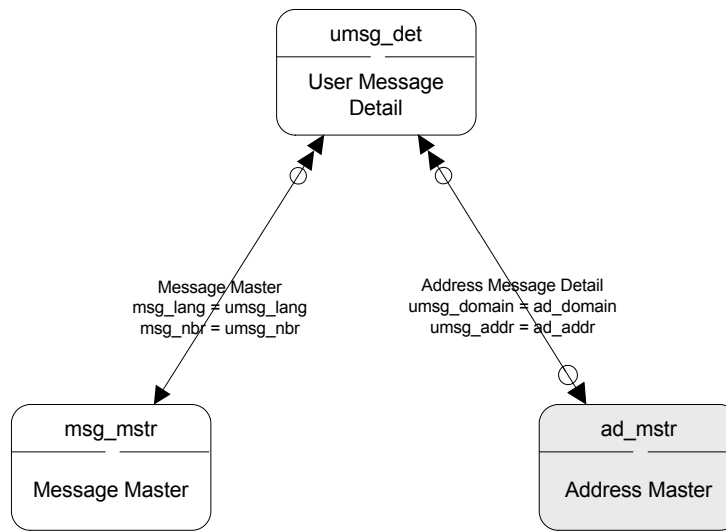
# Configurator - PC Registry



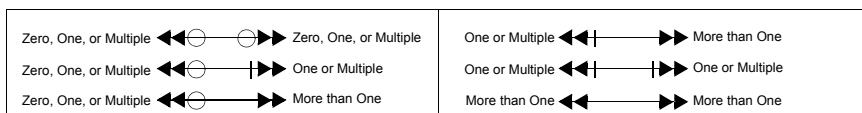
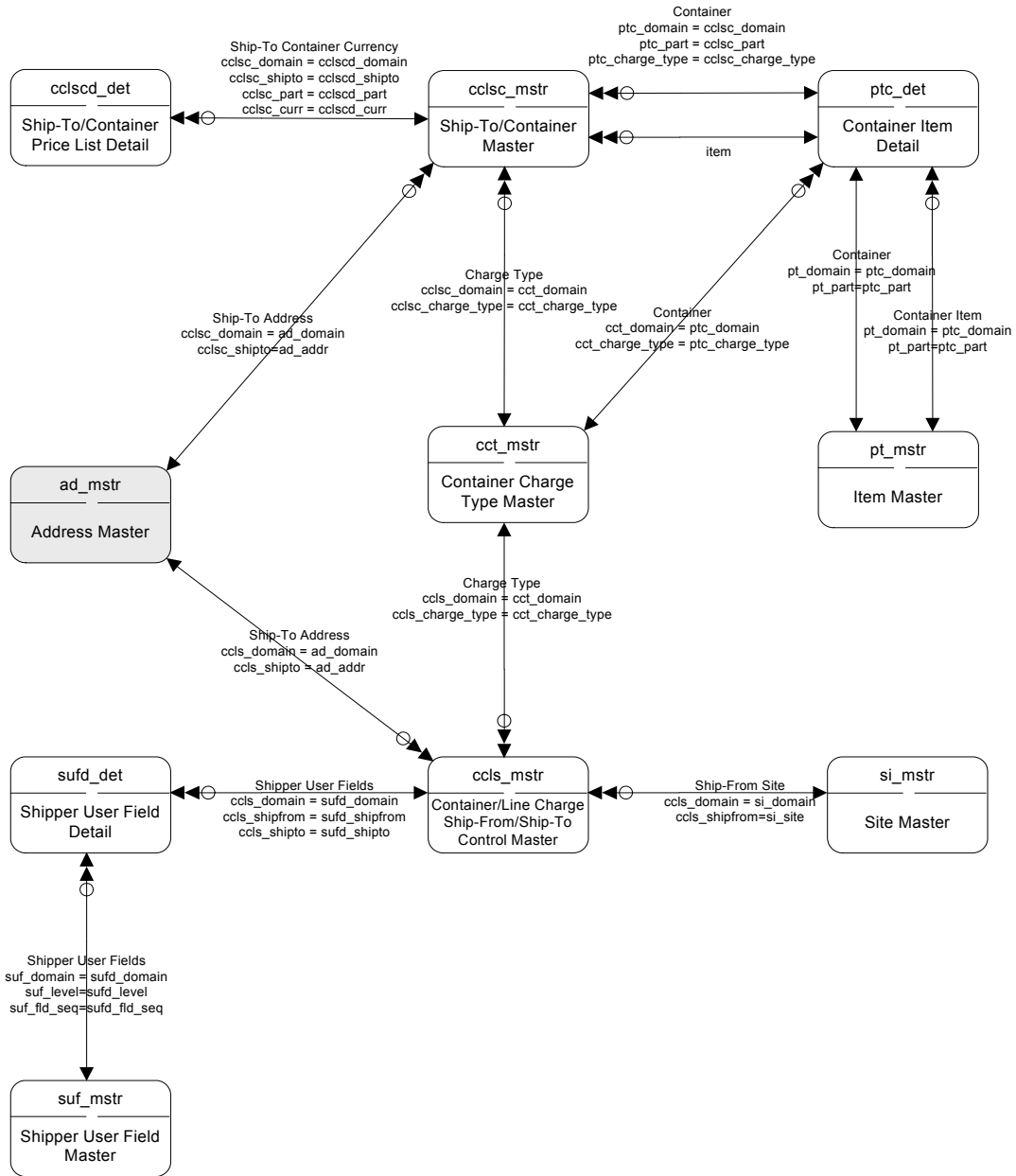
Note: This table stores some Configurator control settings. It does not link to any other tables.



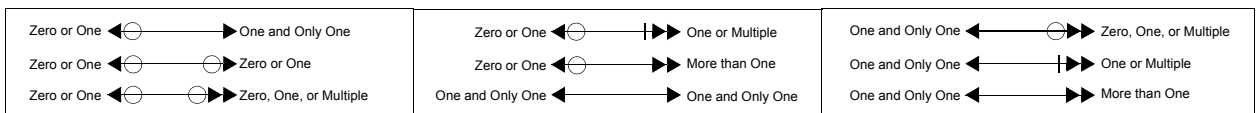
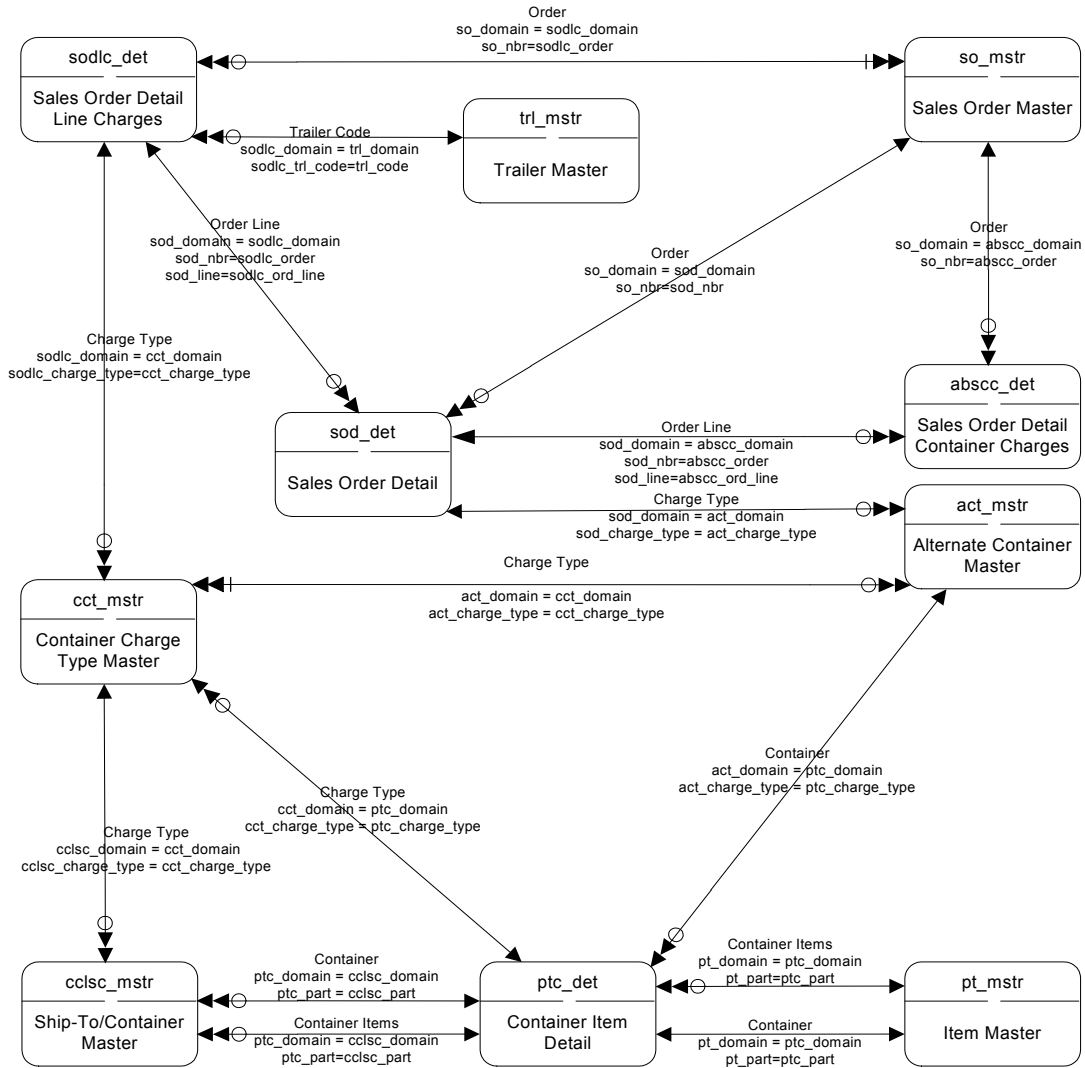
## Configured Messages



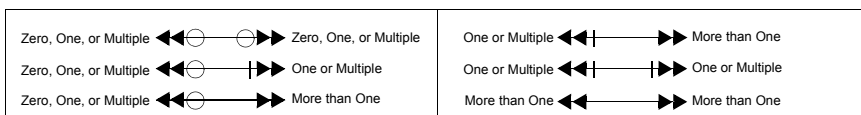
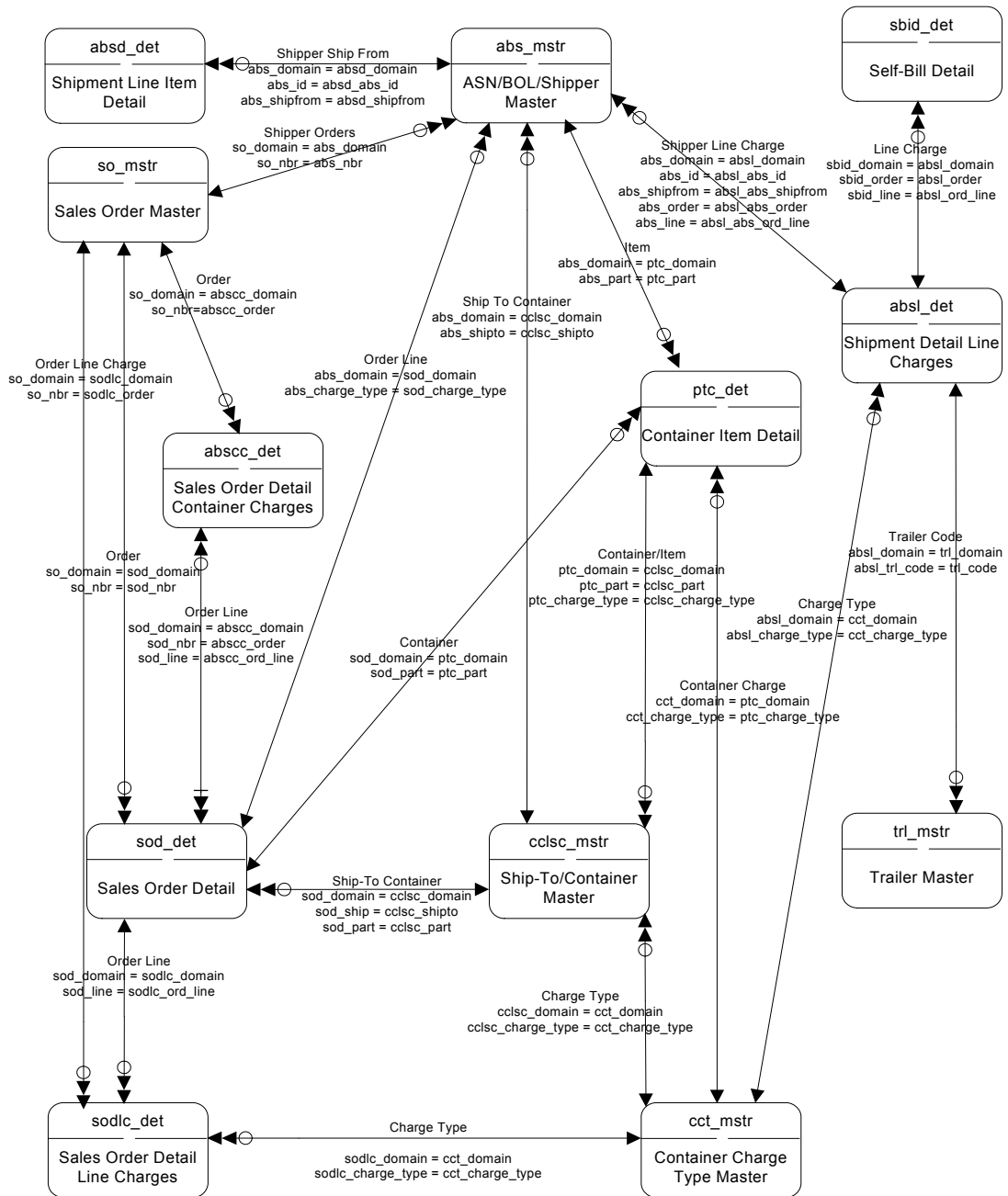
# Container and Line Charges I



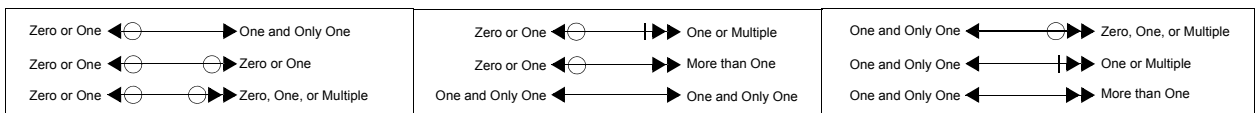
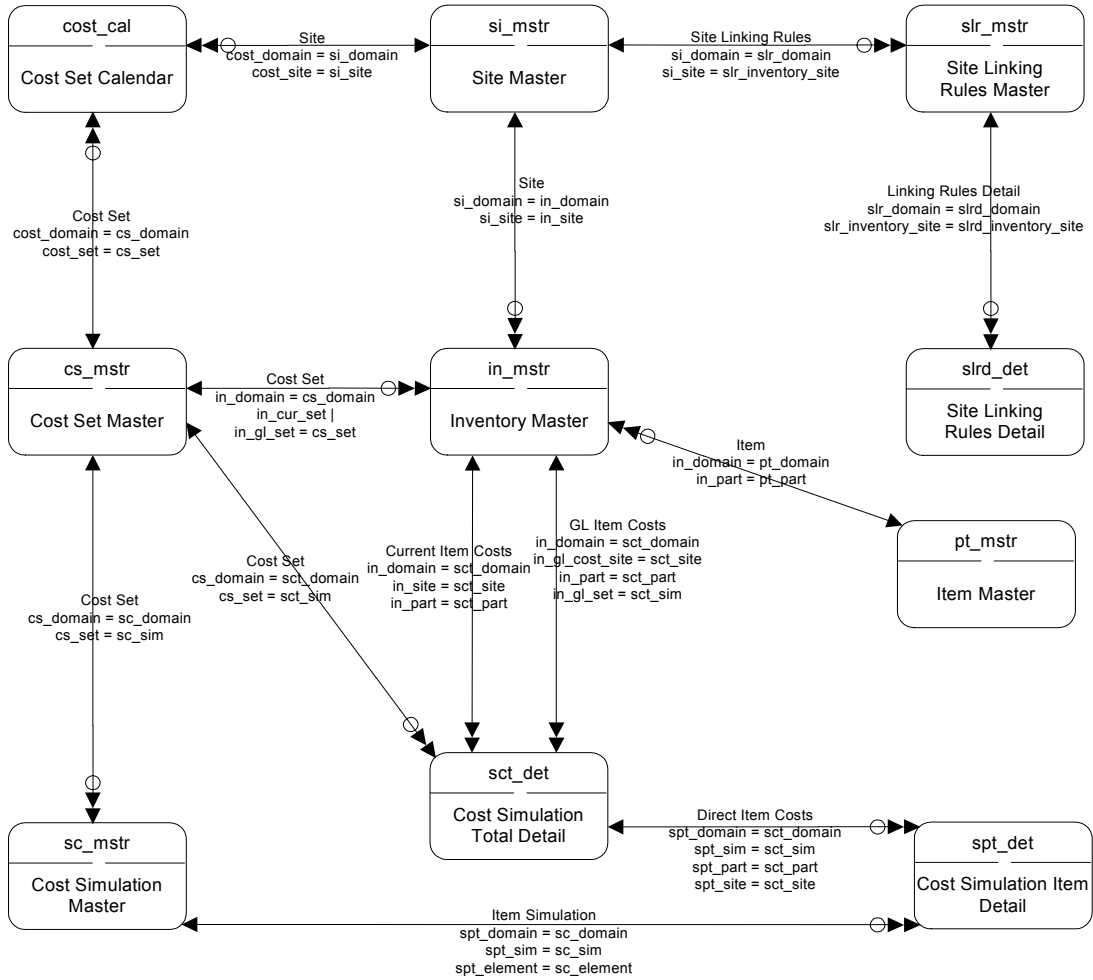
## Container and Line Charges II



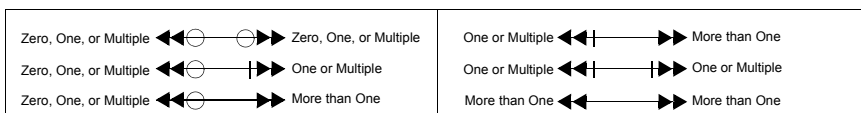
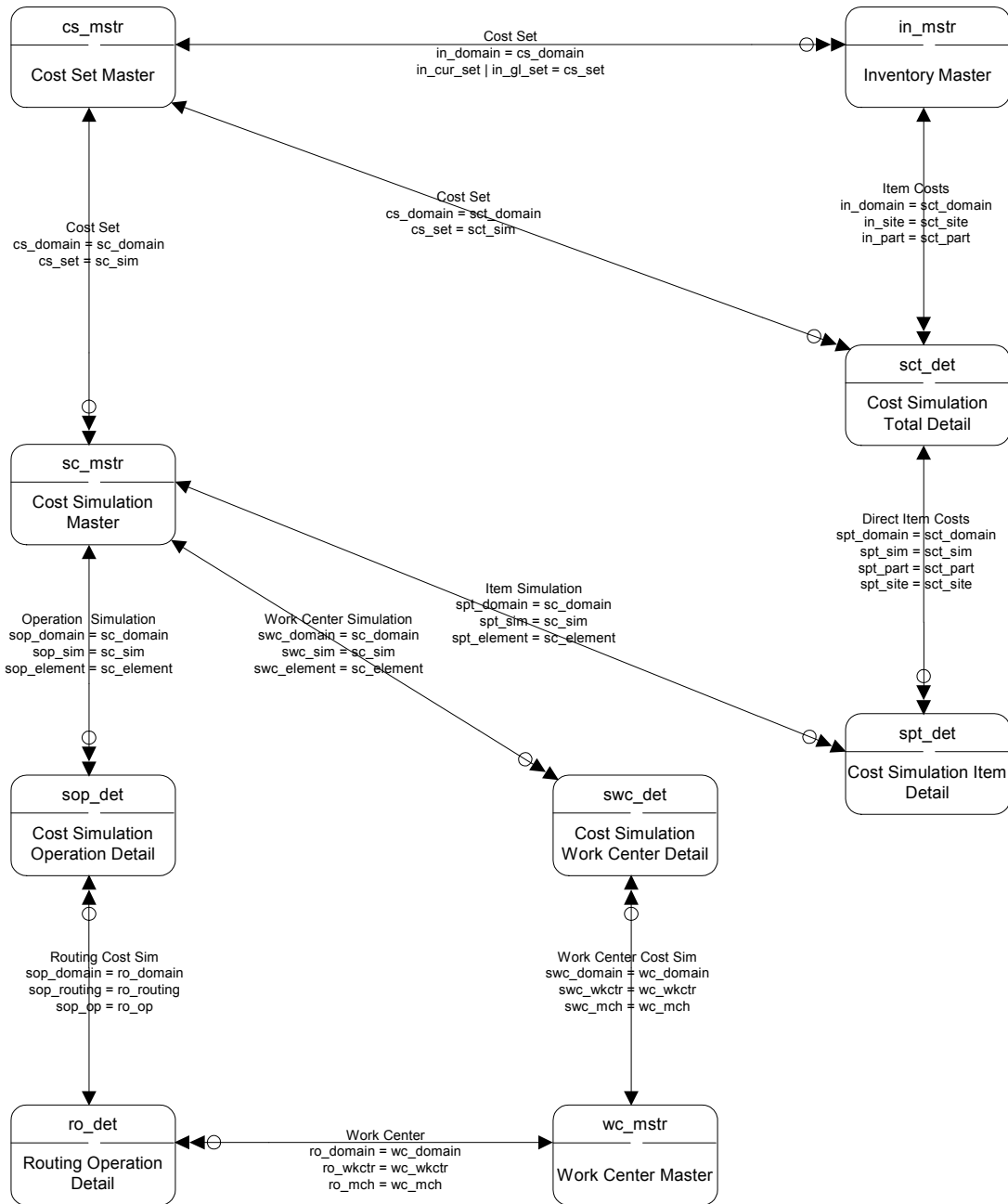
# Container and Line Charges III



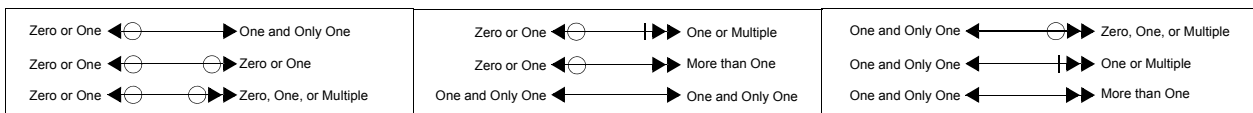
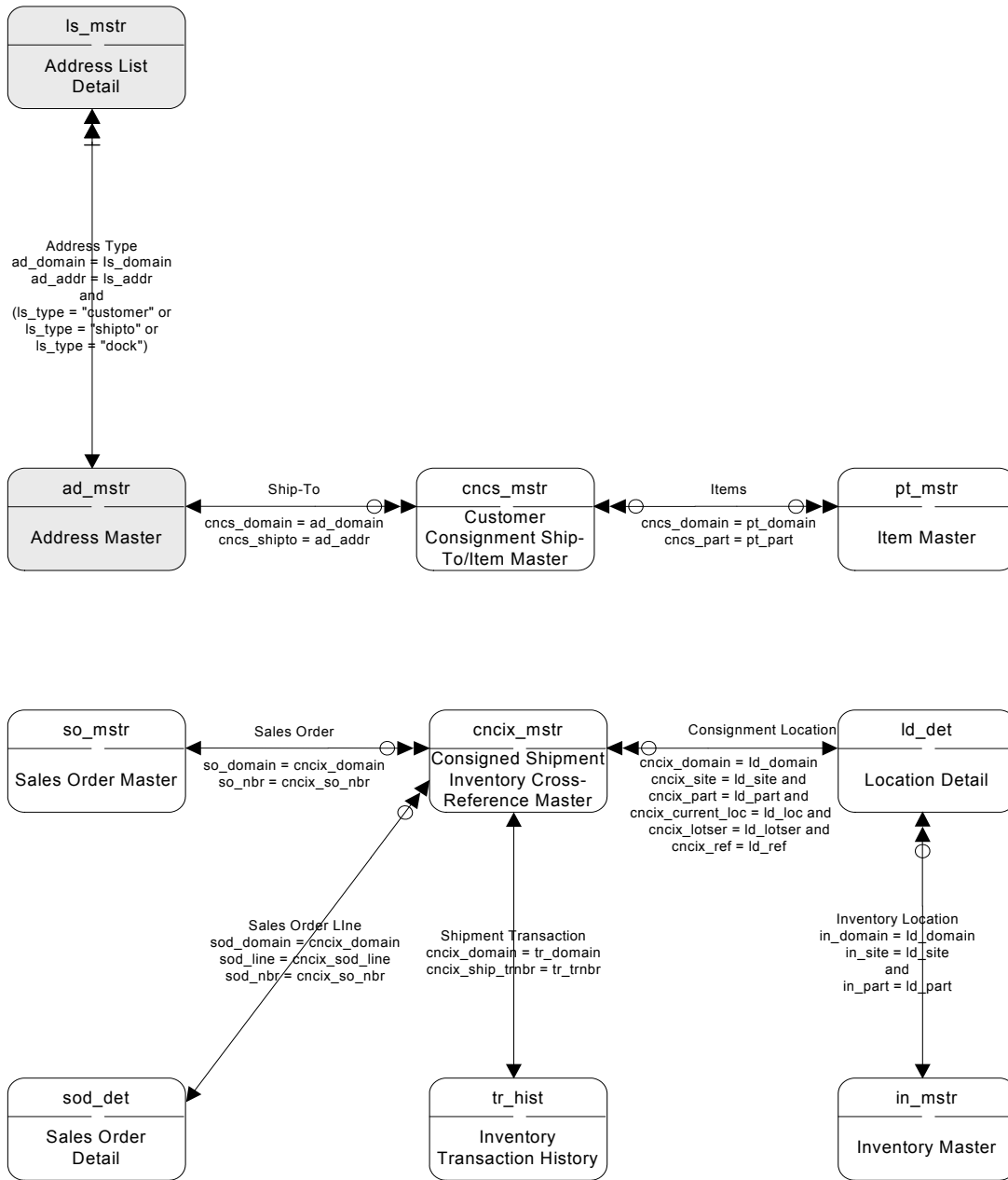
# Cost Management I



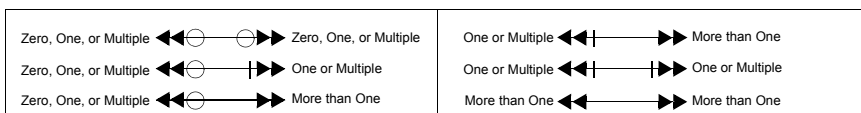
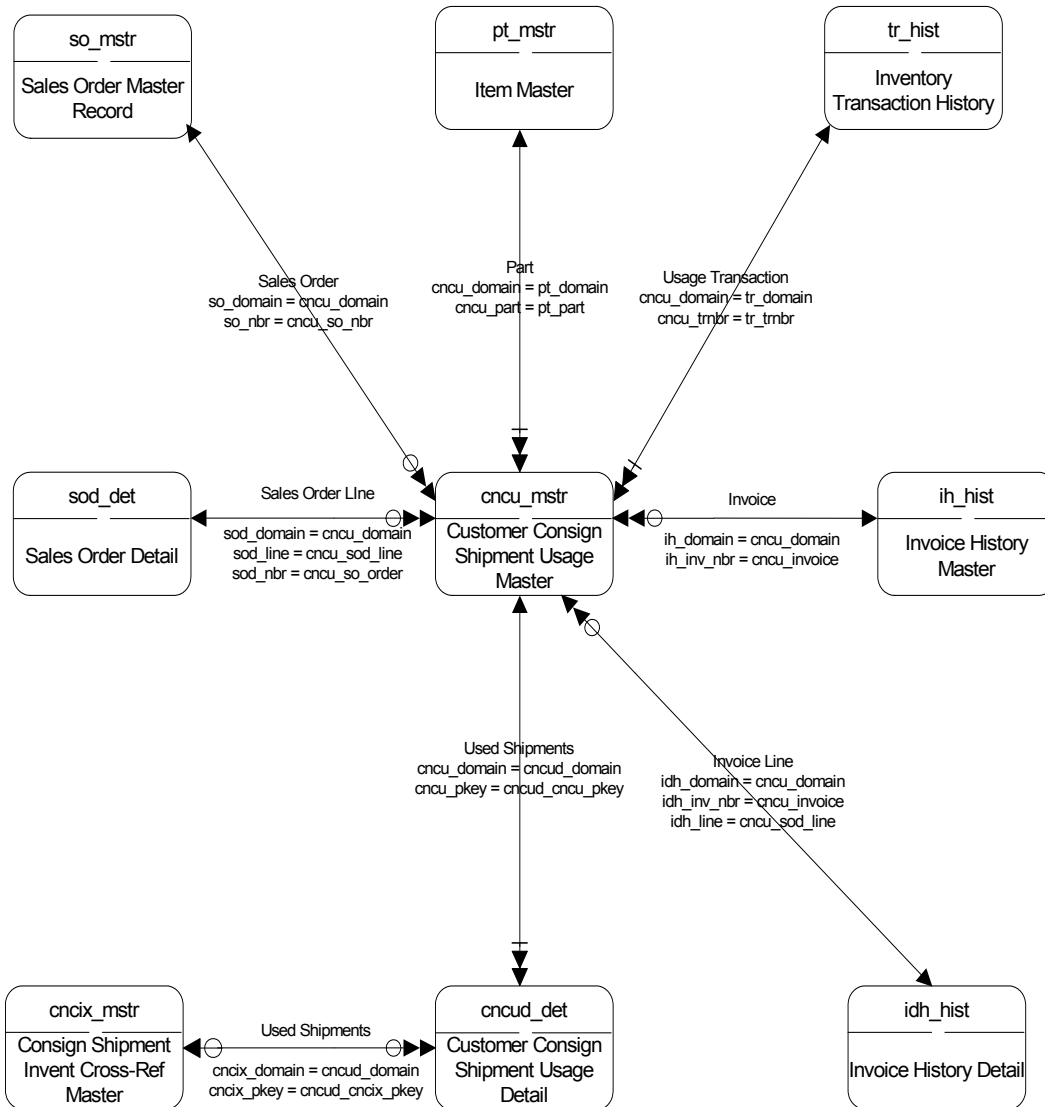
# Cost Management II



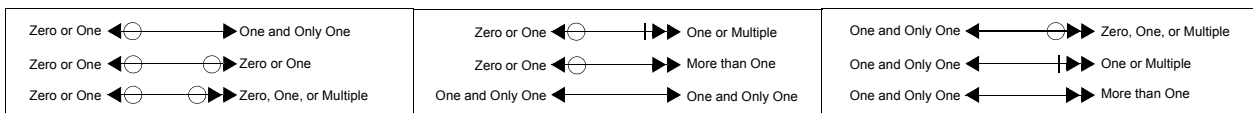
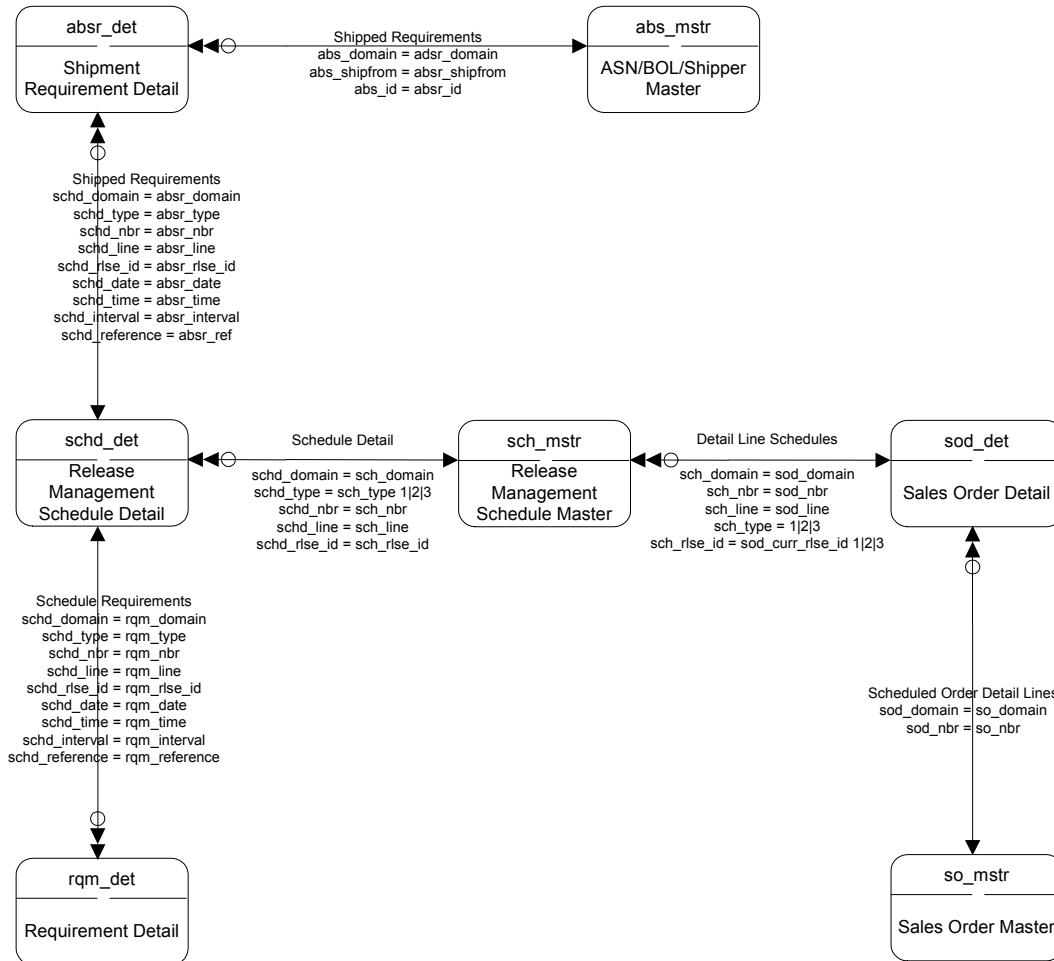
# Customer Consignment I



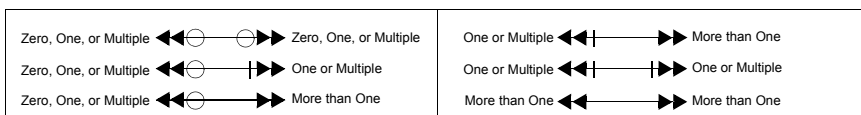
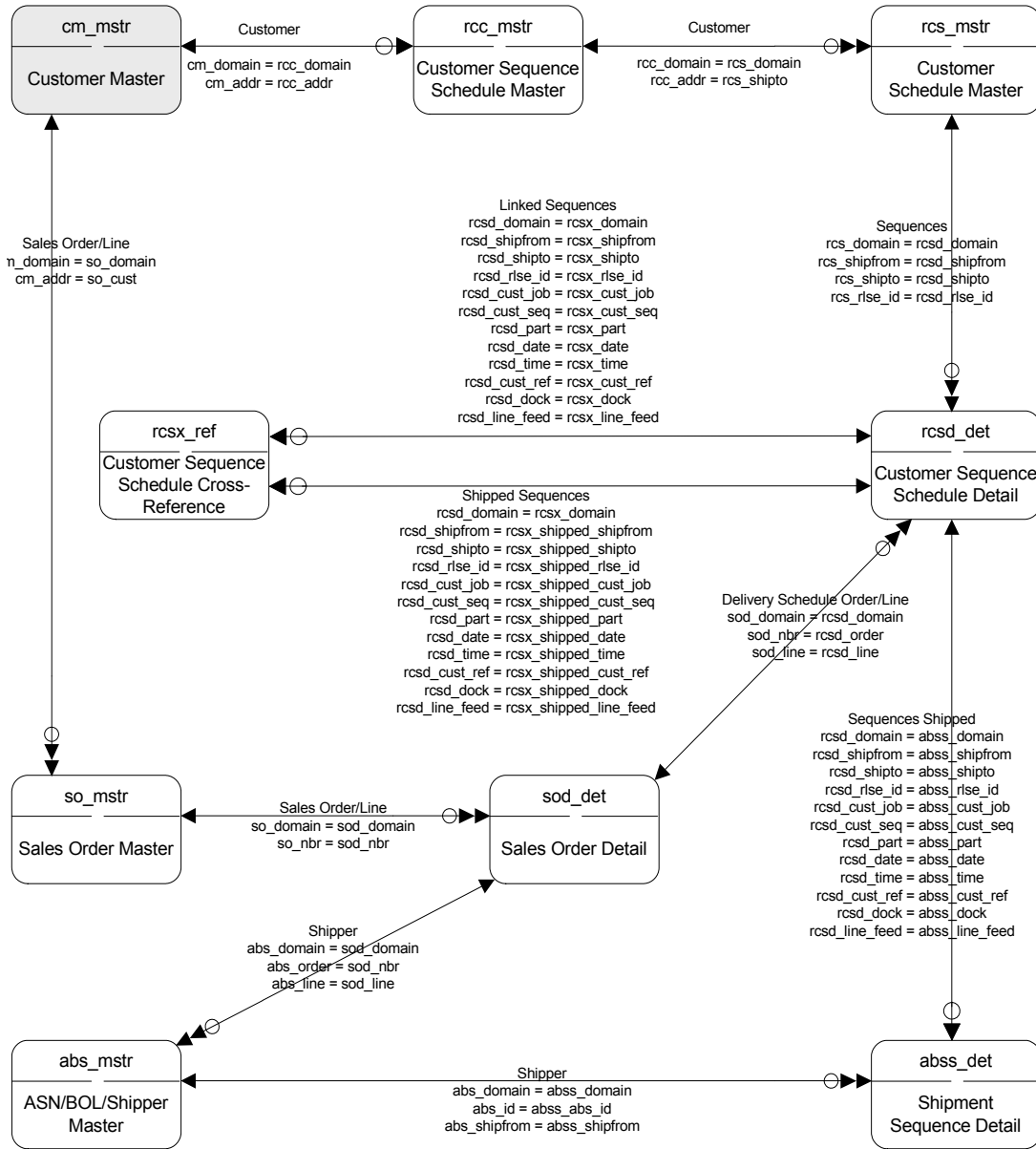
## Customer Consignment II



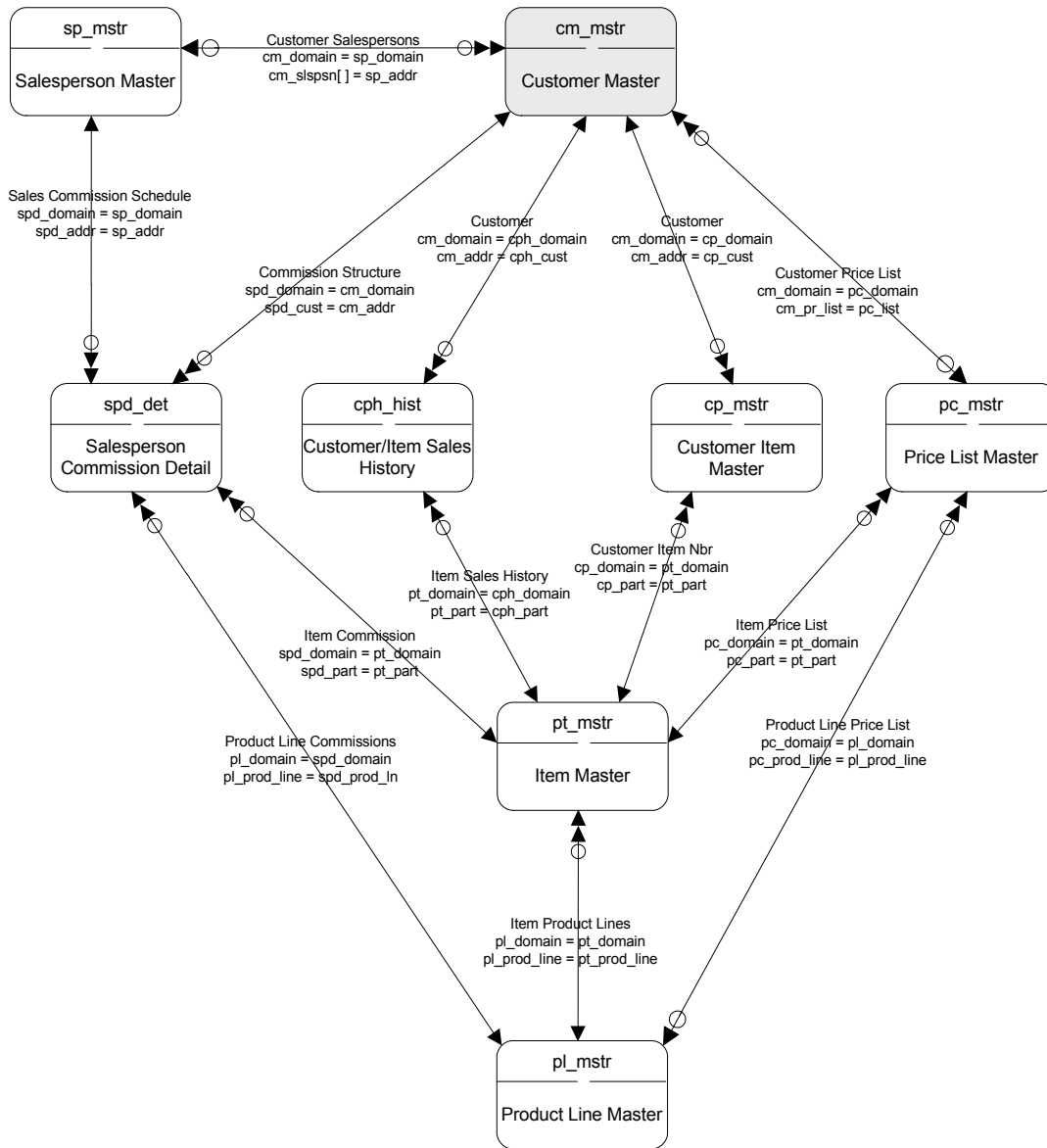
# Customer Scheduled Orders



# Customer Sequenced Schedules

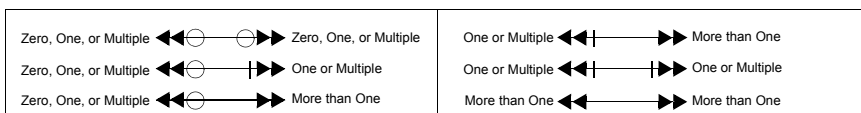
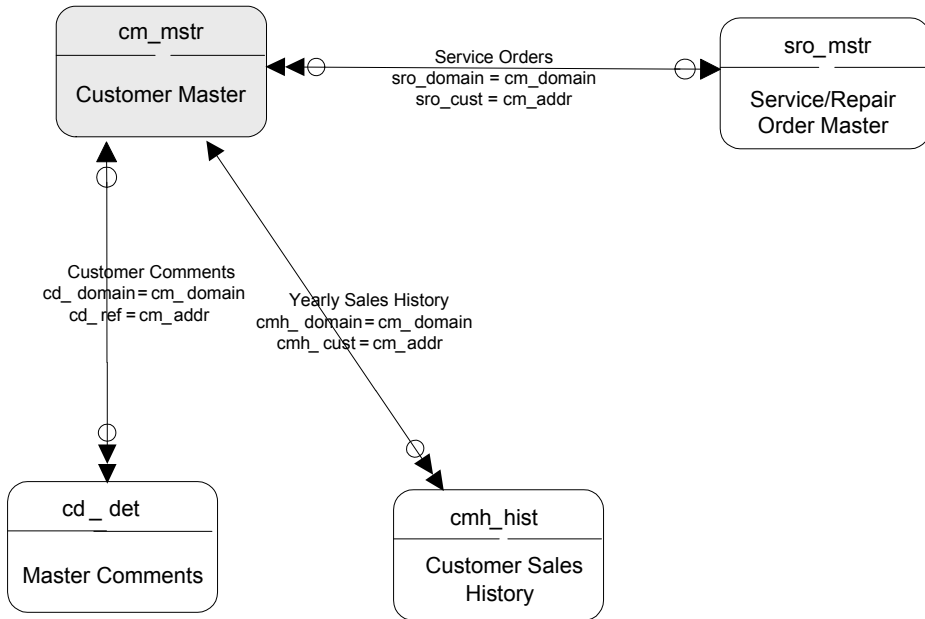


# Customers I

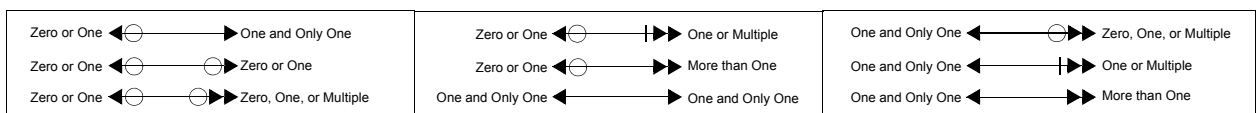
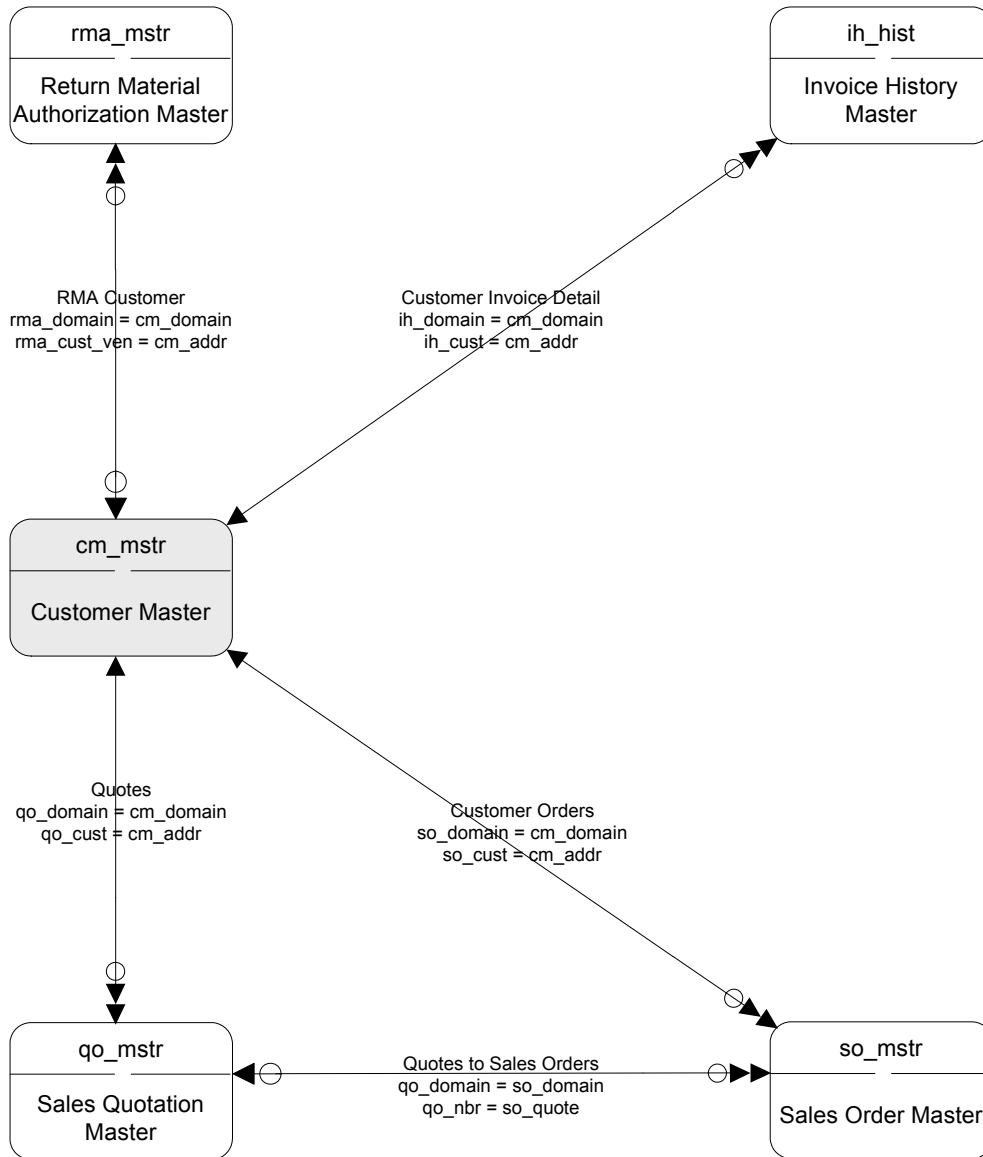


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \parallel \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \parallel \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \parallel \parallel \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \parallel \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \parallel \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \parallel \parallel \parallel \longrightarrow$ More than One

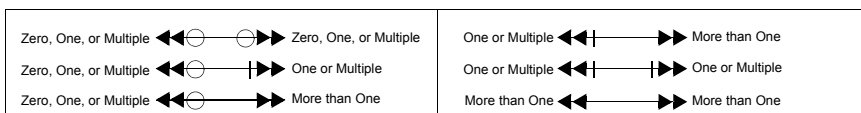
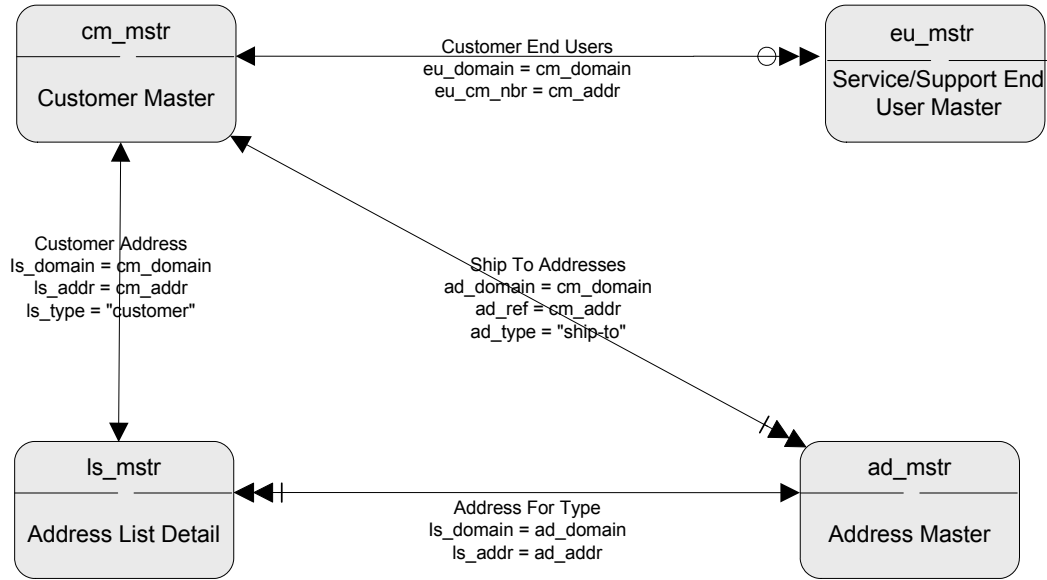
# Customers II



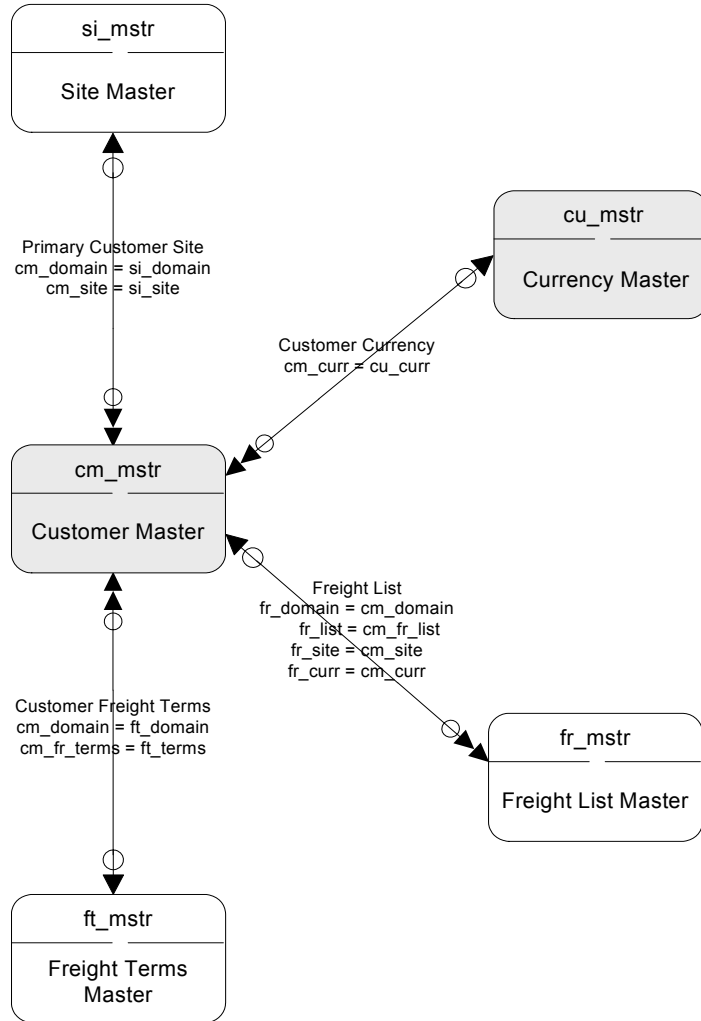
## Customers III



# Customers IV

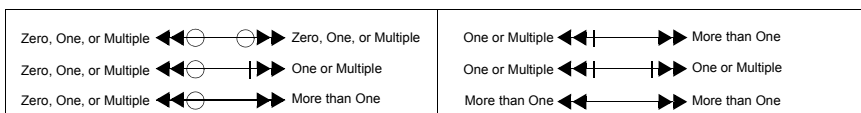
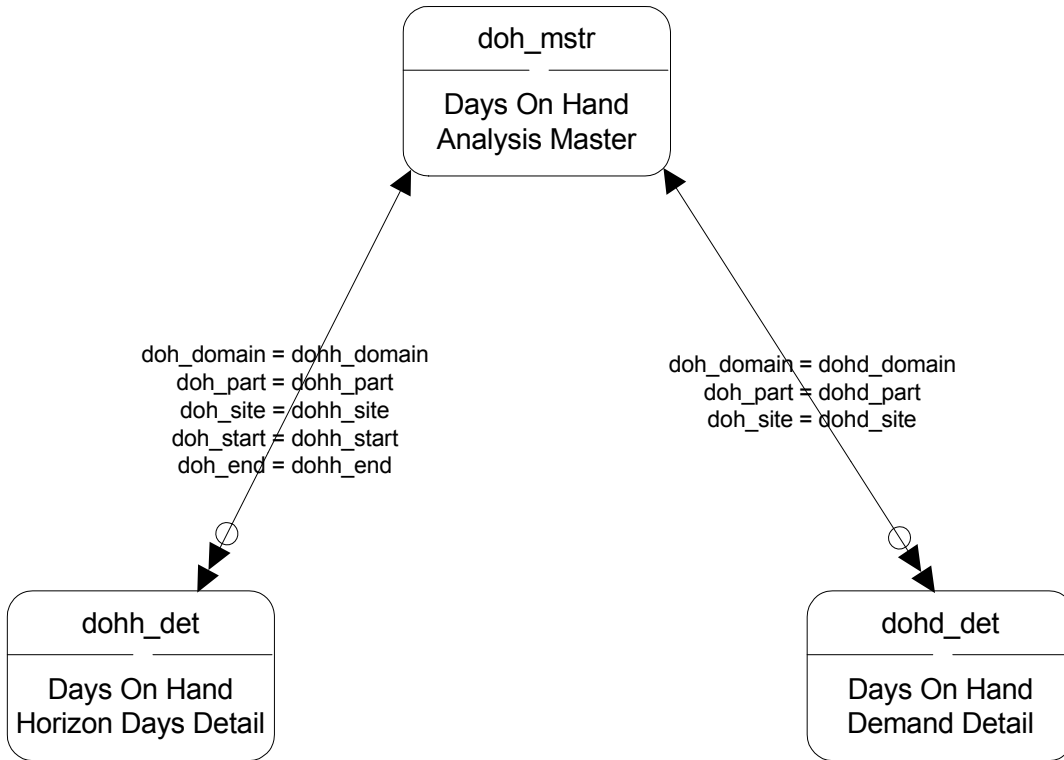


## Customers V

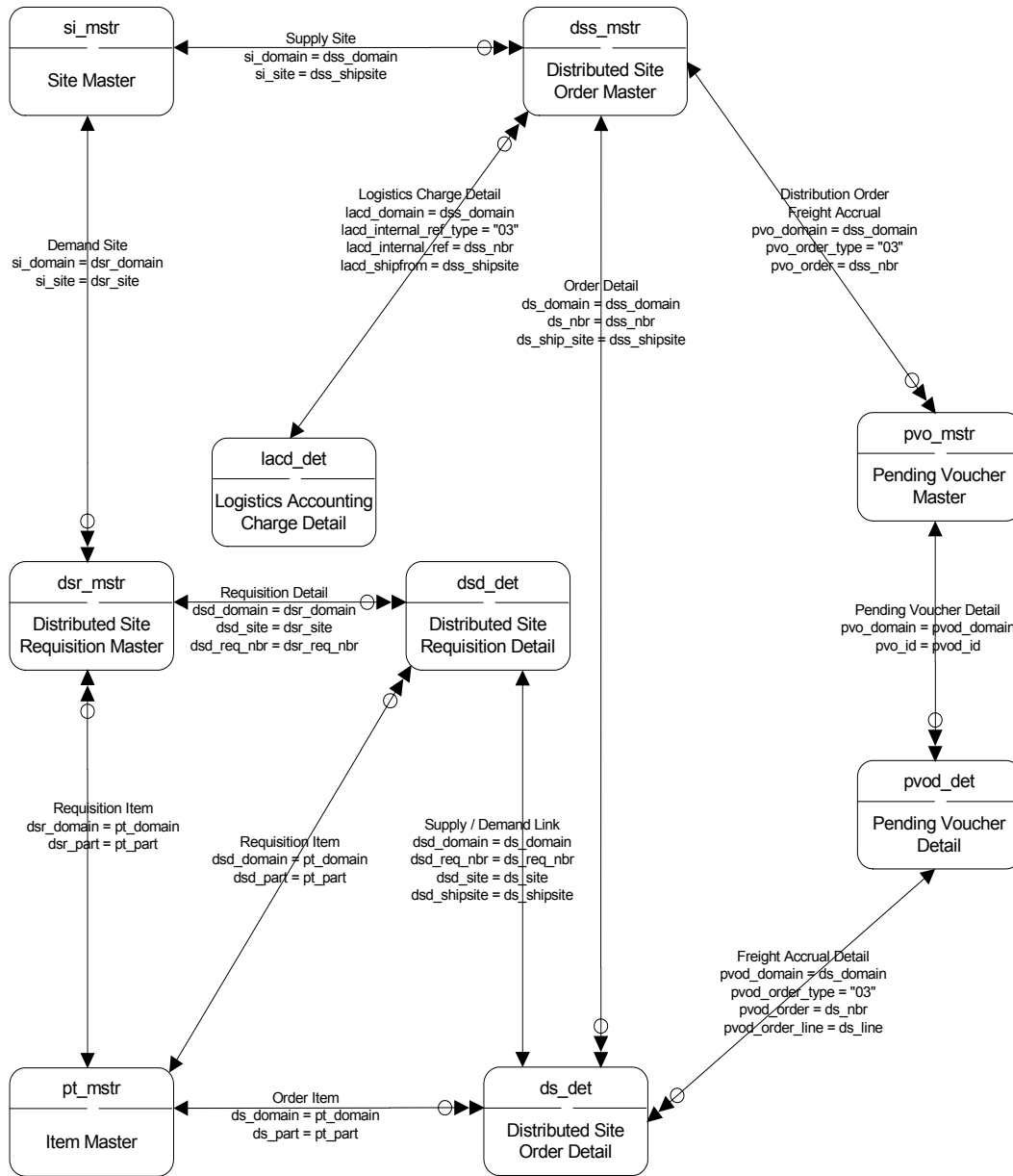


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ More than One

# Days On Hand

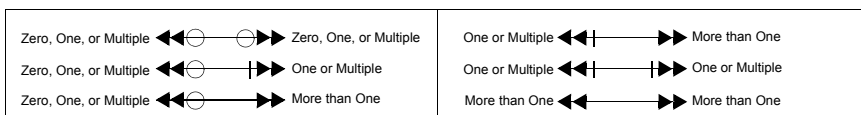
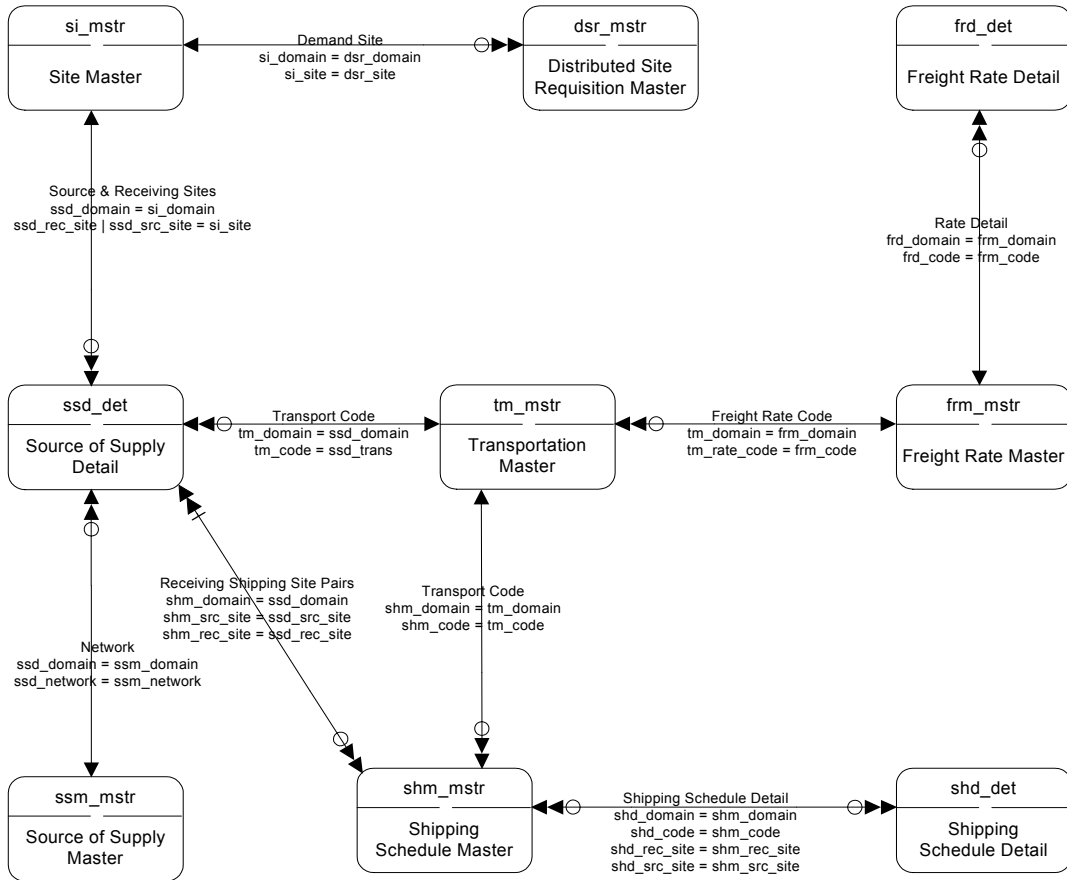


# DRP I

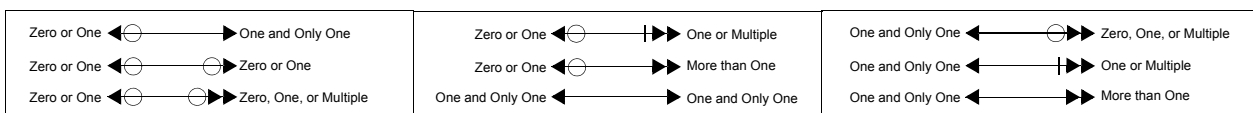
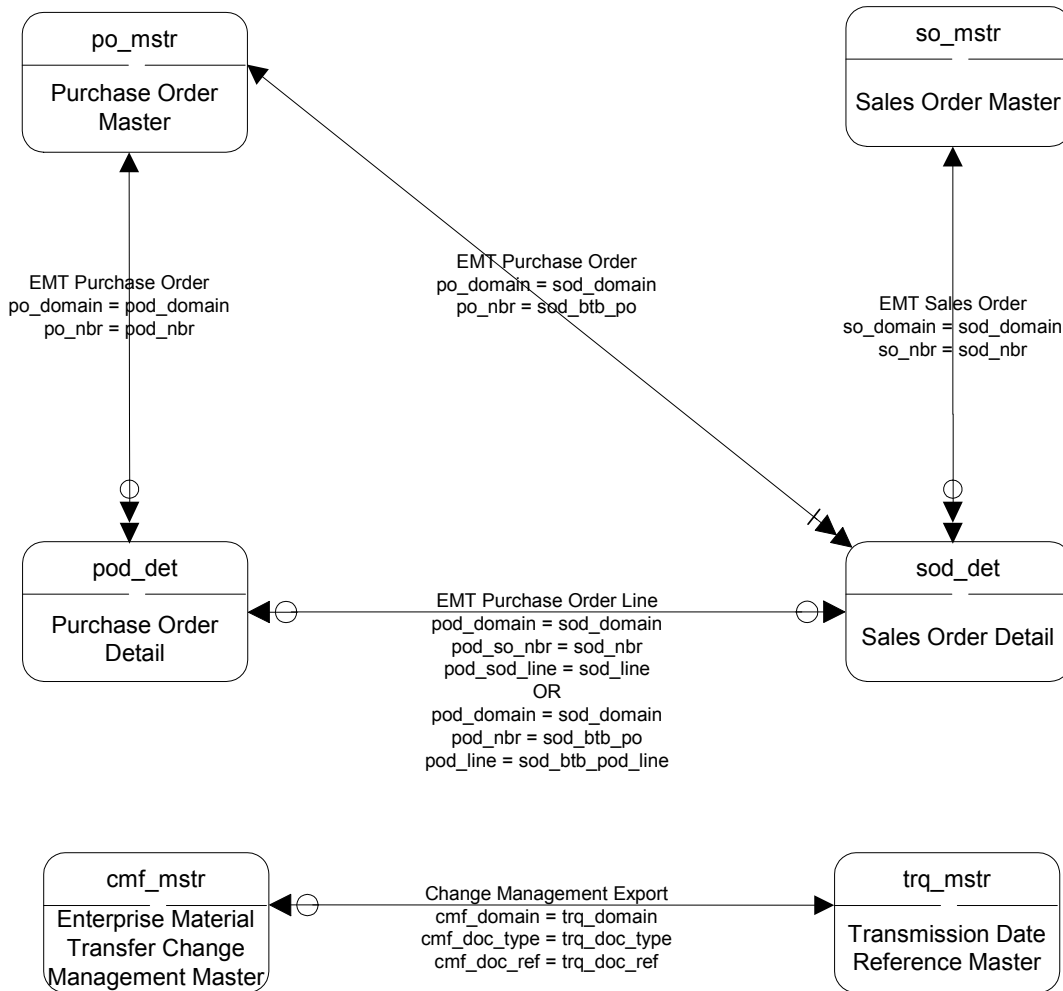


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \circlearrowright$ Zero or One	Zero or One $\leftarrow \ominus \dashrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \circlearrowright$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashrightarrow$ More than One

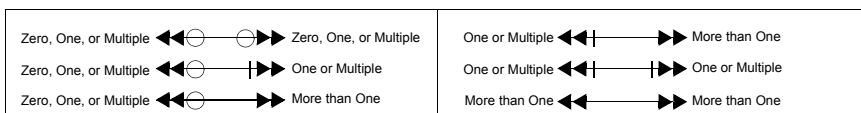
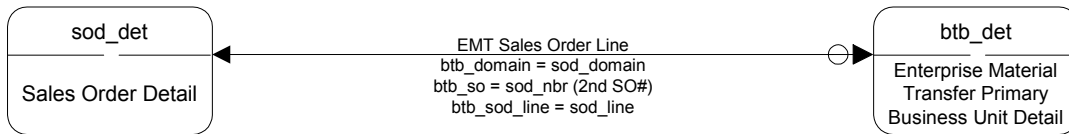
# DRP II



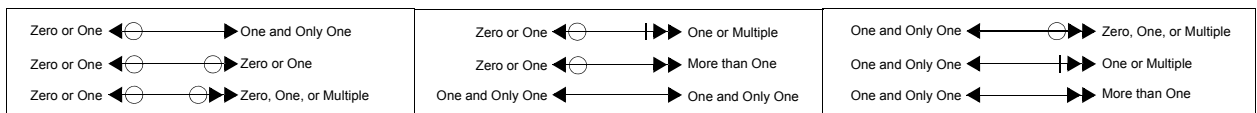
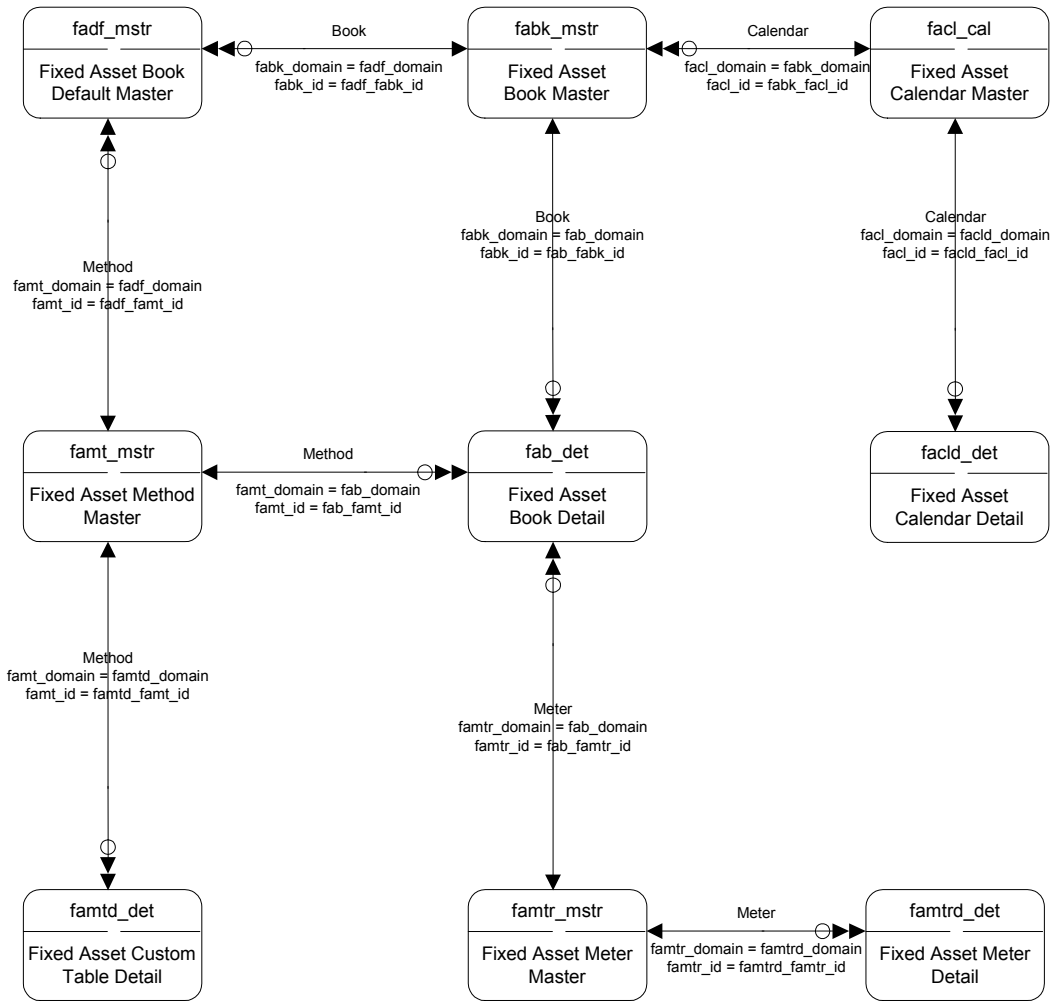
## EMT – Primary Business Unit



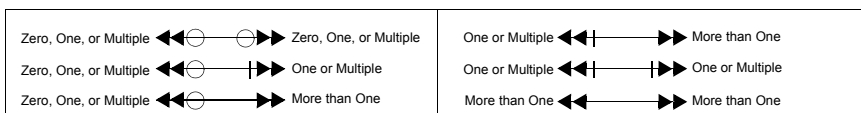
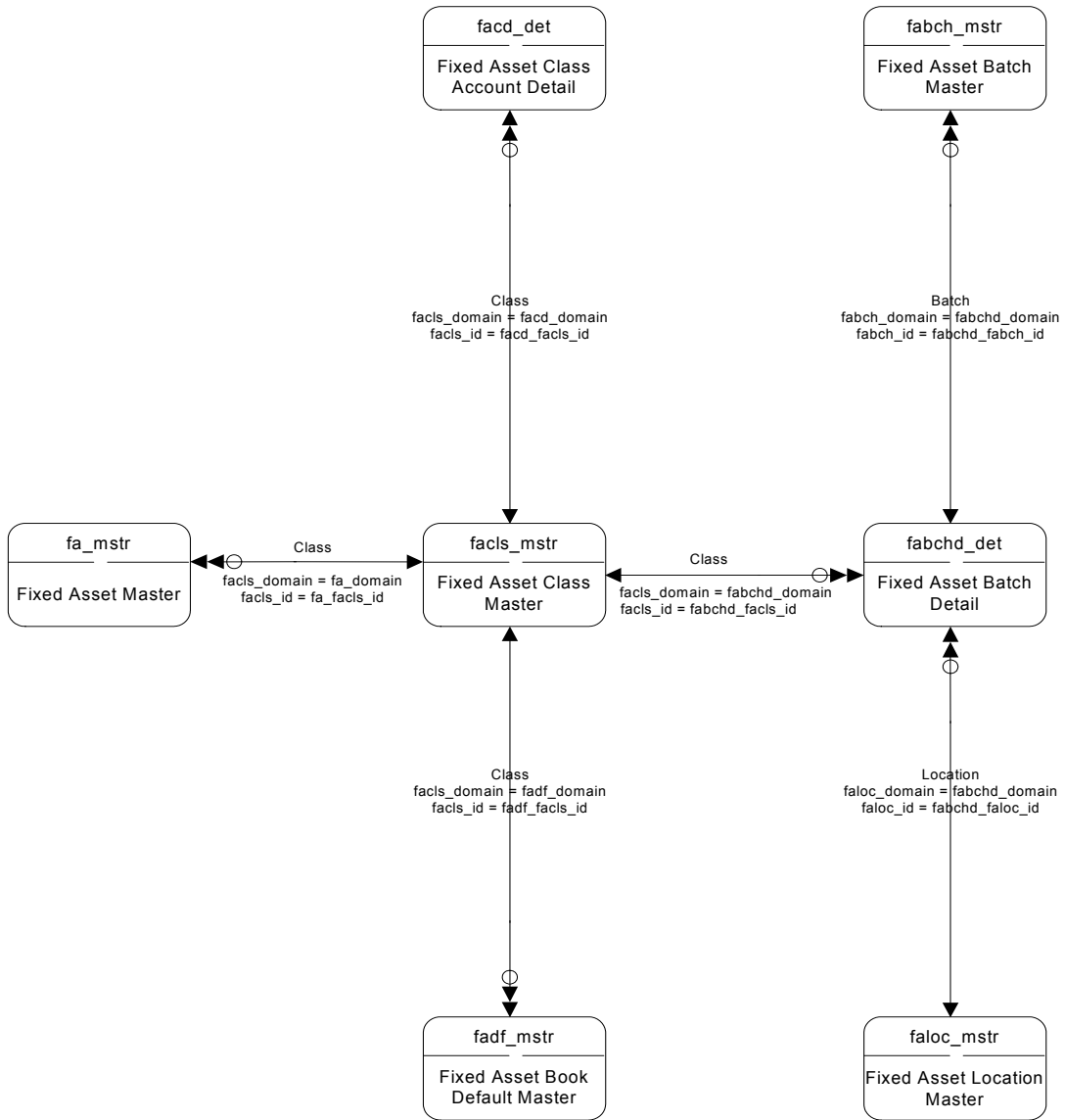
# EMT – Secondary Business Unit



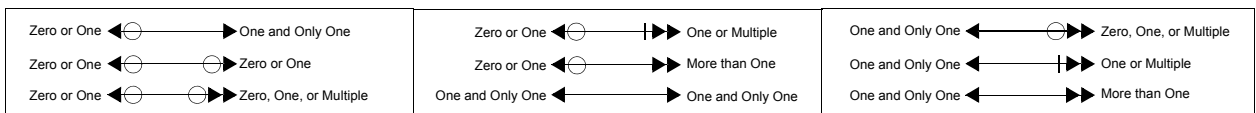
## Fixed Assets I



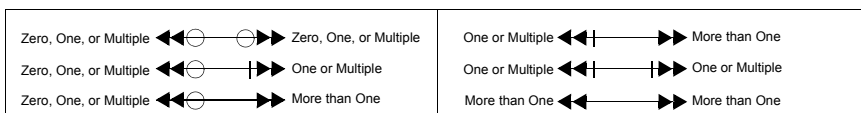
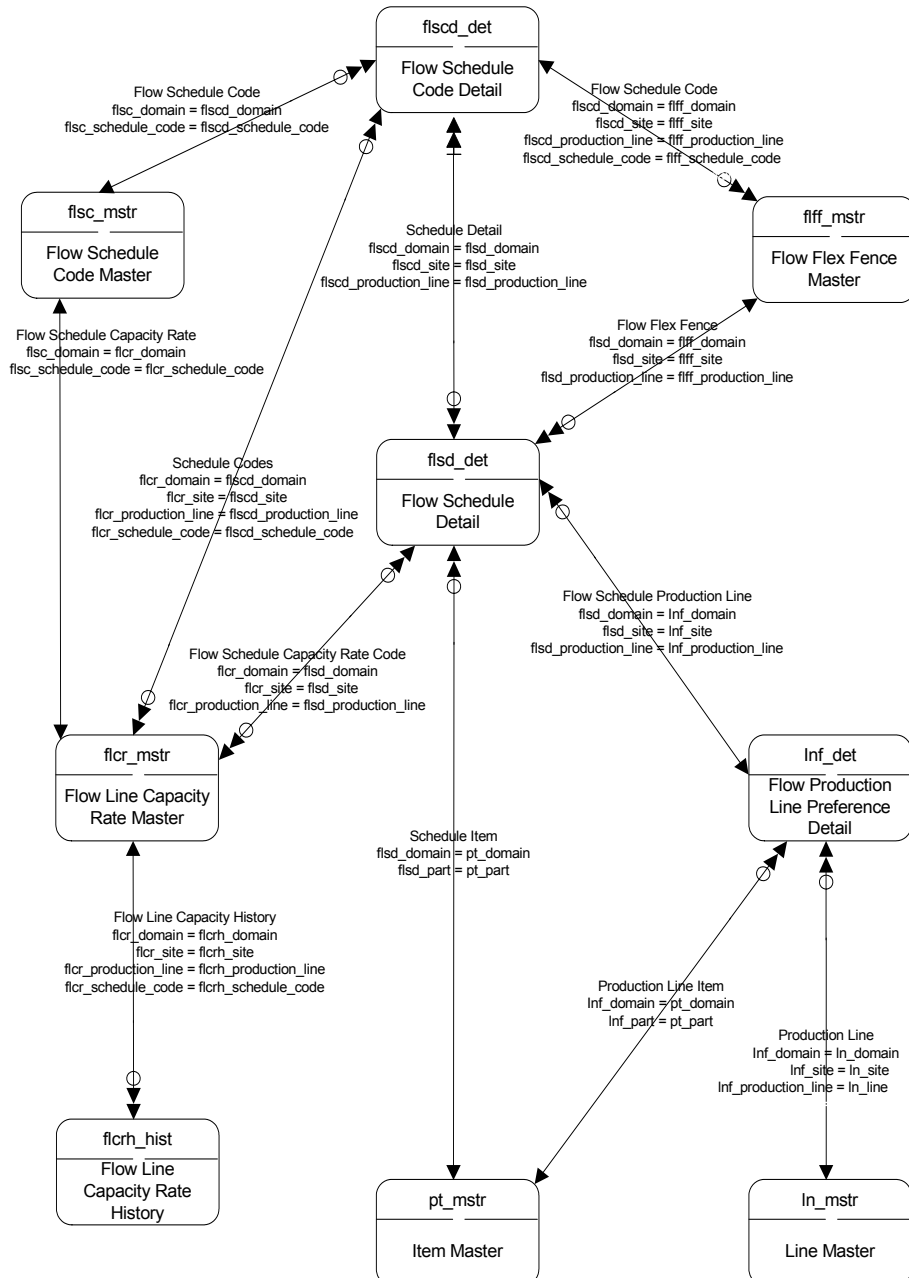
# Fixed Assets II



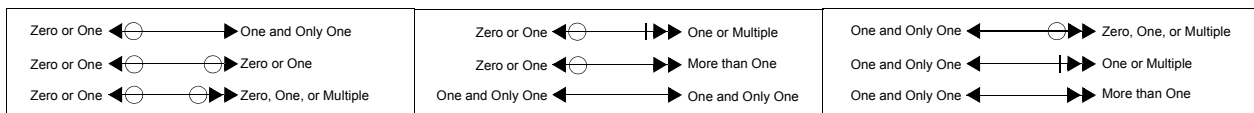
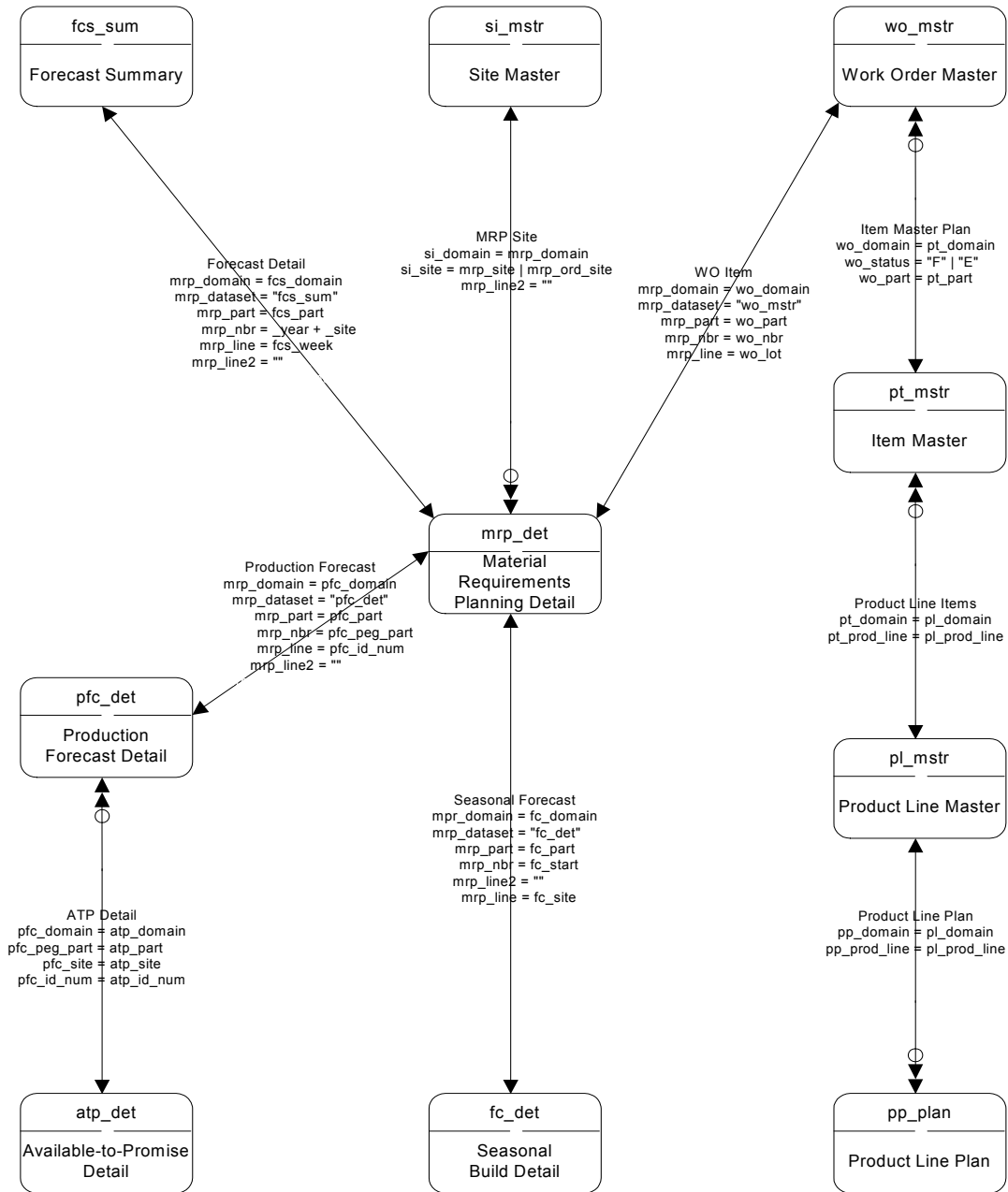
## Fixed Assets III



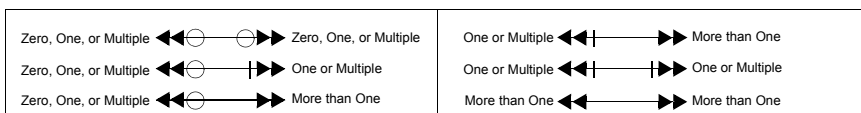
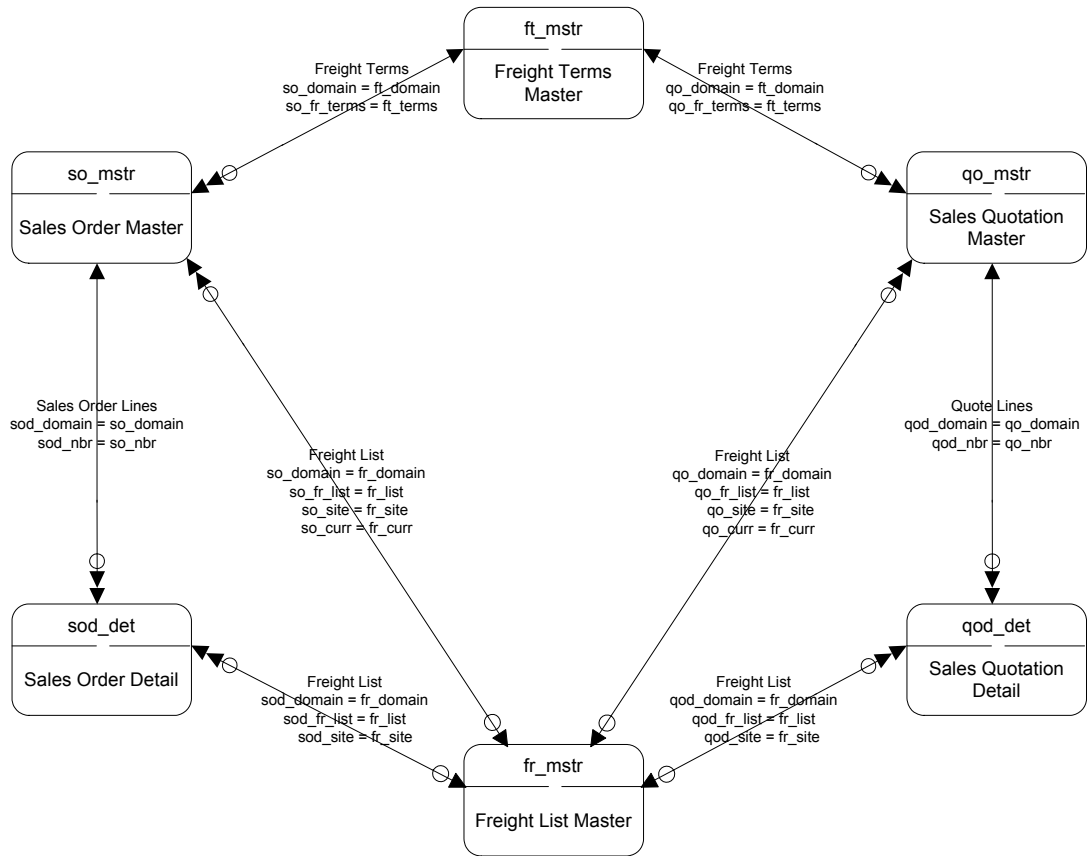
# Flow Scheduling



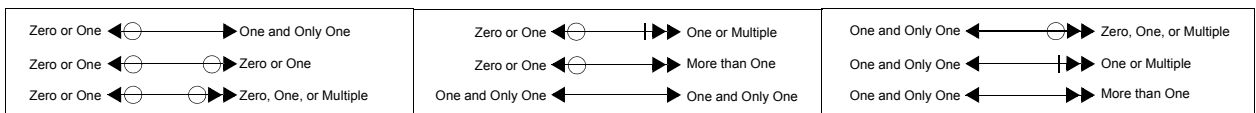
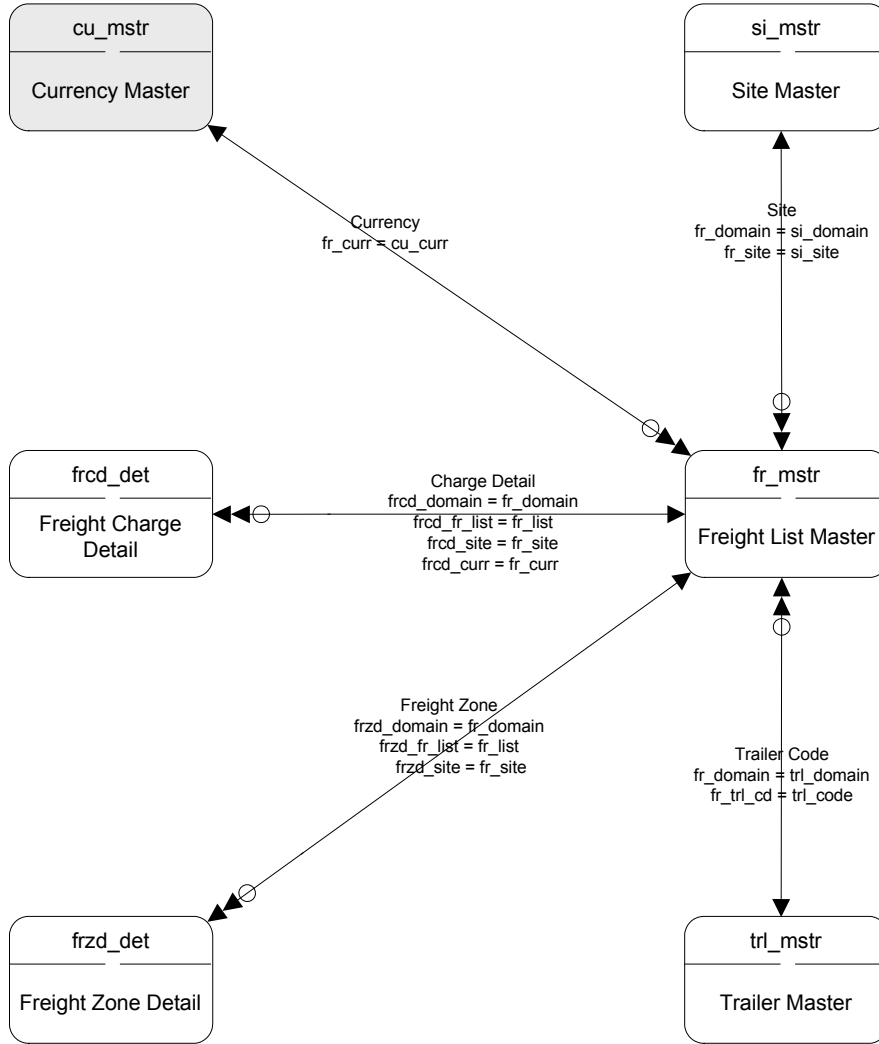
## Forecasting/Planning



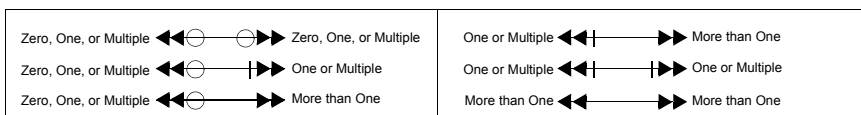
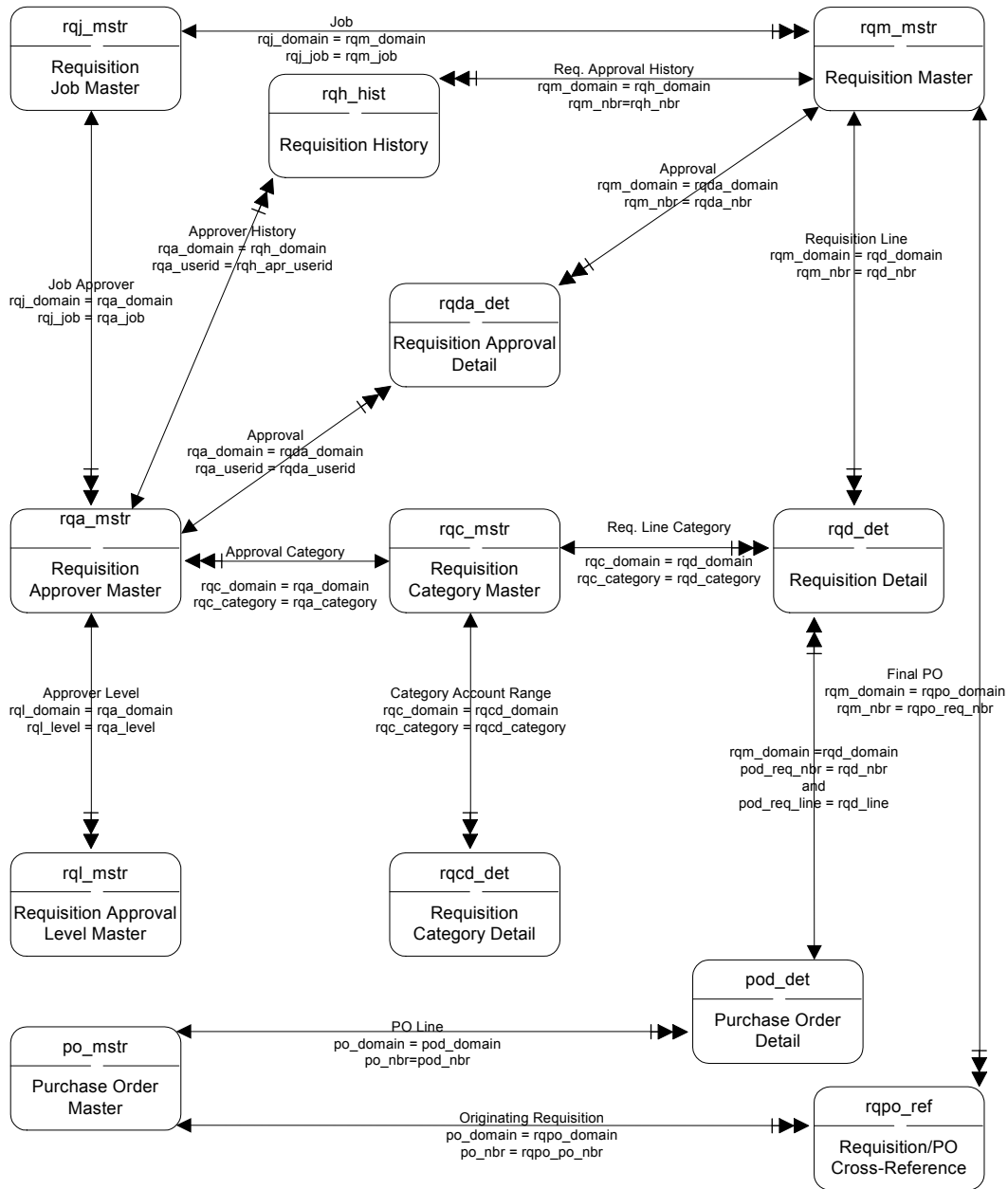
# Freight Charges I



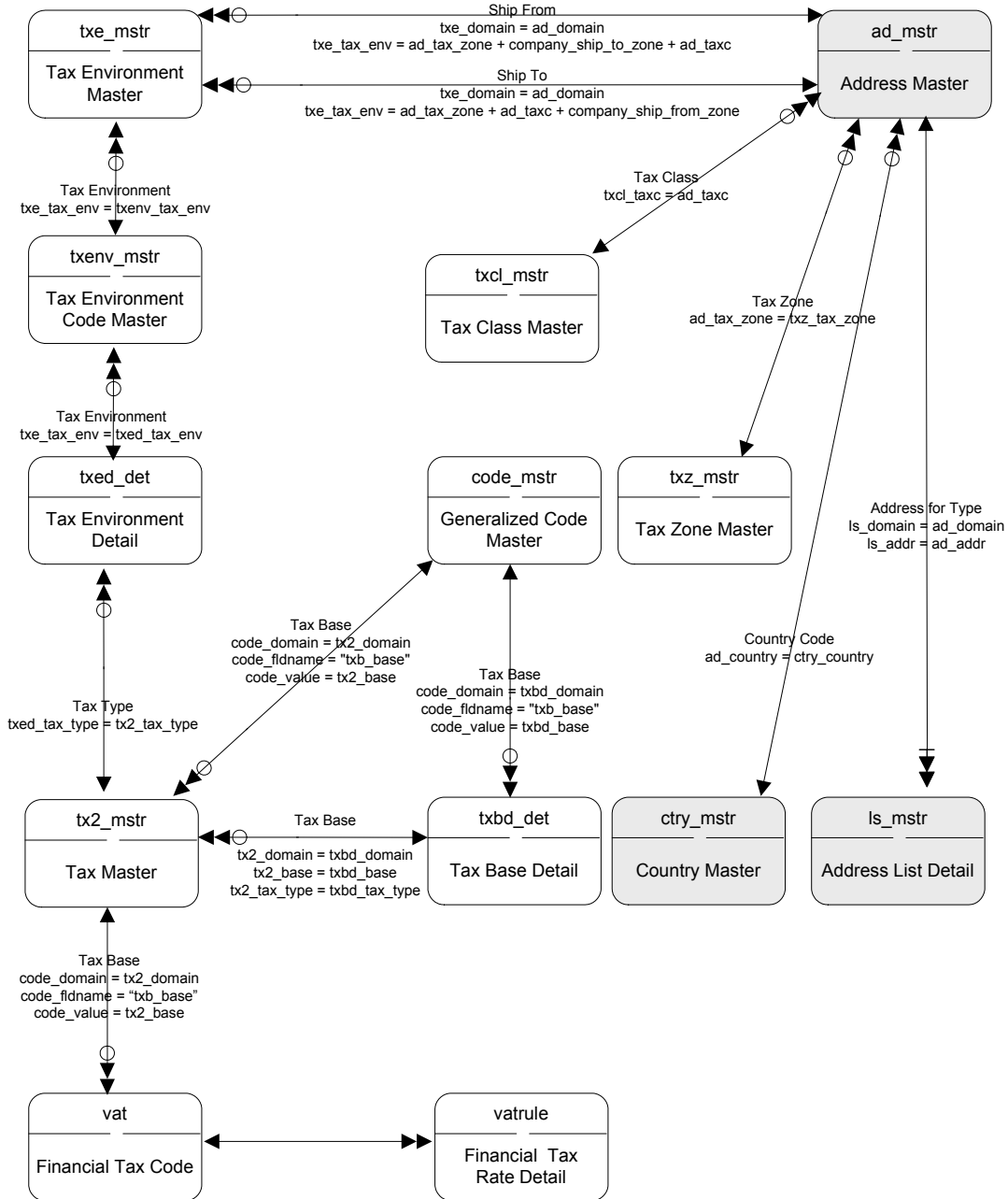
## Freight Charges II



# Global Requisition System

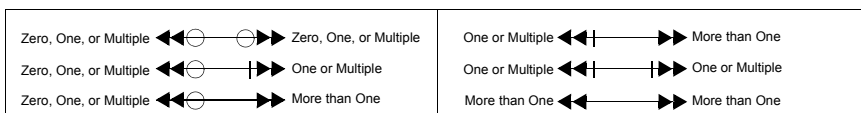
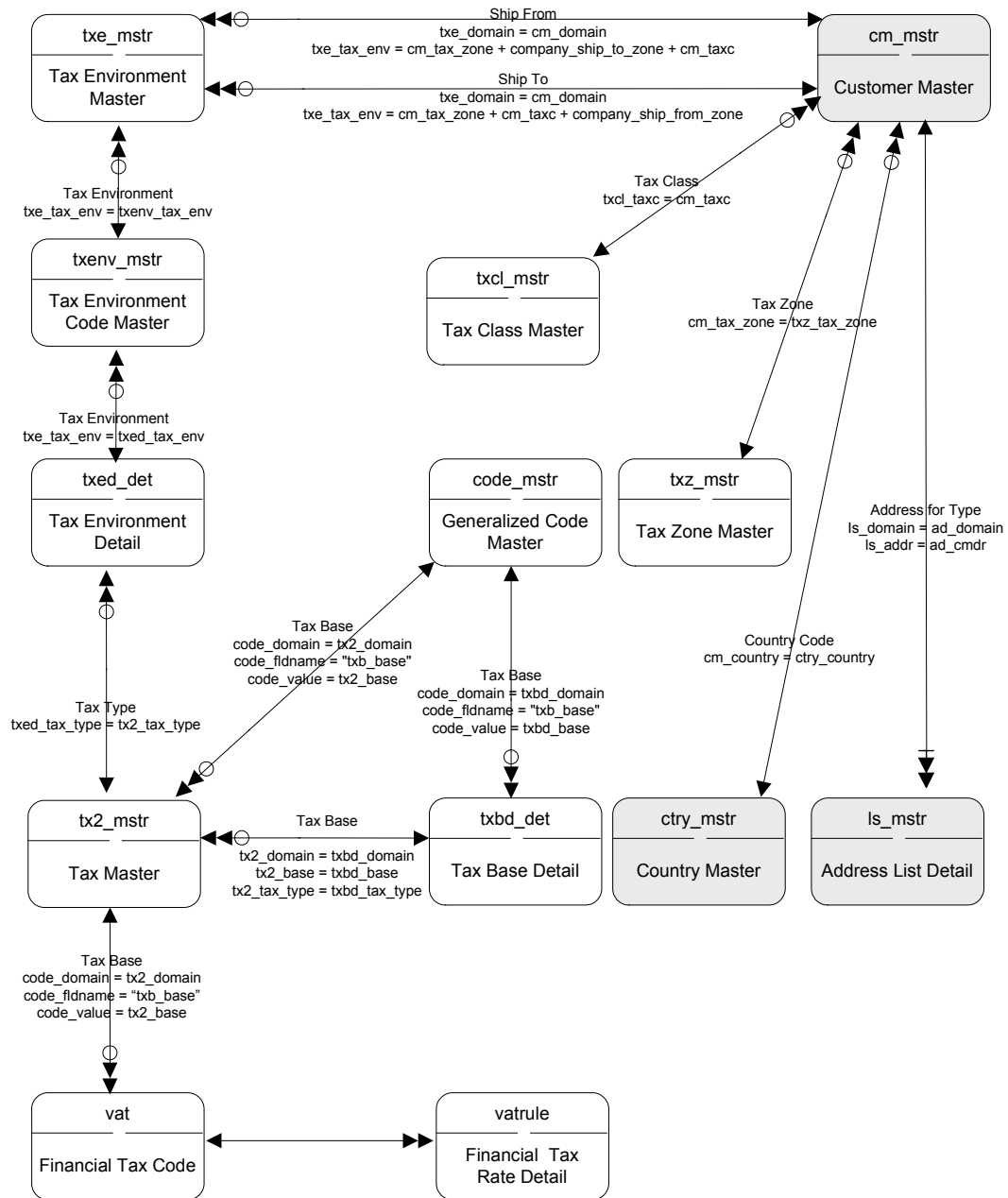


## GTM Address Master Data

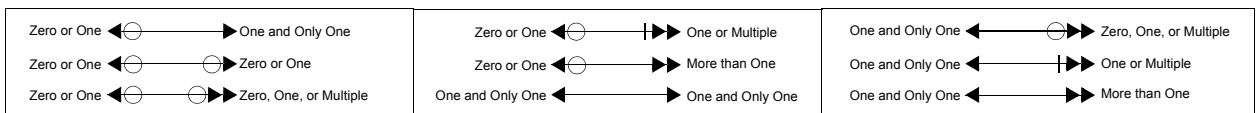
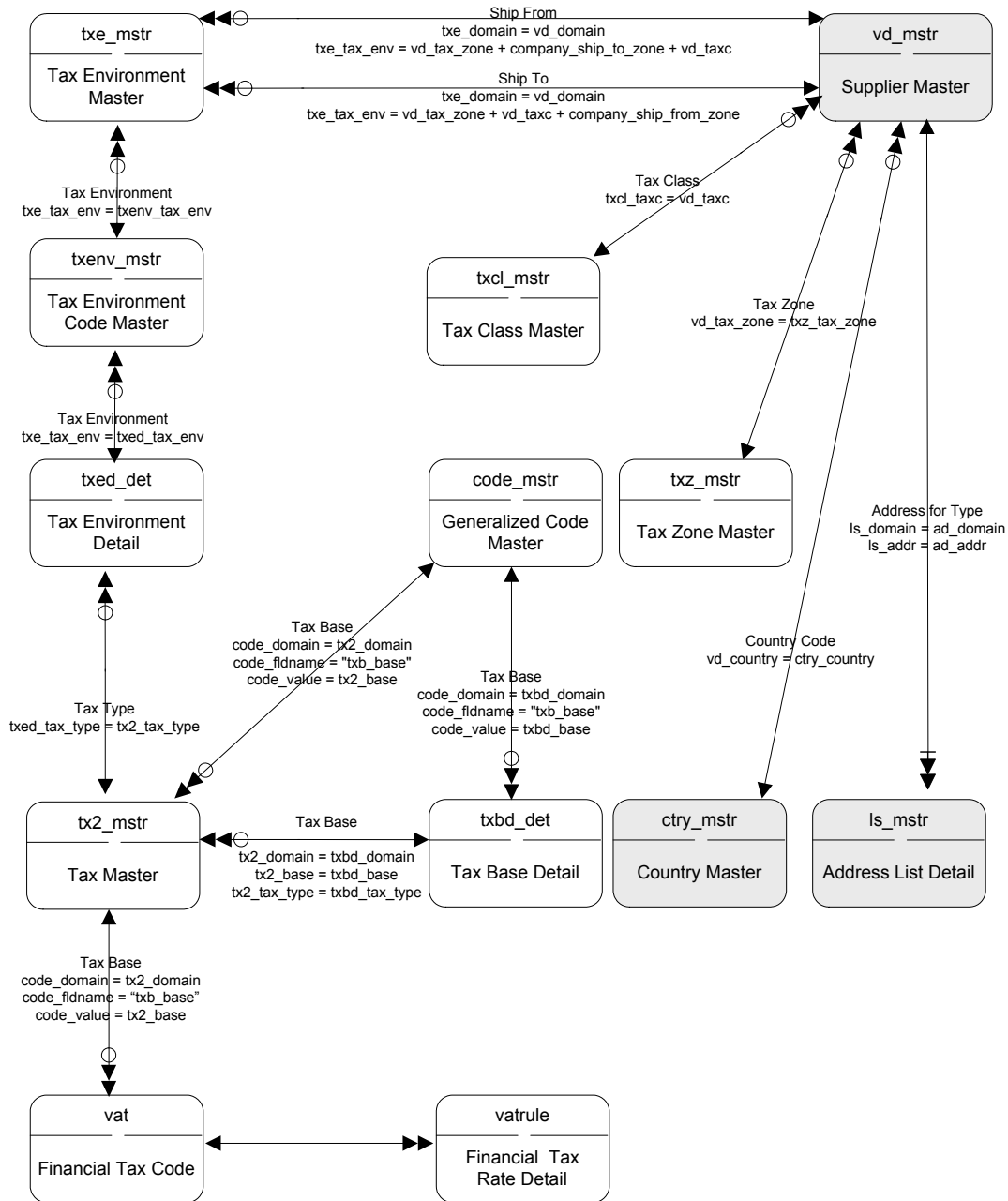


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \rightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \rightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow \circ$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow \circ$ One and Only One	One and Only One $\leftarrow \ominus \dashv \rightarrow \circ$ More than One

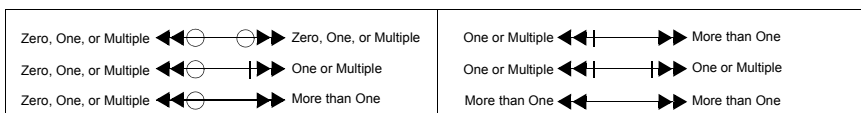
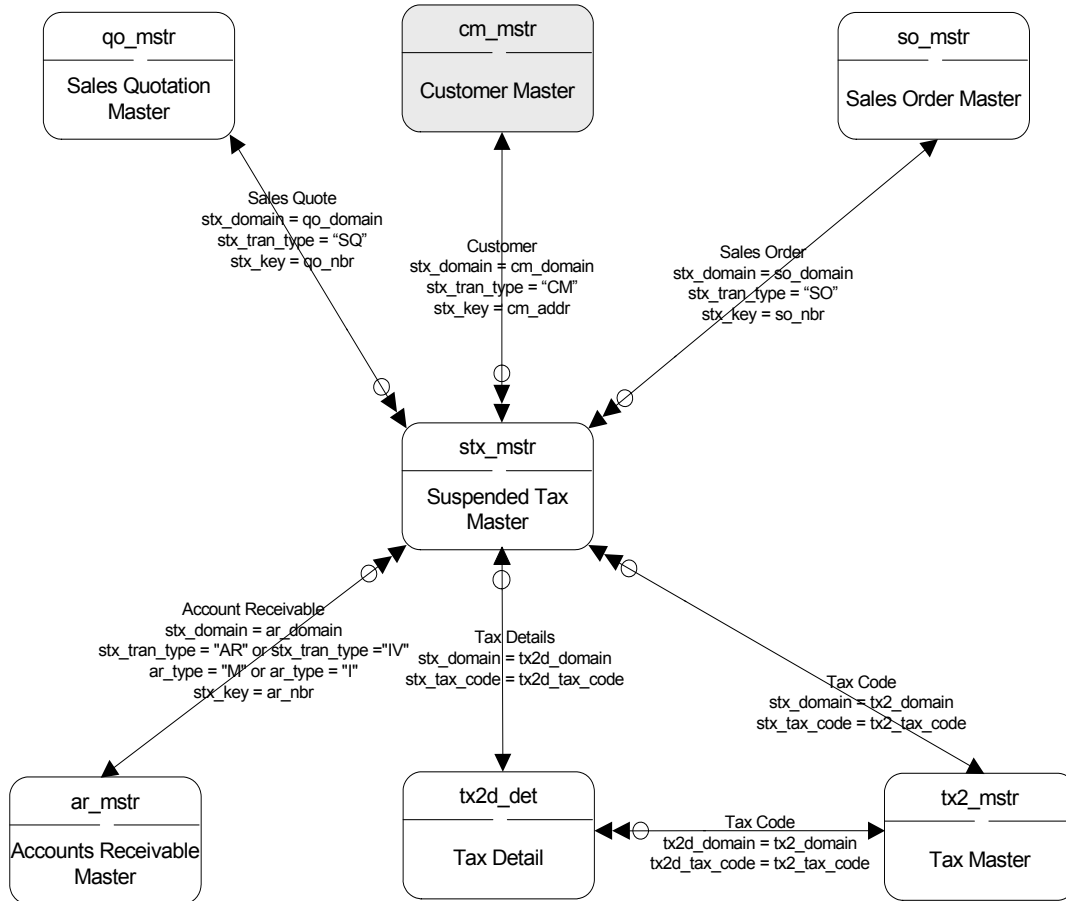
# GTM Customer Master Data



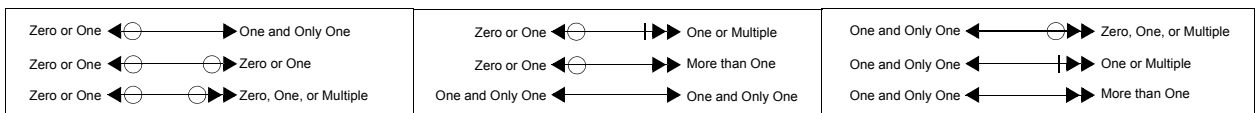
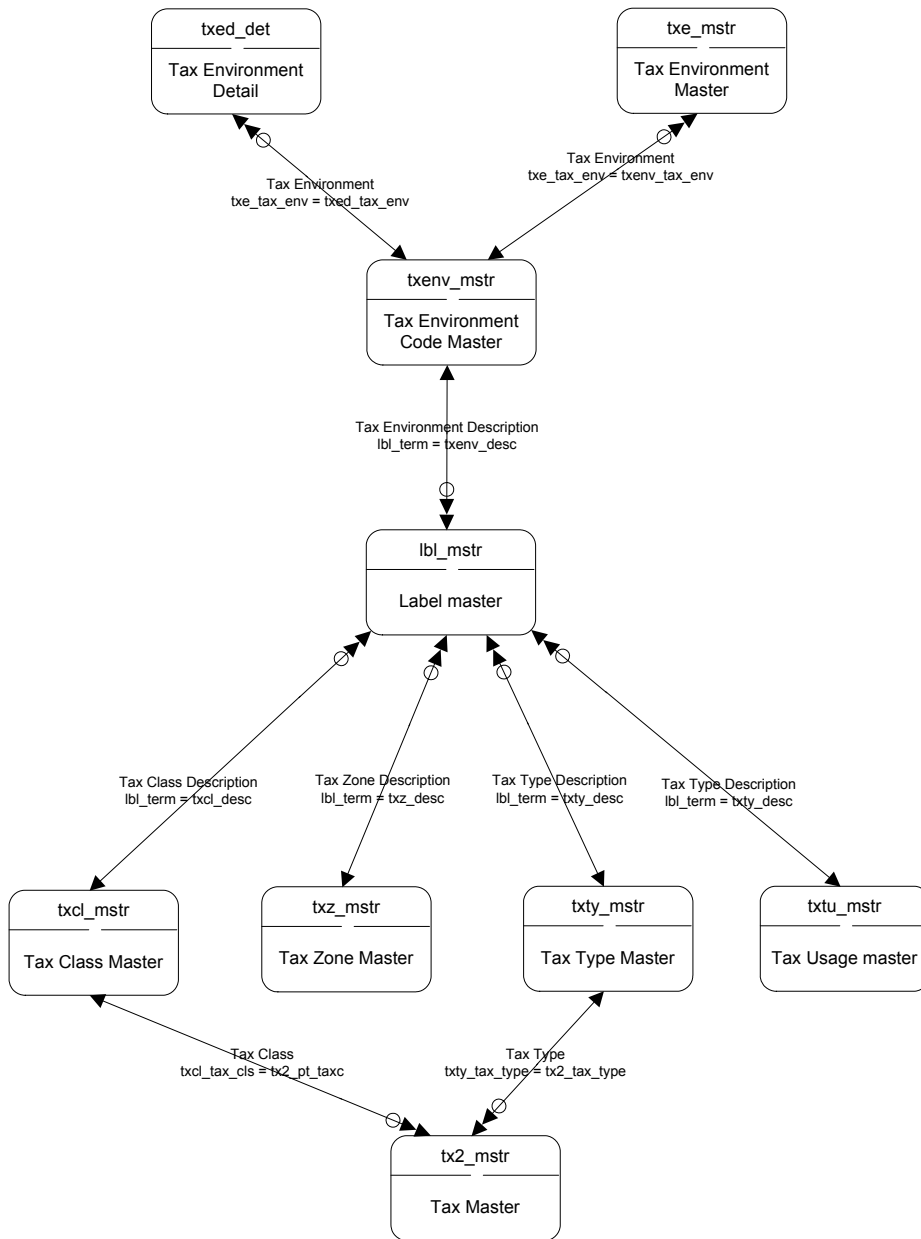
## GTM Supplier Master Data



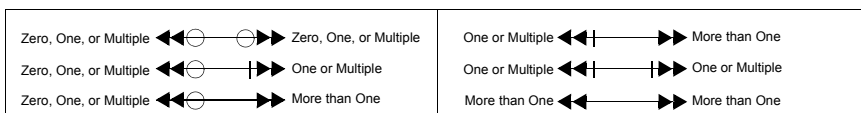
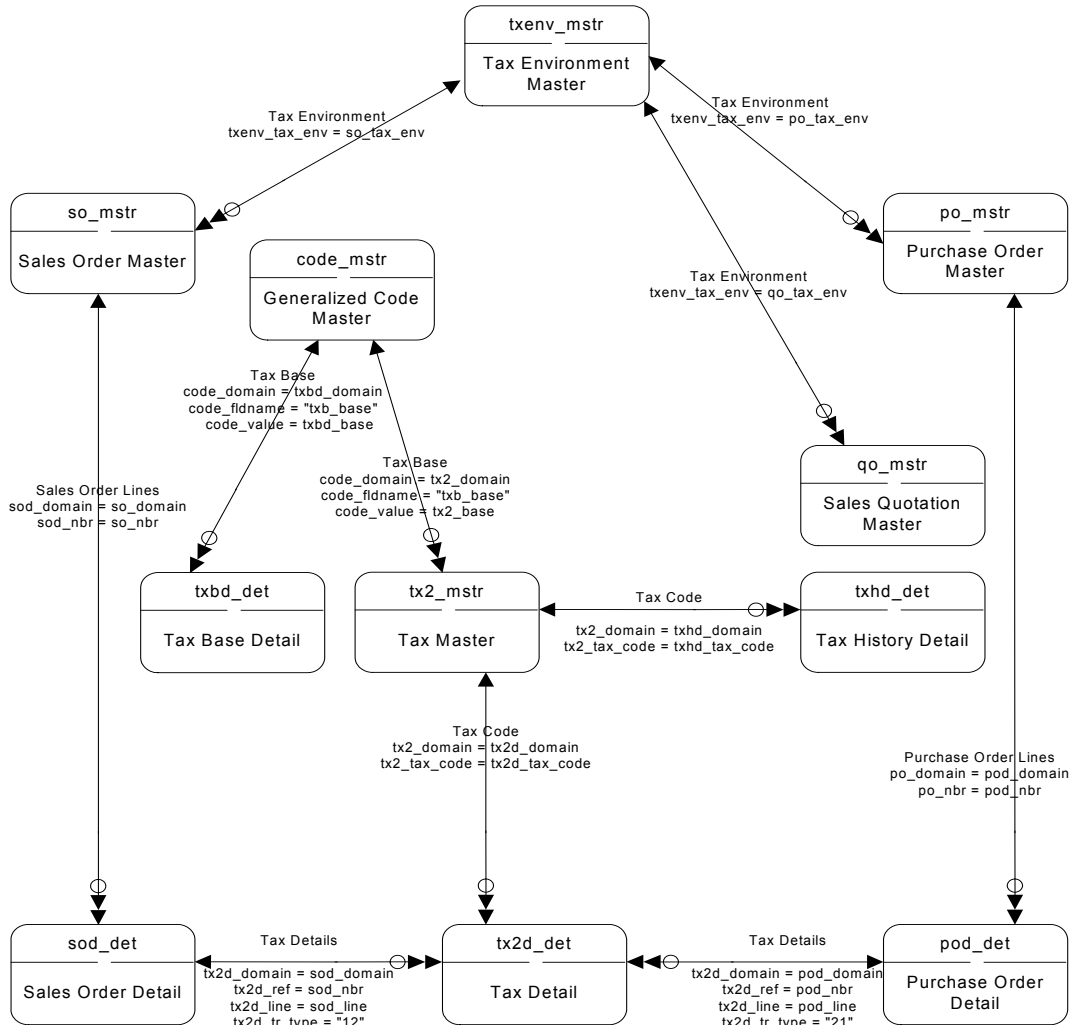
# GTM Suspended Tax



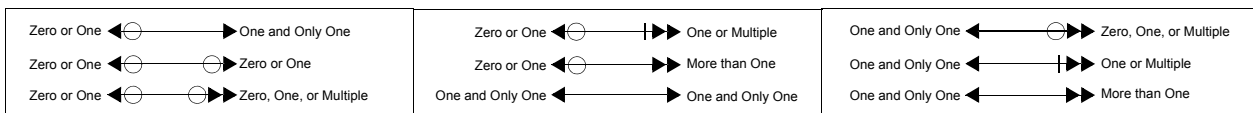
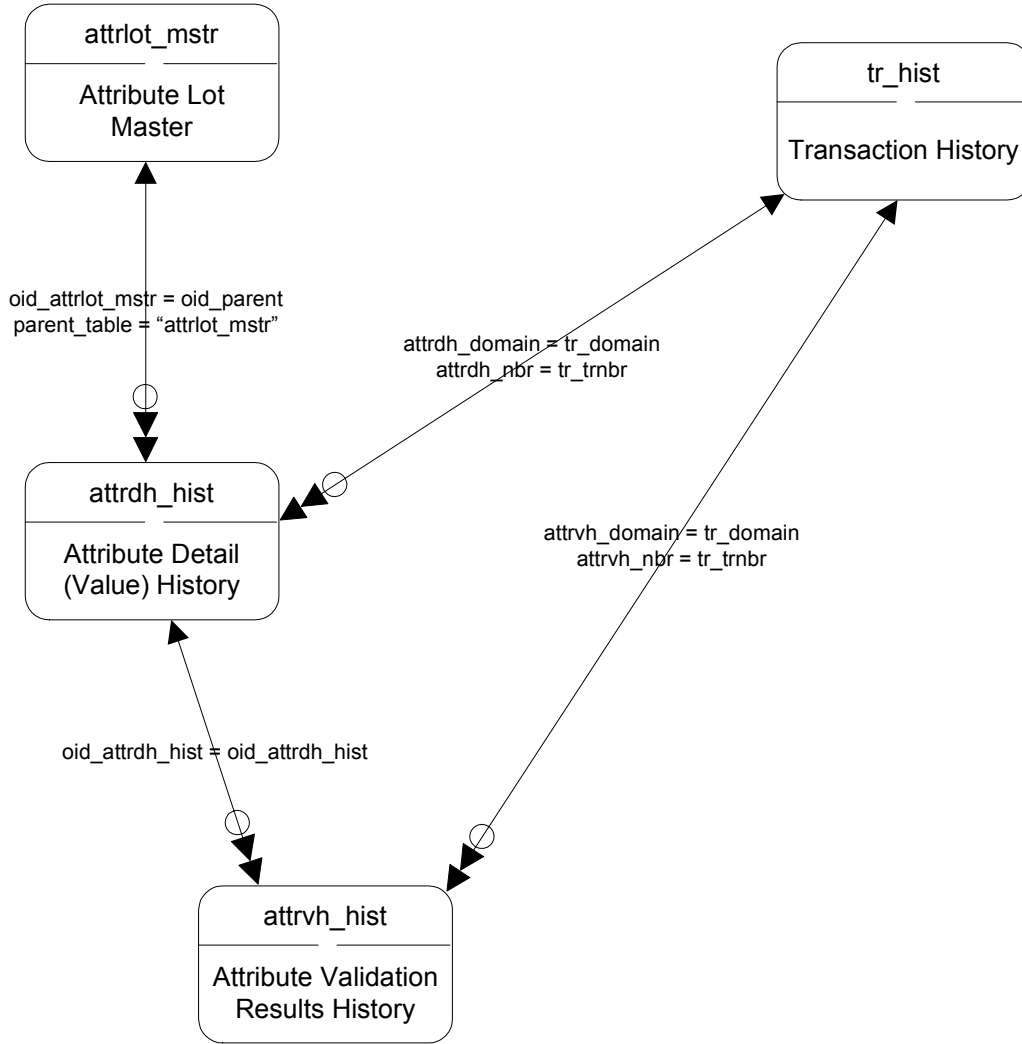
## GTM Tax Master Data



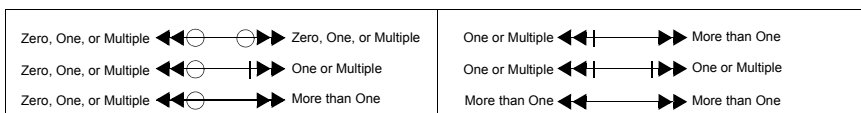
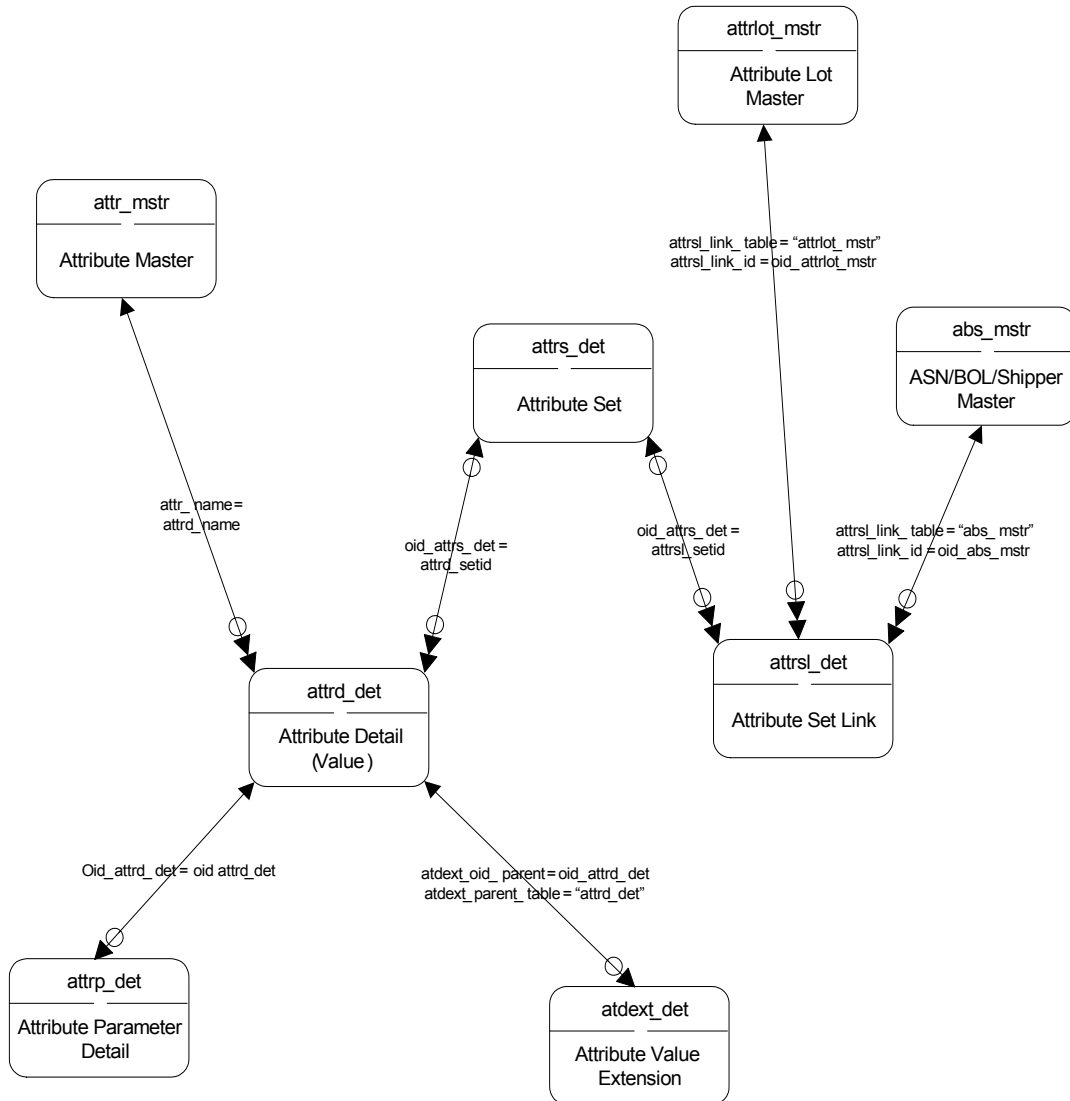
# GTM Transactions



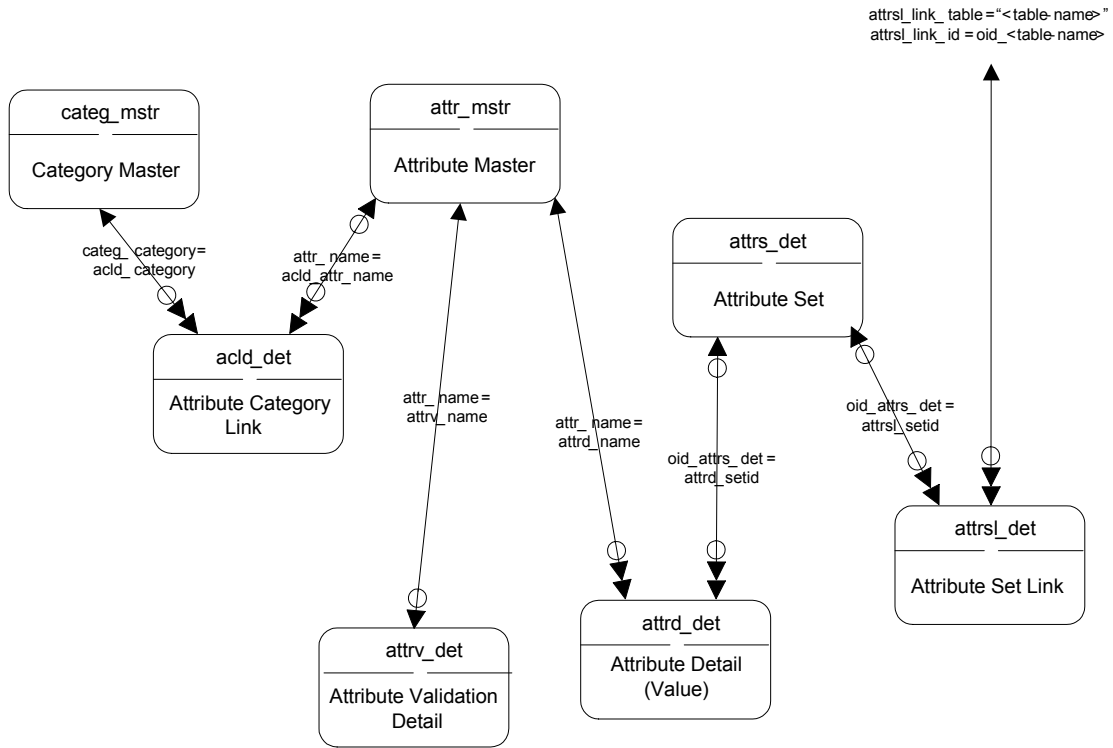
## IAQ - Attribute Value History



# IAQ - Attribute Values

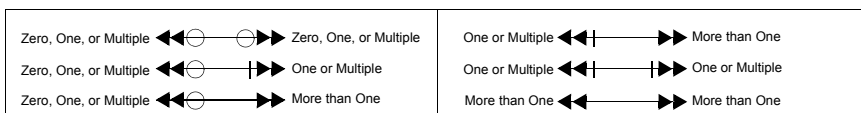
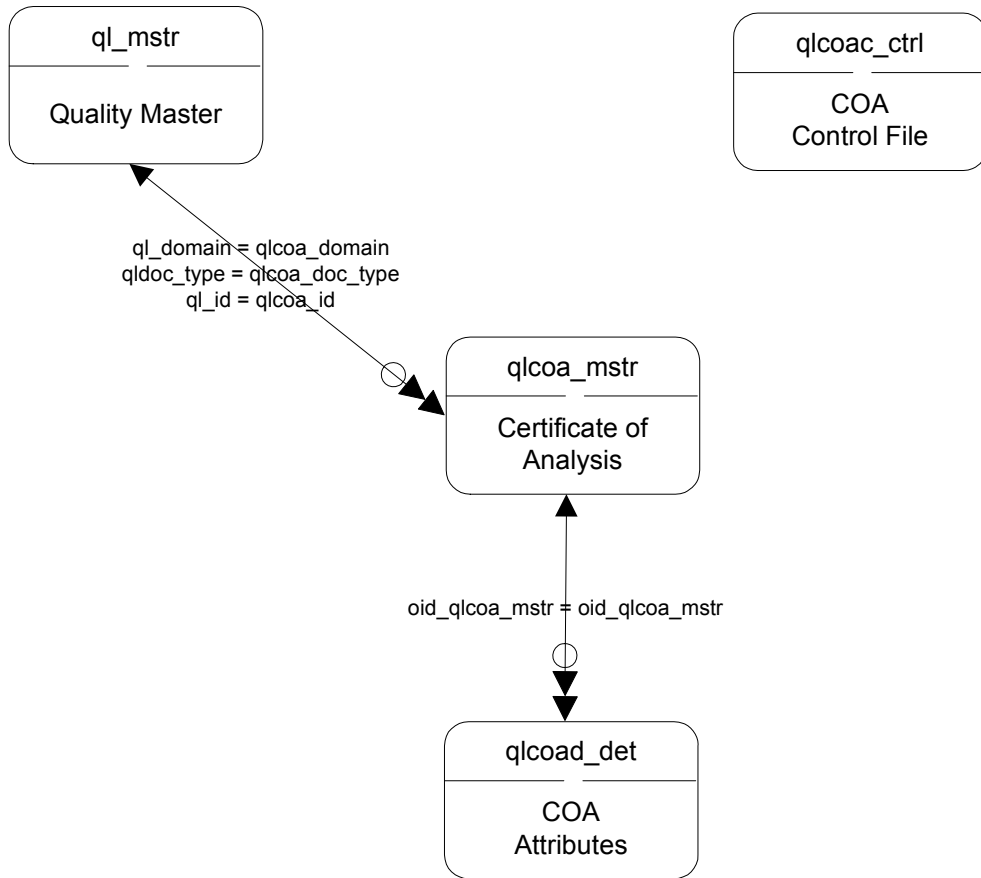


## IAQ - Attributes Business Service

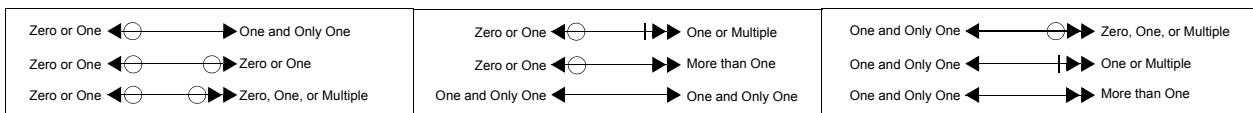
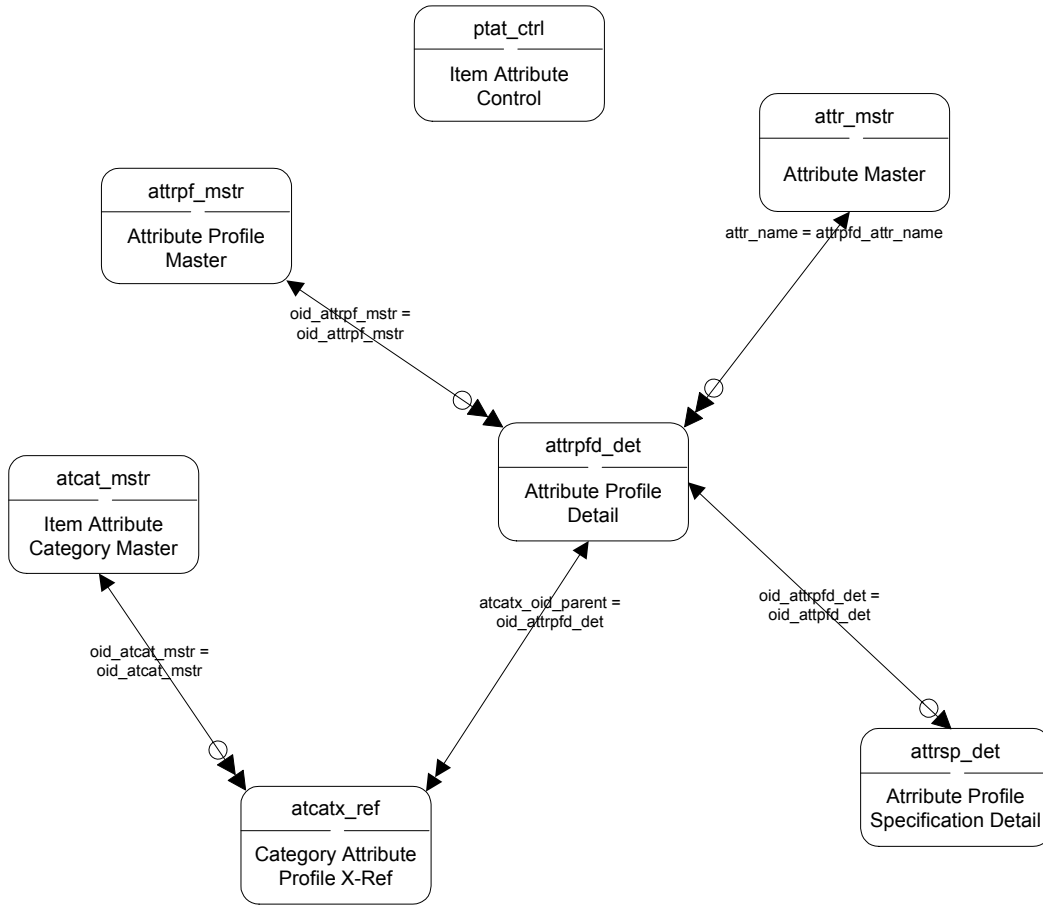


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv \dashv$ More than One

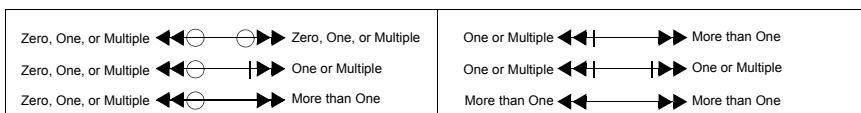
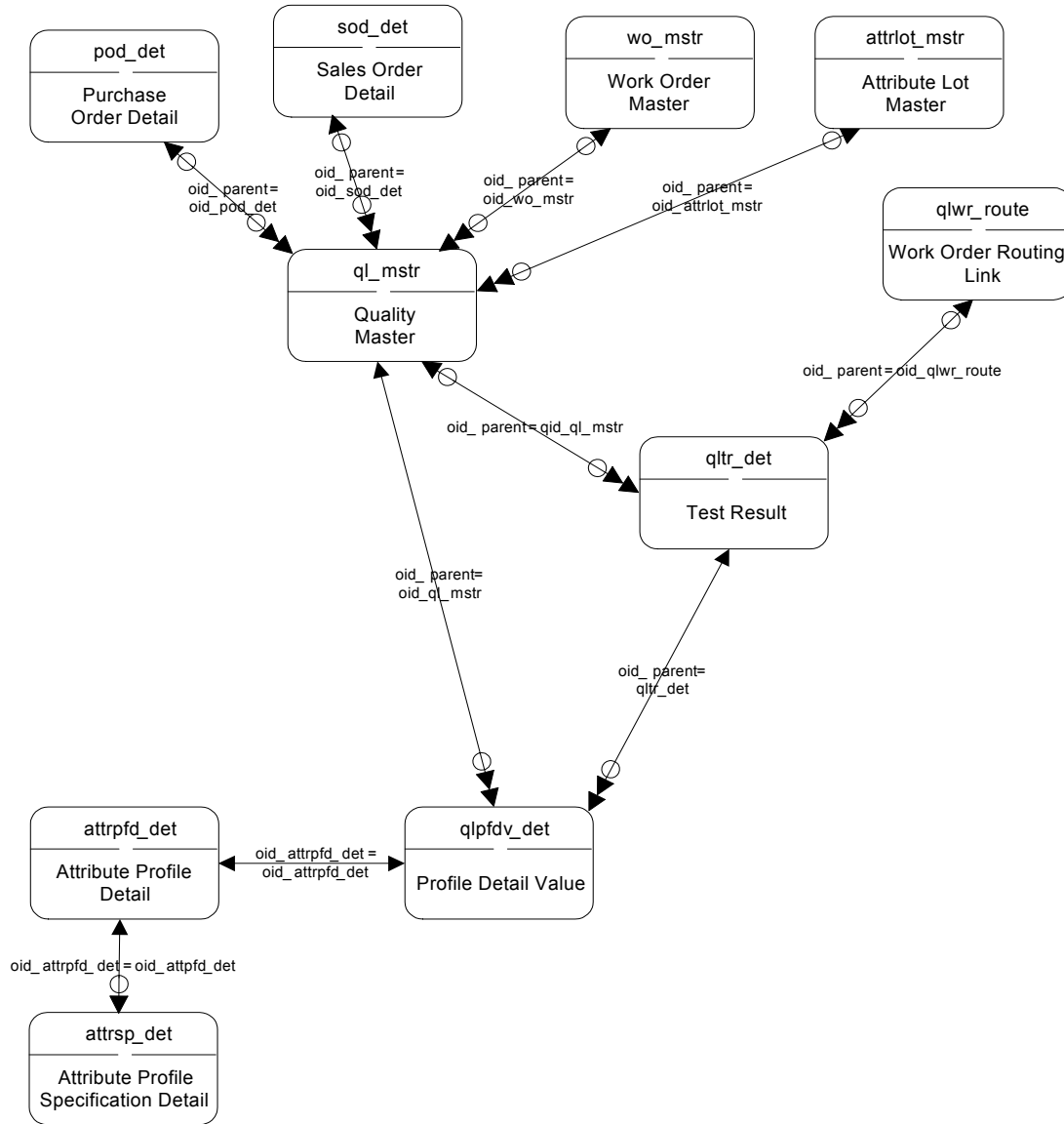
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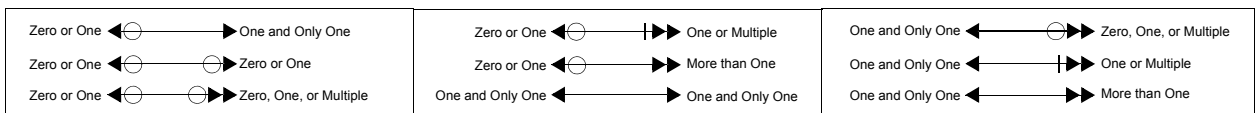
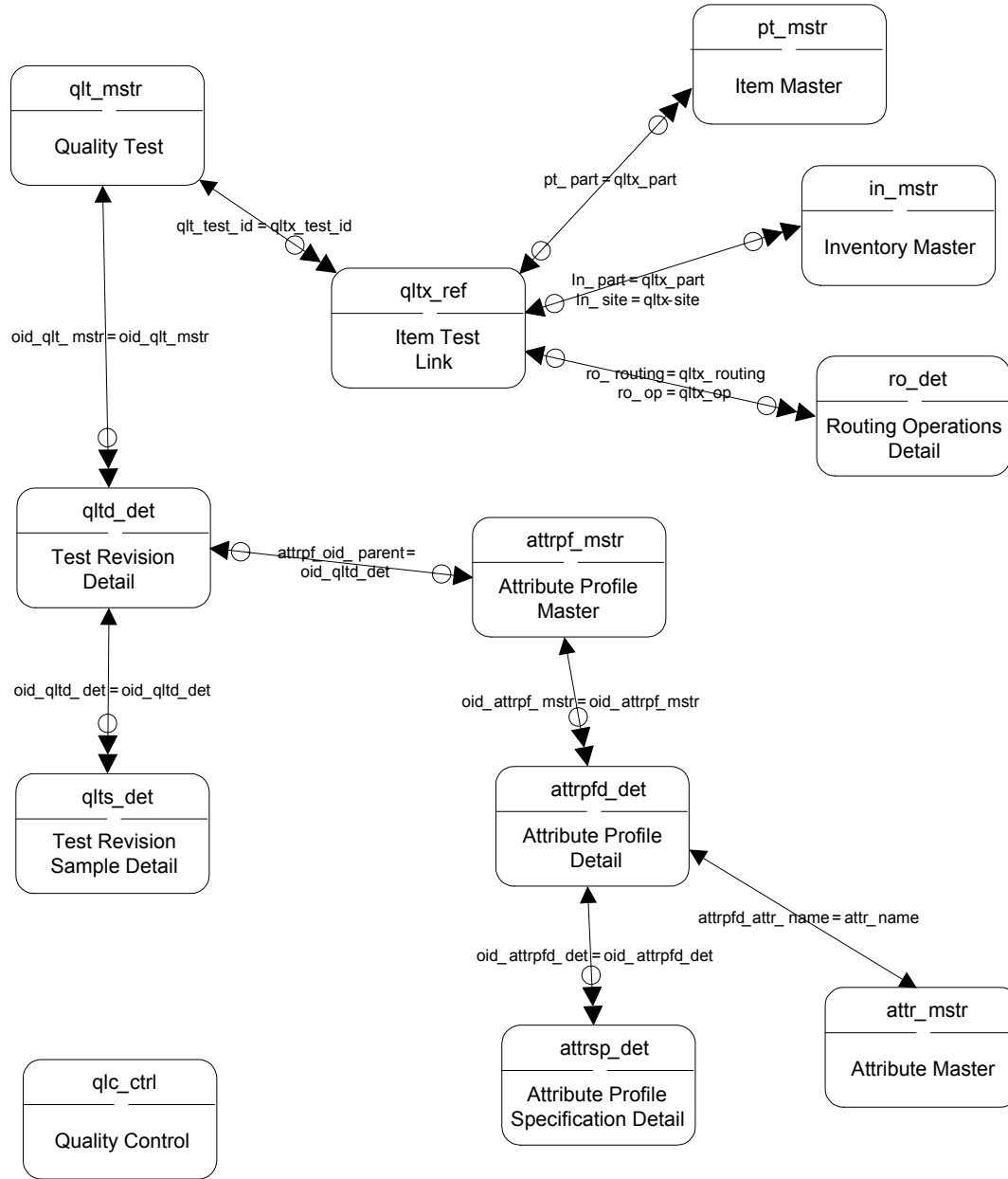
## IAQ - Item Attribute Profiles



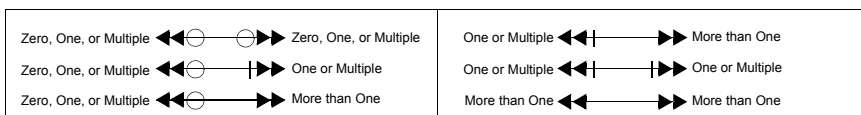
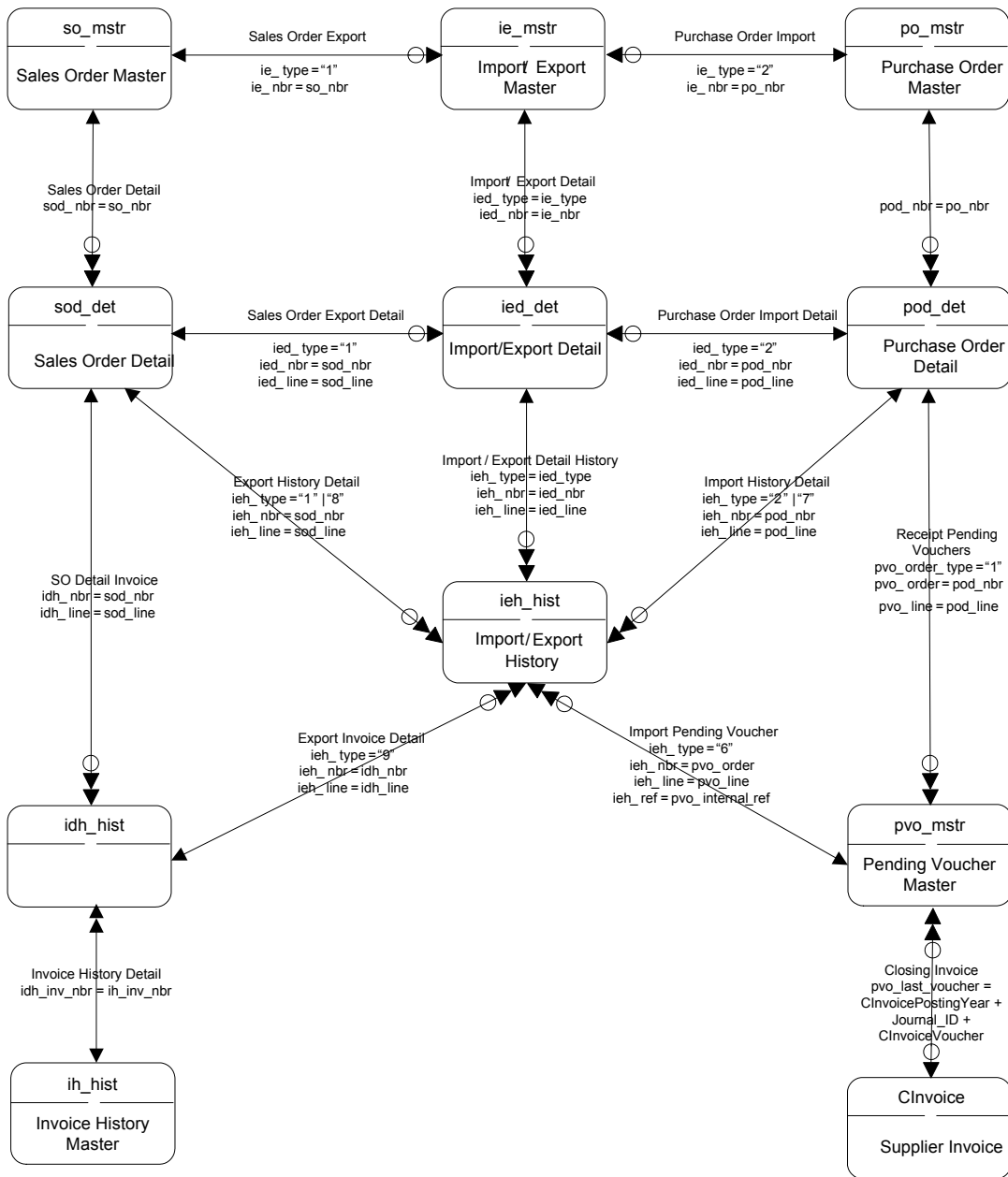
# IAQ - Quality Orders



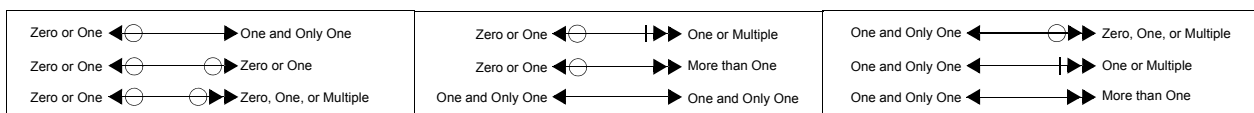
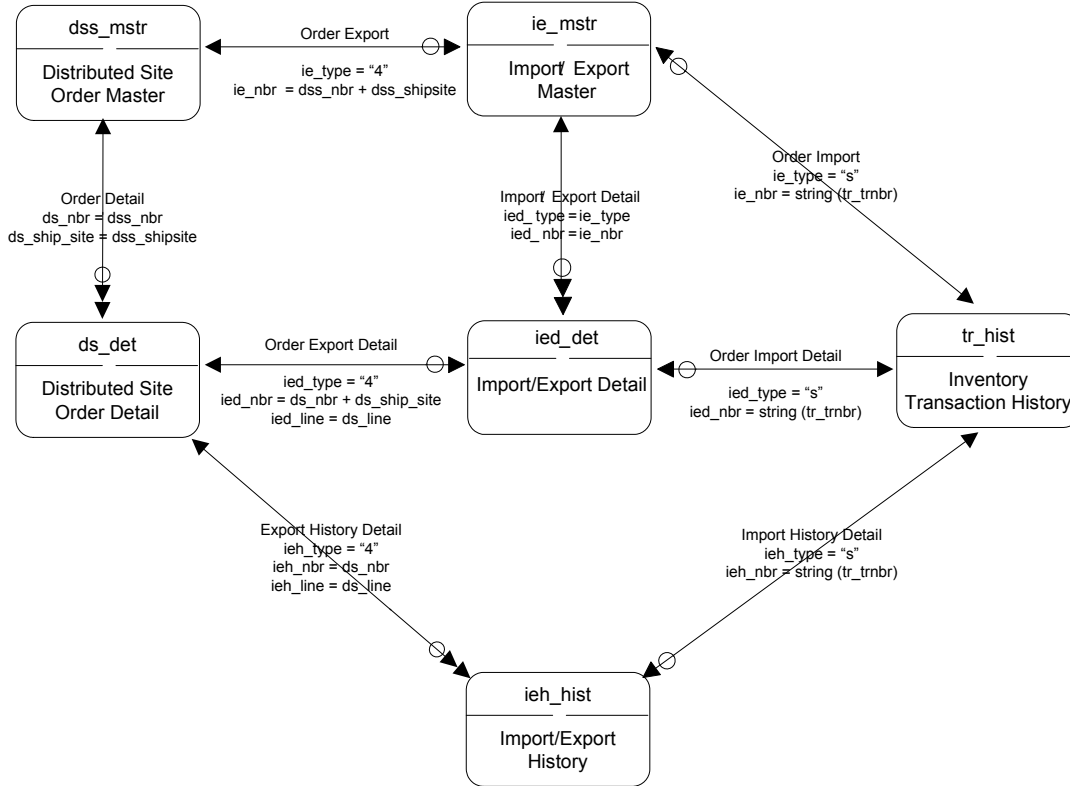
## IAQ - Quality Setup



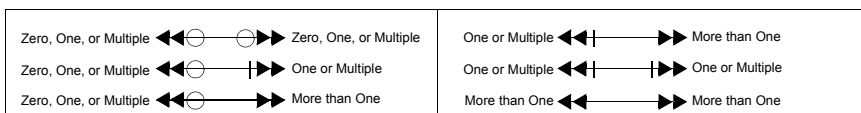
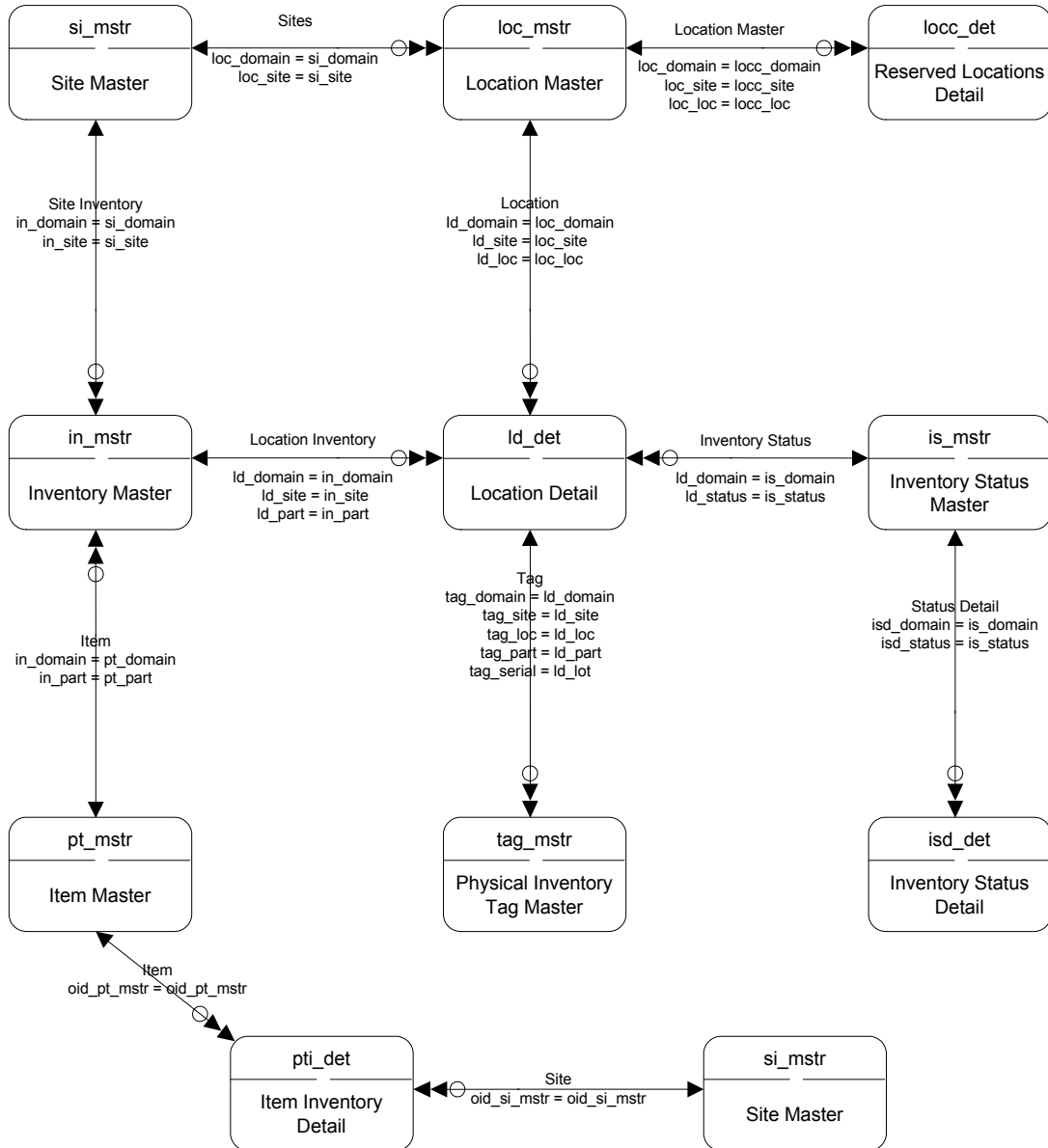
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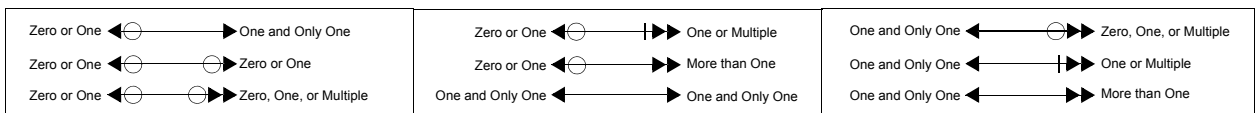
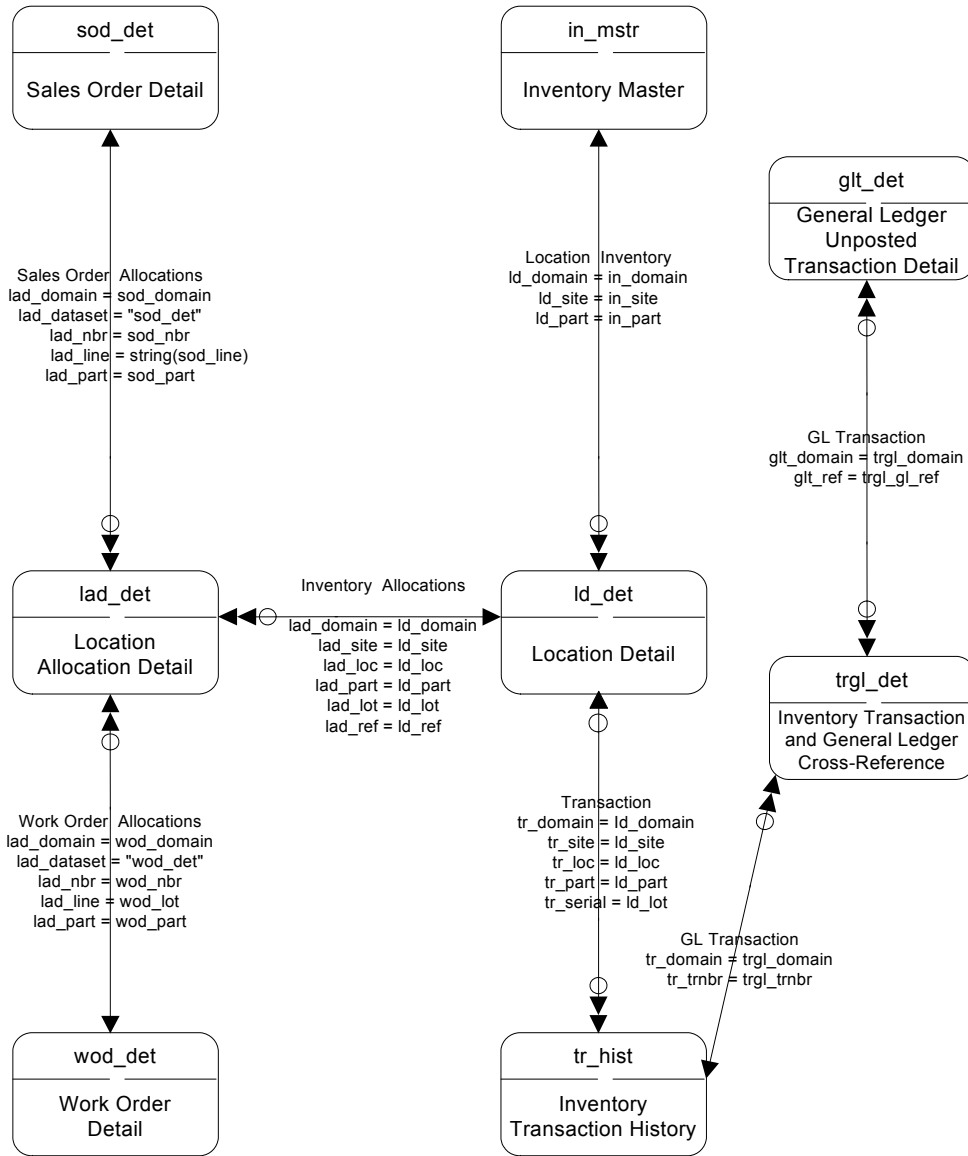
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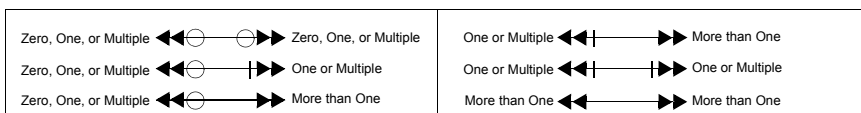
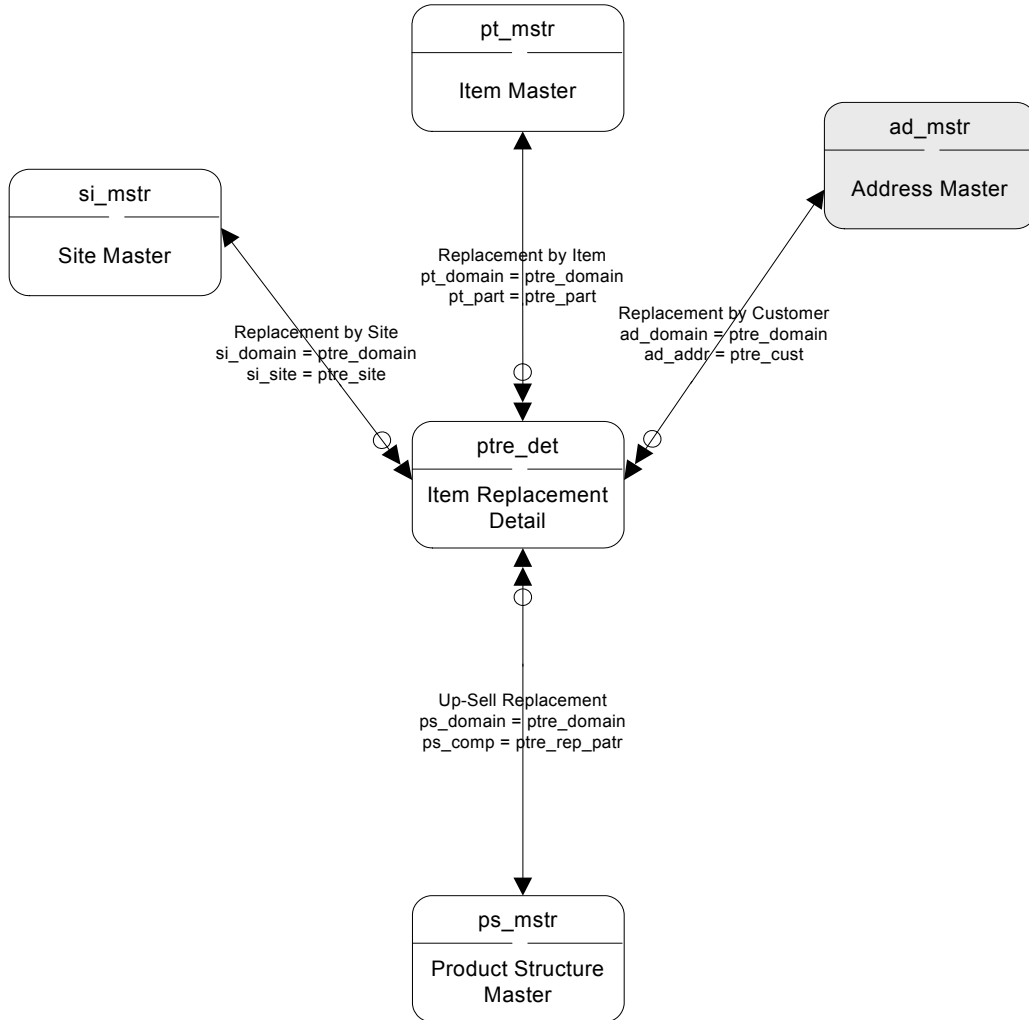
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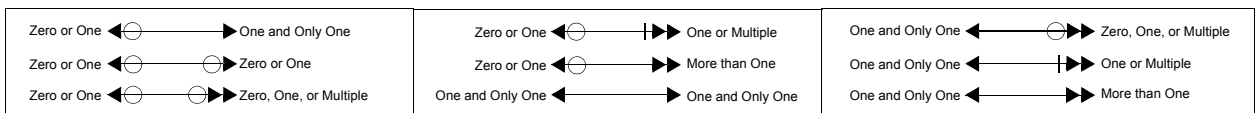
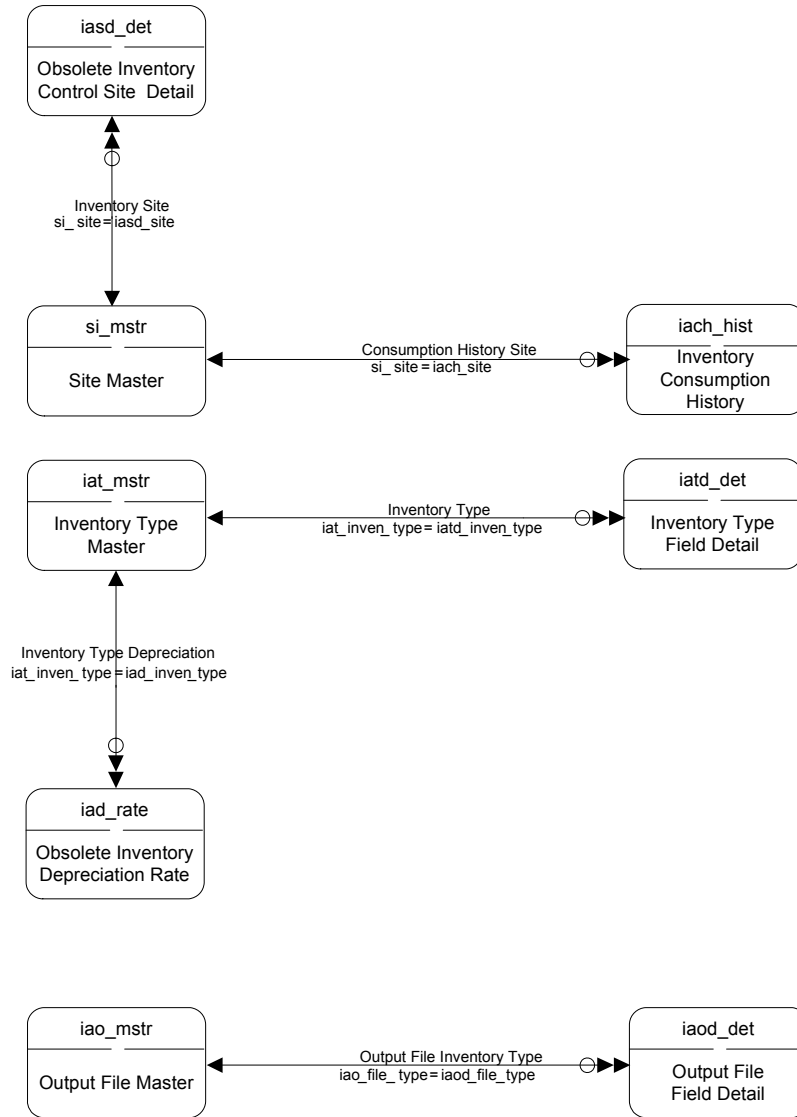
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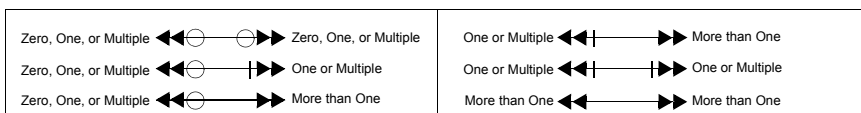
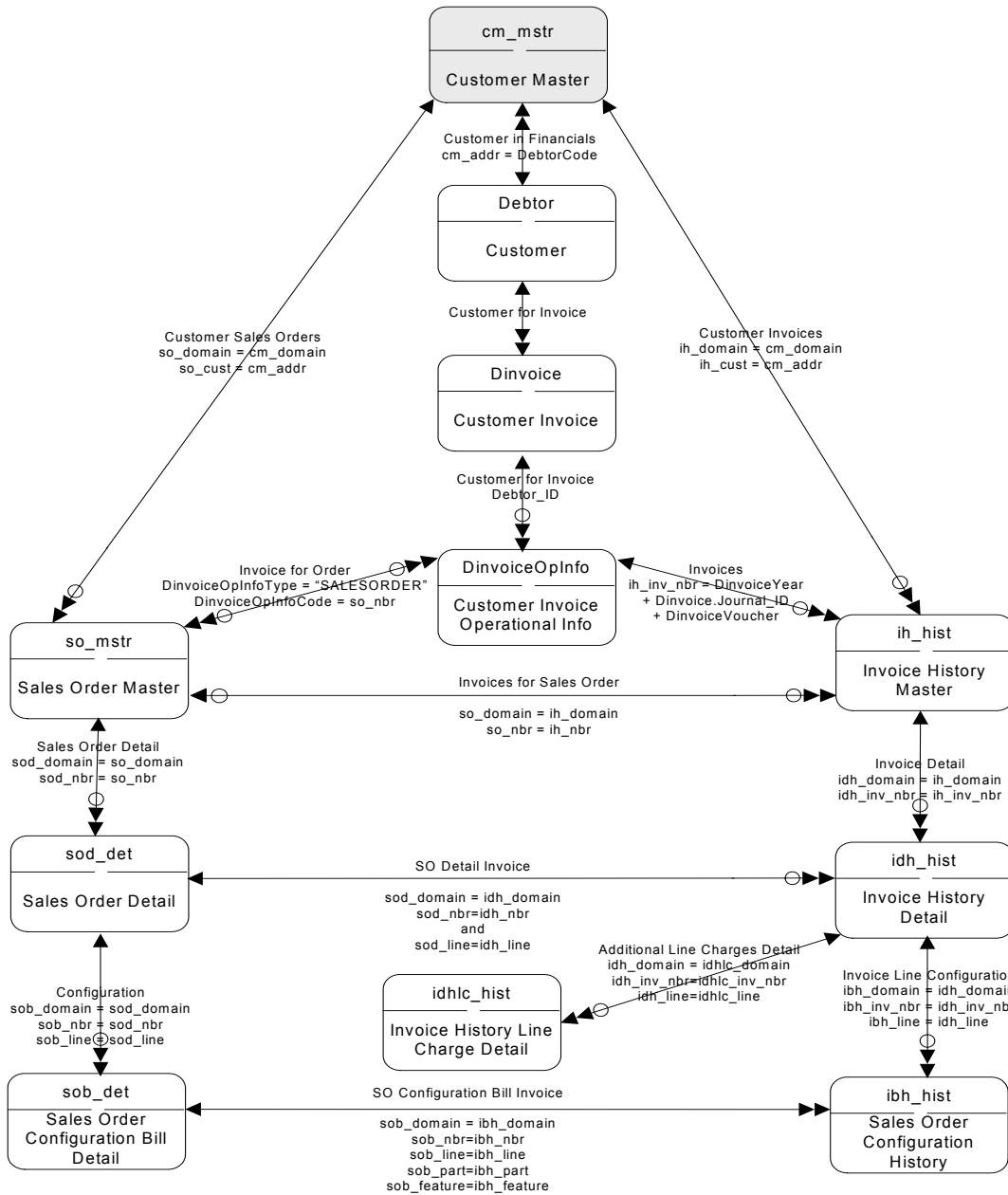
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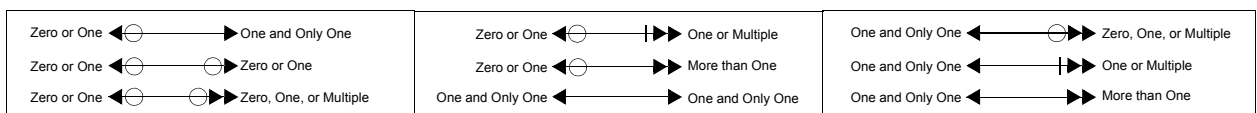
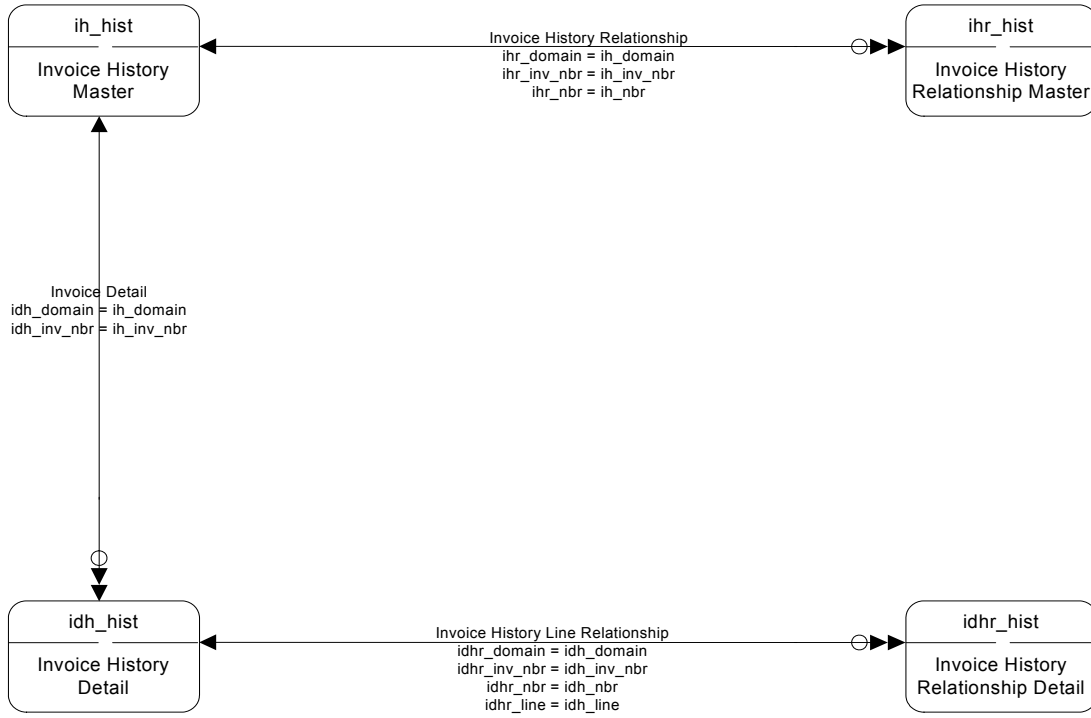
# Inventory IV



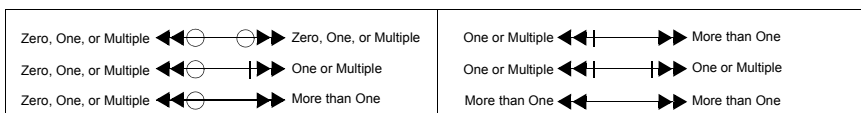
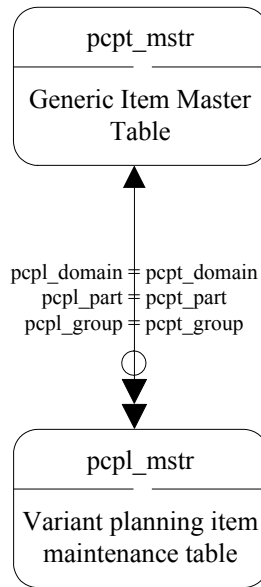
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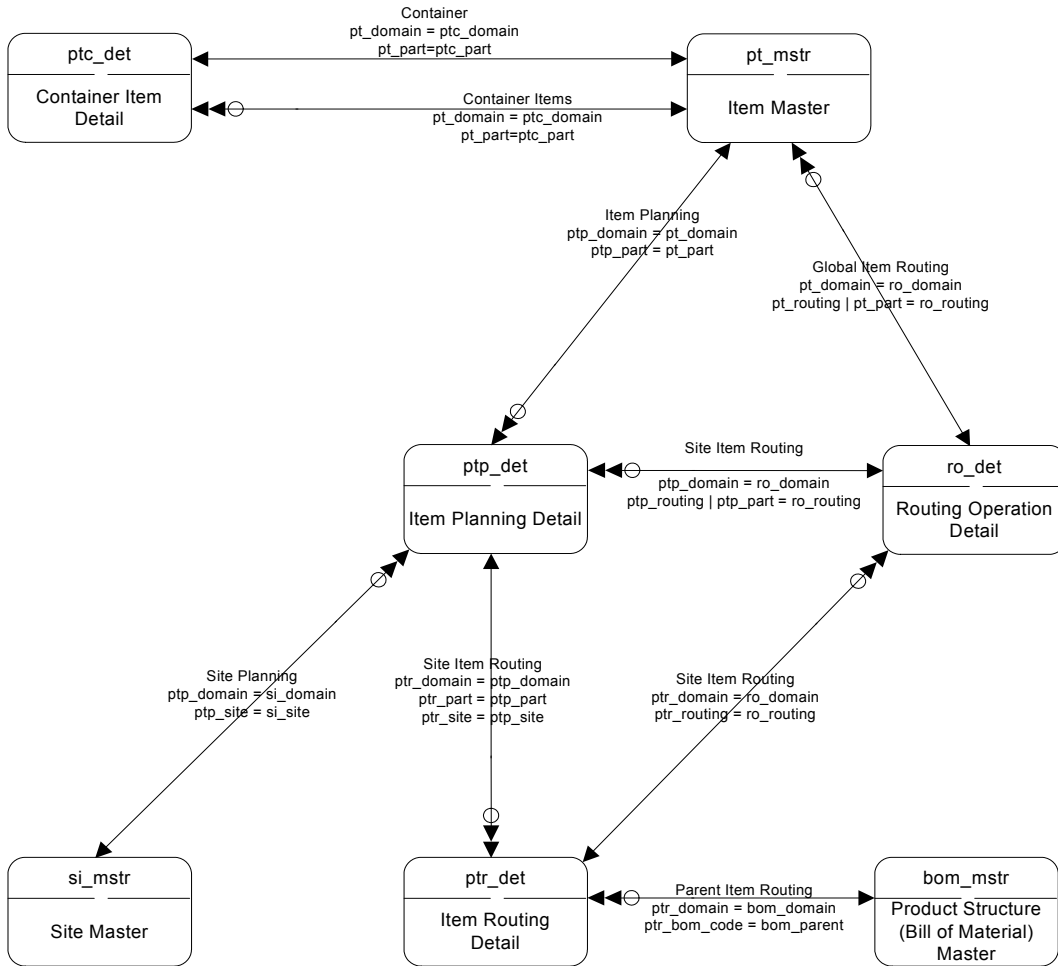
## Invoice History II



# Item Planning

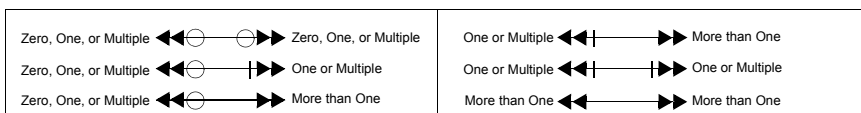
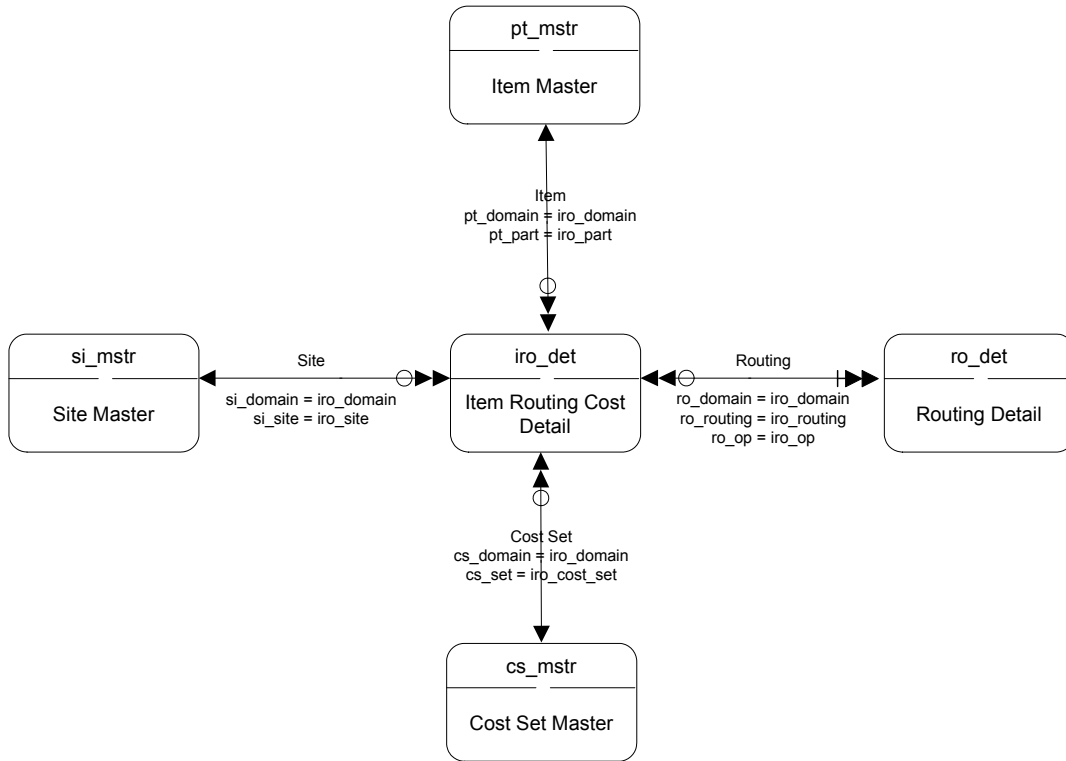


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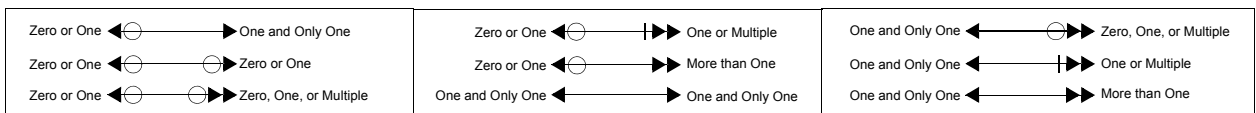
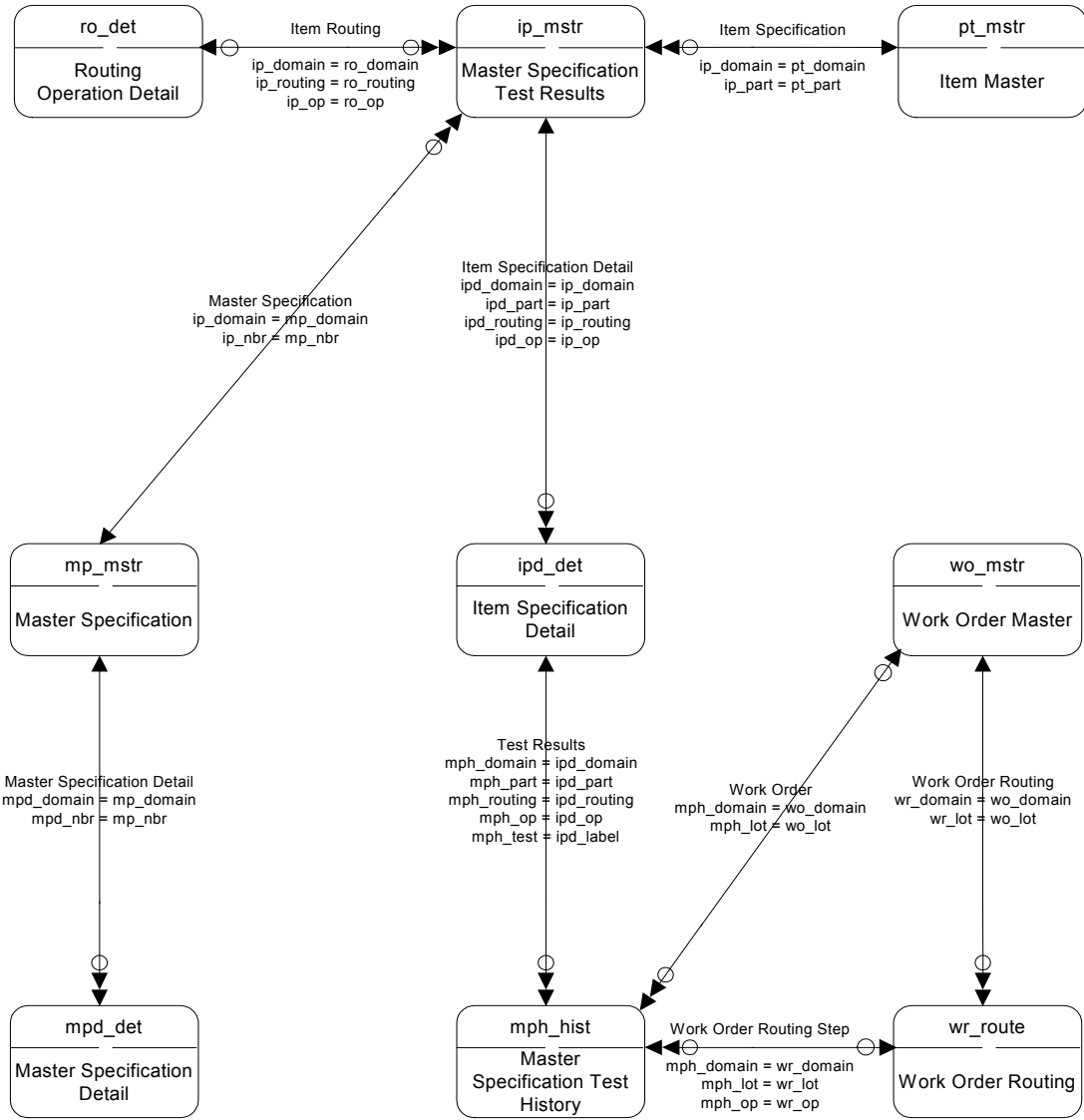


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv \dashv$ More than One

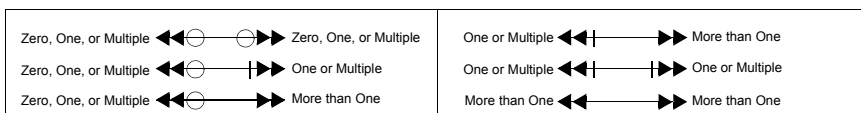
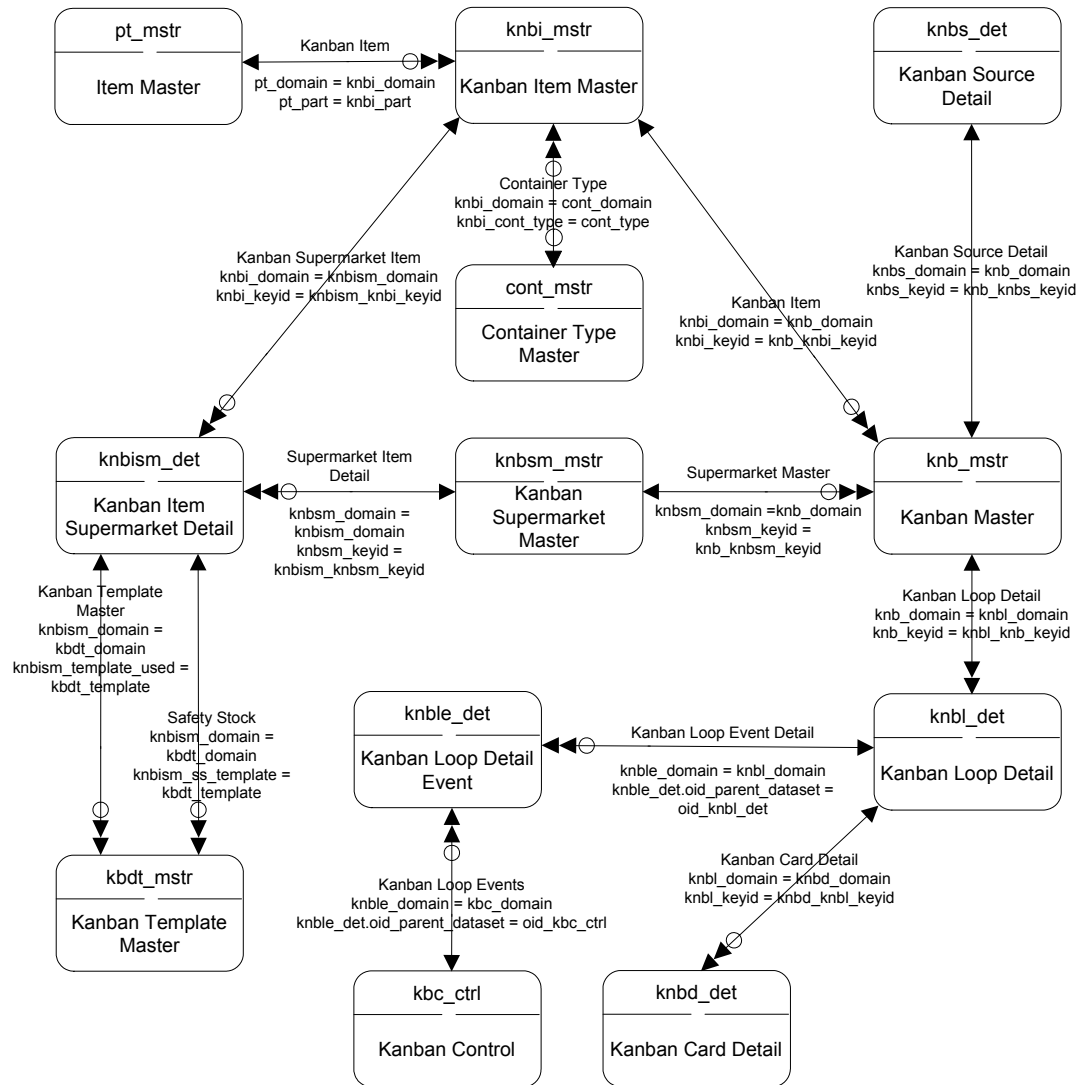
## Item Routing II



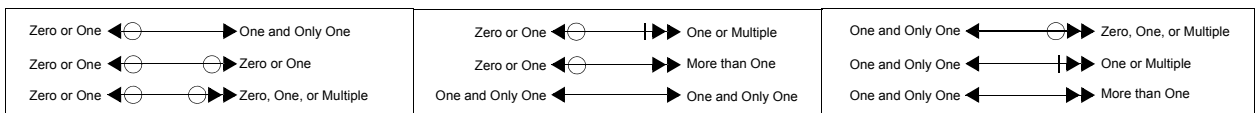
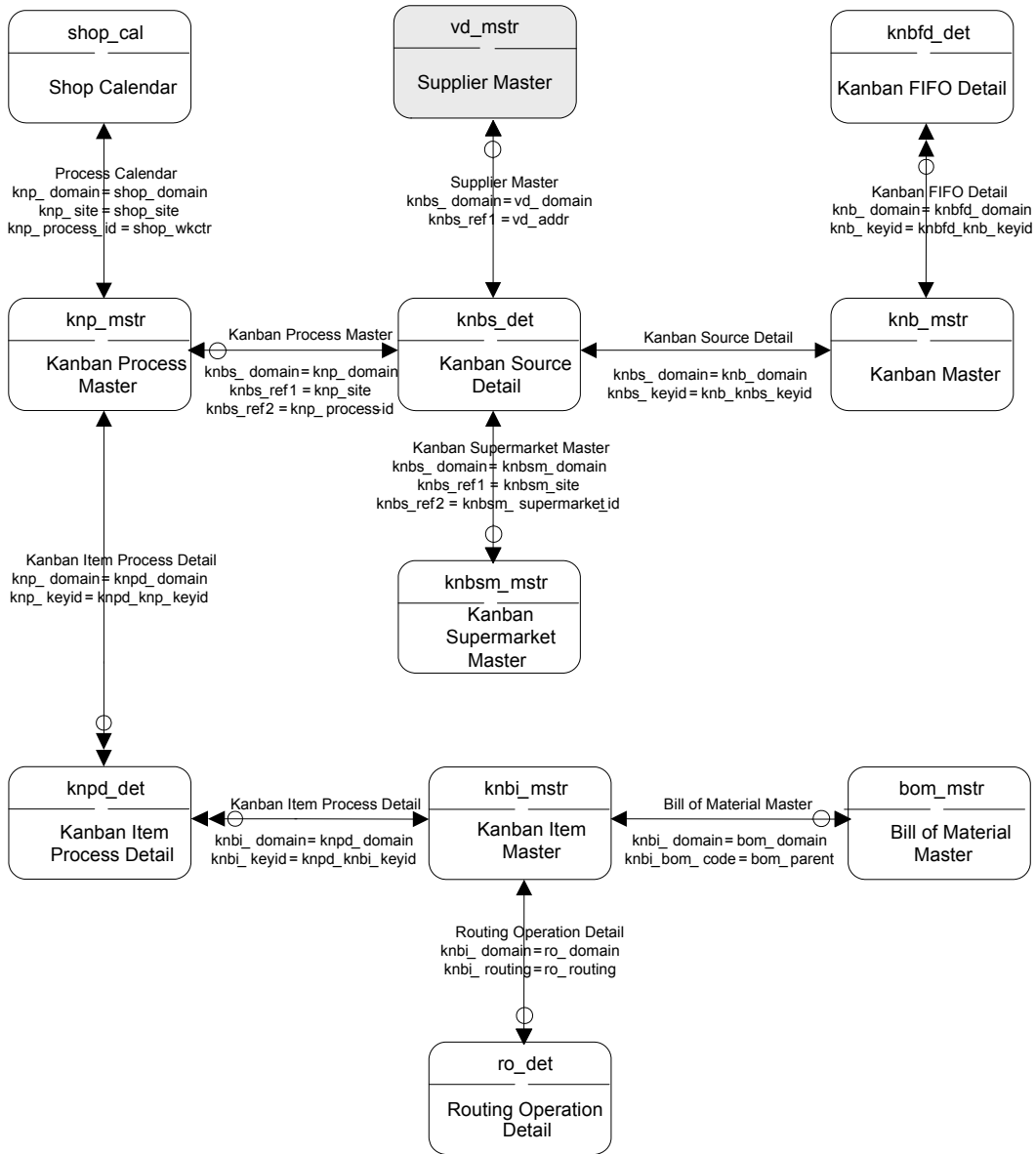
## Item Specification



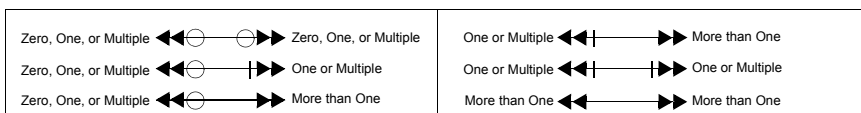
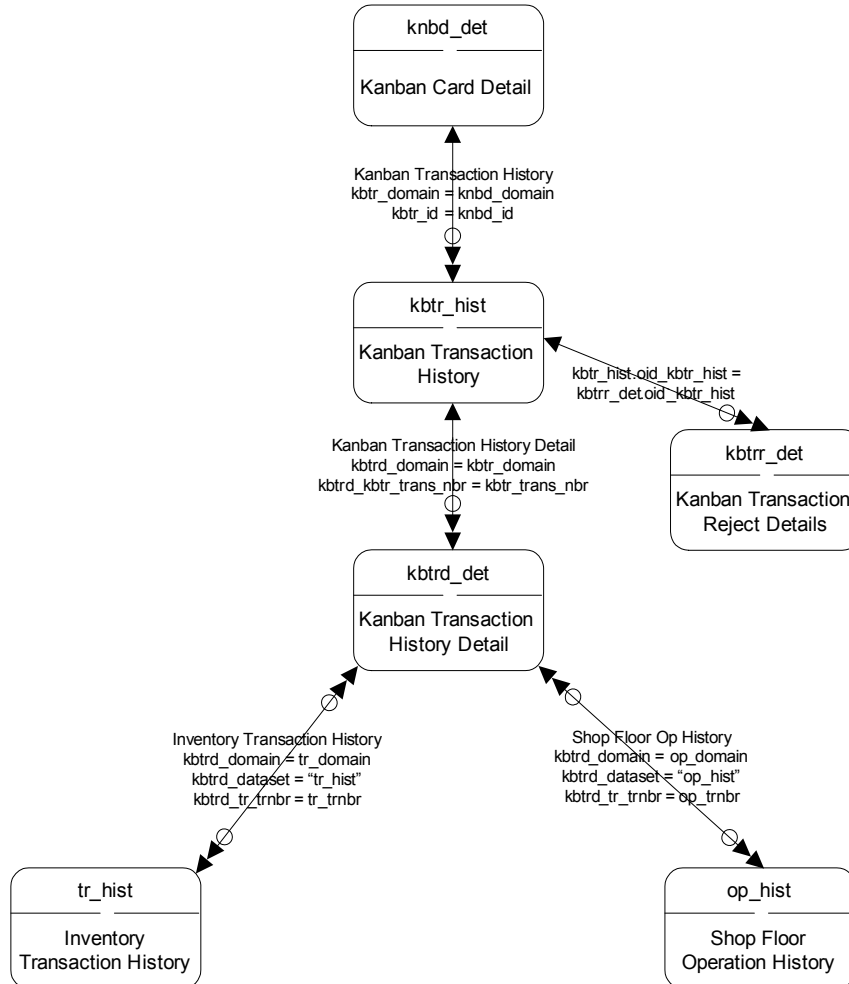
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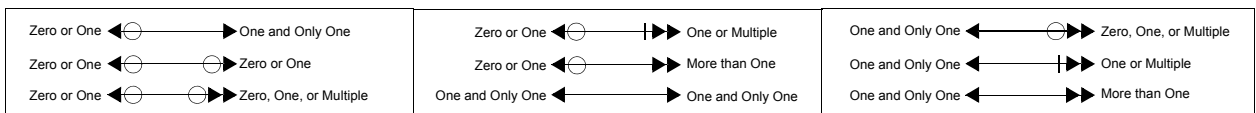
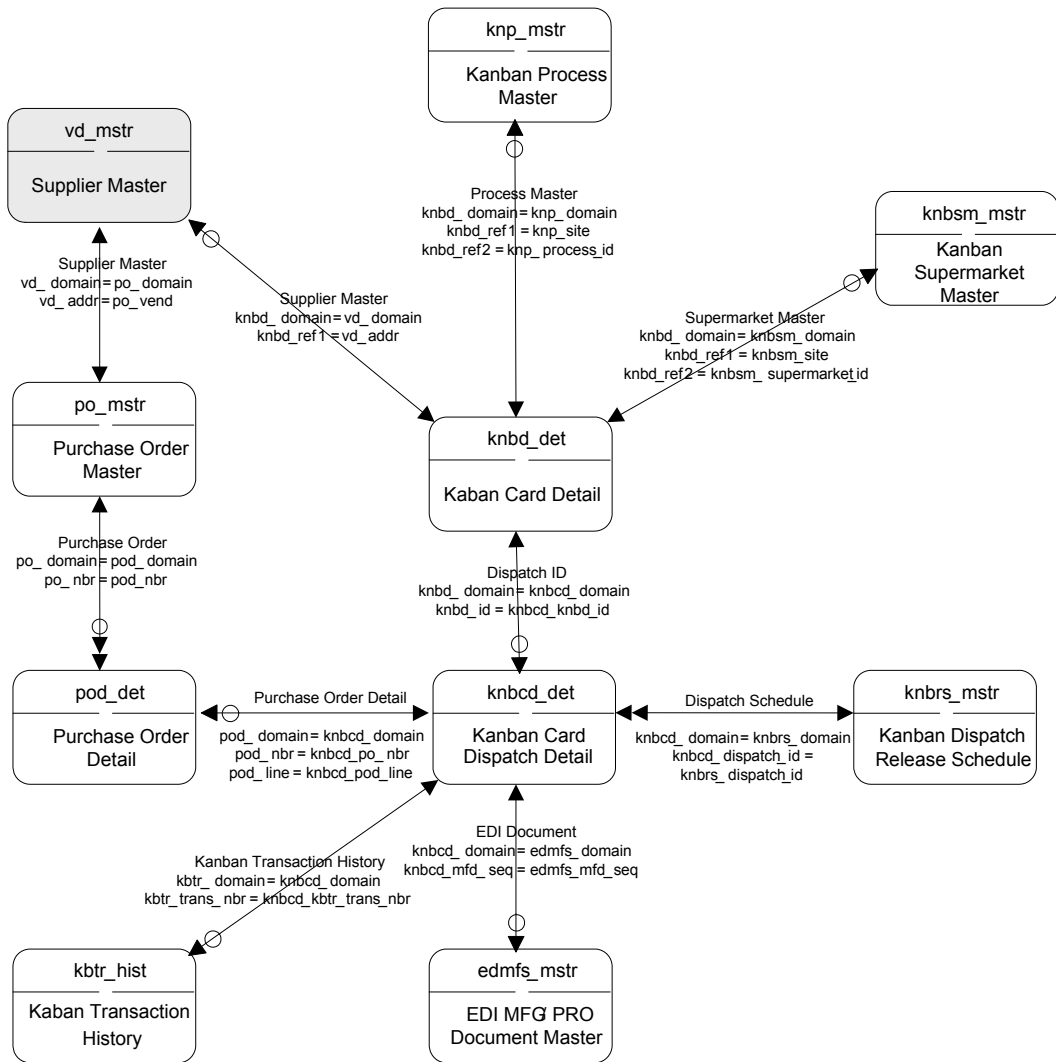
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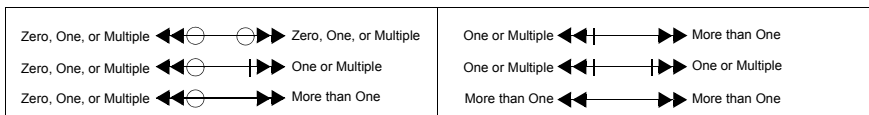
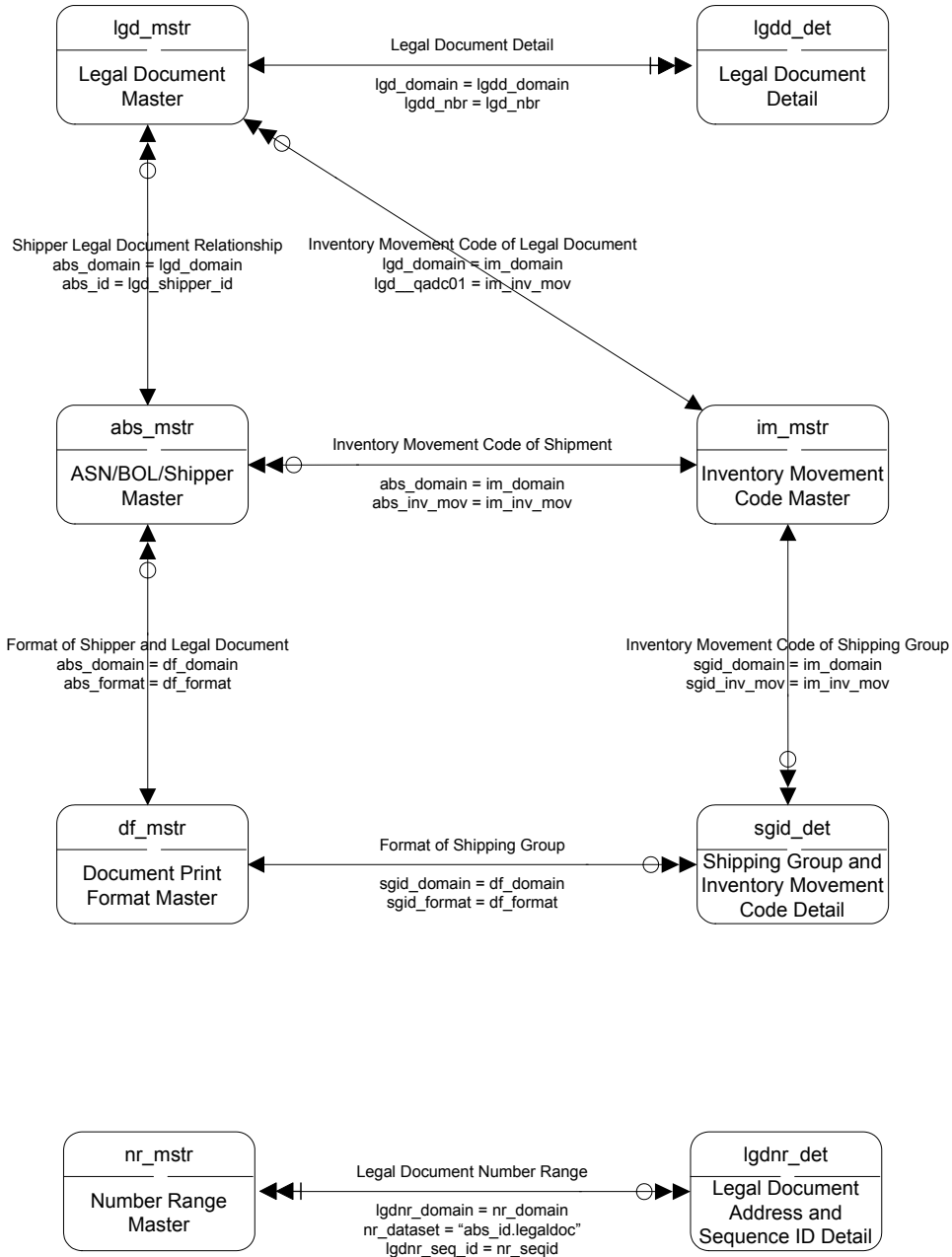
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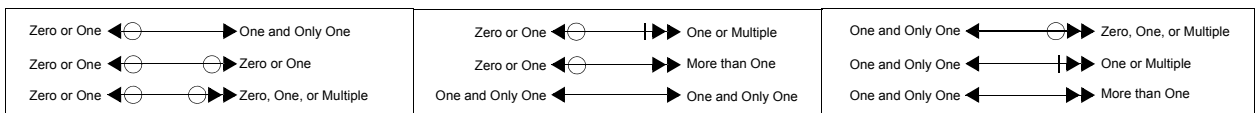
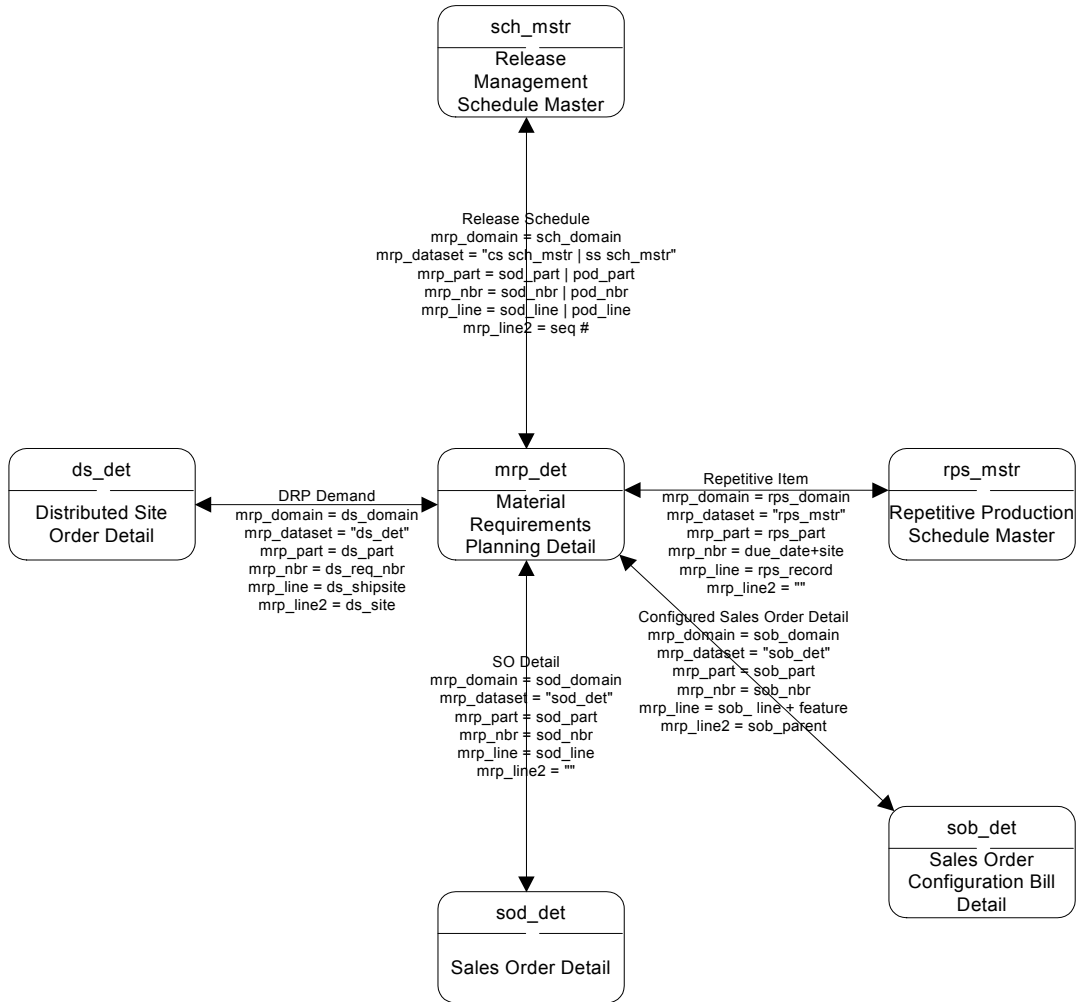
# Kanban IV



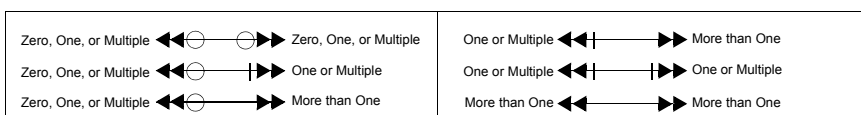
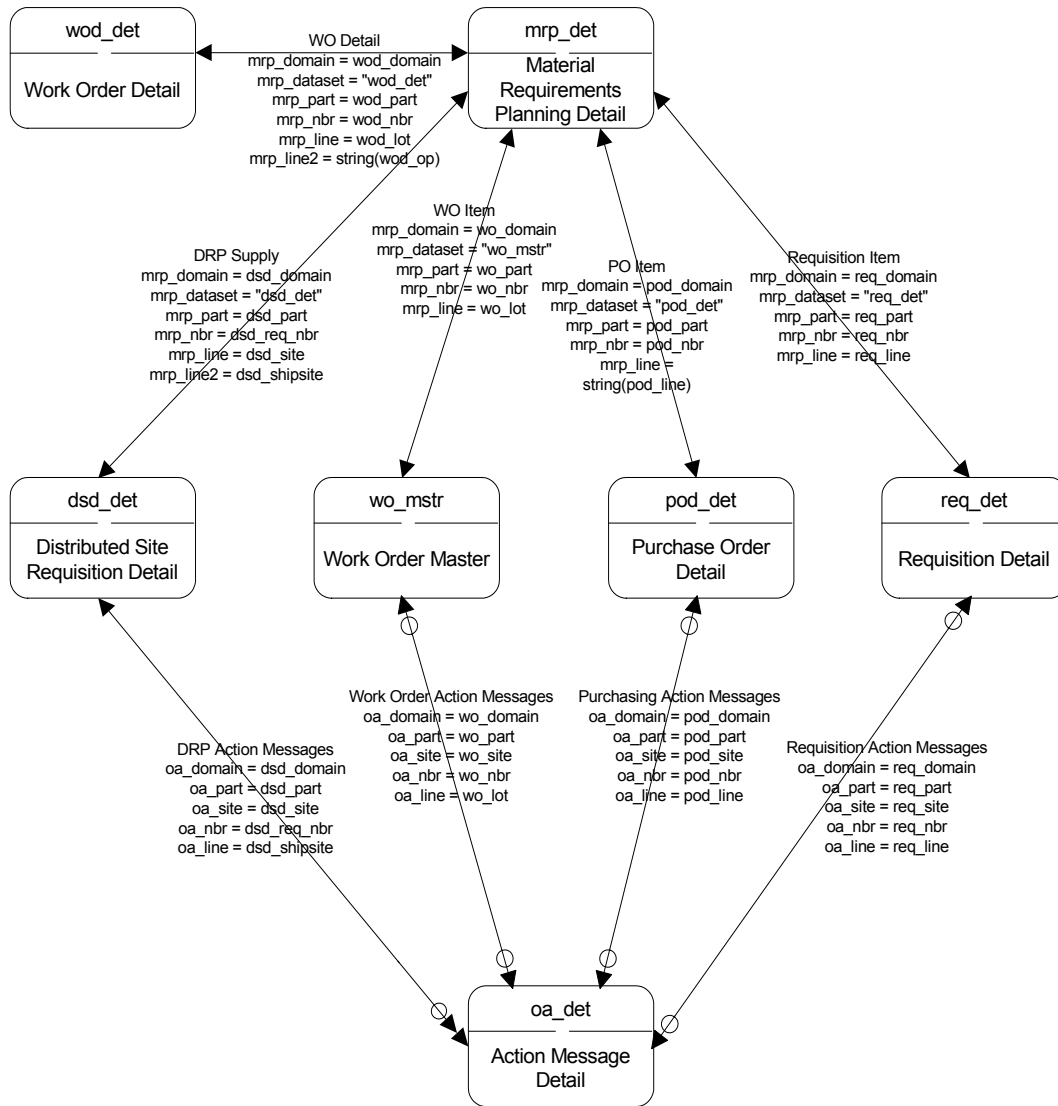
# Legal Document



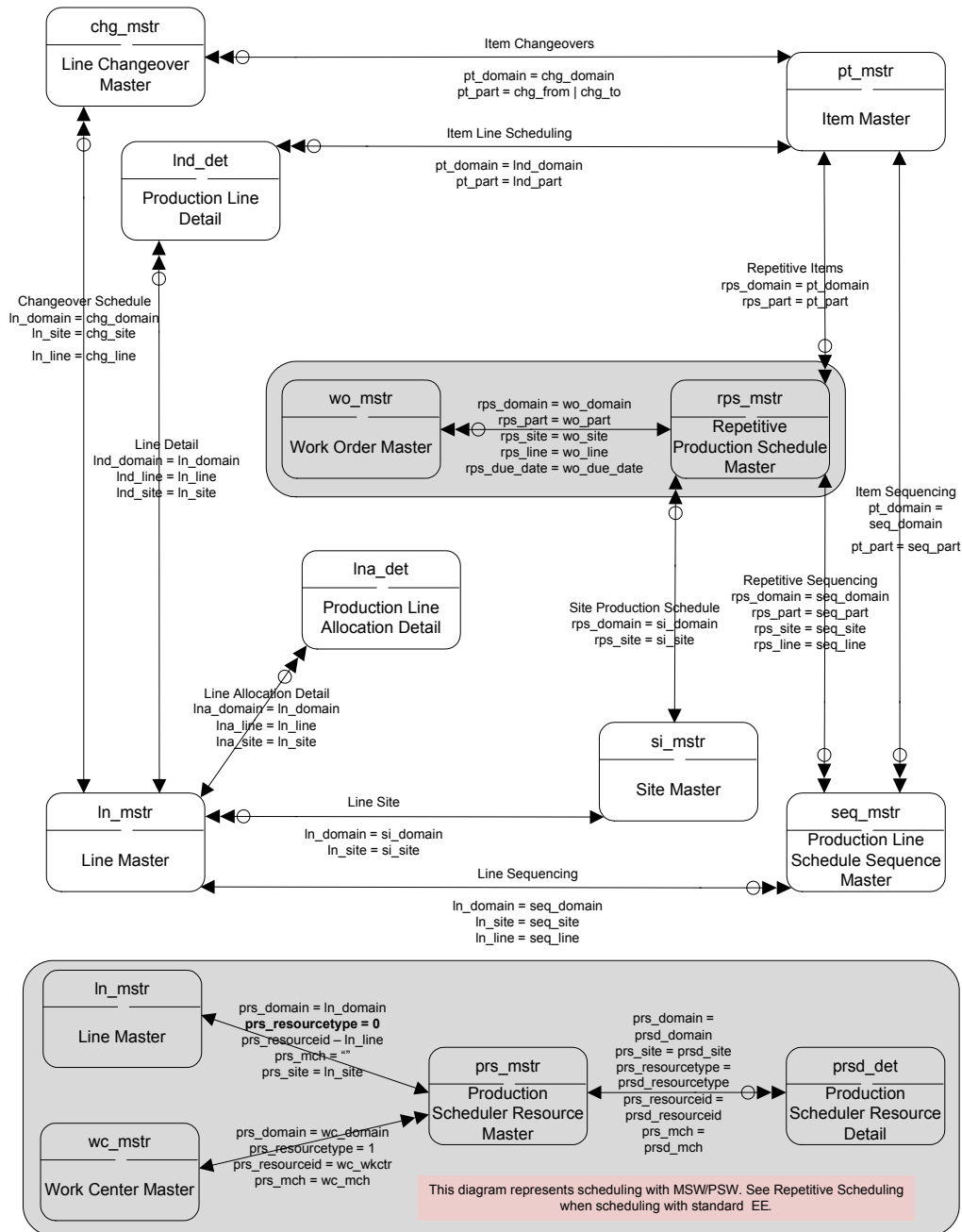
# MRP I



# MRP II

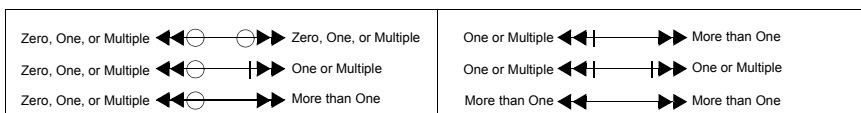
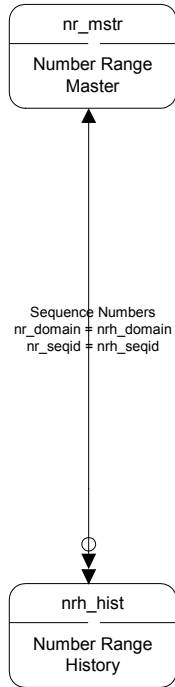


# MSW/PSW

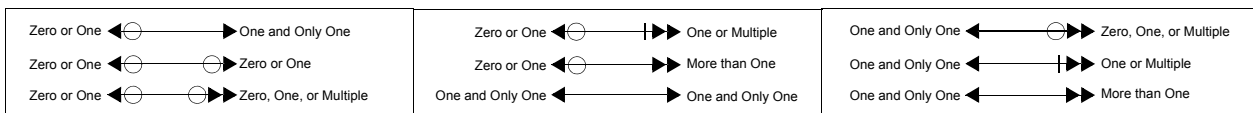
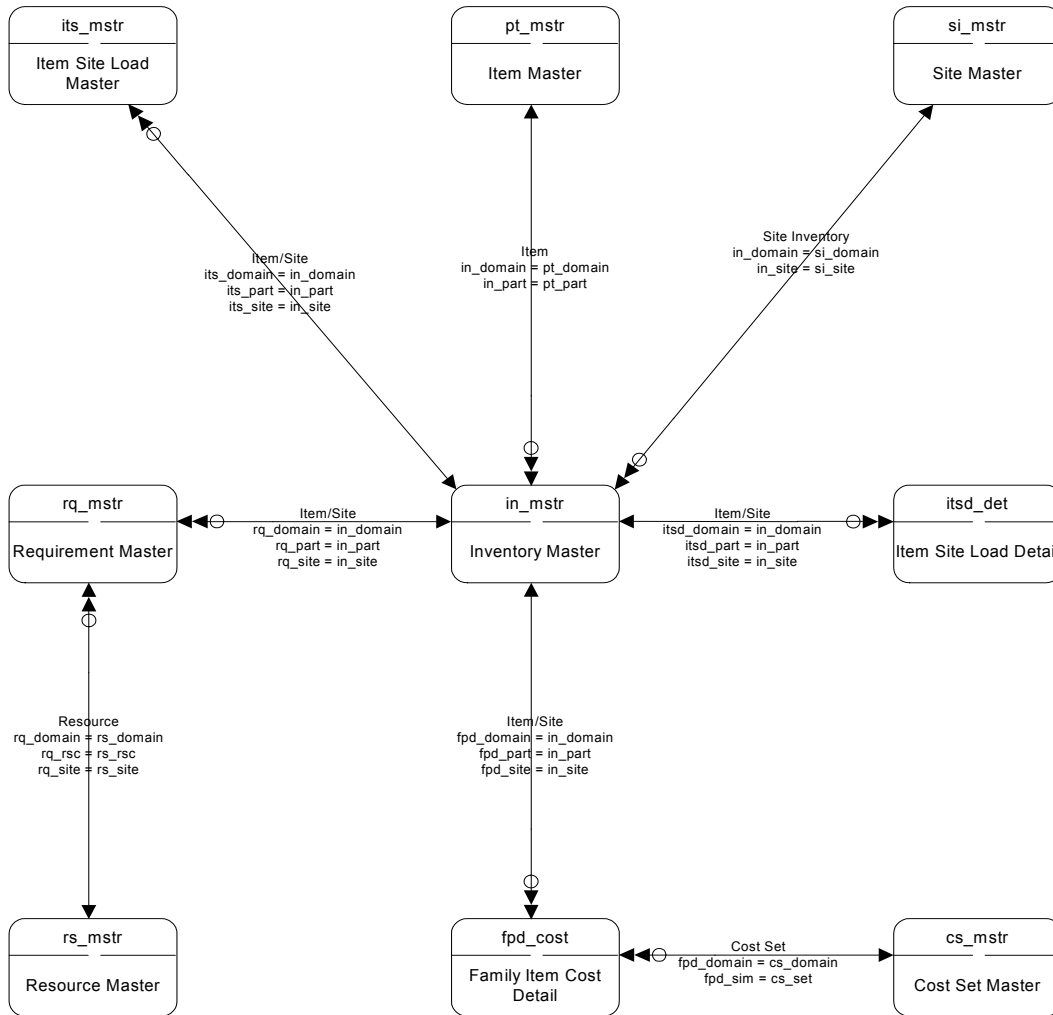


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \parallel \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow$ Zero or One	Zero or One $\leftarrow \ominus \rightarrow$ More than One	One and Only One $\leftarrow \ominus \parallel \rightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \rightarrow$ One and Only One	One and Only One $\leftarrow \ominus \rightarrow$ More than One

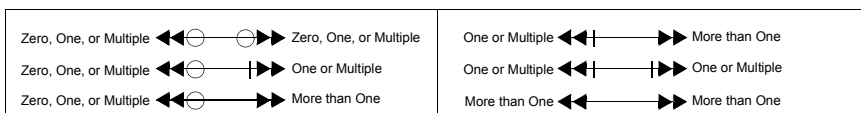
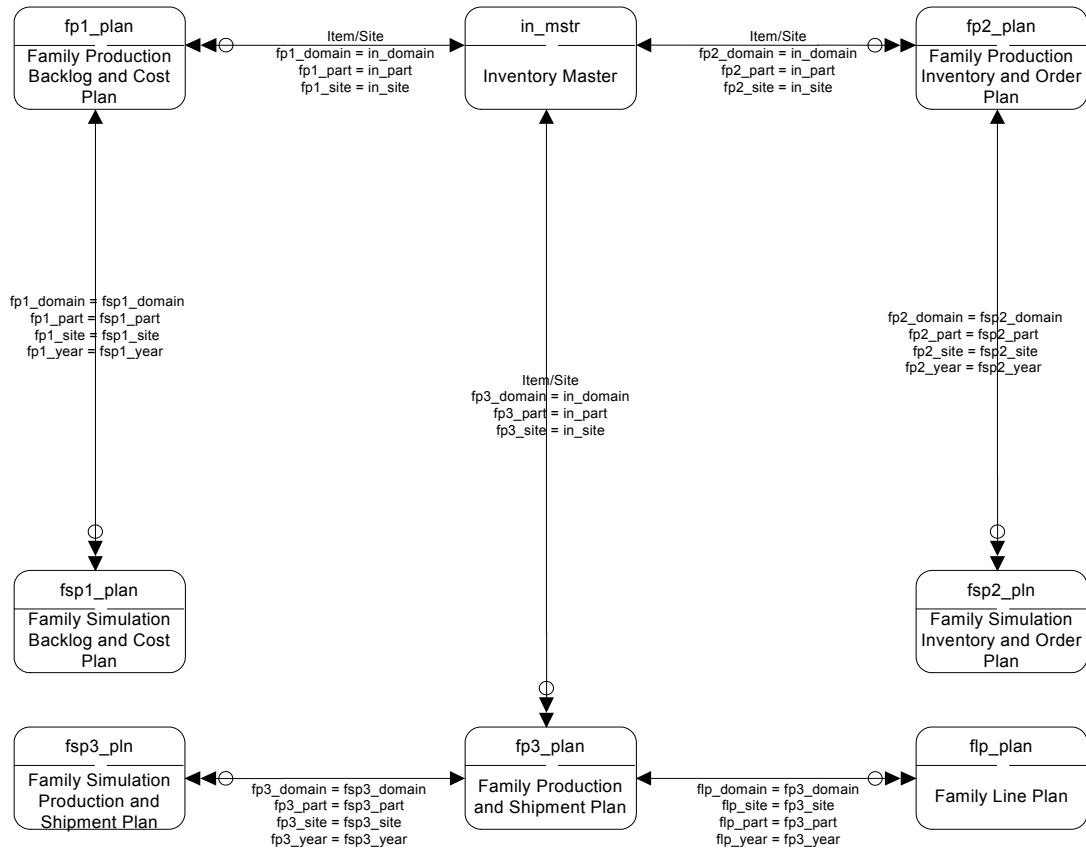
# Number Range Management



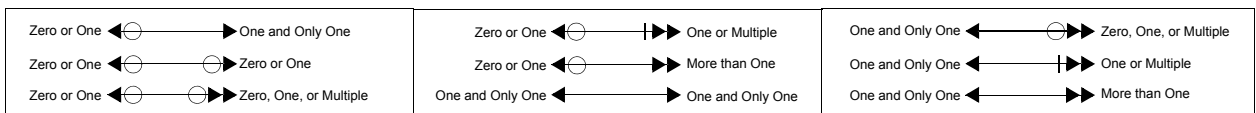
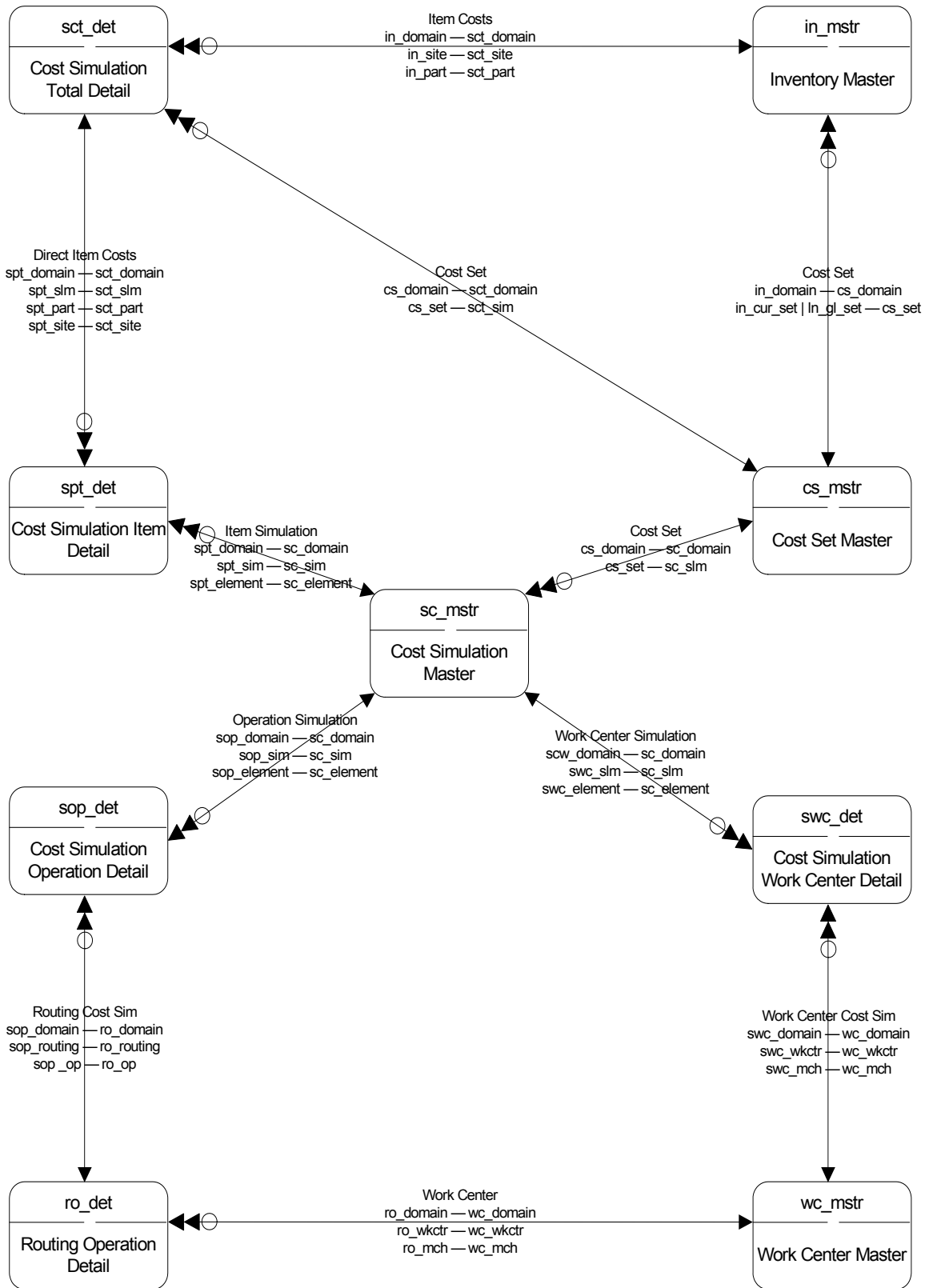
# Operations Planning I



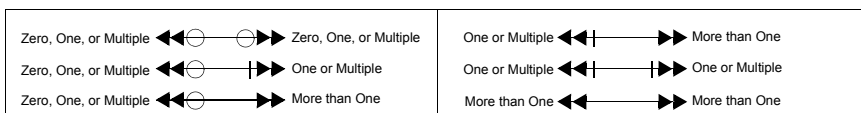
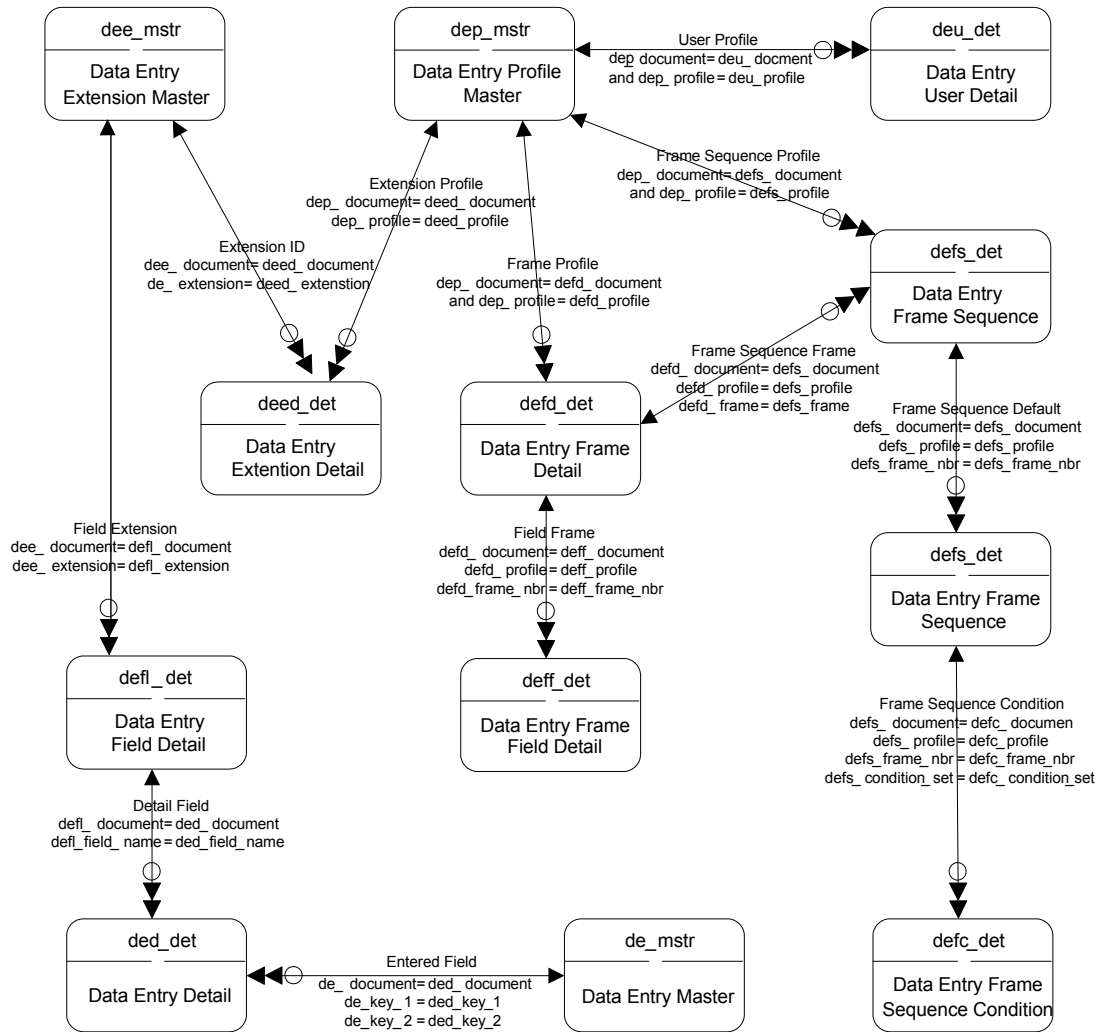
# Operations Planning II



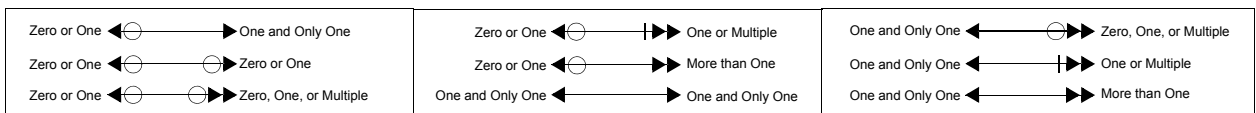
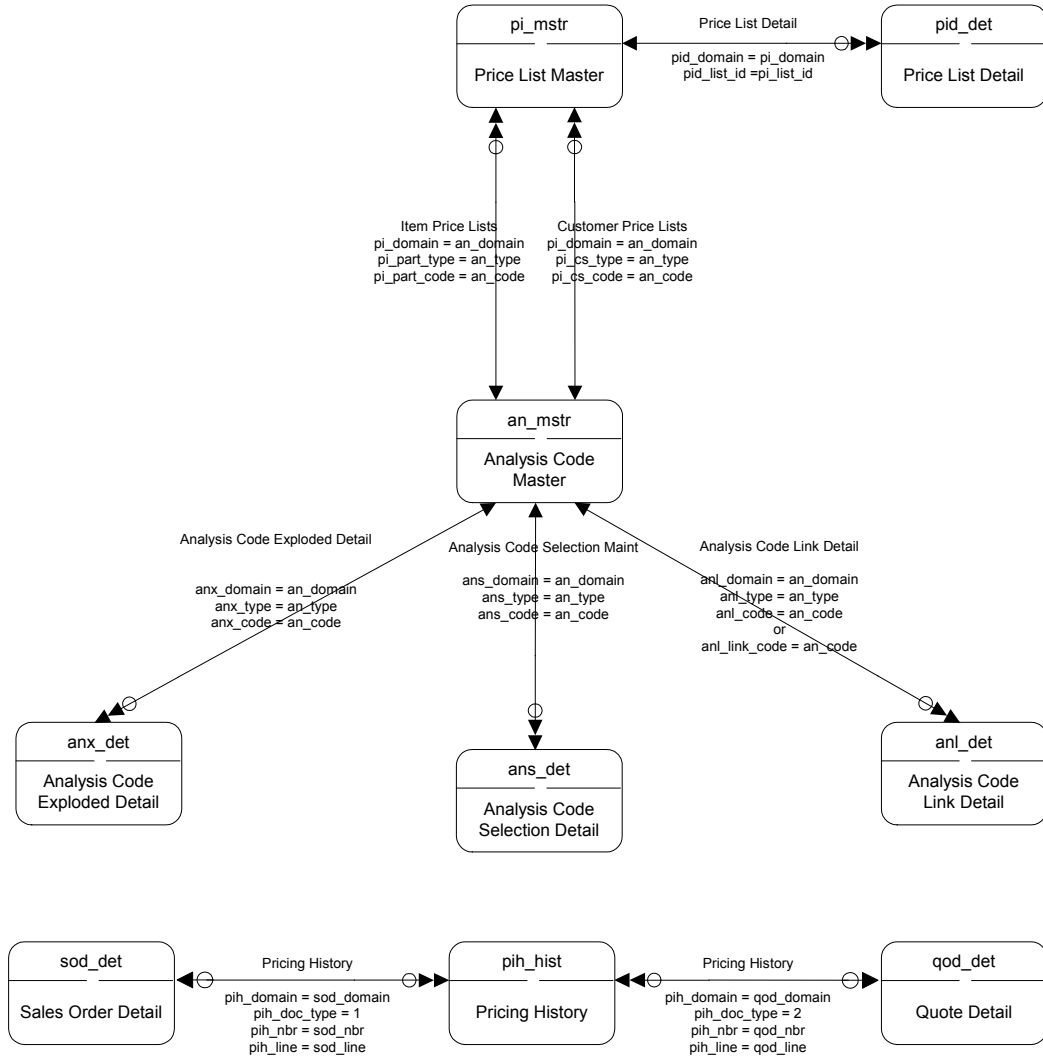
## Periodic Costing



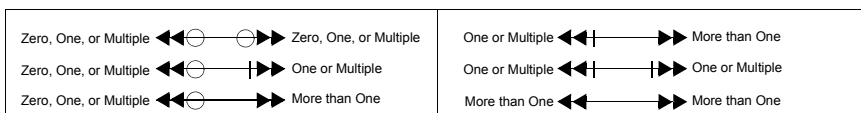
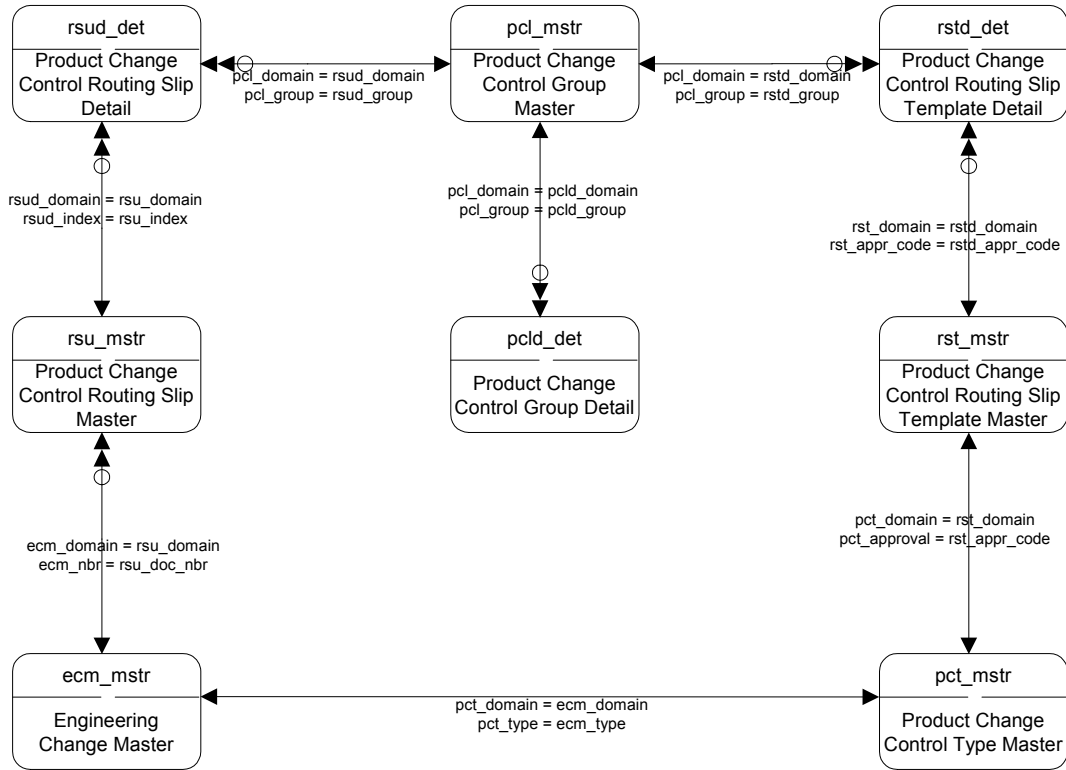
# Pending Calls



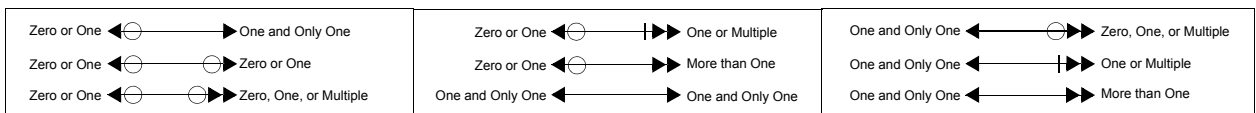
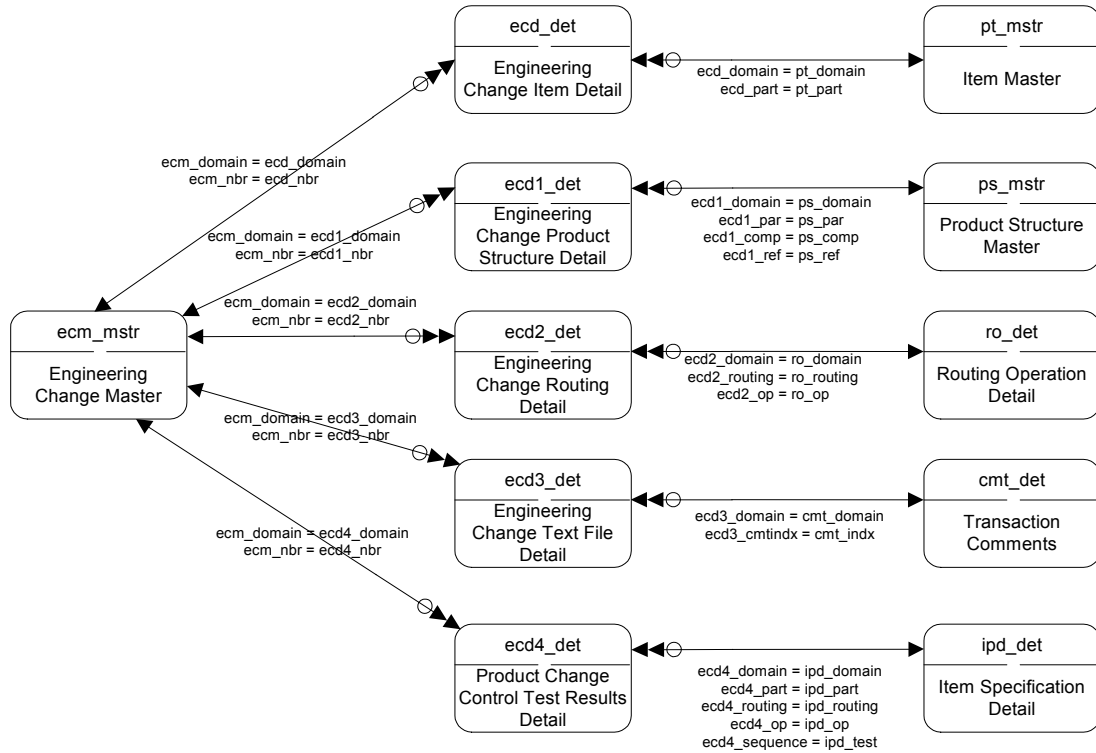
# Pricing



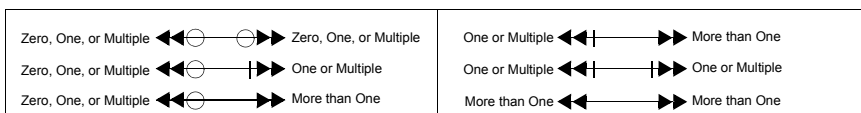
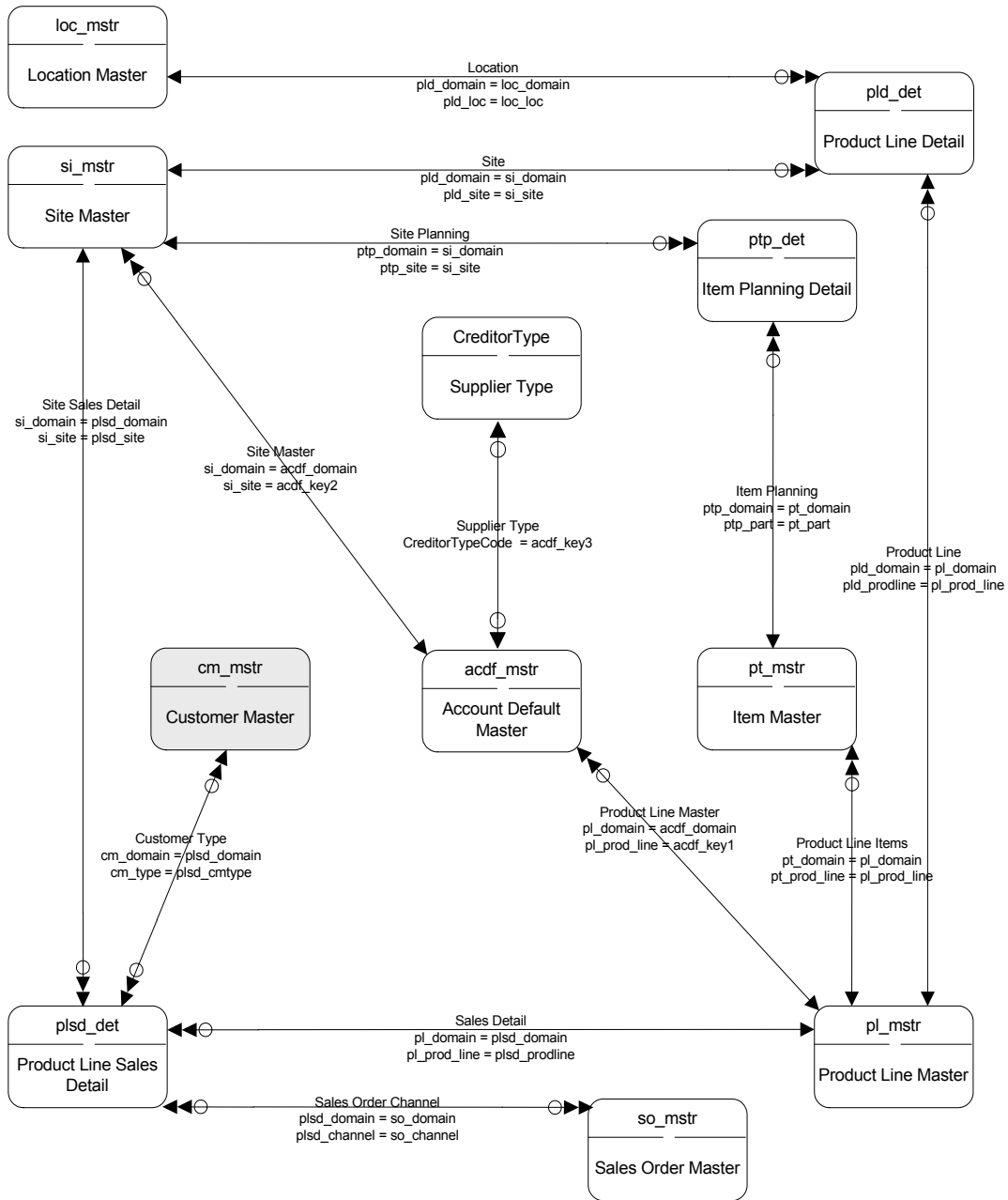
# Product Change Control I



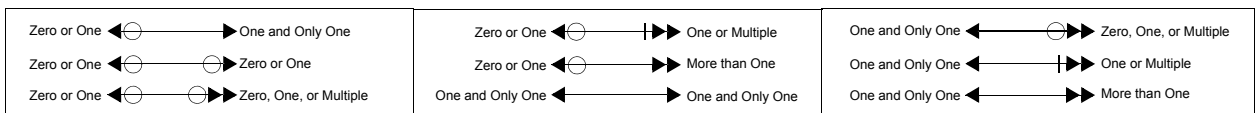
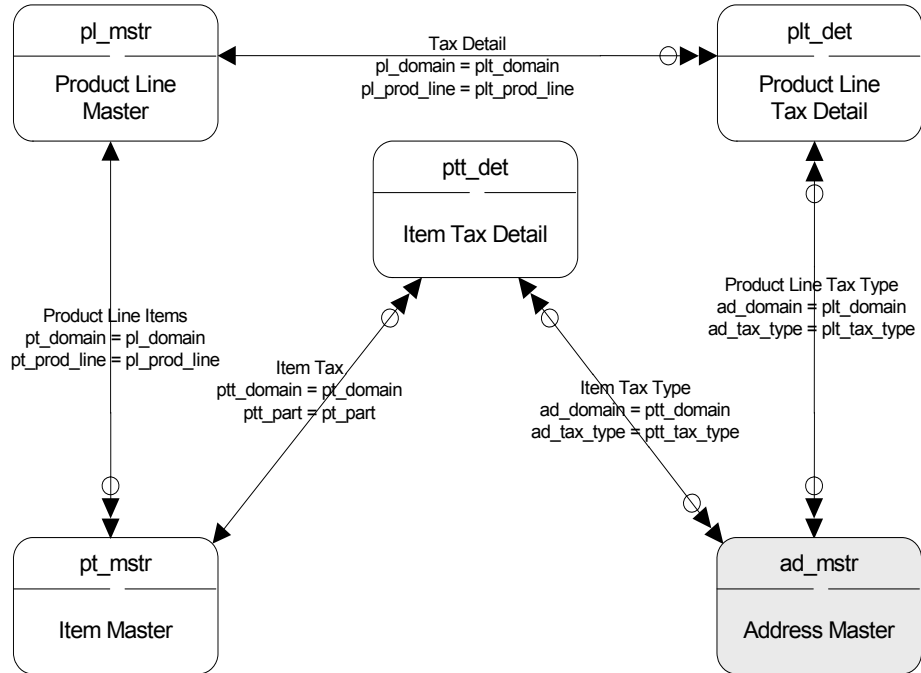
# Product Change Control II



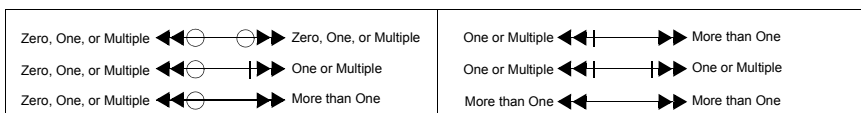
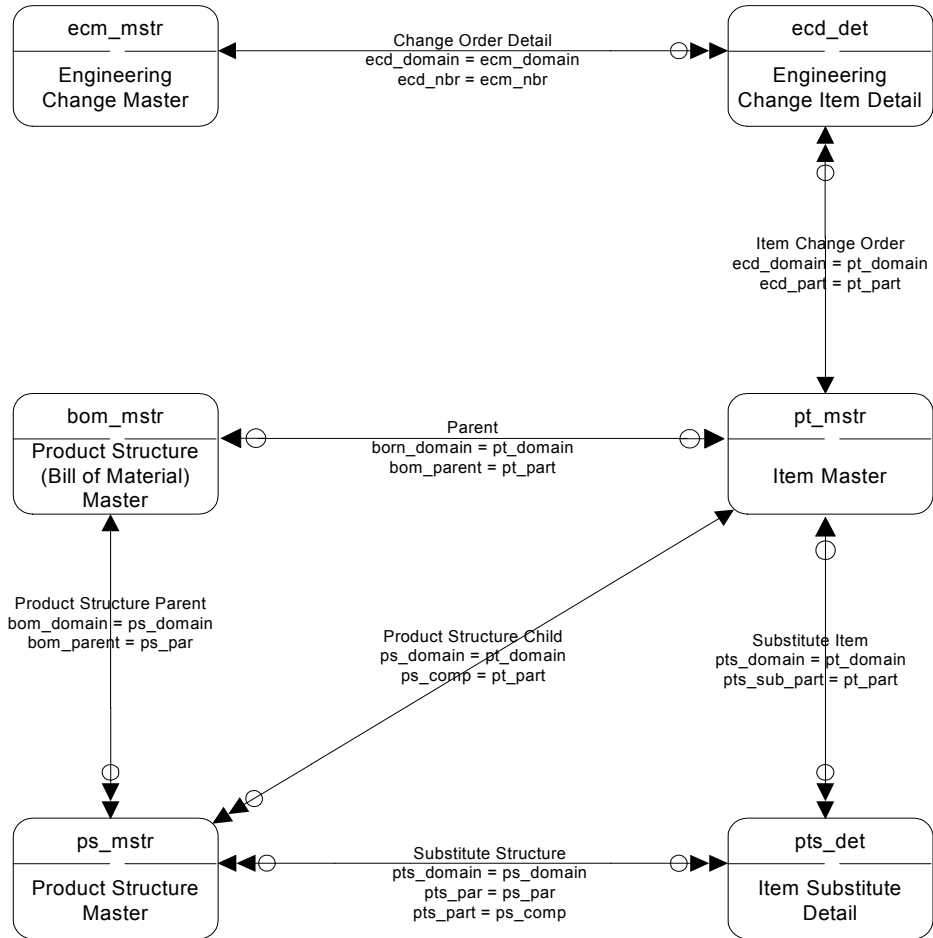
# Product Line I



## Product Line II

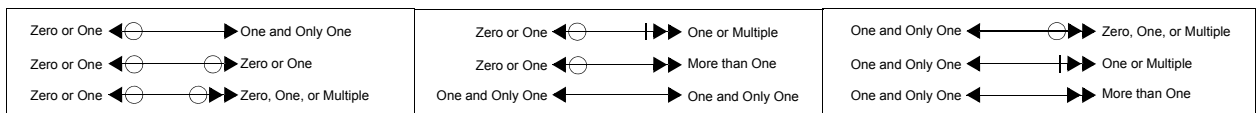
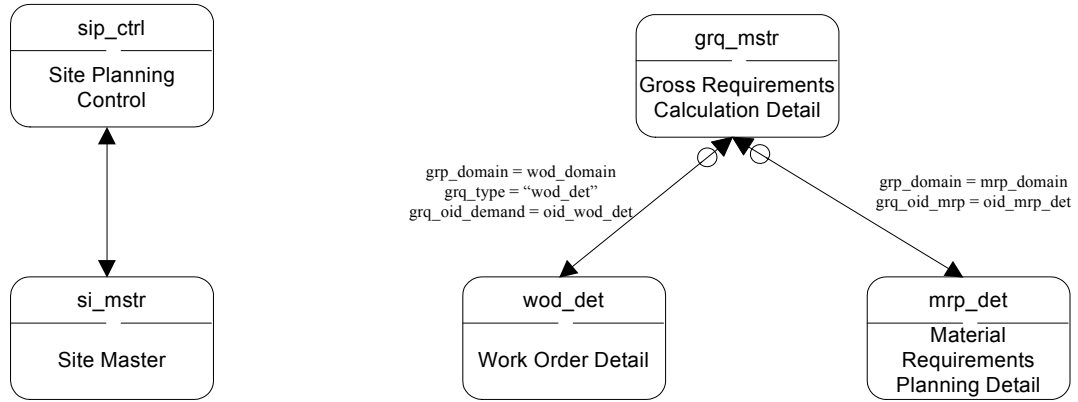


# Product Structure



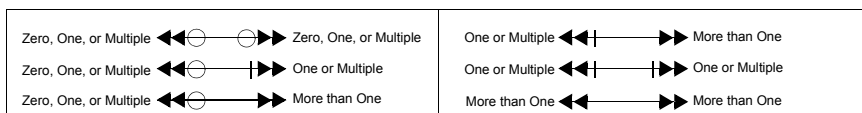
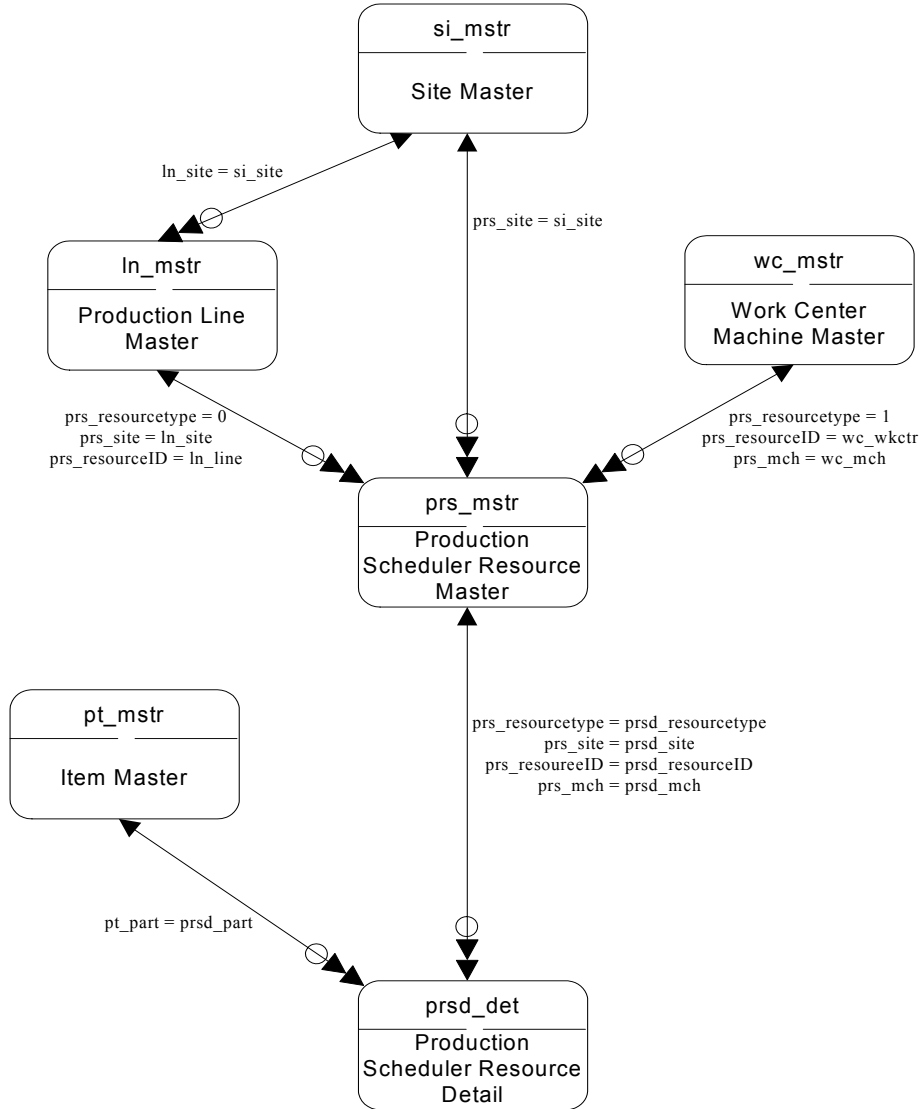
# Production Orders I

## MRP GRC Rewrite



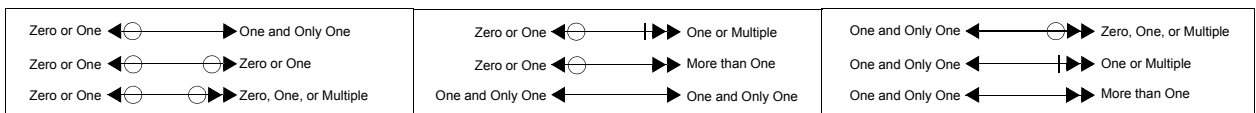
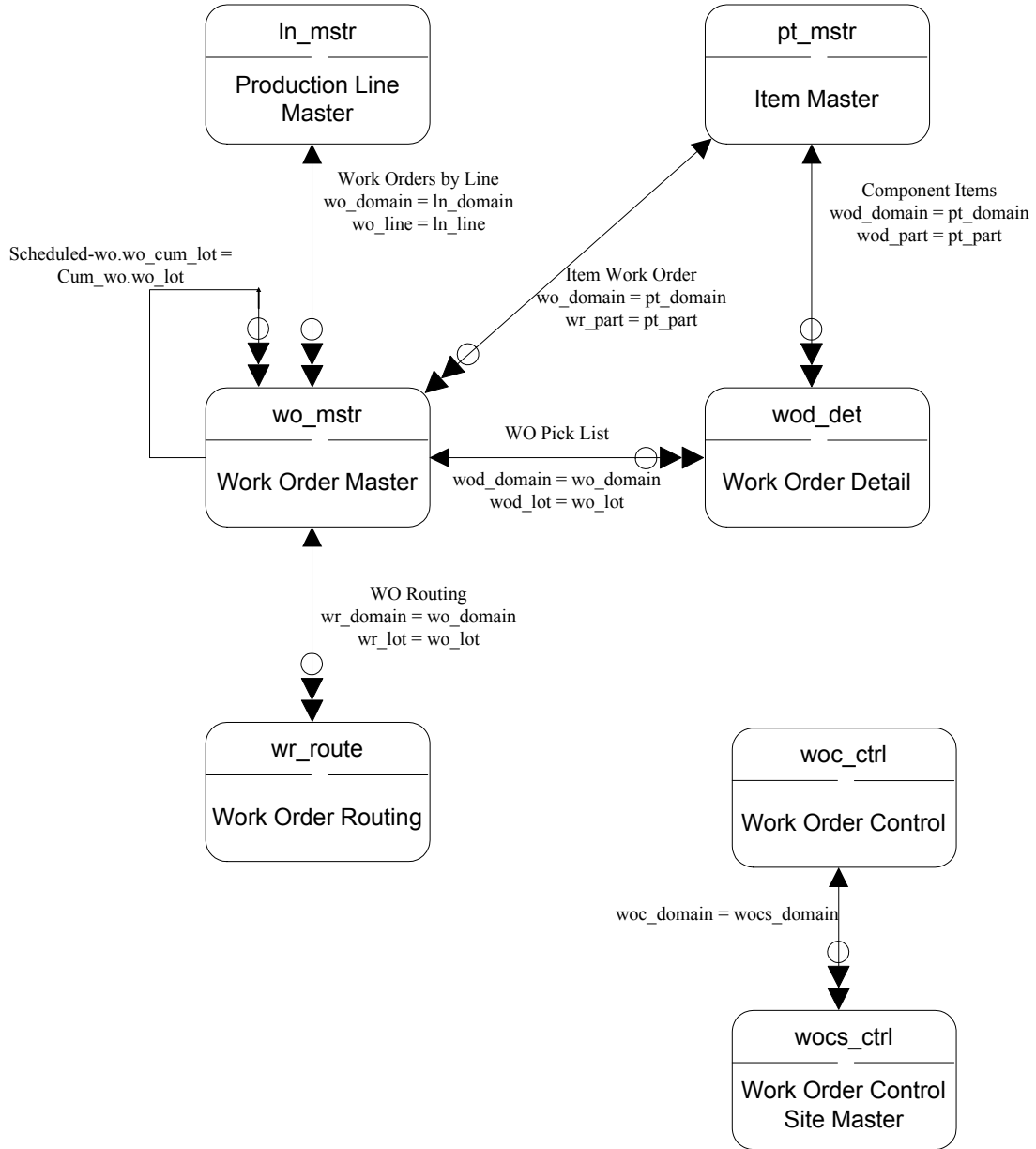
# Production Orders II

Planning and Scheduling Workbenches (MSW/PSW)



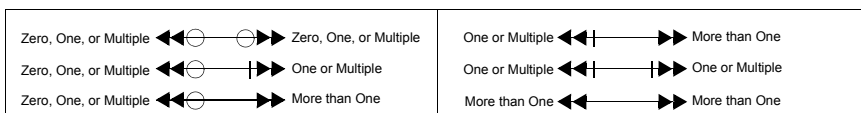
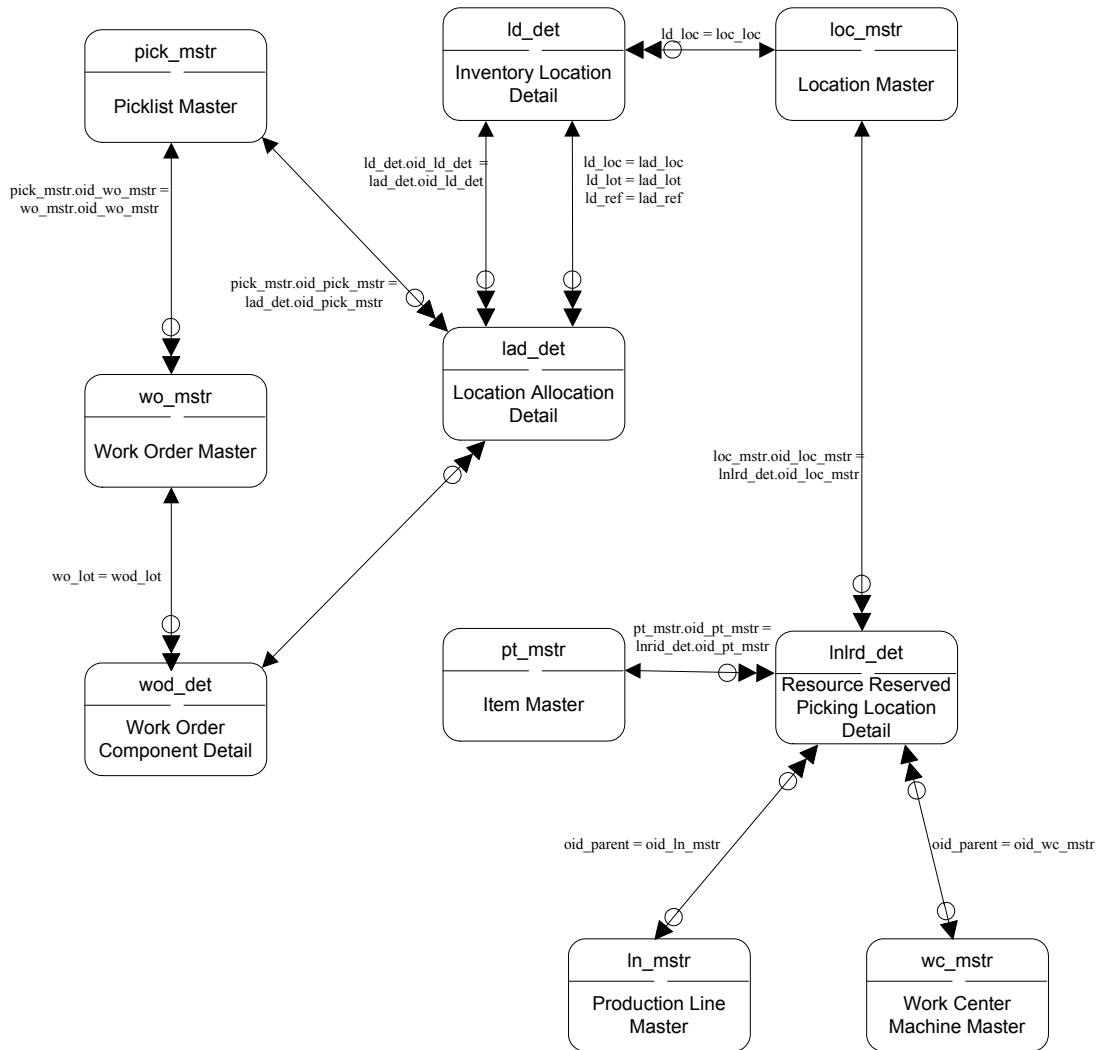
## Production Orders III

### Repetitive Scheduling - Work Order



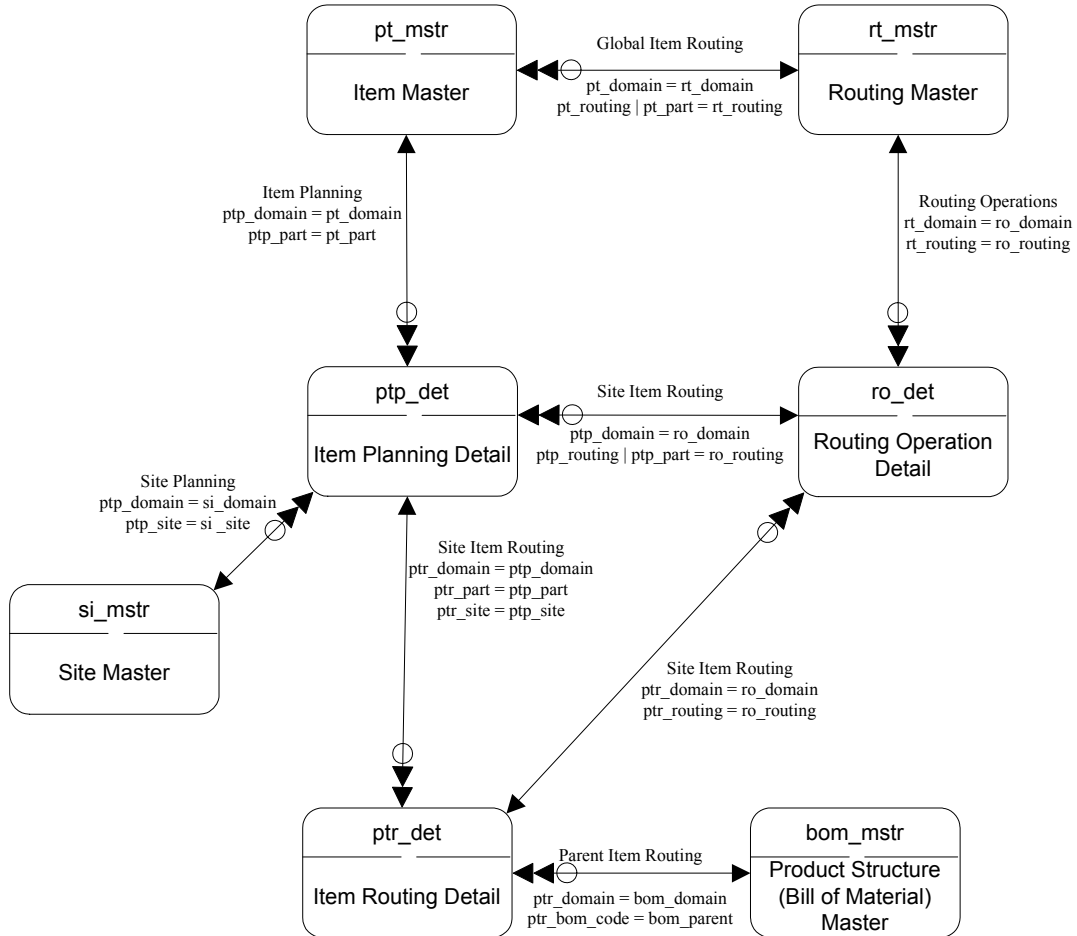
# Production Orders IV

## Repetitive Scheduling - Materials



# Production Orders V

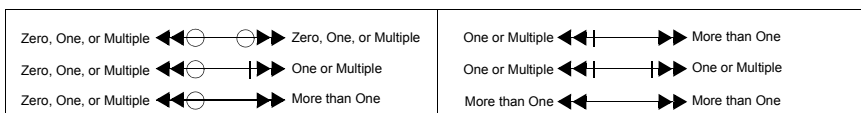
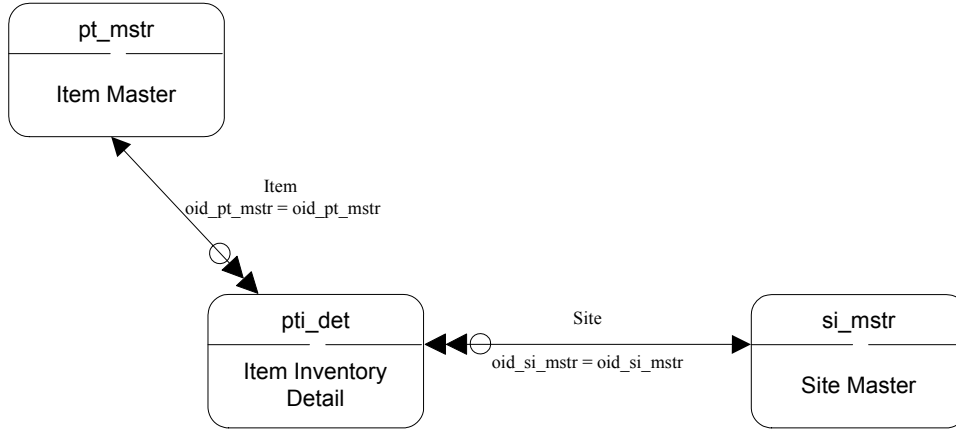
## Repetitive Scheduling - Routing



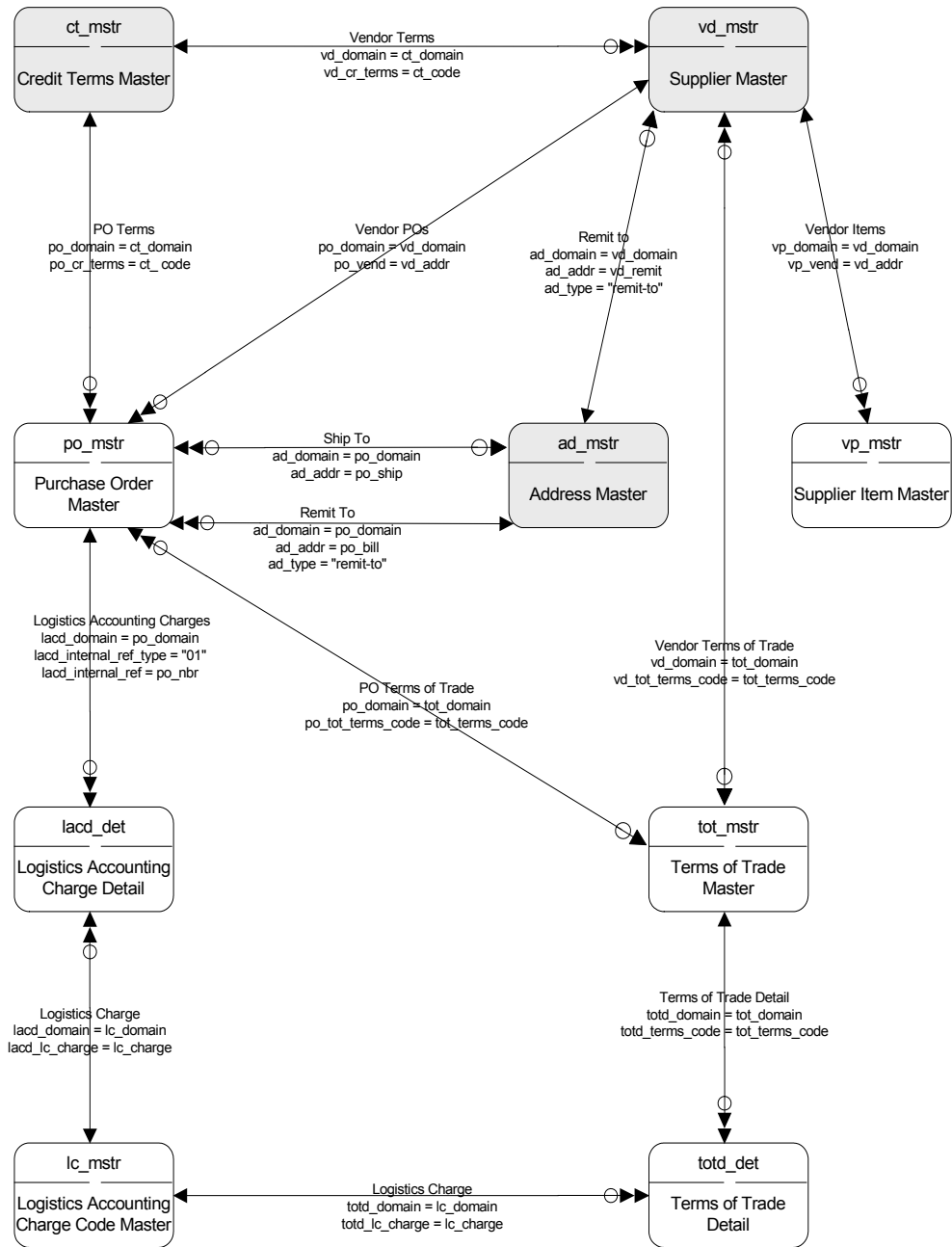
Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \dashv \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \dashv \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \dashv \dashv \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \dashv \dashv \longrightarrow$ More than One

# Production Orders VI

Repetitive Scheduling - Item Inventory

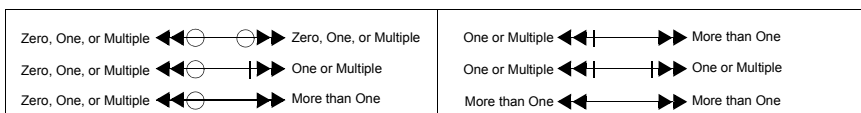
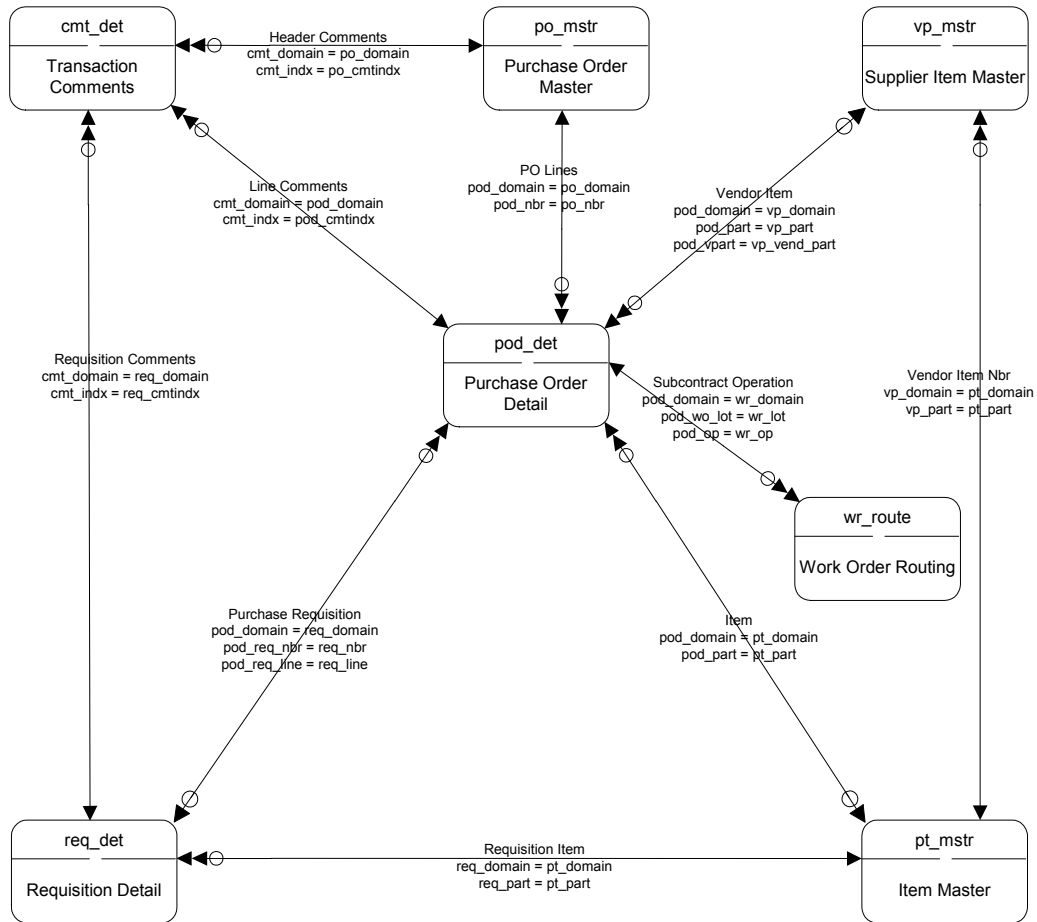


# Purchasing I

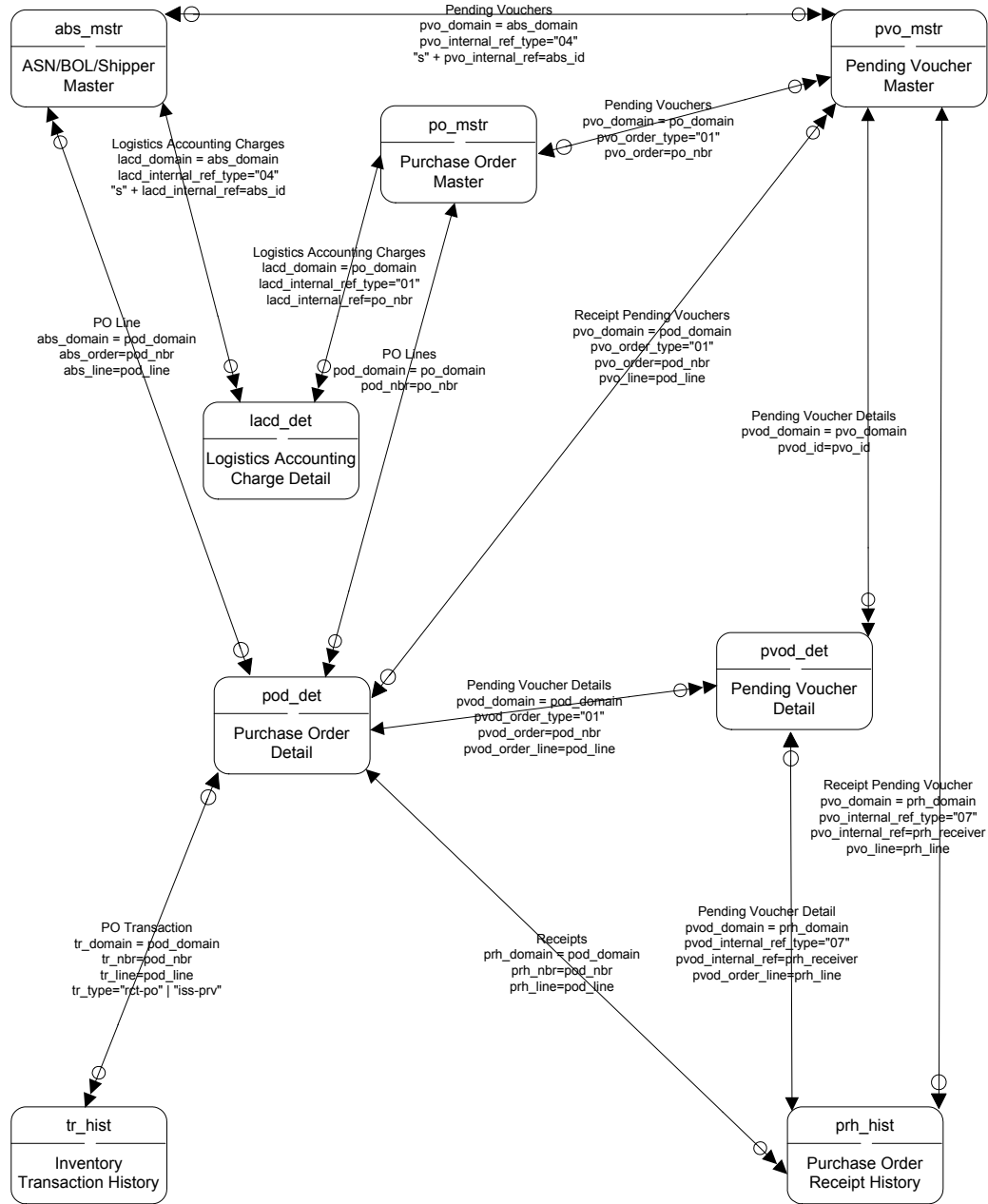


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow$ Zero or One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \rightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \rightarrow$ More than One

# Purchasing II

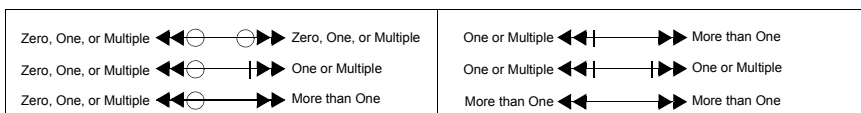
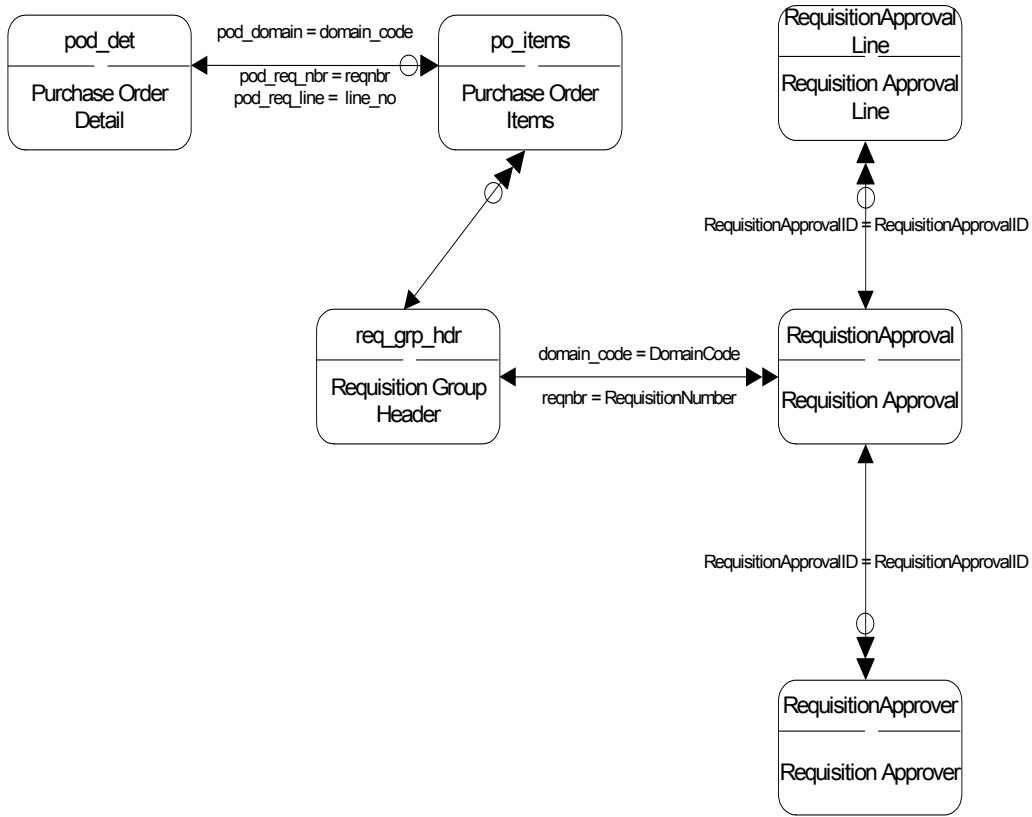


## Purchasing III

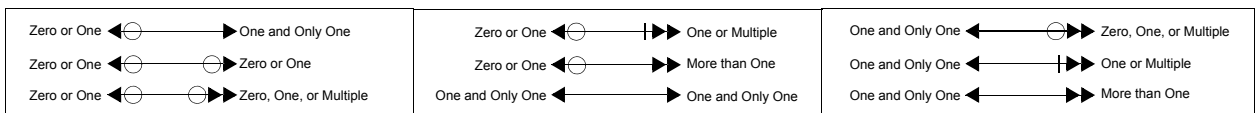
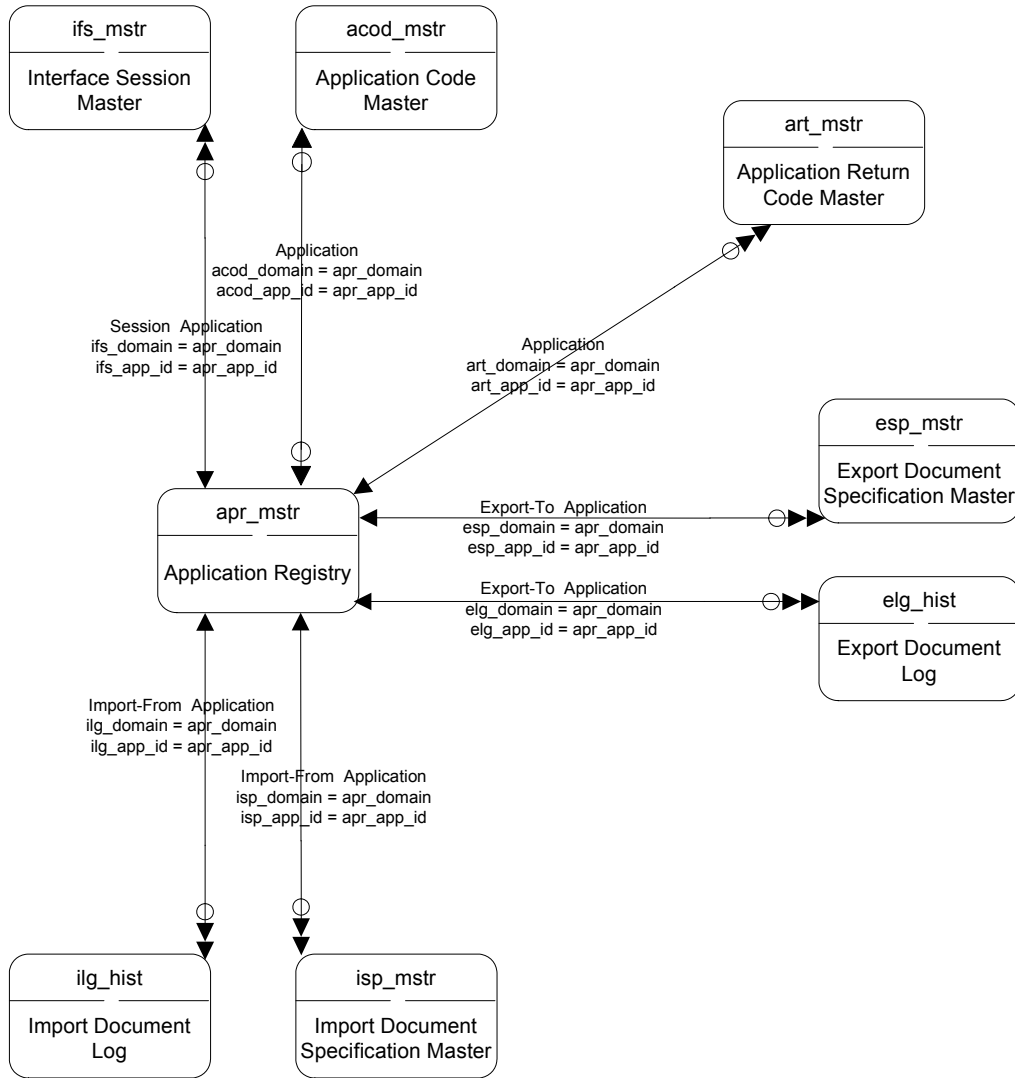


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \circ \longrightarrow$ Zero or One	Zero or One $\leftarrow \ominus \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \circ \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \parallel \longrightarrow$ More than One

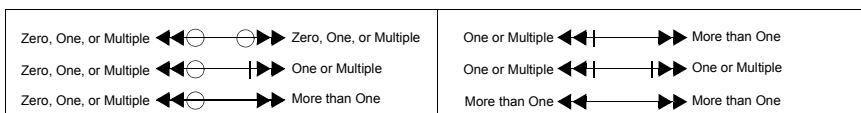
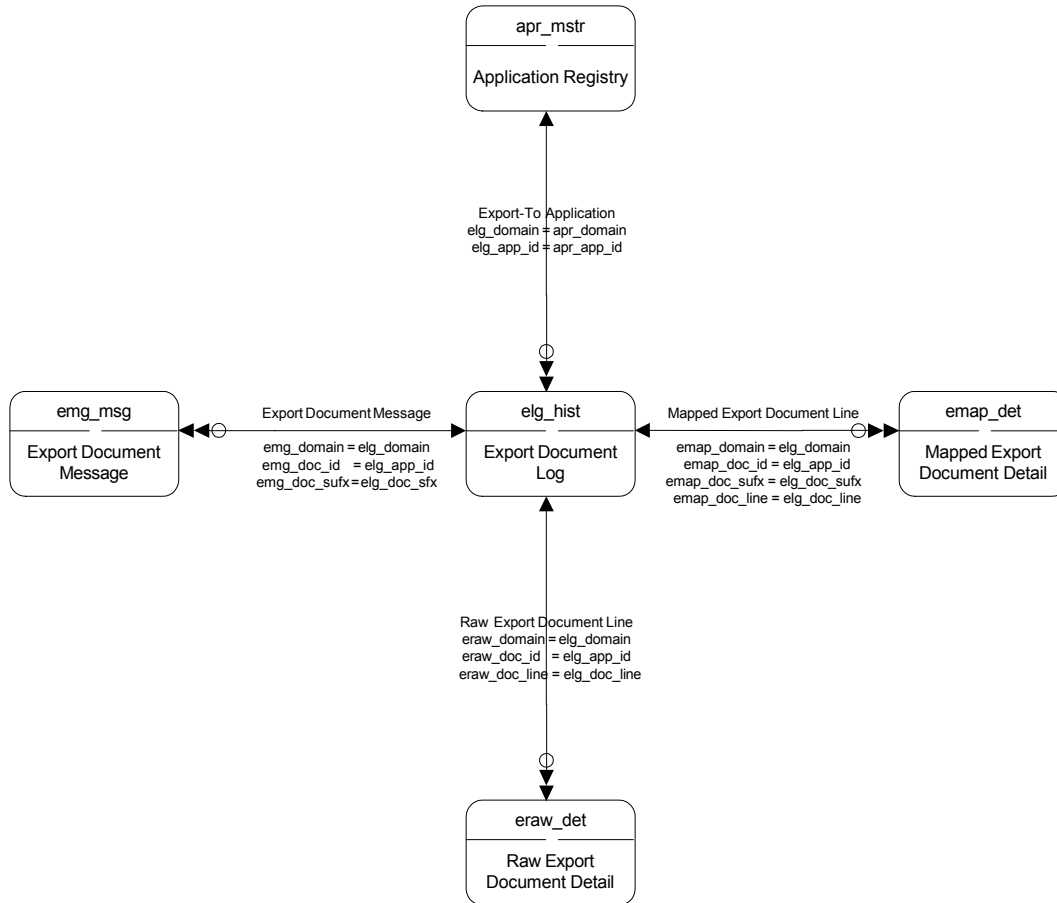
# Purchasing Requisition



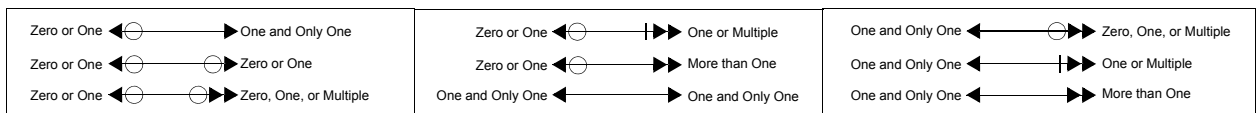
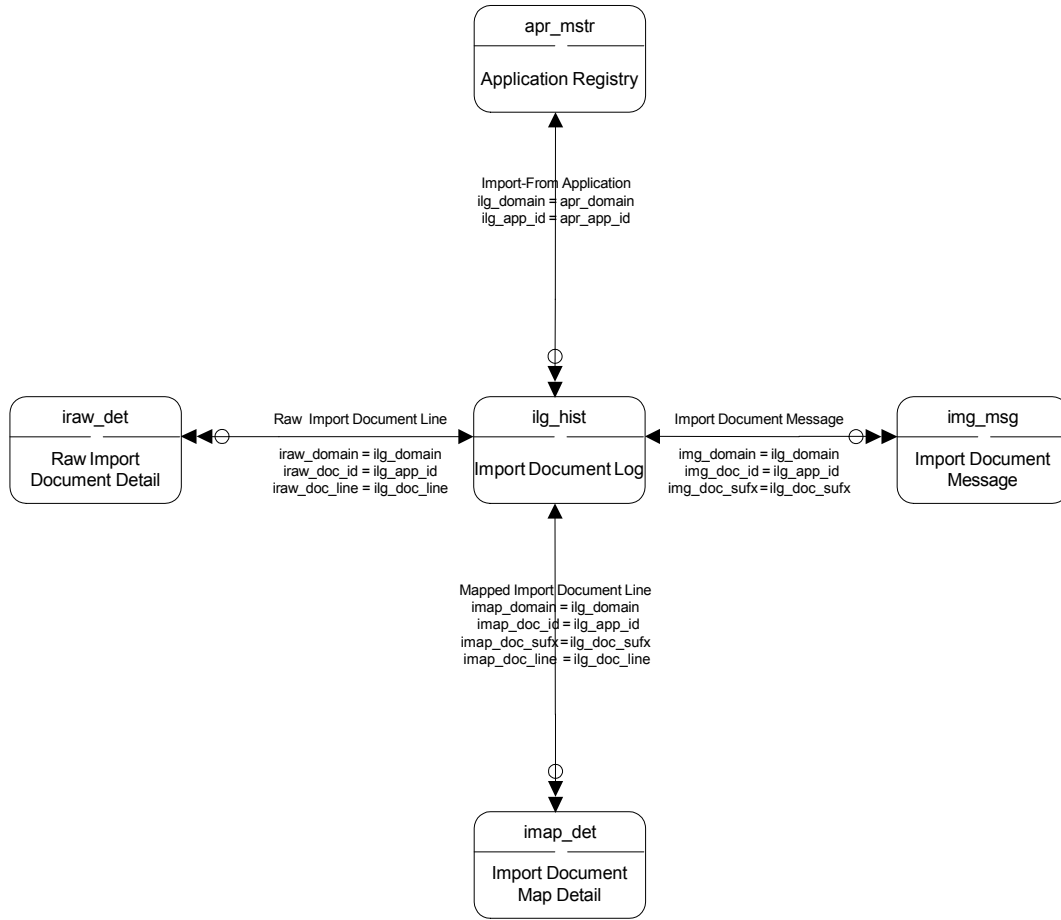
## Q/LinQ I



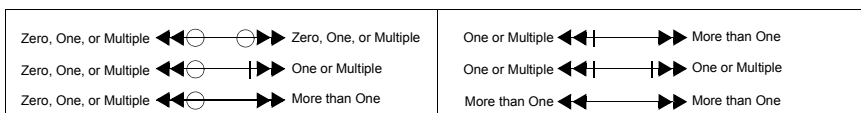
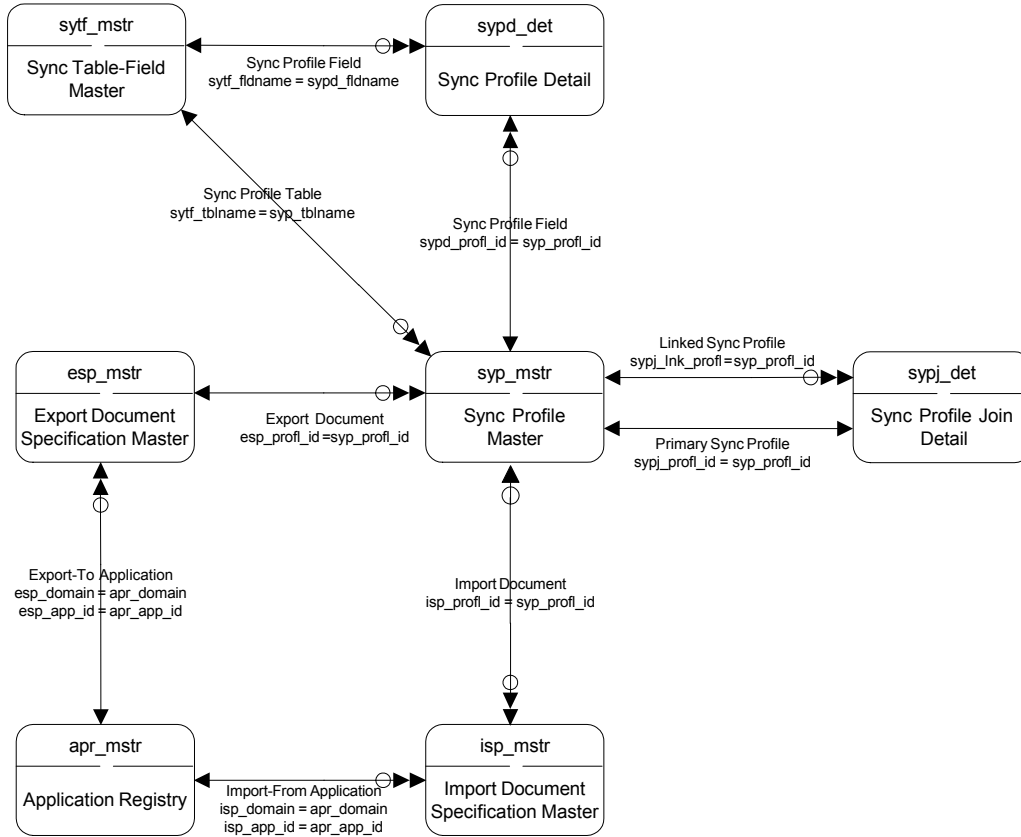
# Q/LinQ II



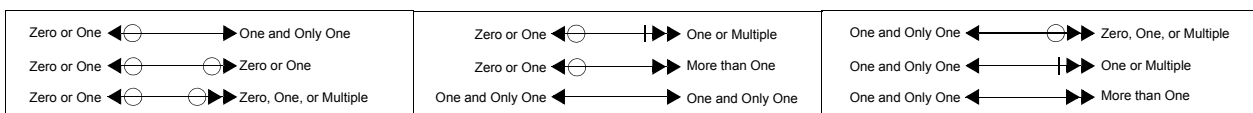
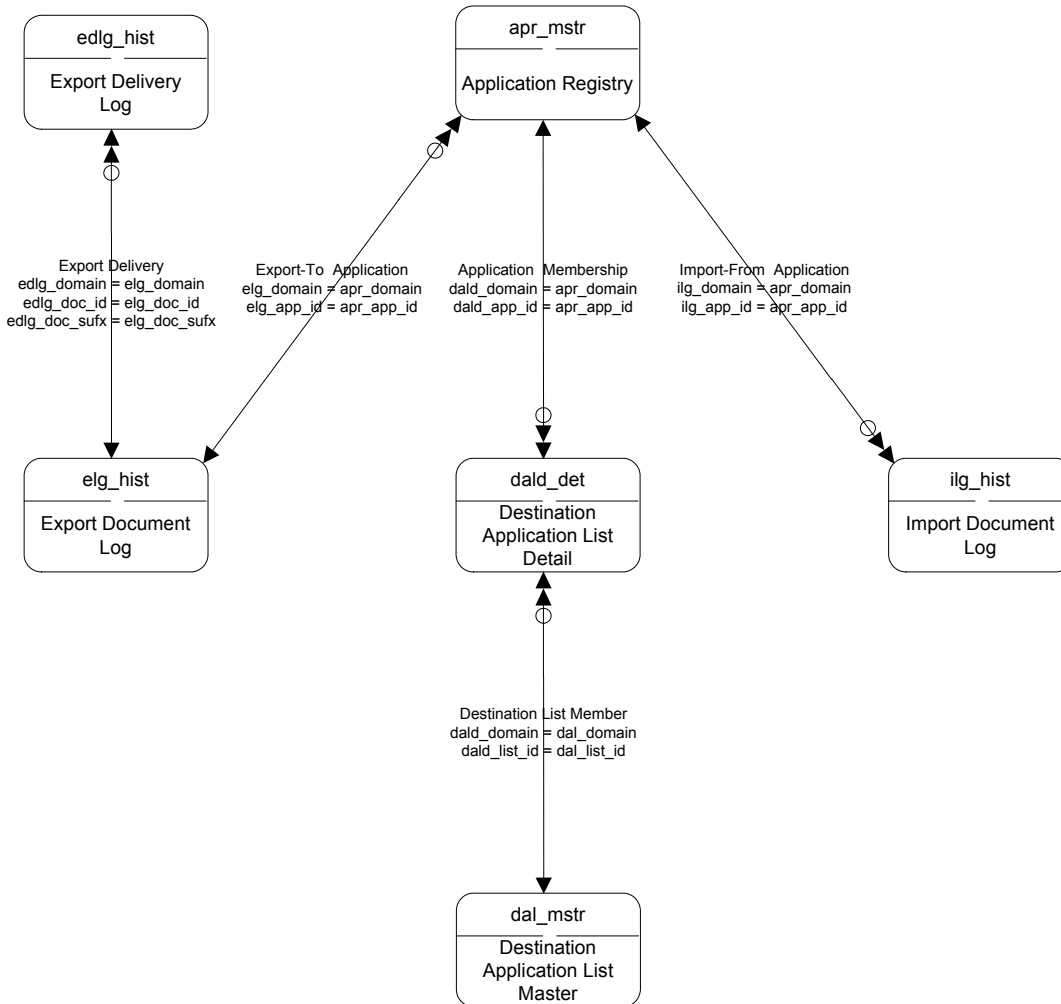
## Q/LinQ III



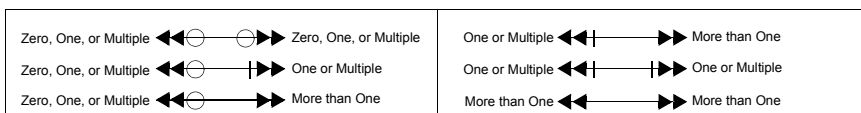
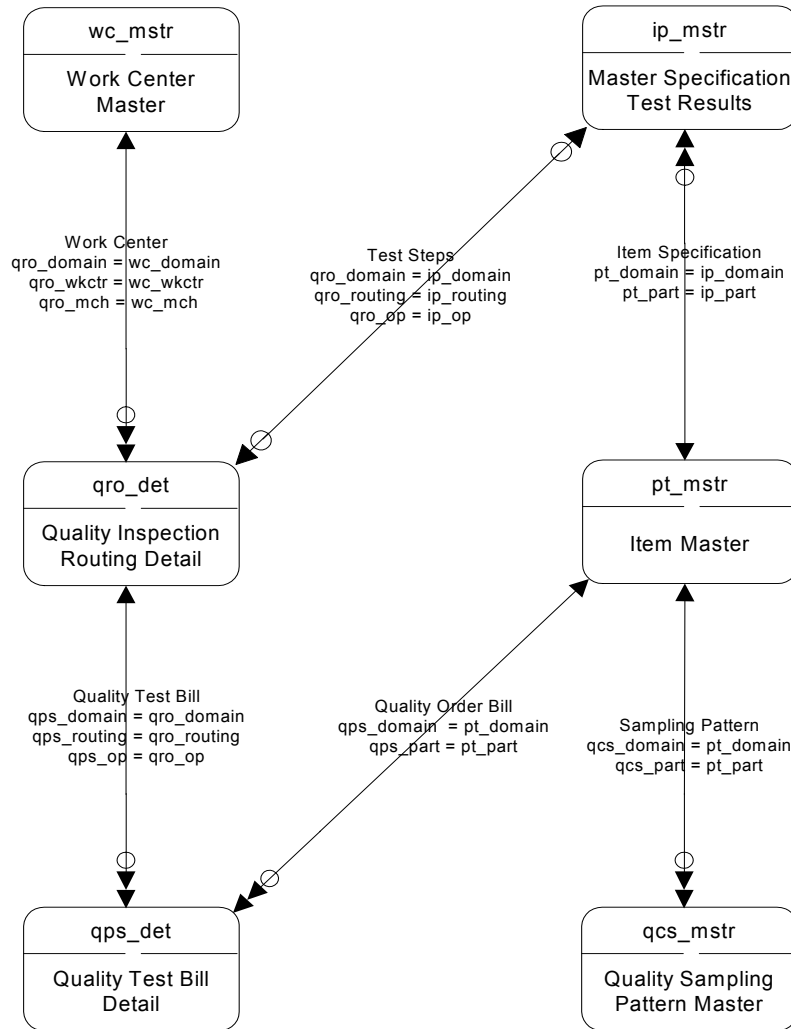
# Q/LinQ IV



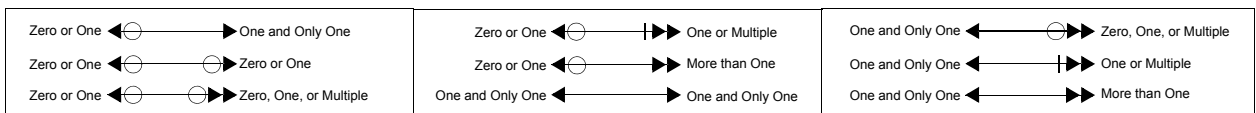
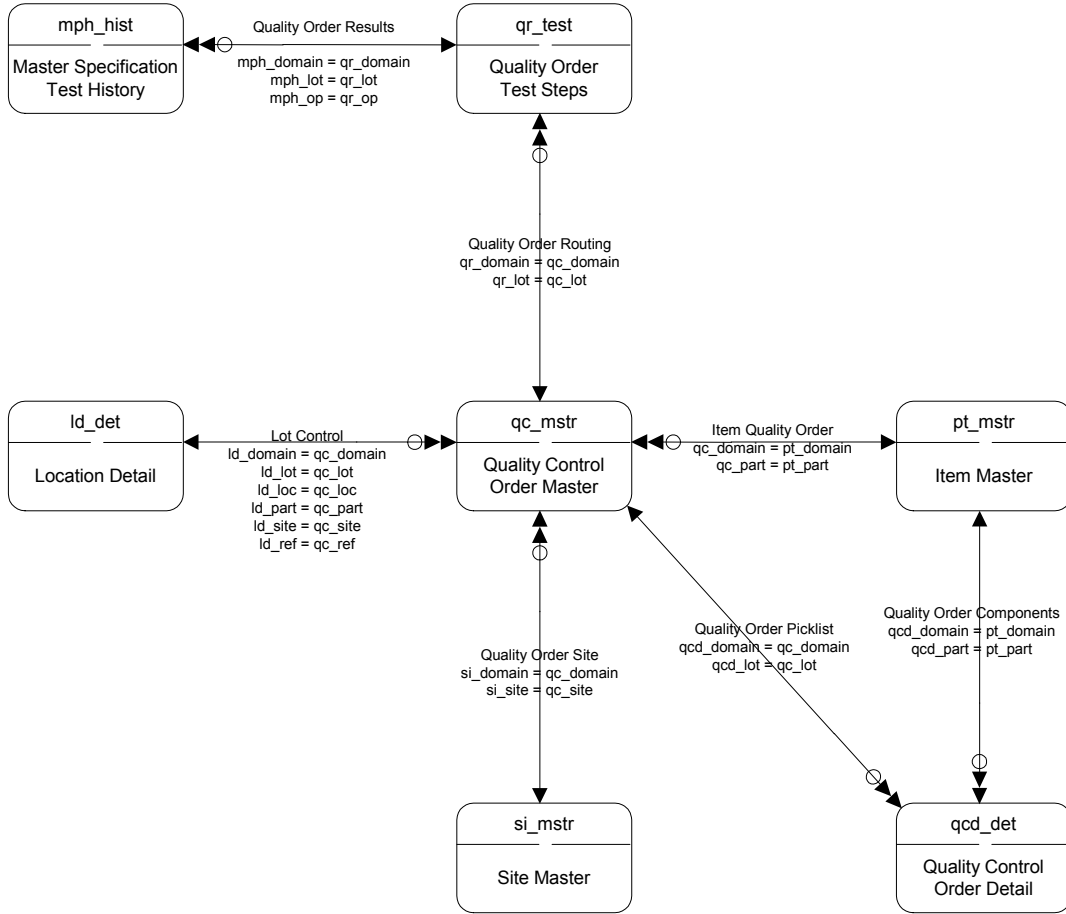
## Q/LinQ V



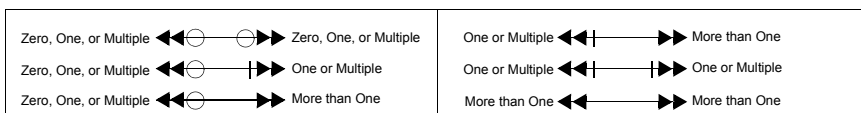
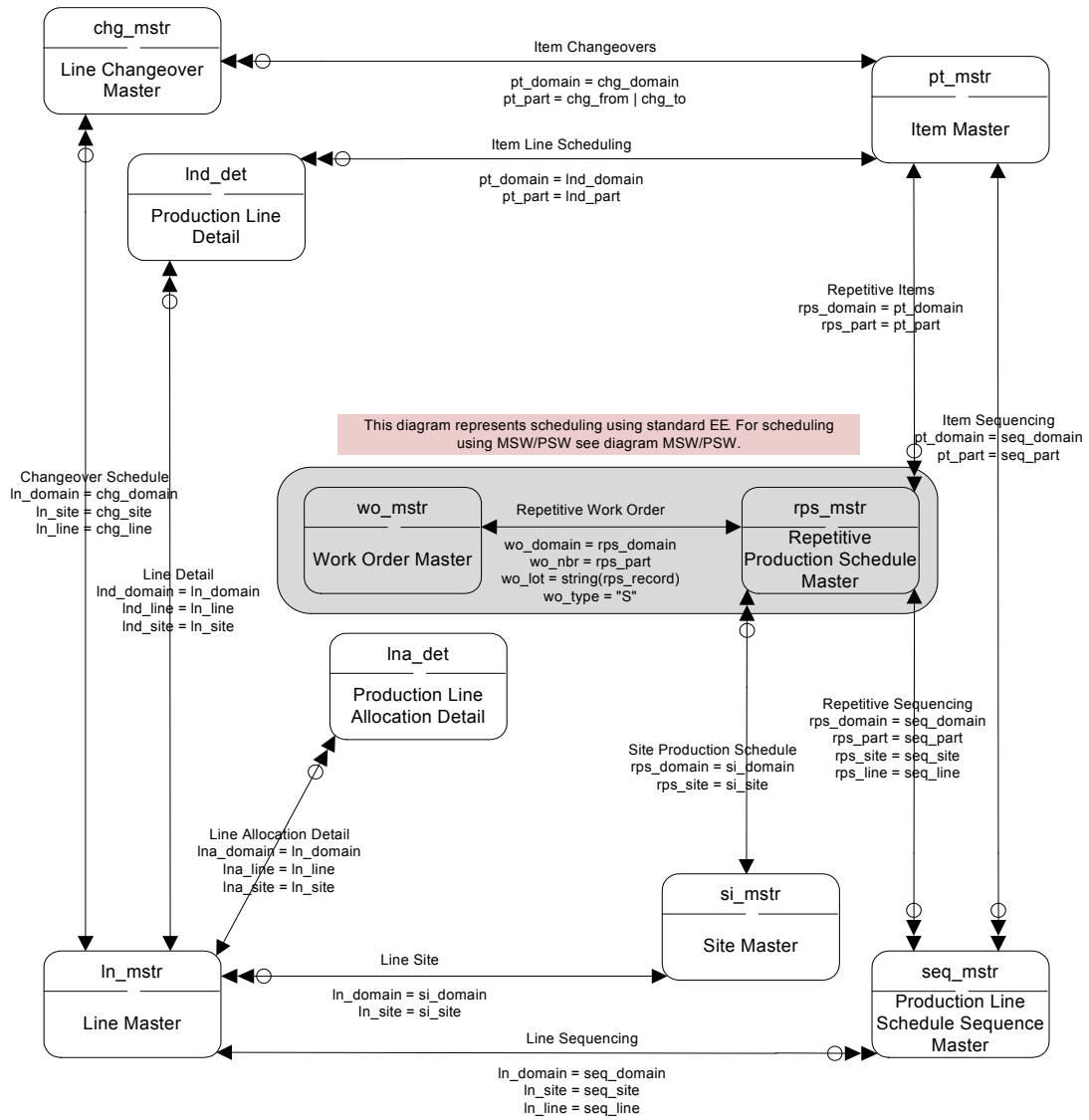
# Quality Management



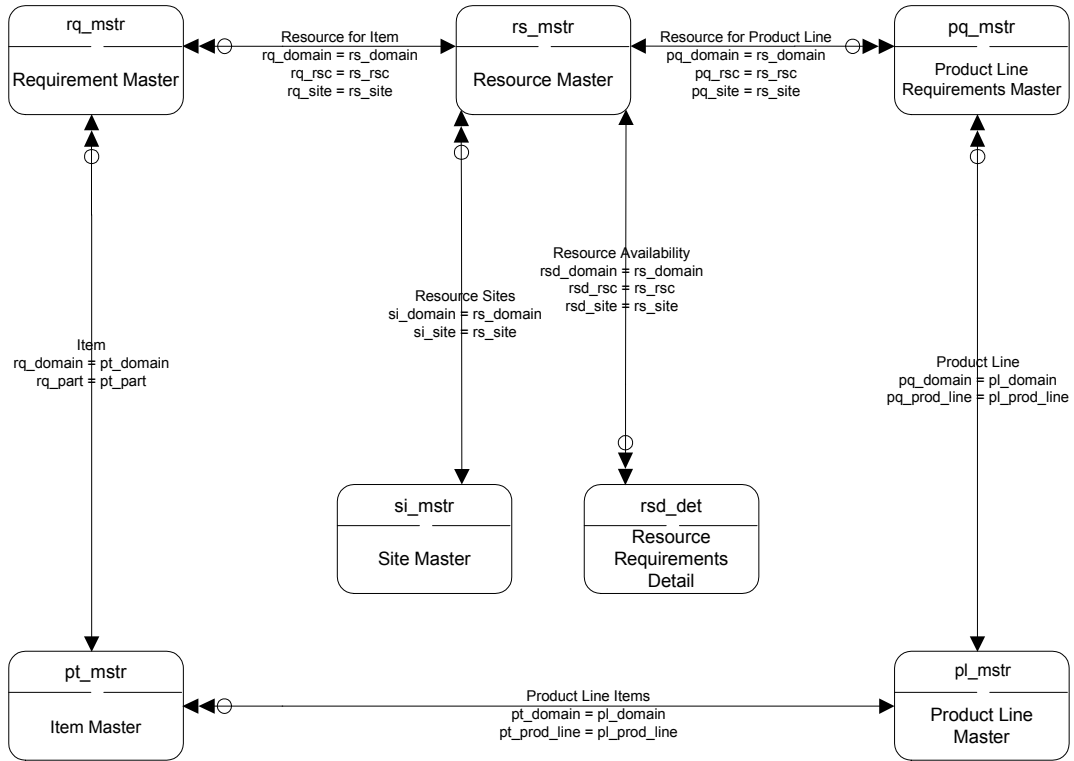
## Quality Orders



# Repetitive Schedule

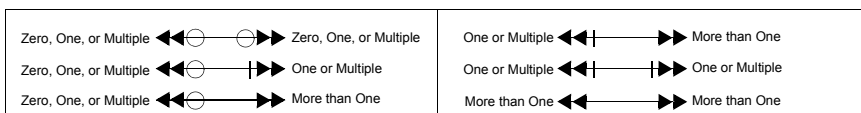
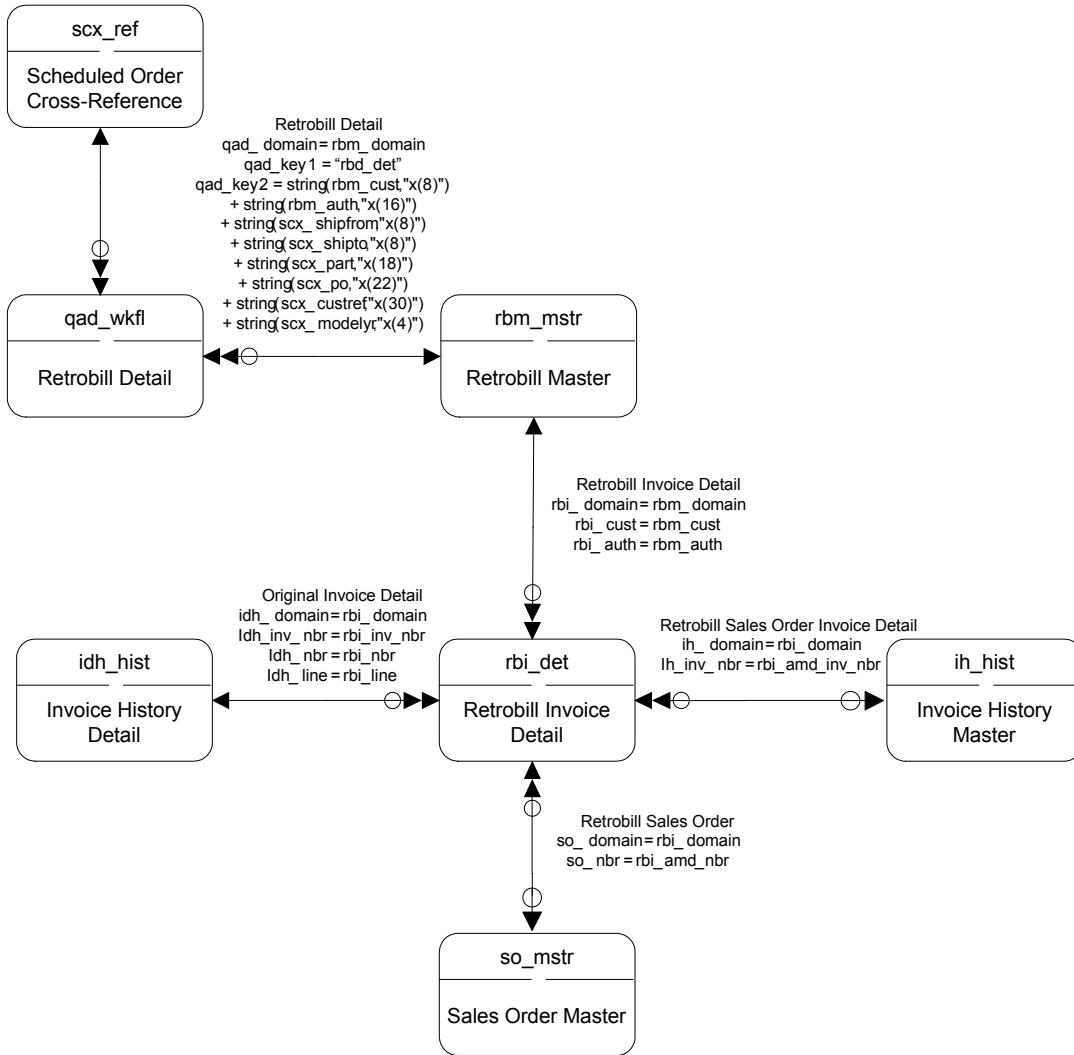


## Resource Plan

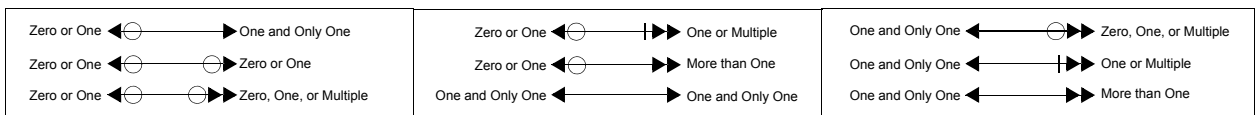
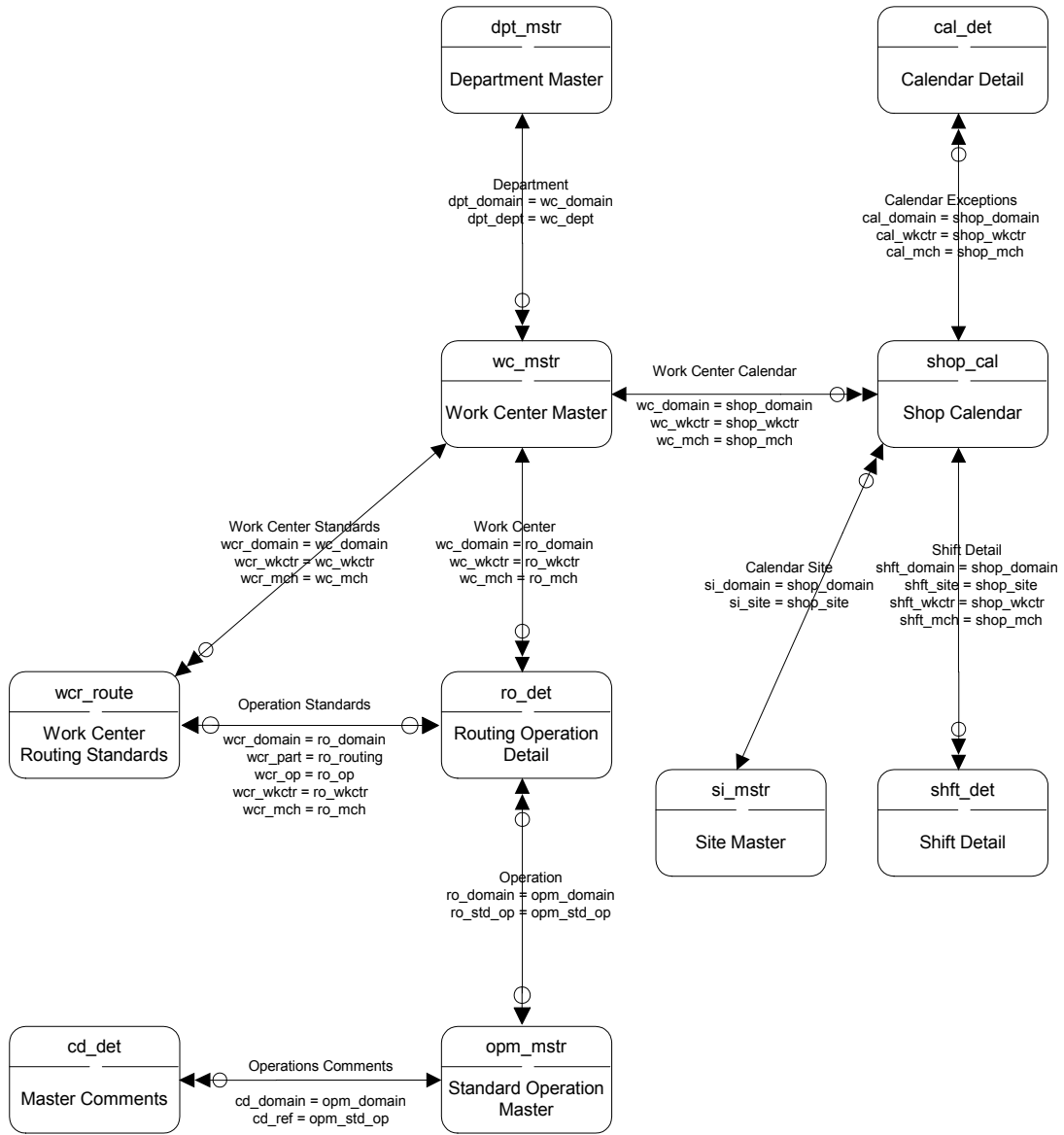


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \dashv \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \dashv \dashv \longrightarrow$ More than One

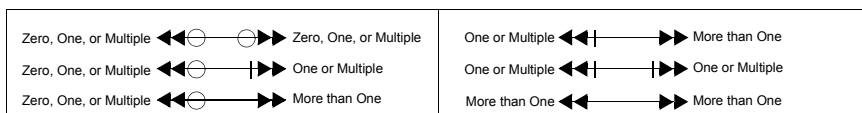
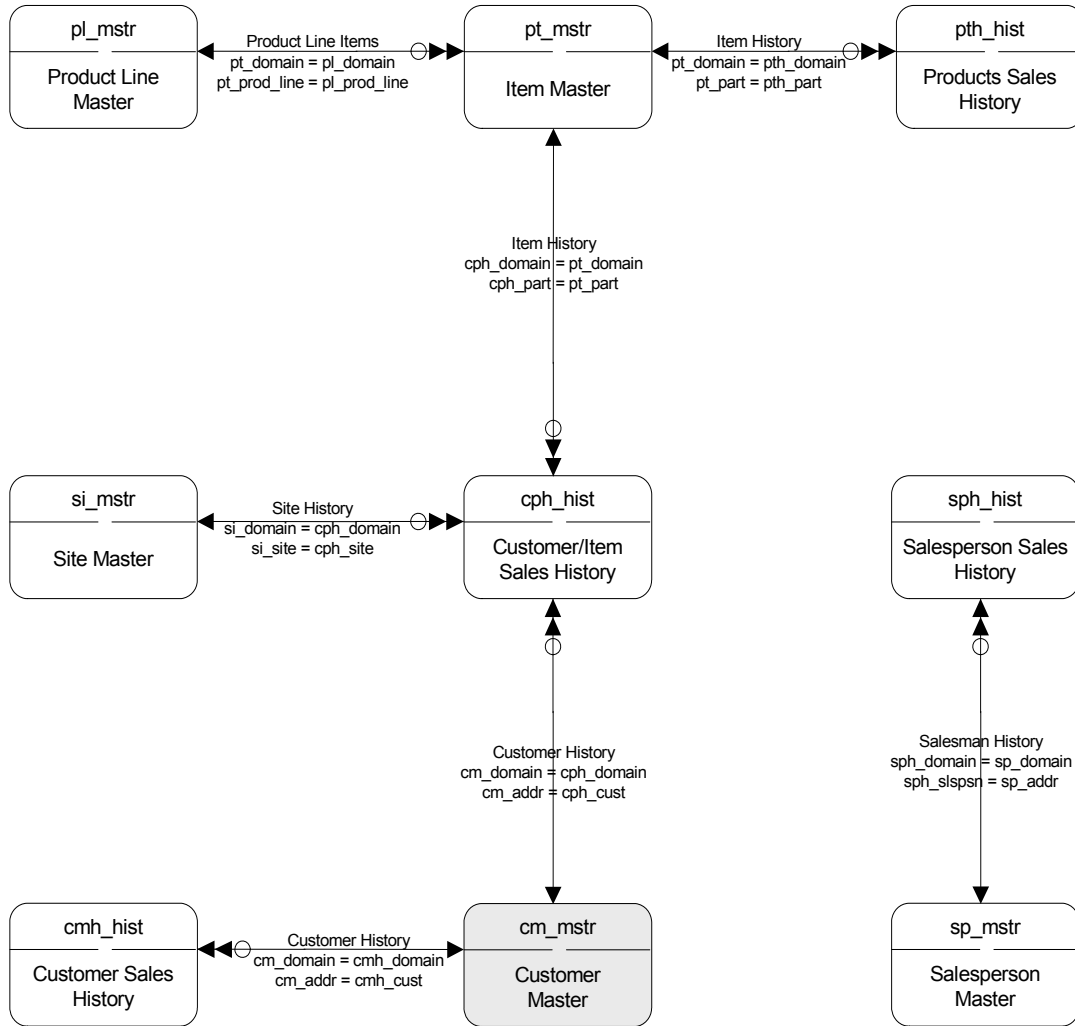
# Retrobilling



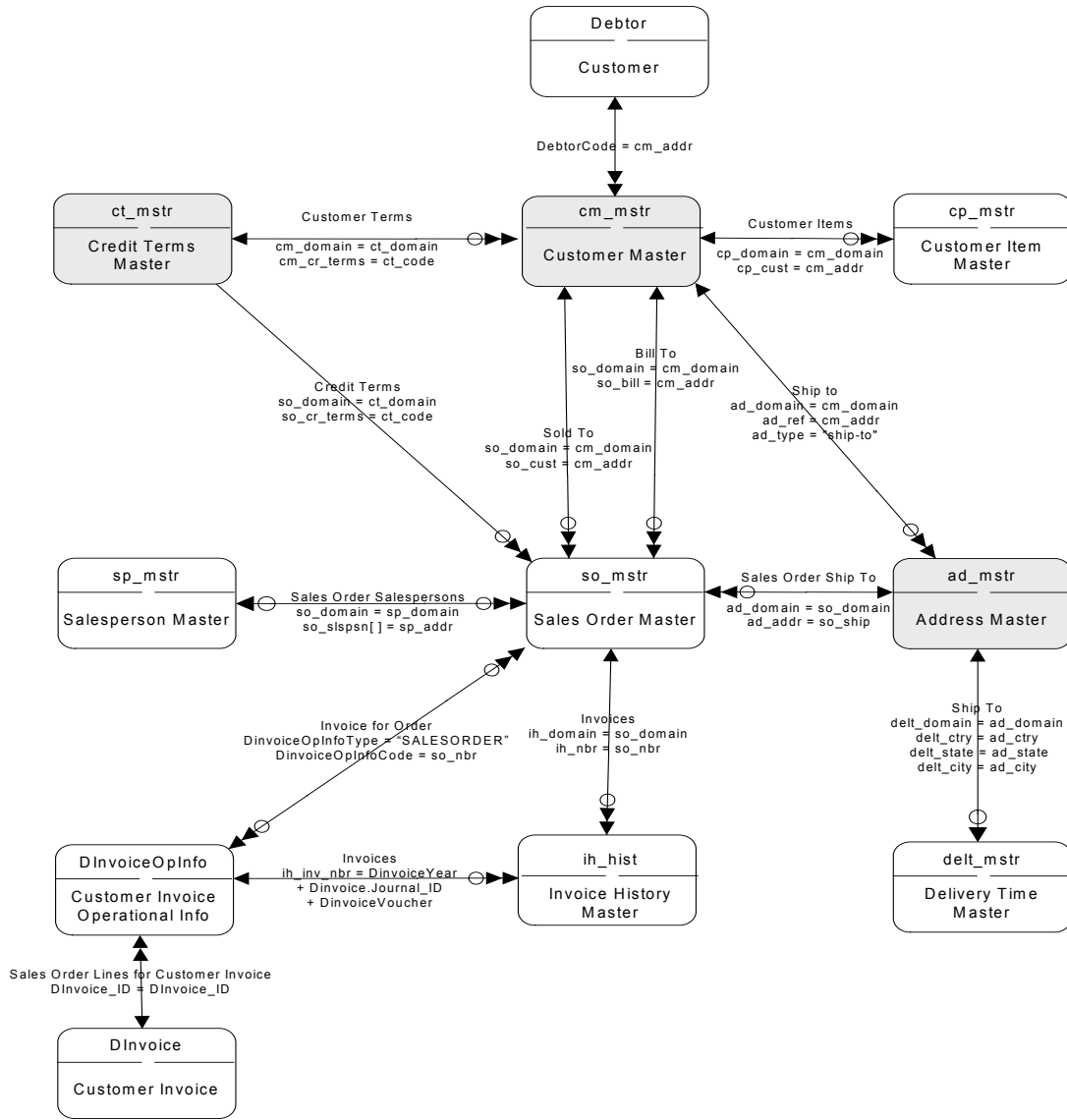
# Routing Standards



## Sales Analysis

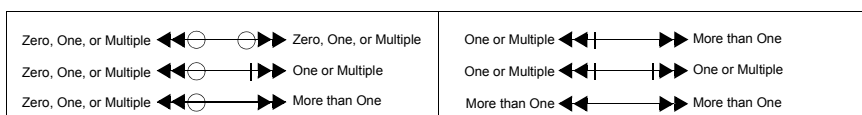
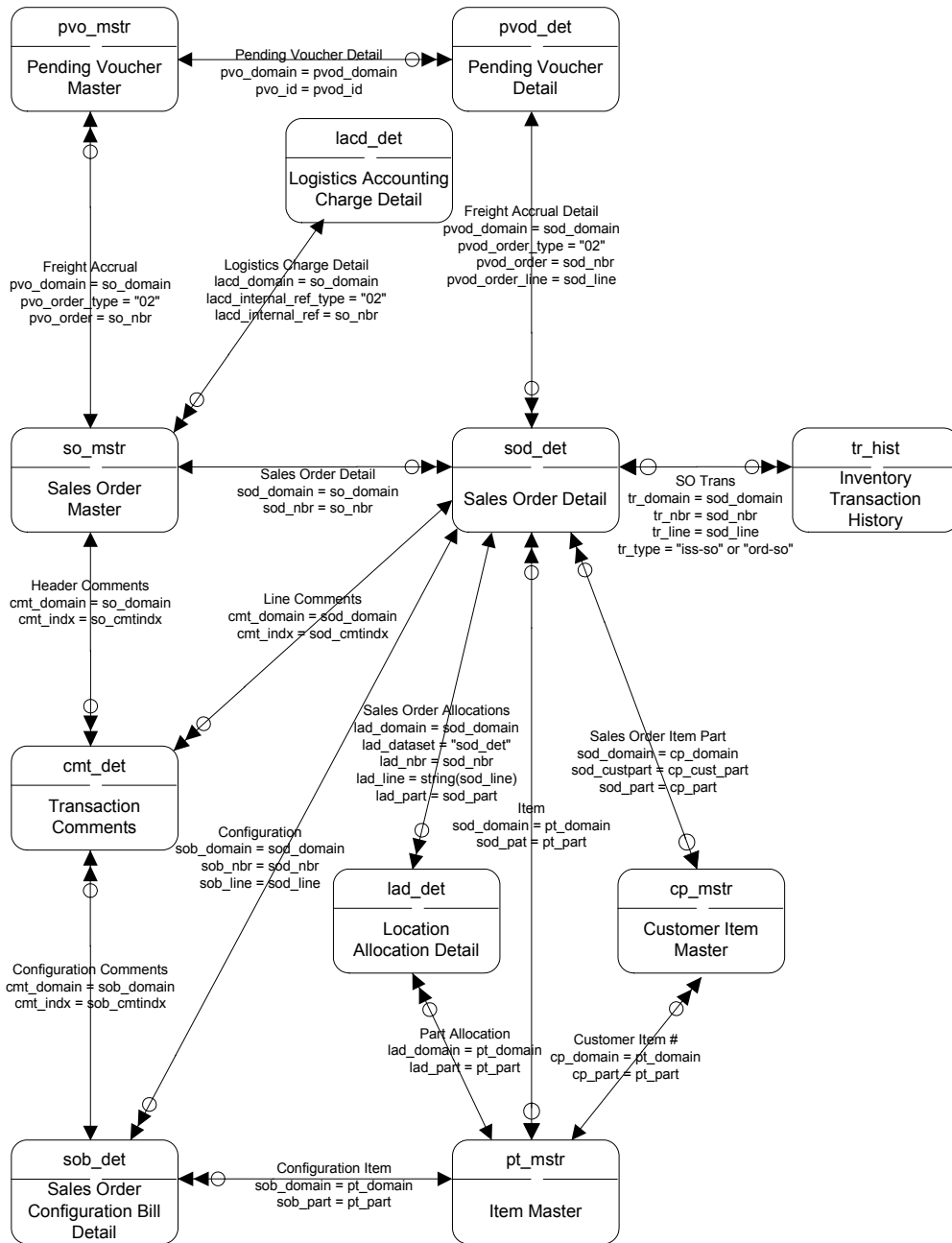


# Sales Orders I

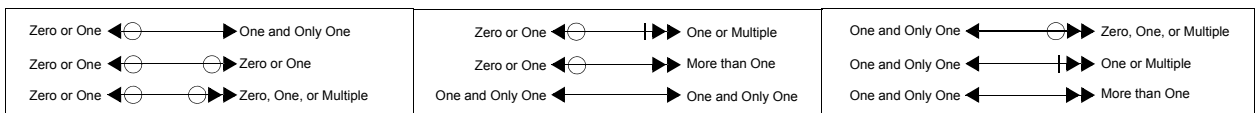
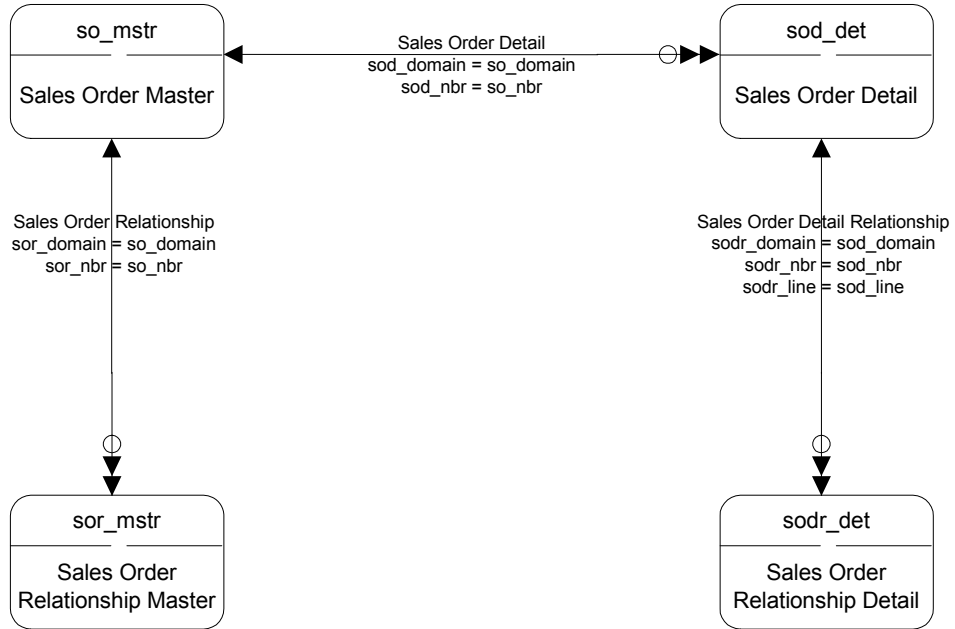


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow$ Zero or One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \rightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \rightarrow$ More than One

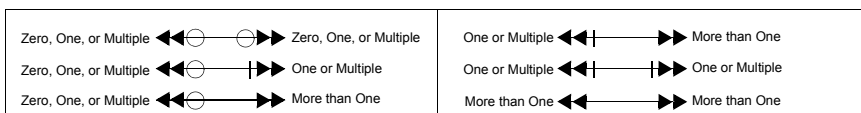
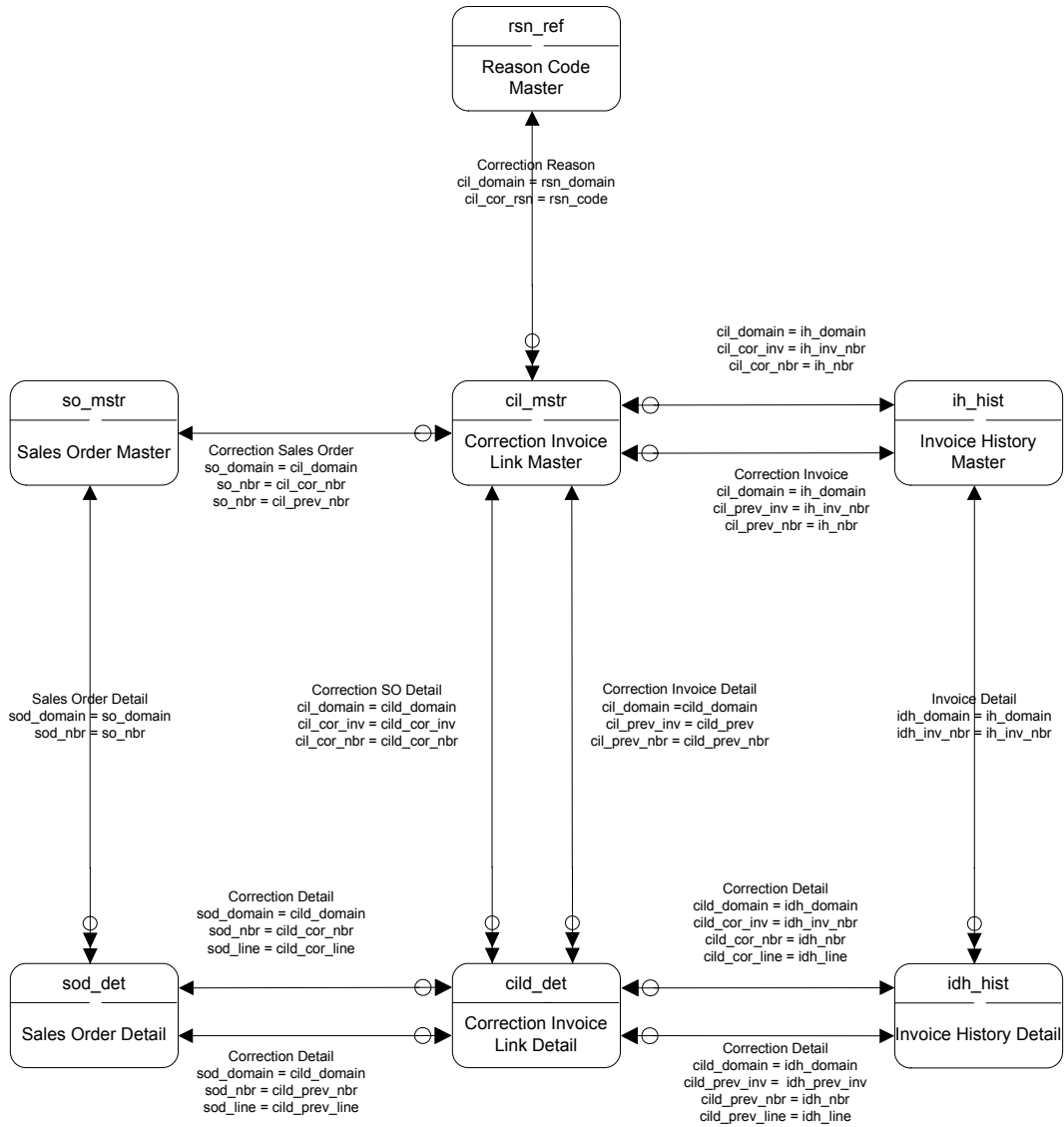
## Sales Orders II



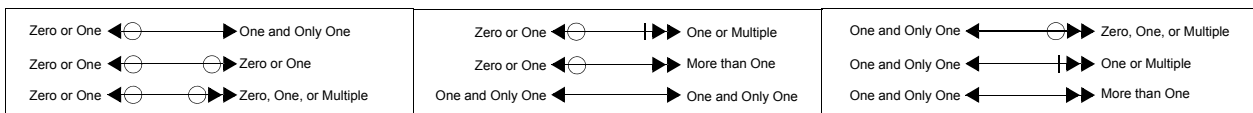
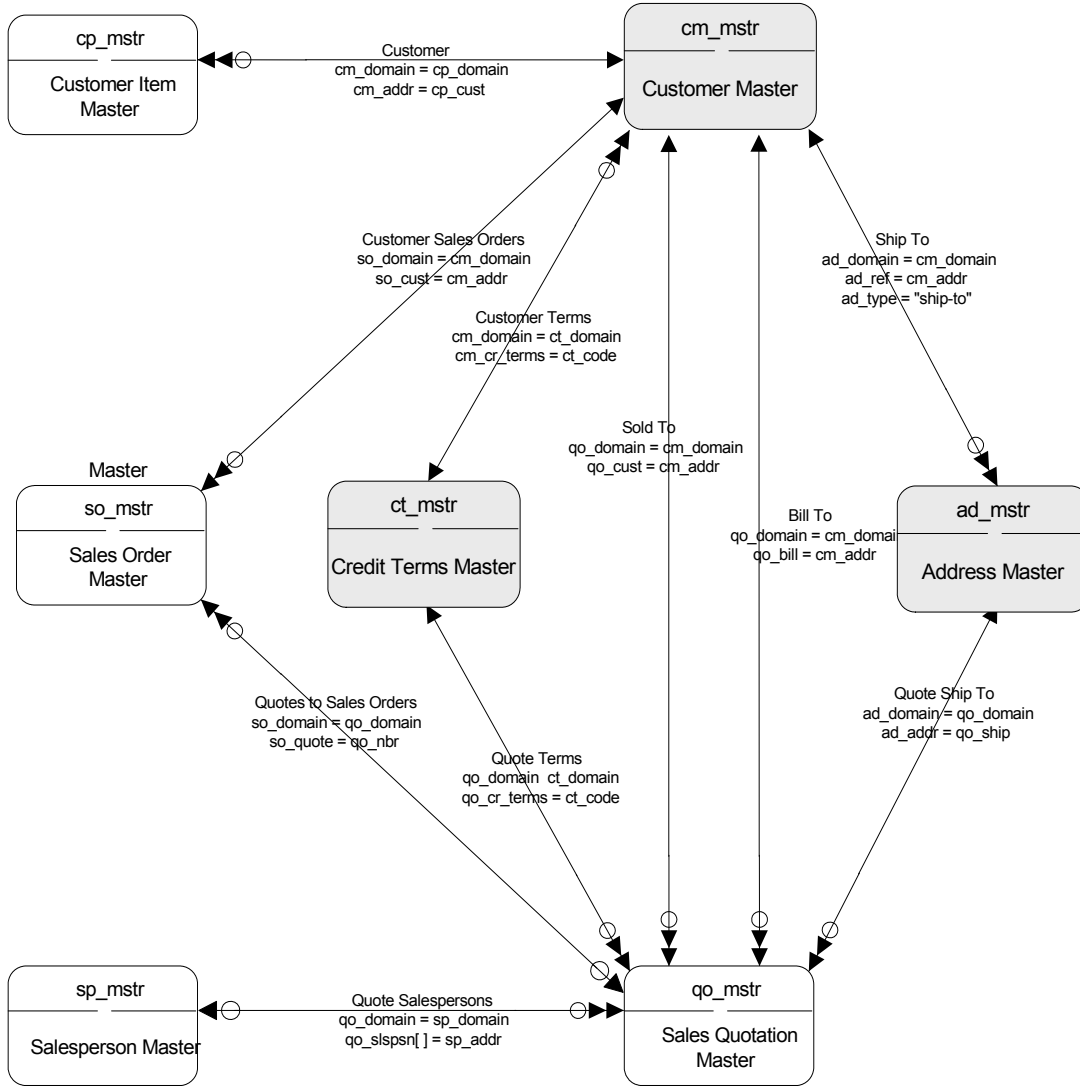
## Sales Orders III



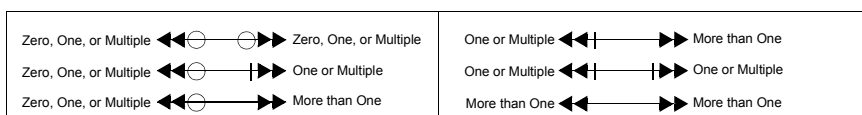
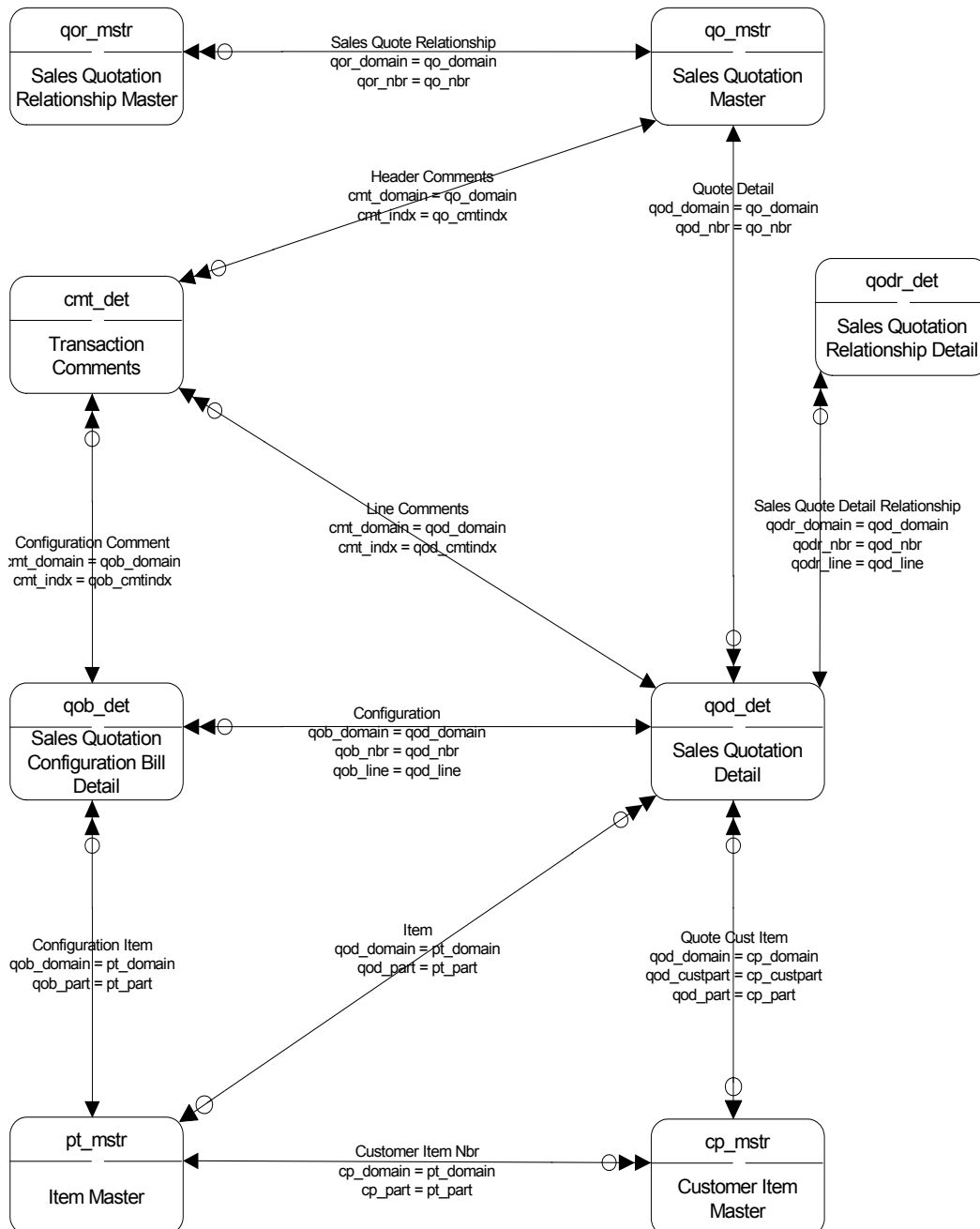
# Sales Order IV



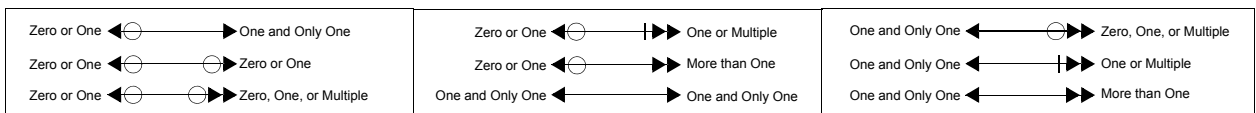
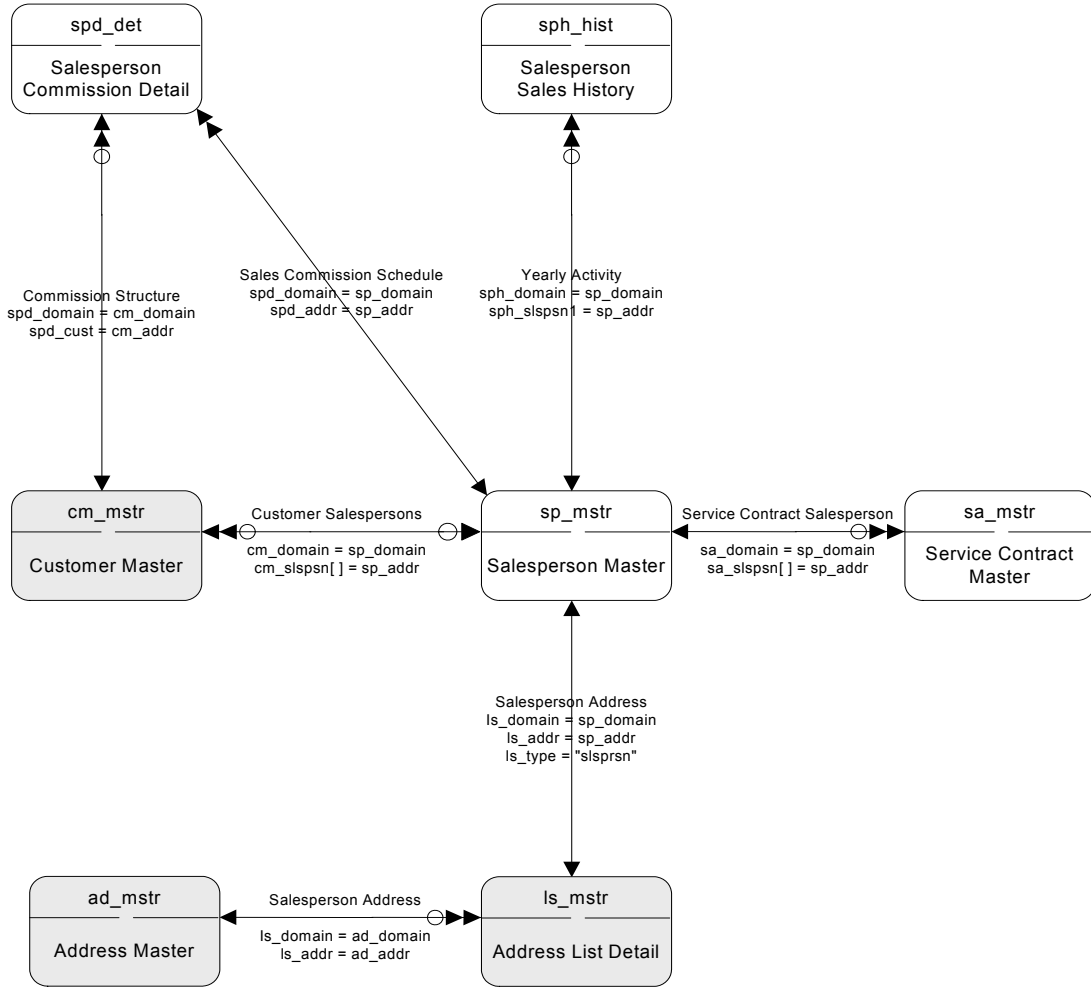
## Sales Quotations I



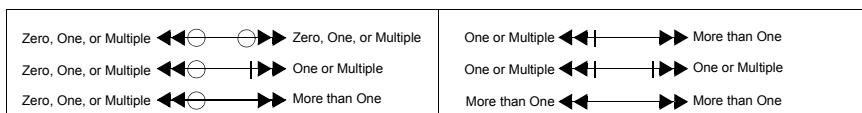
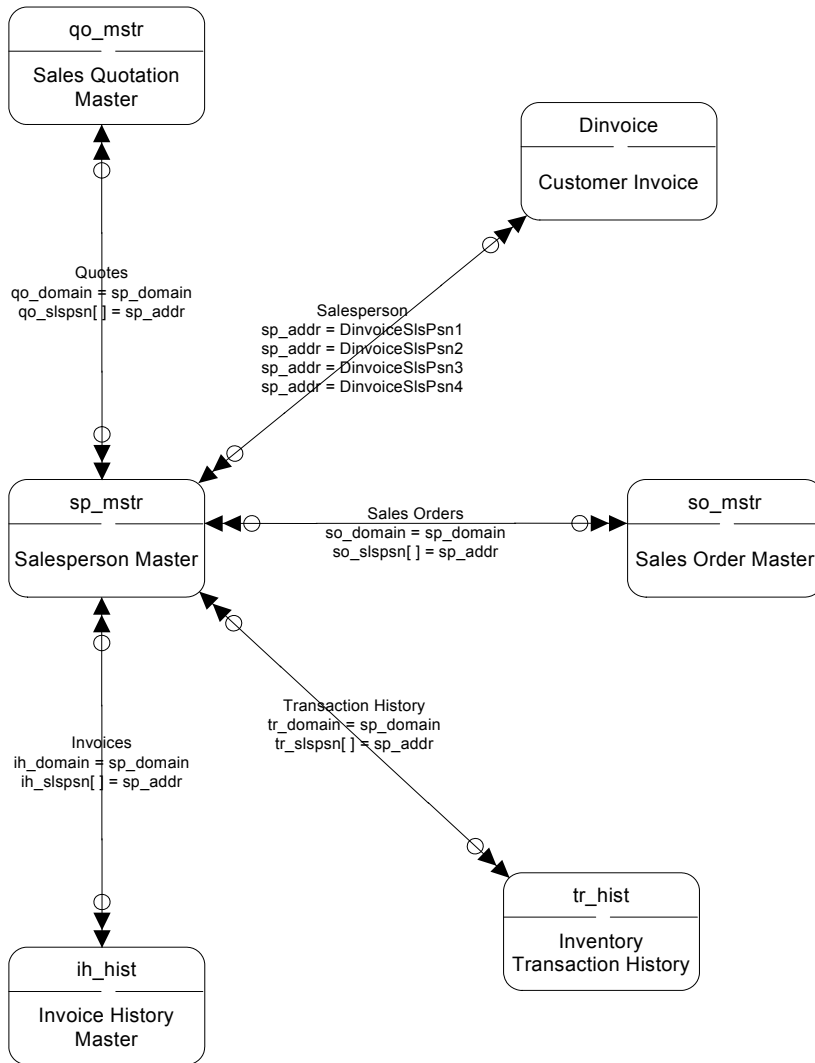
## Sales Quotations II



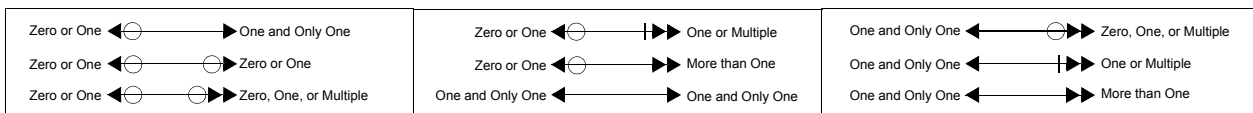
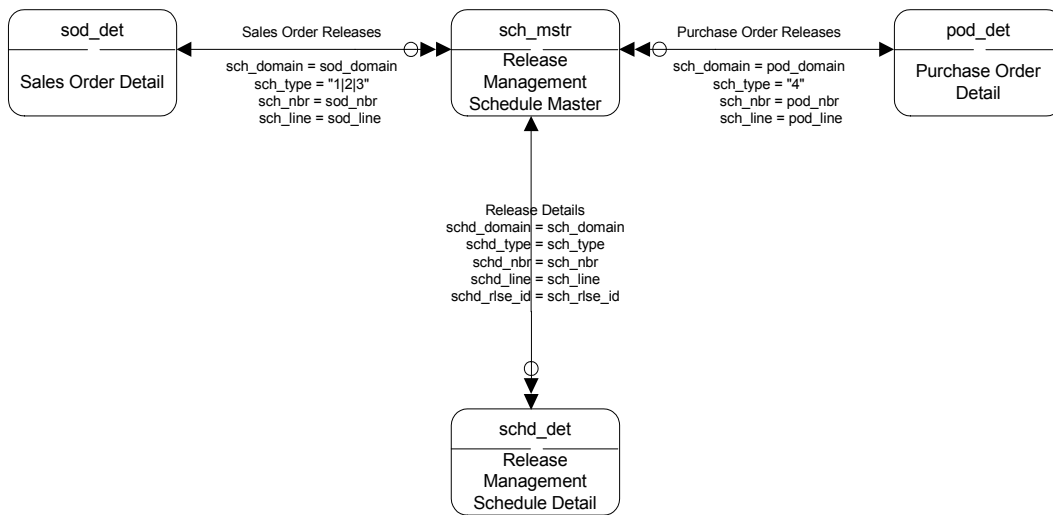
# Salesperson I



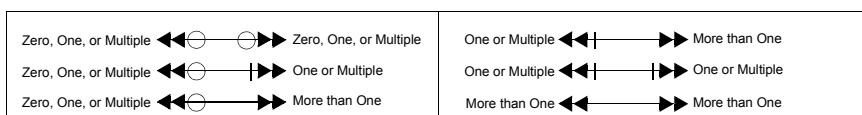
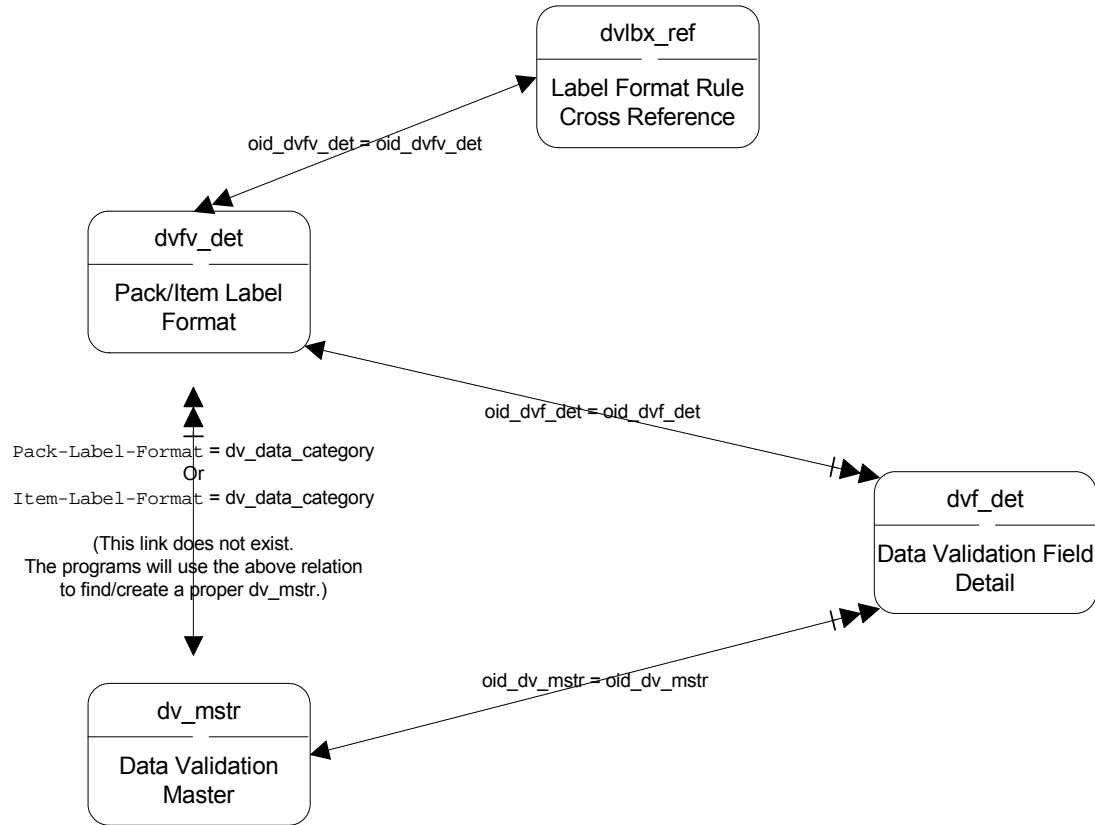
# Salesperson II



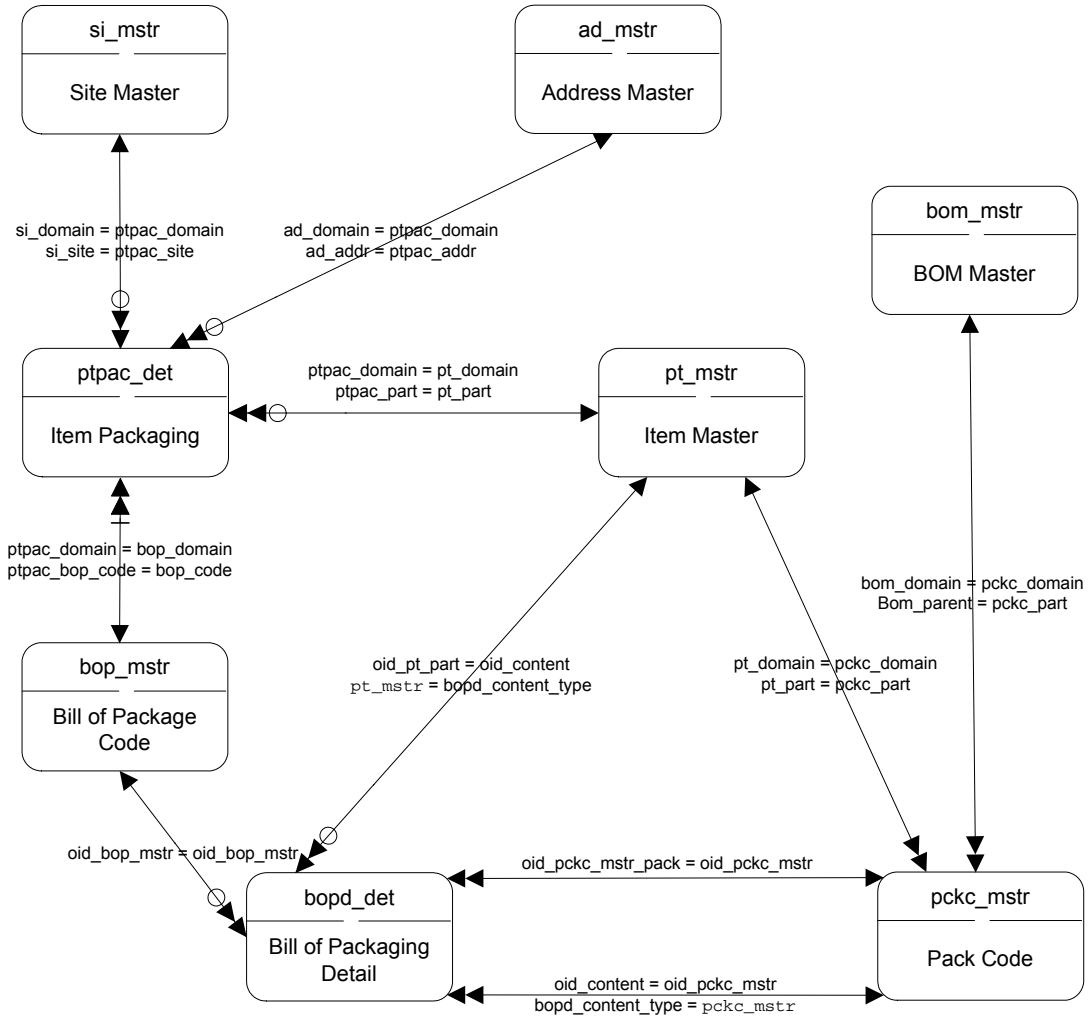
## Scheduled Order Management



## Serialization - Label Format

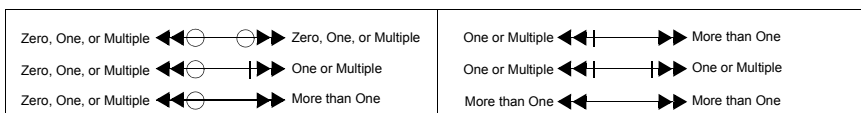
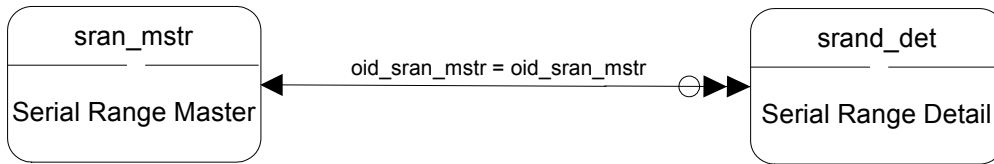


## Serialization - Packaging Structure

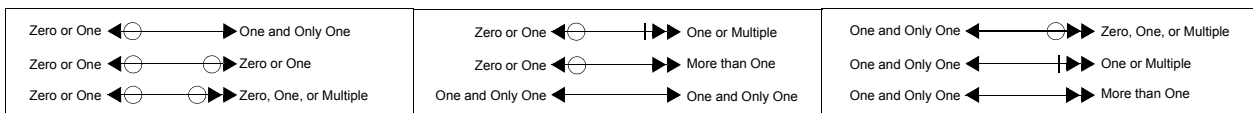
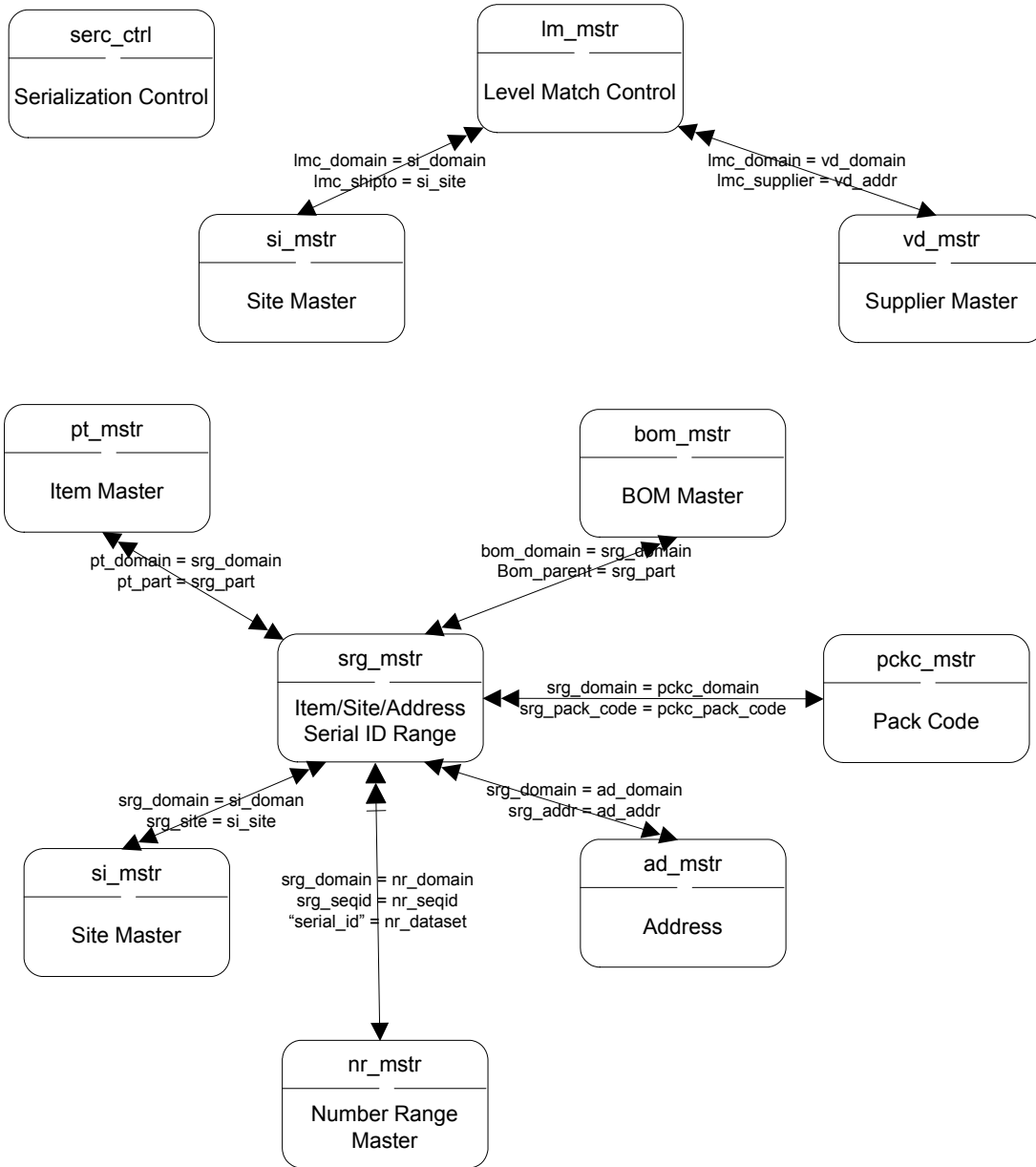


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \circ \longrightarrow$ Zero or One	Zero or One $\leftarrow \ominus \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \circ \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \longrightarrow$ More than One

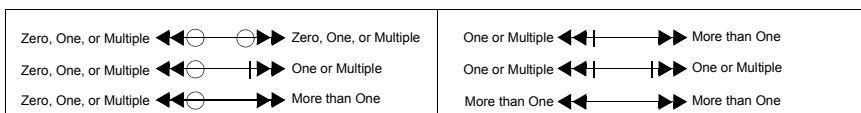
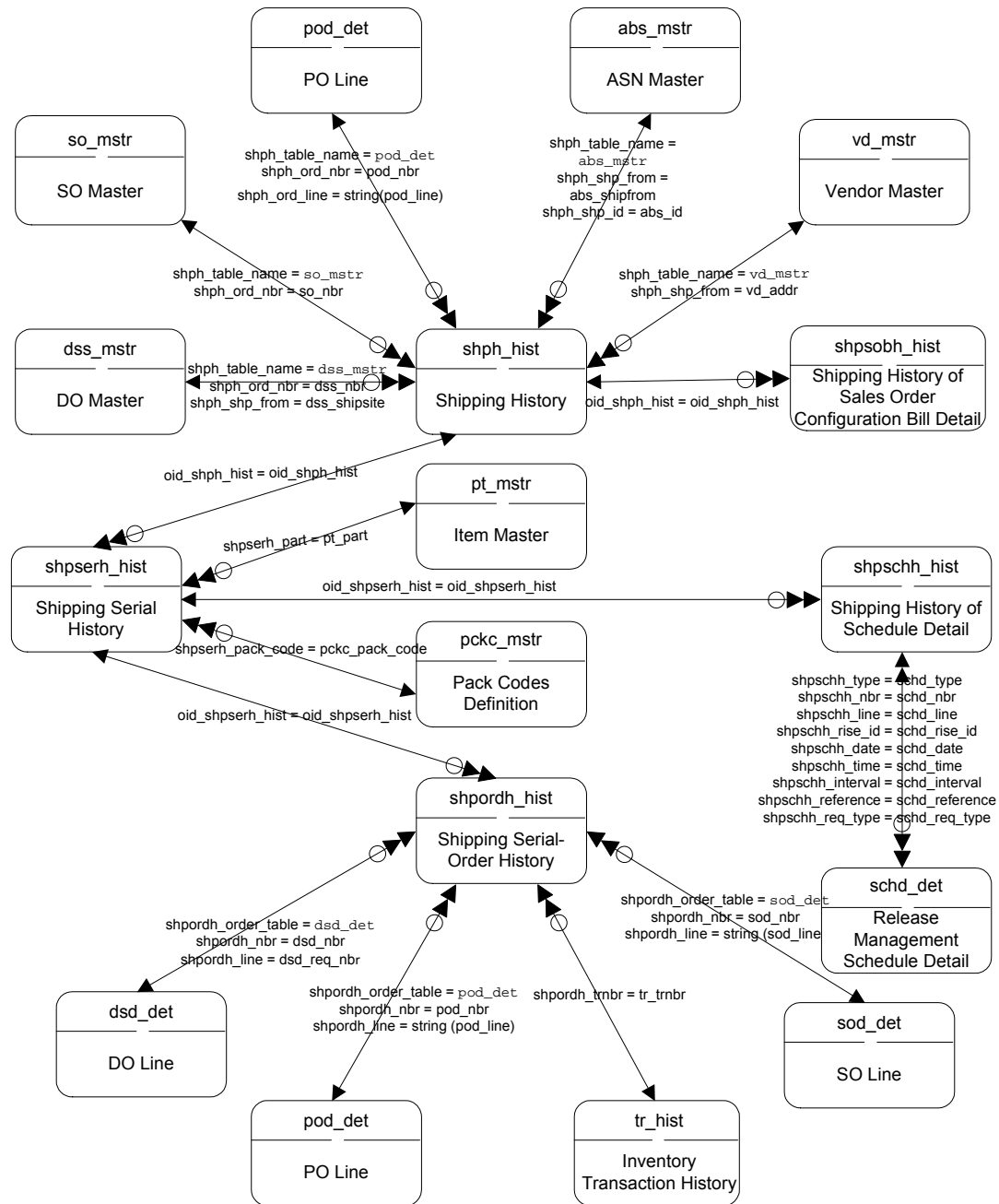
## Serialization - Serial Range



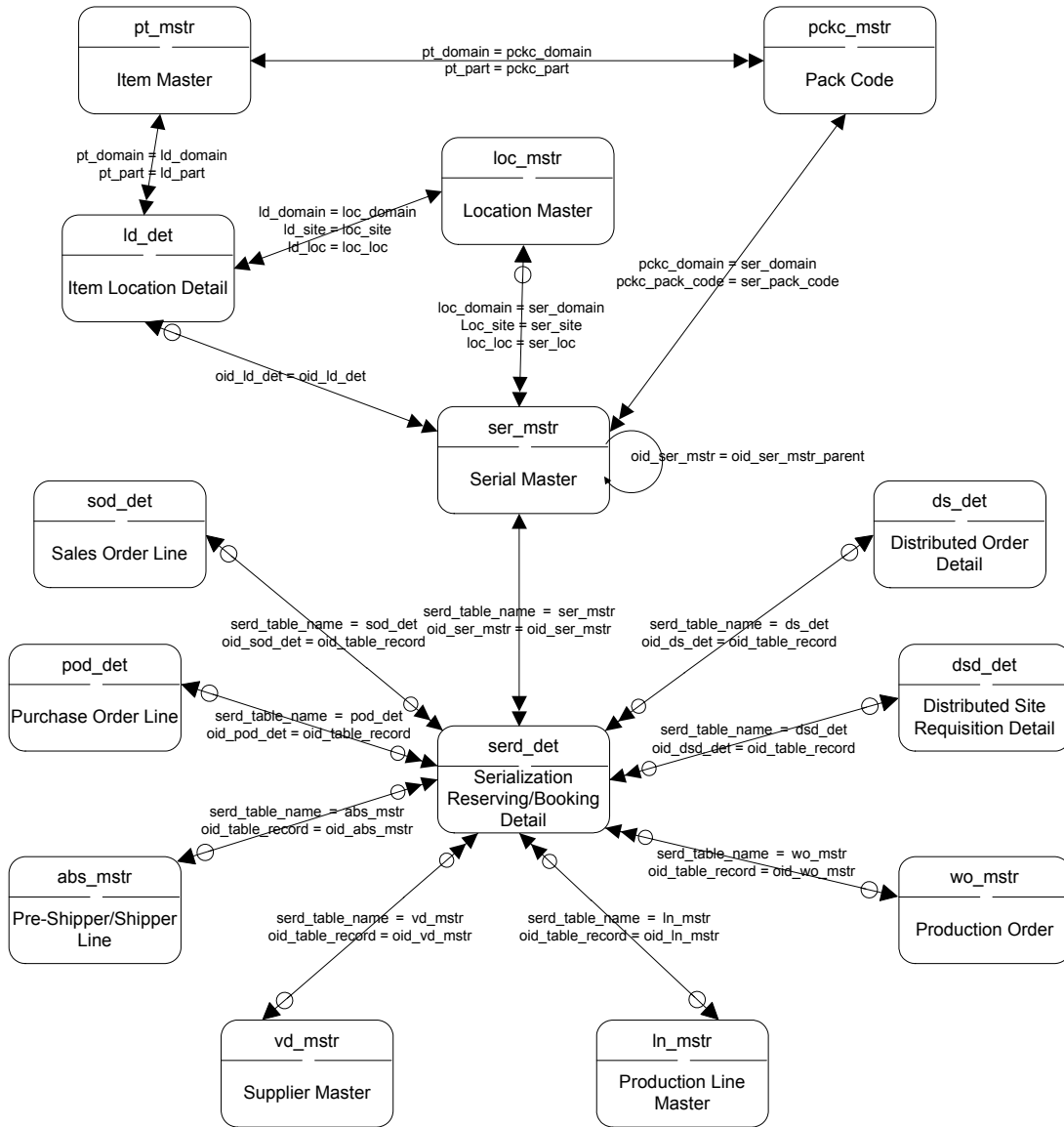
## Serialization - Setup



# Serialization - Shipping History

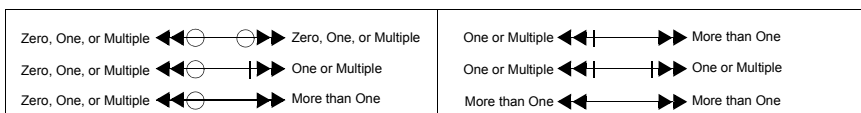
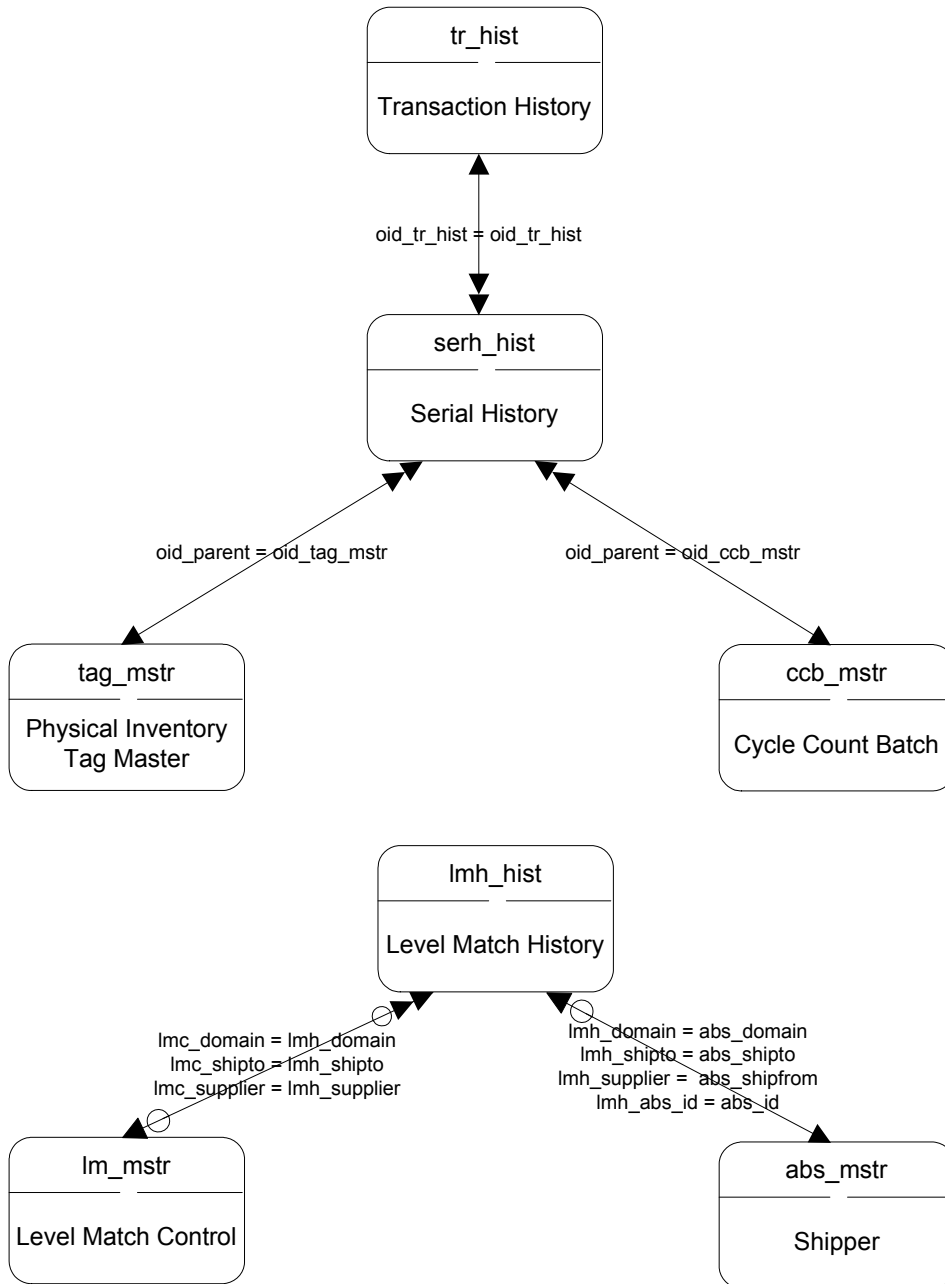


## Serialization - Transaction Data

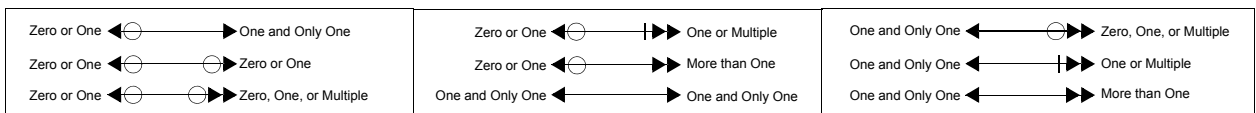
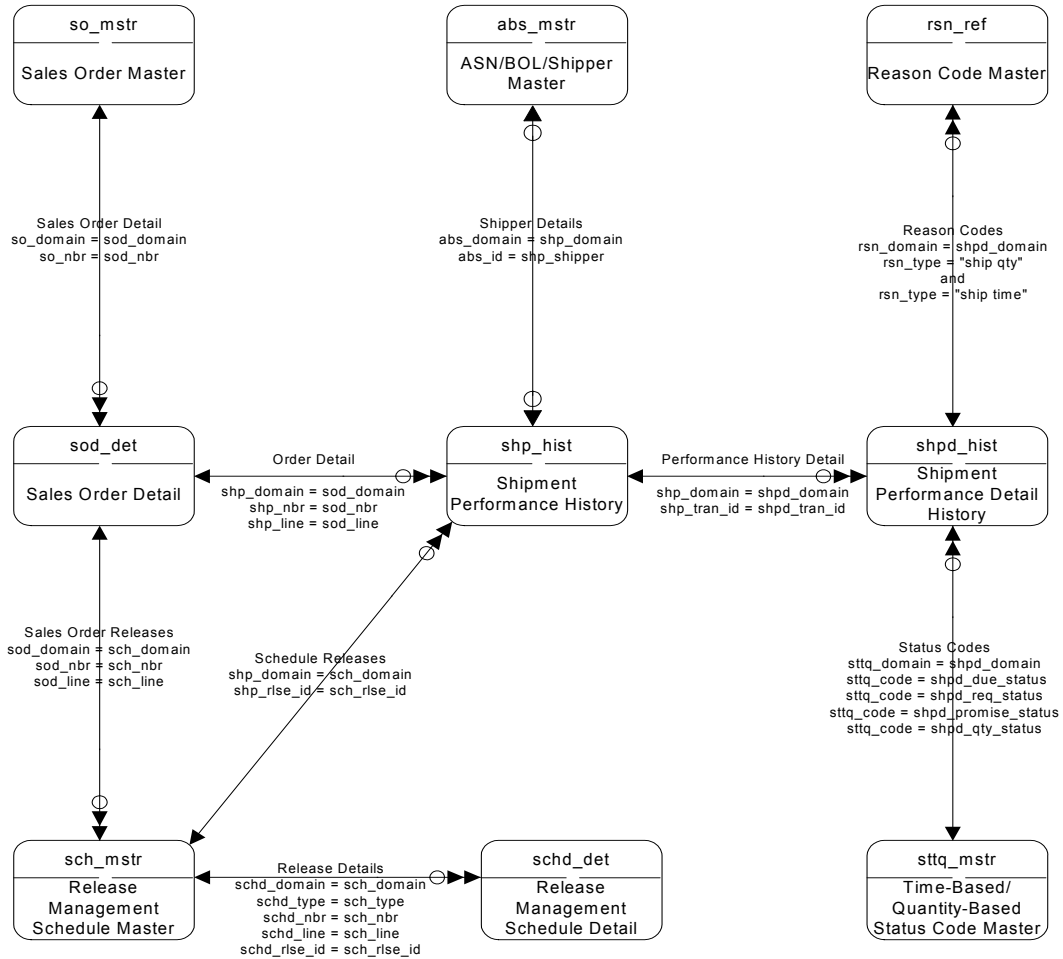


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \circ \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \circ \longrightarrow$ Zero or One	Zero or One $\leftarrow \ominus \parallel \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \circ \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \parallel \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \circ \longrightarrow$ More than One

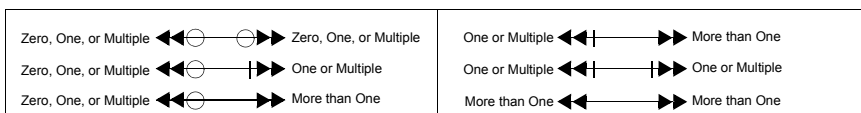
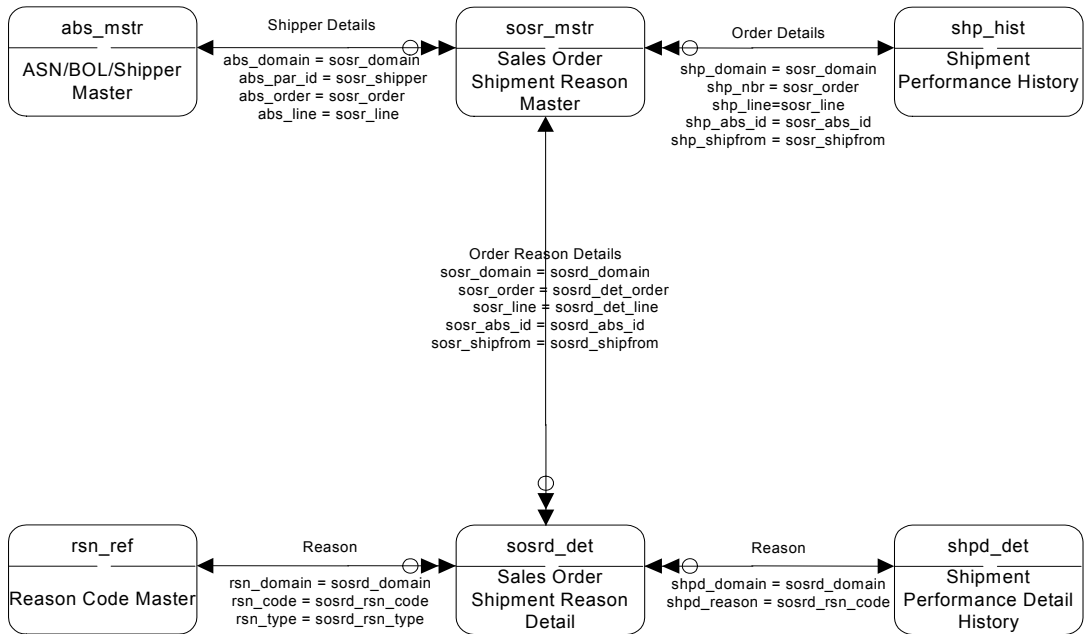
## Serialization - Transaction History



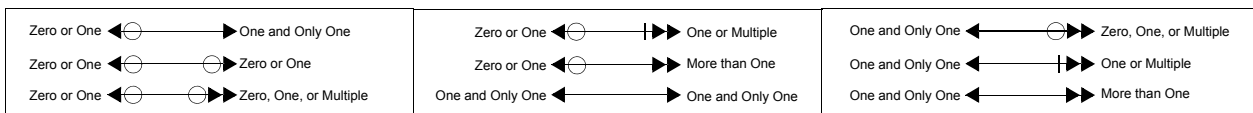
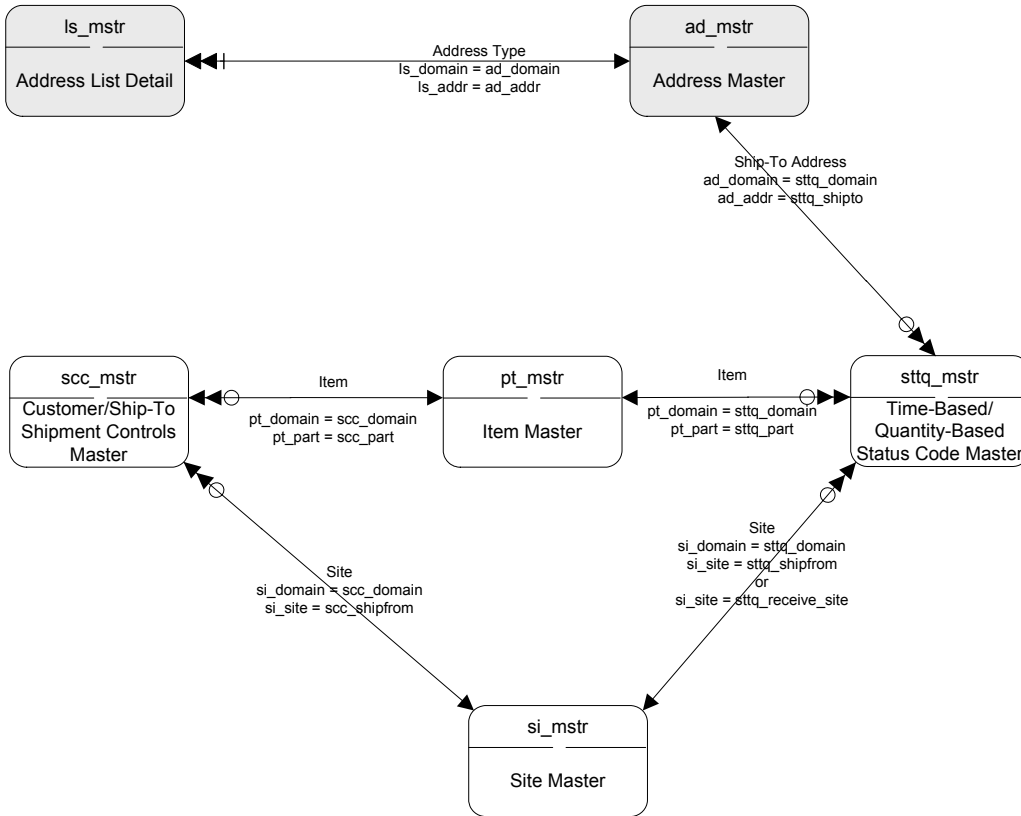
# Shipment Performance I



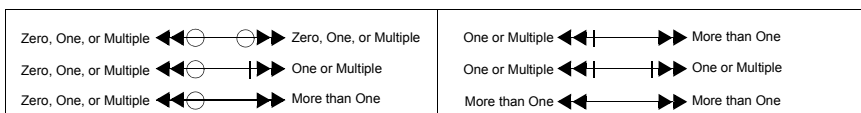
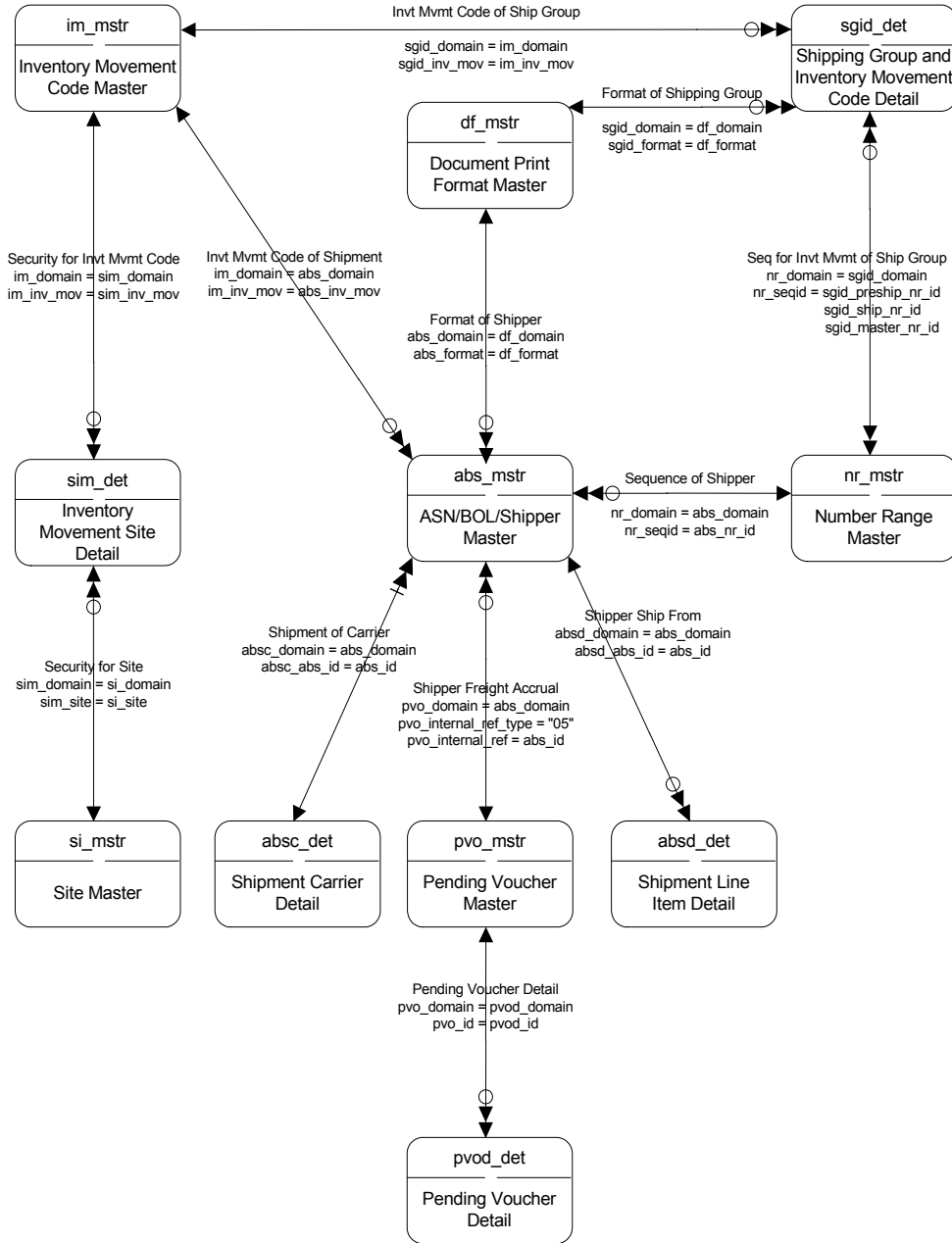
# Shipment Performance II



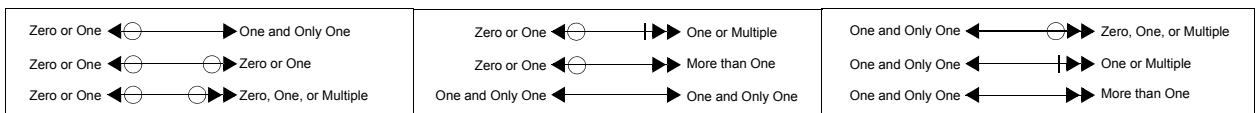
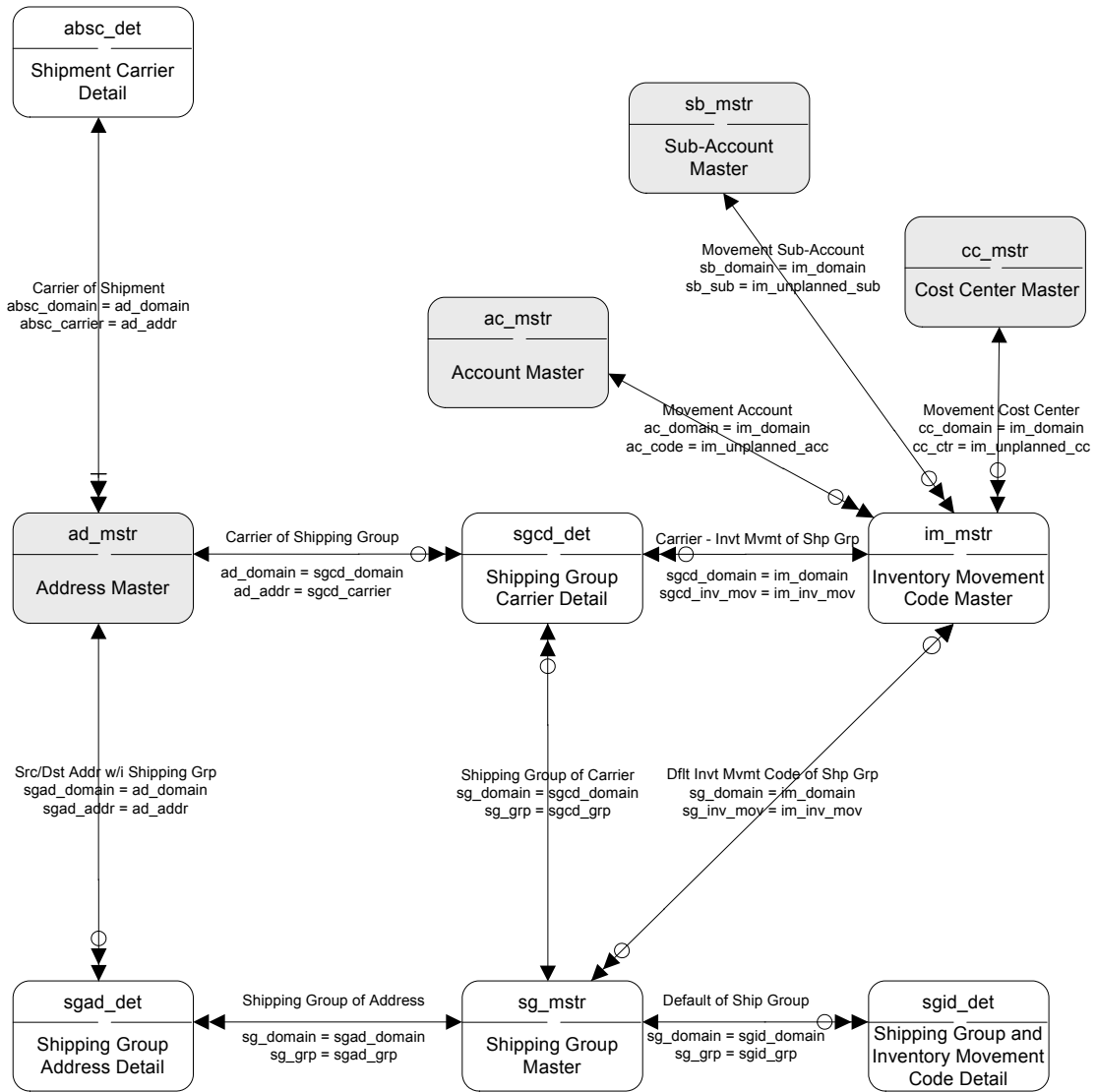
## Shipment Performance III



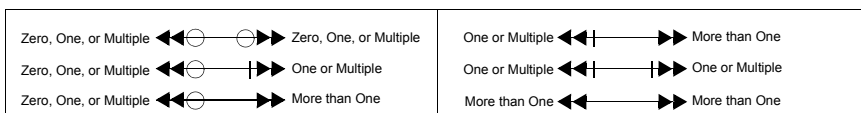
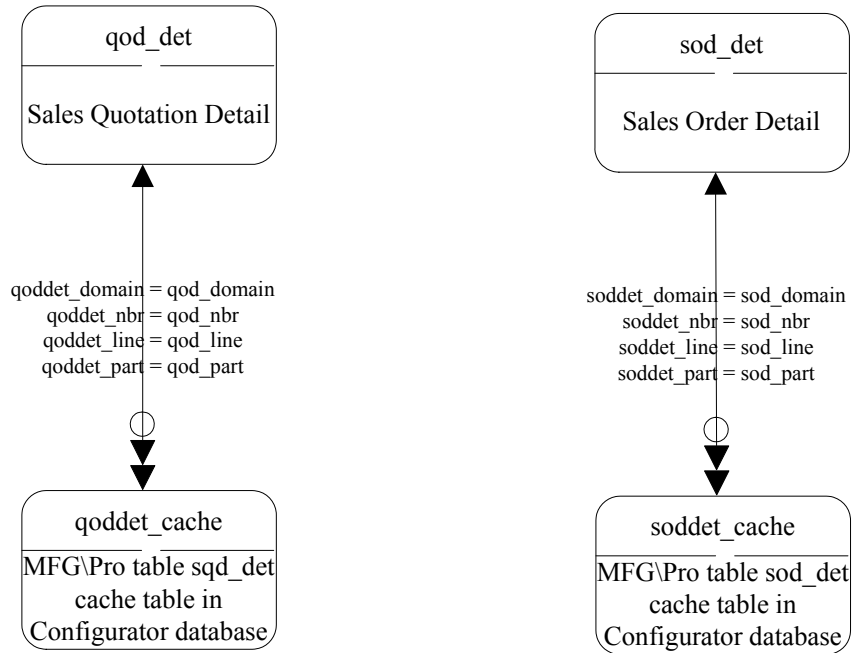
# Shipping I



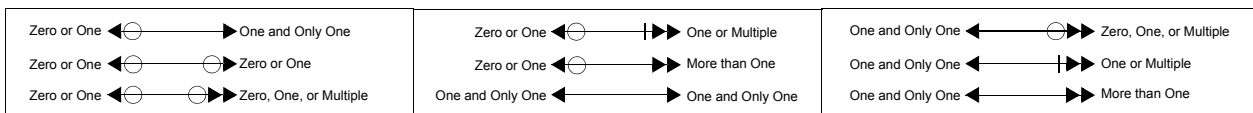
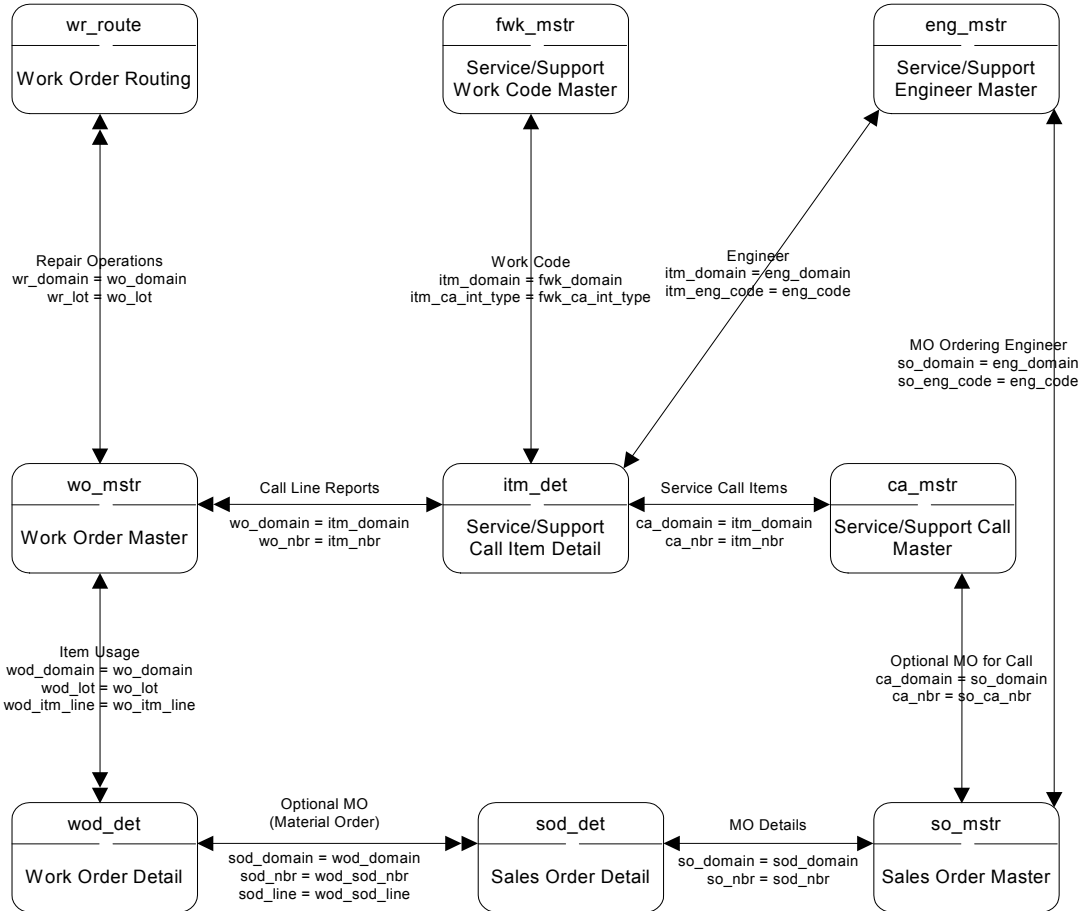
## Shipping II



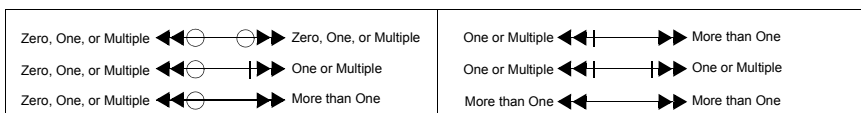
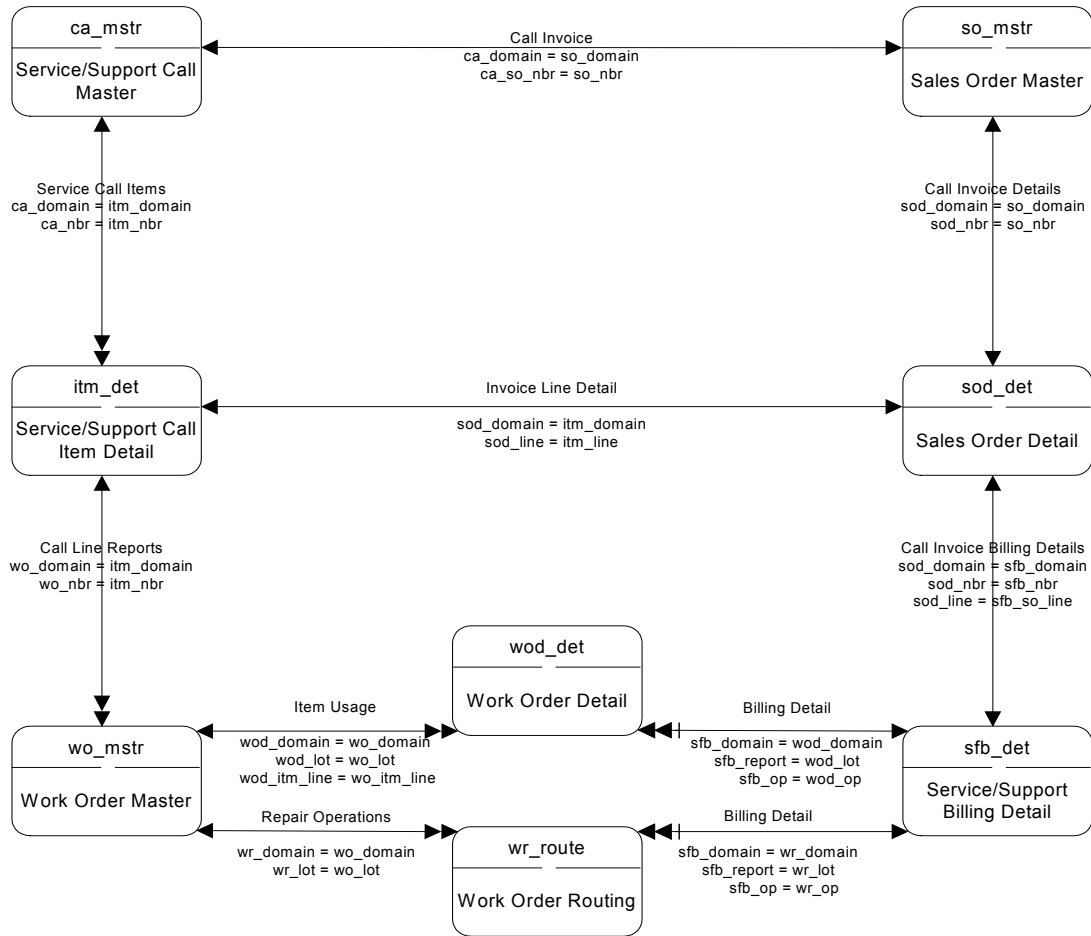
## SOD/QOD Assignment Rule Cache



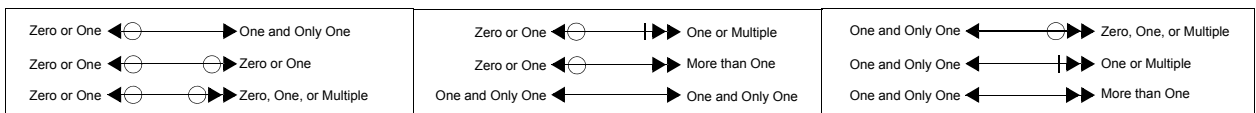
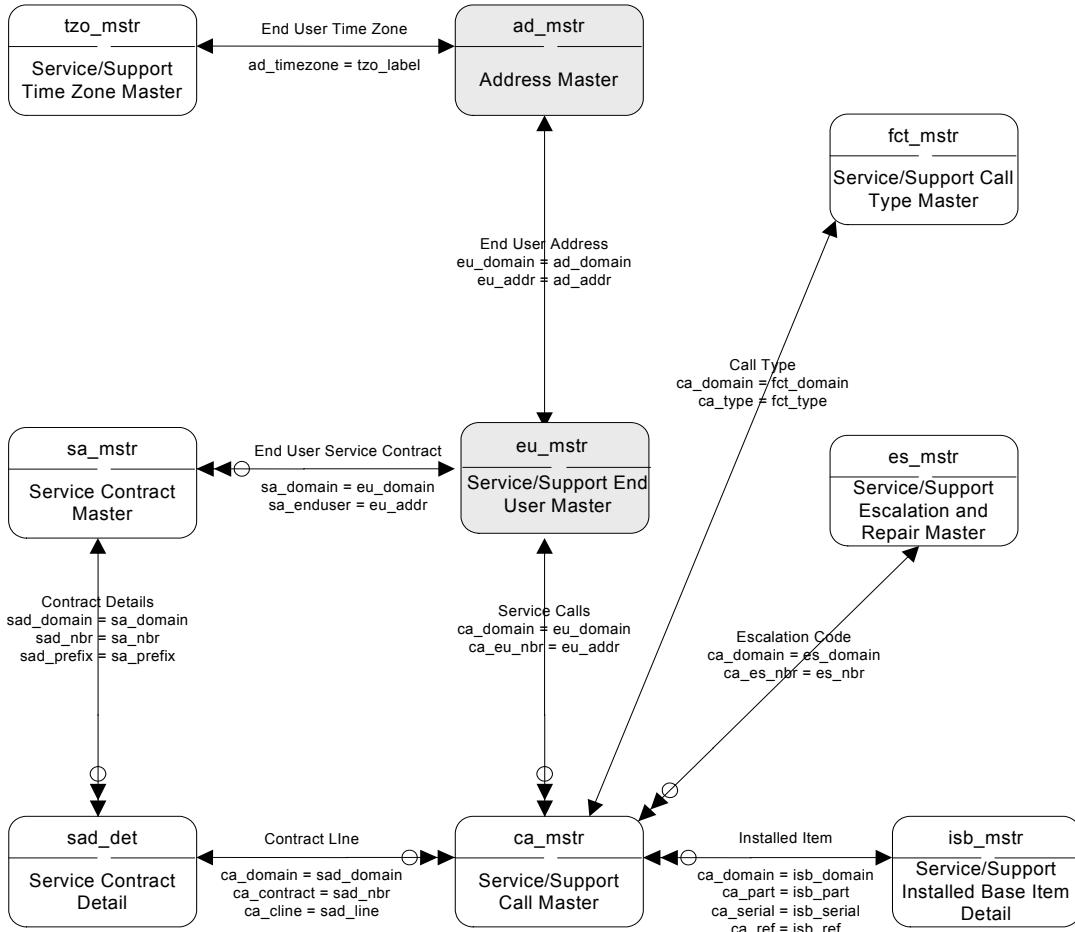
## SSM – Call Activity Recording



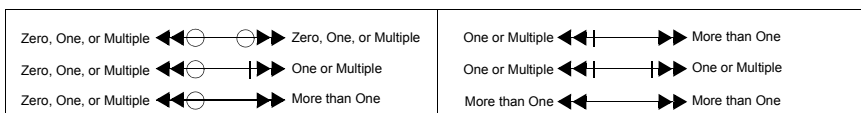
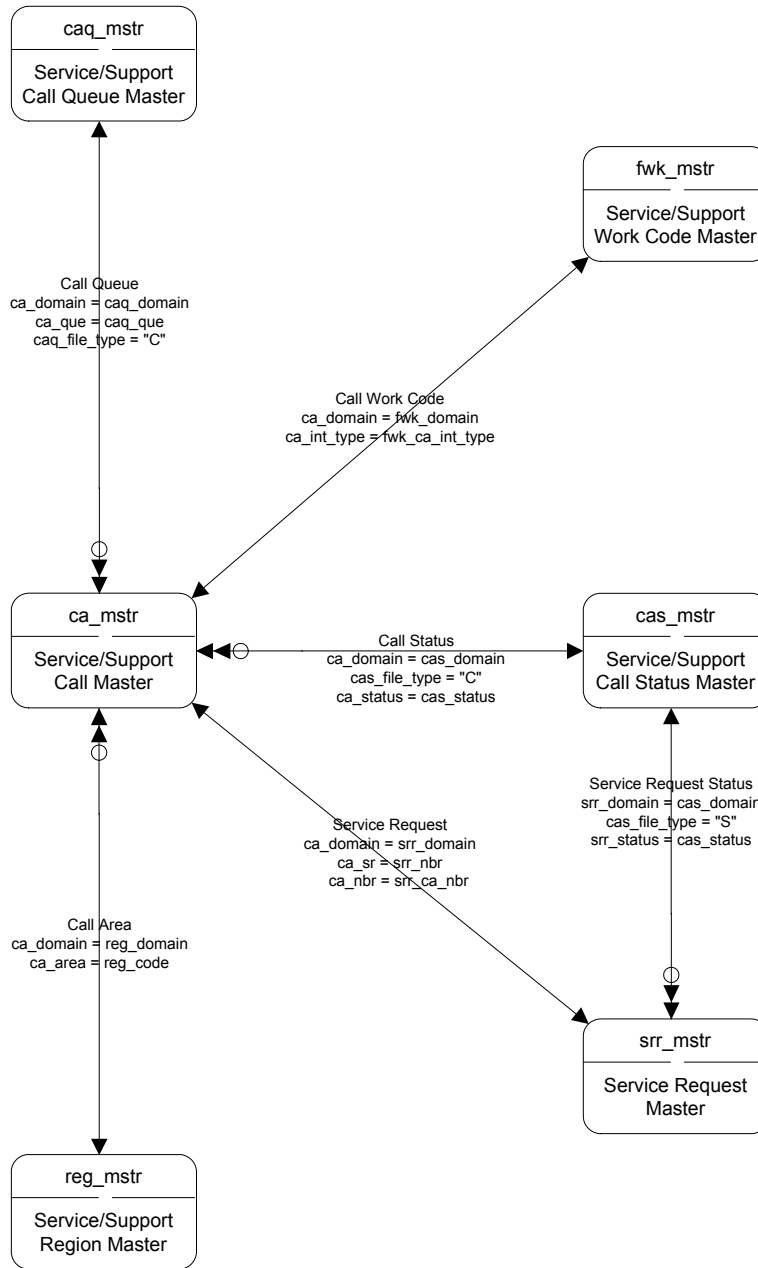
# SSM – Call Invoice Recording



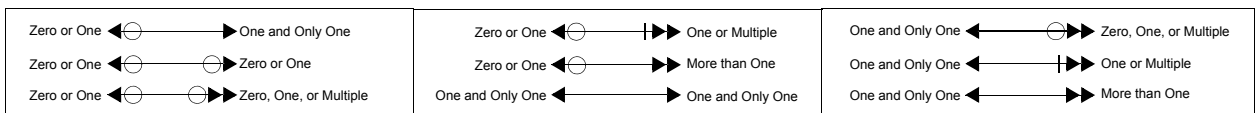
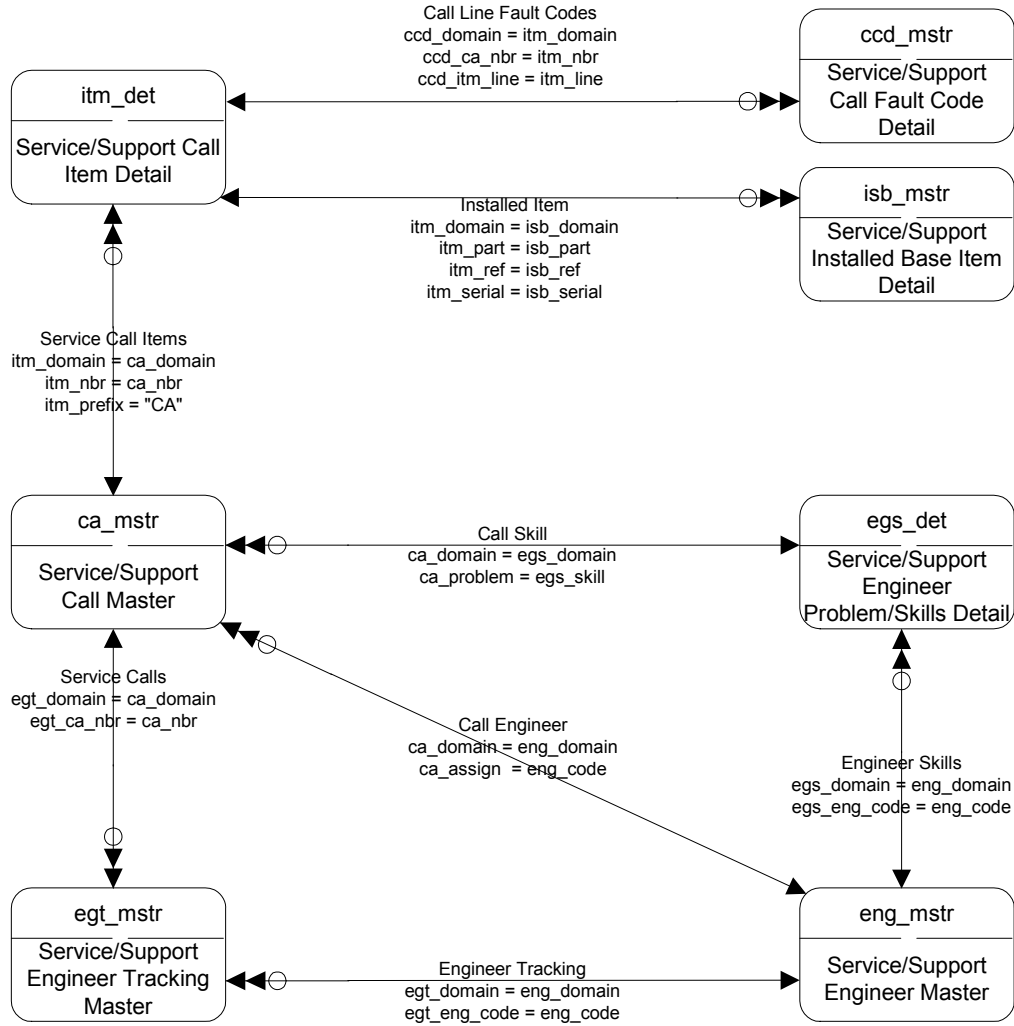
# SSM – Call Tracking I



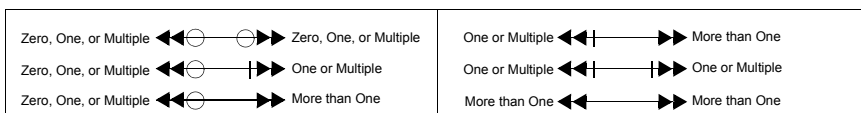
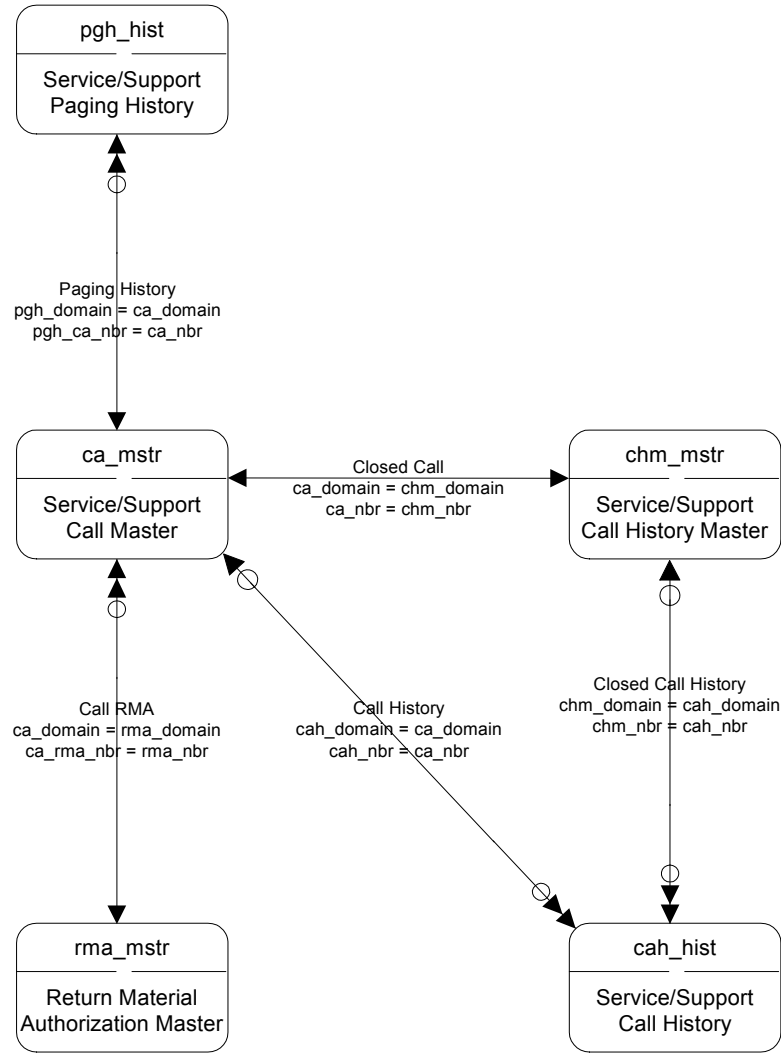
## SSM – Call Tracking II



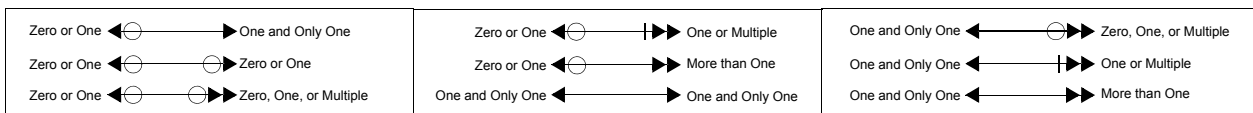
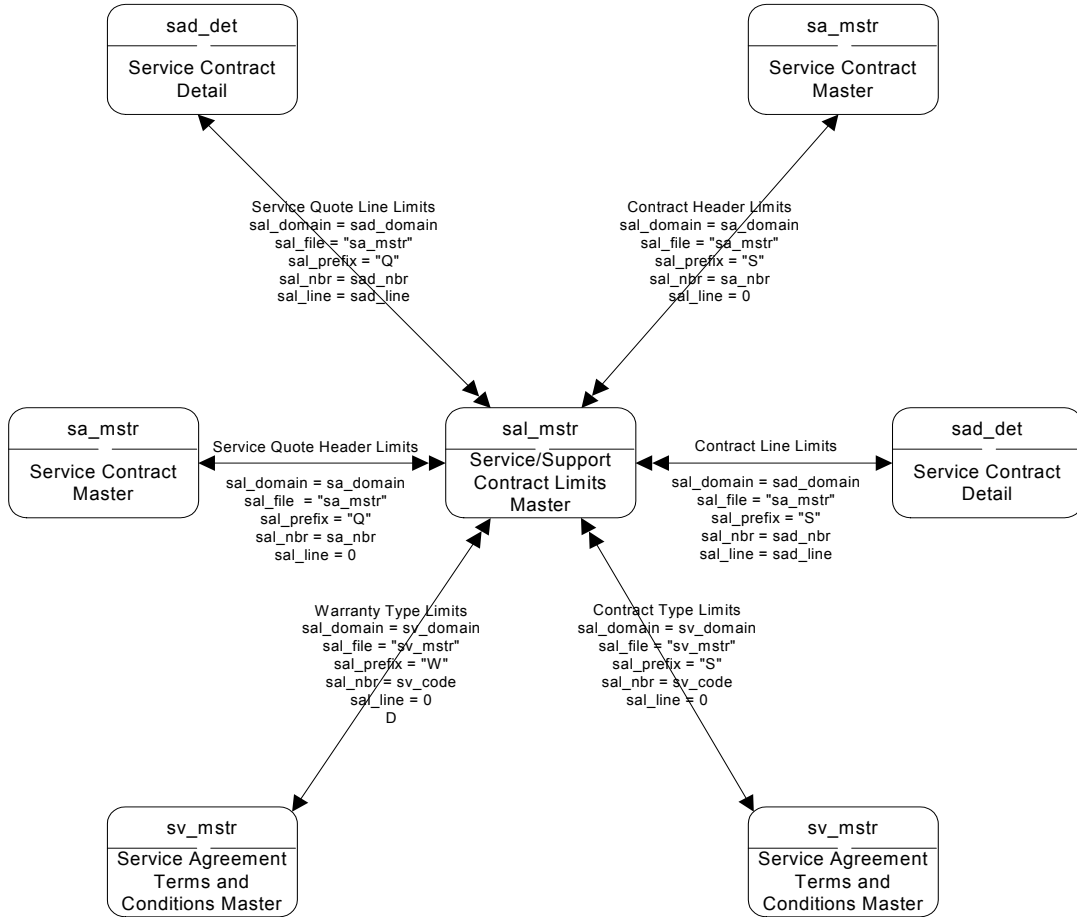
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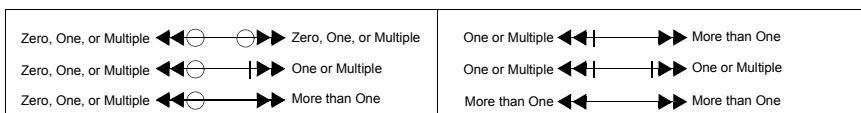
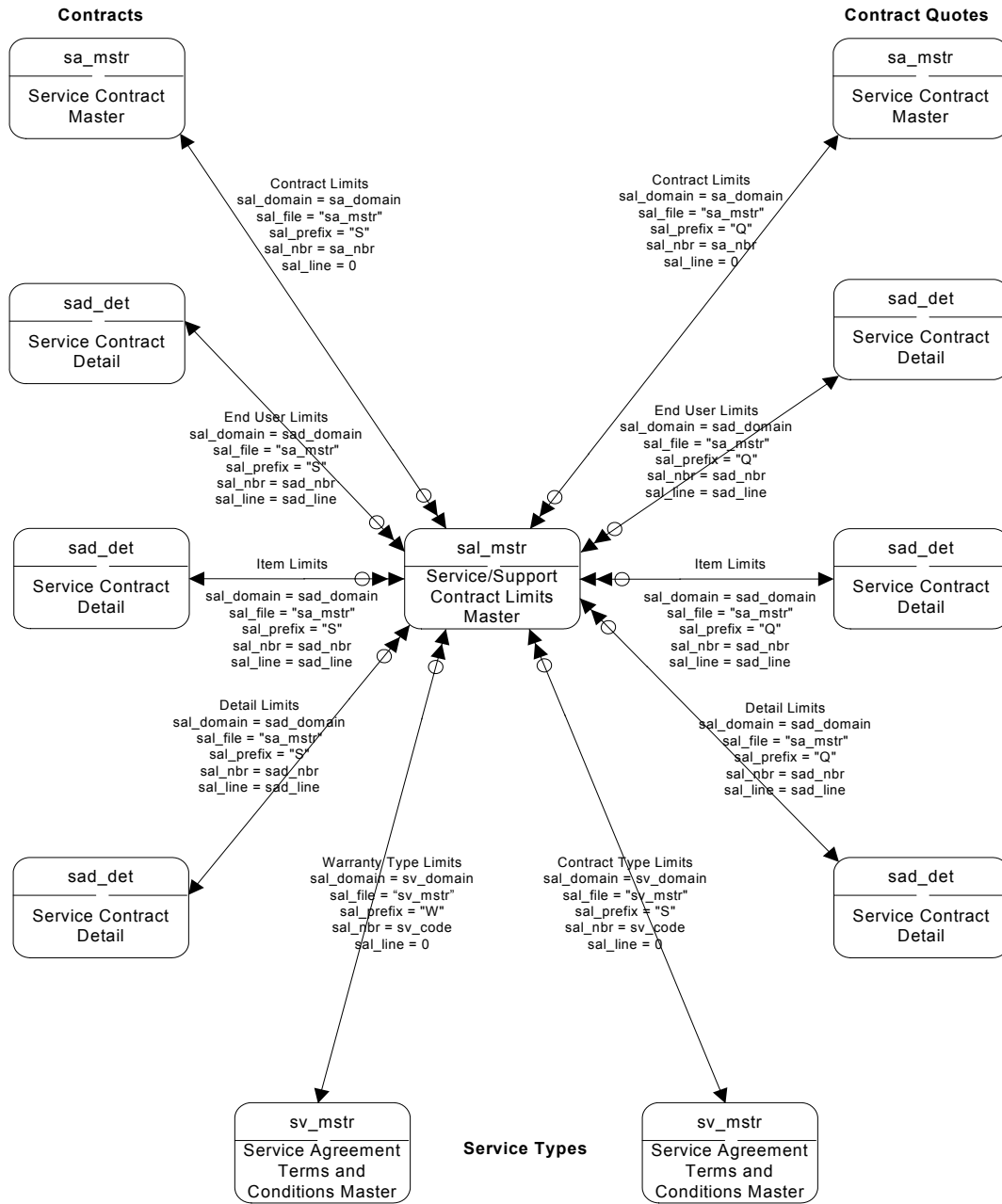
# SSM – Call Tracking IV



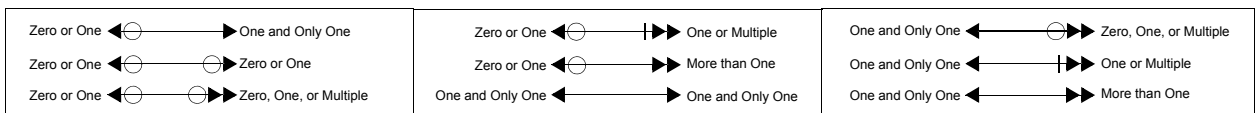
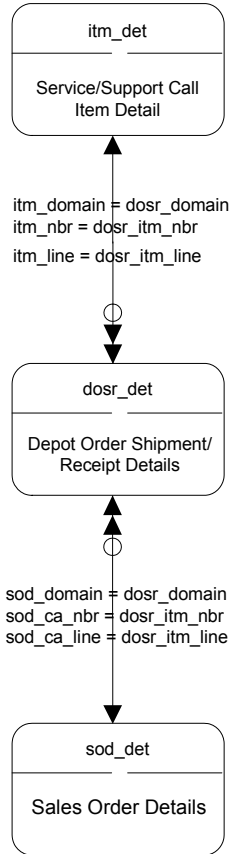
## SSM – Coverage Limits I



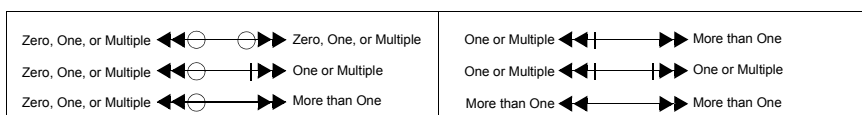
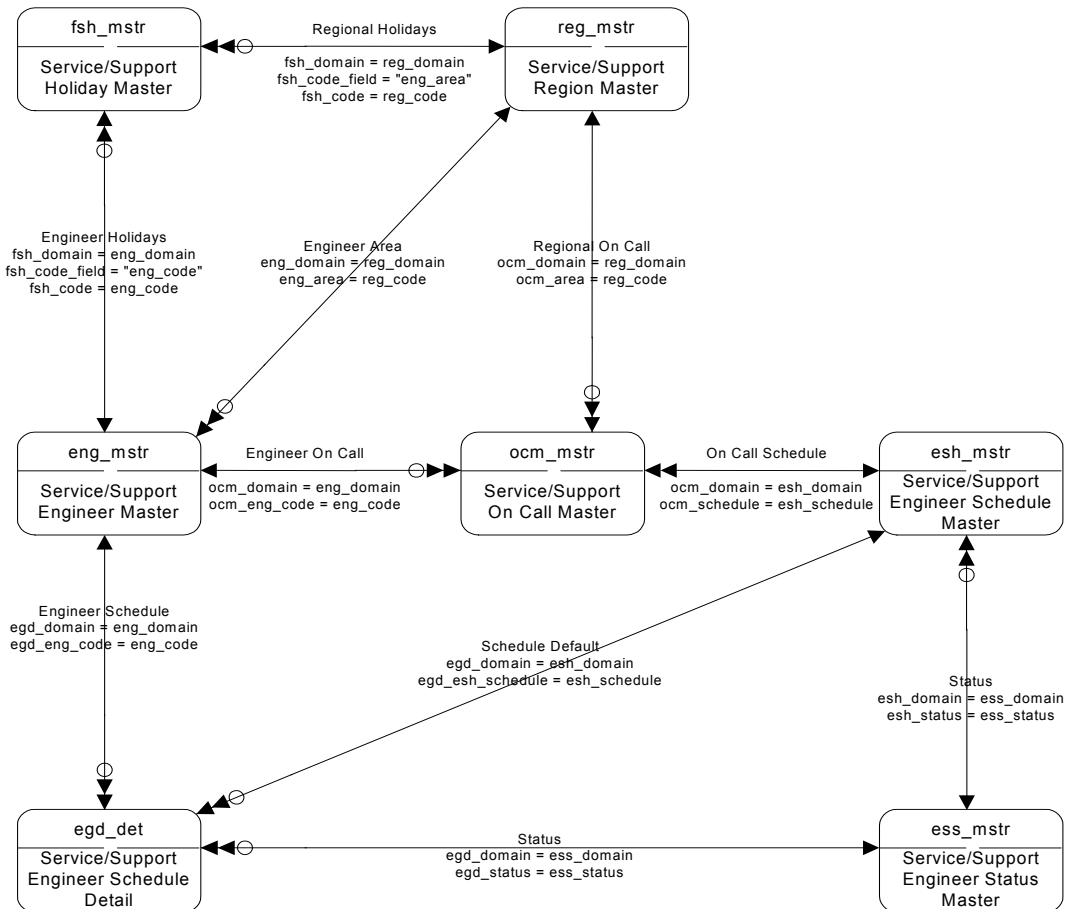
# SSM – Coverage Limits II



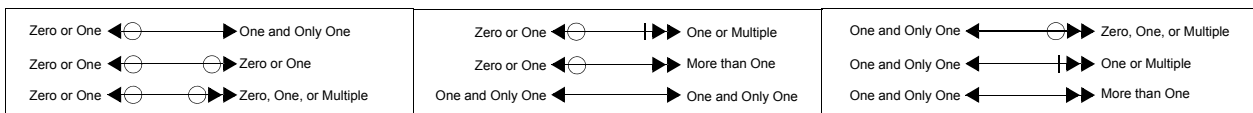
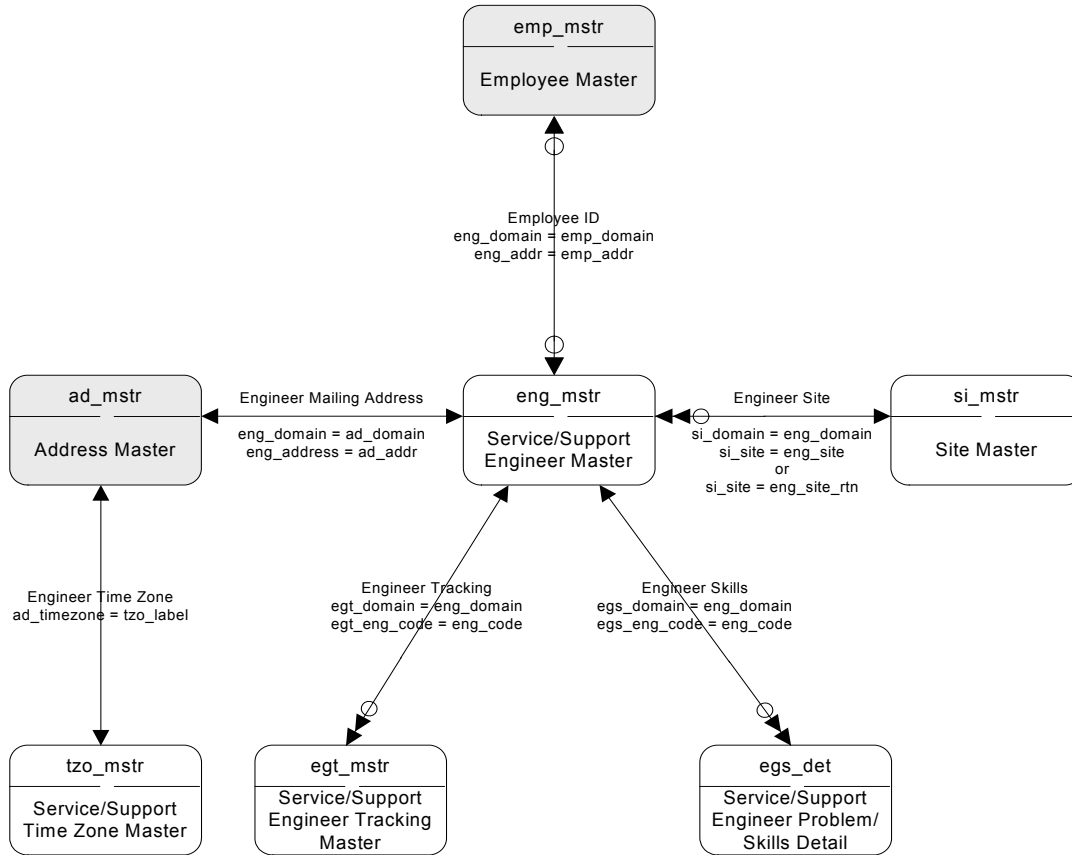
## SSM – Depot Orders



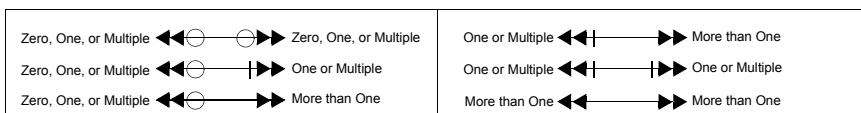
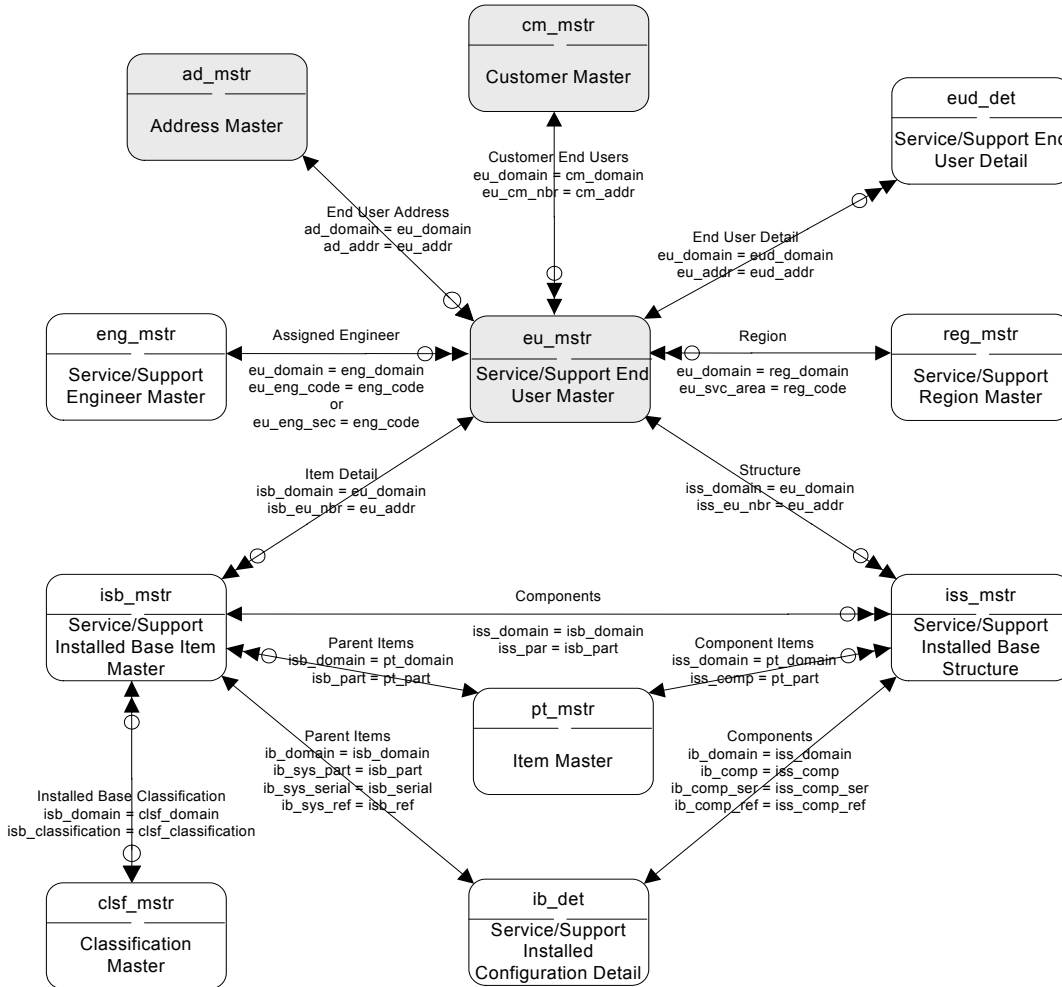
# SSM – Engineers I



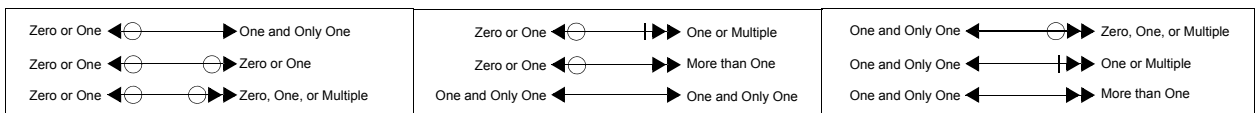
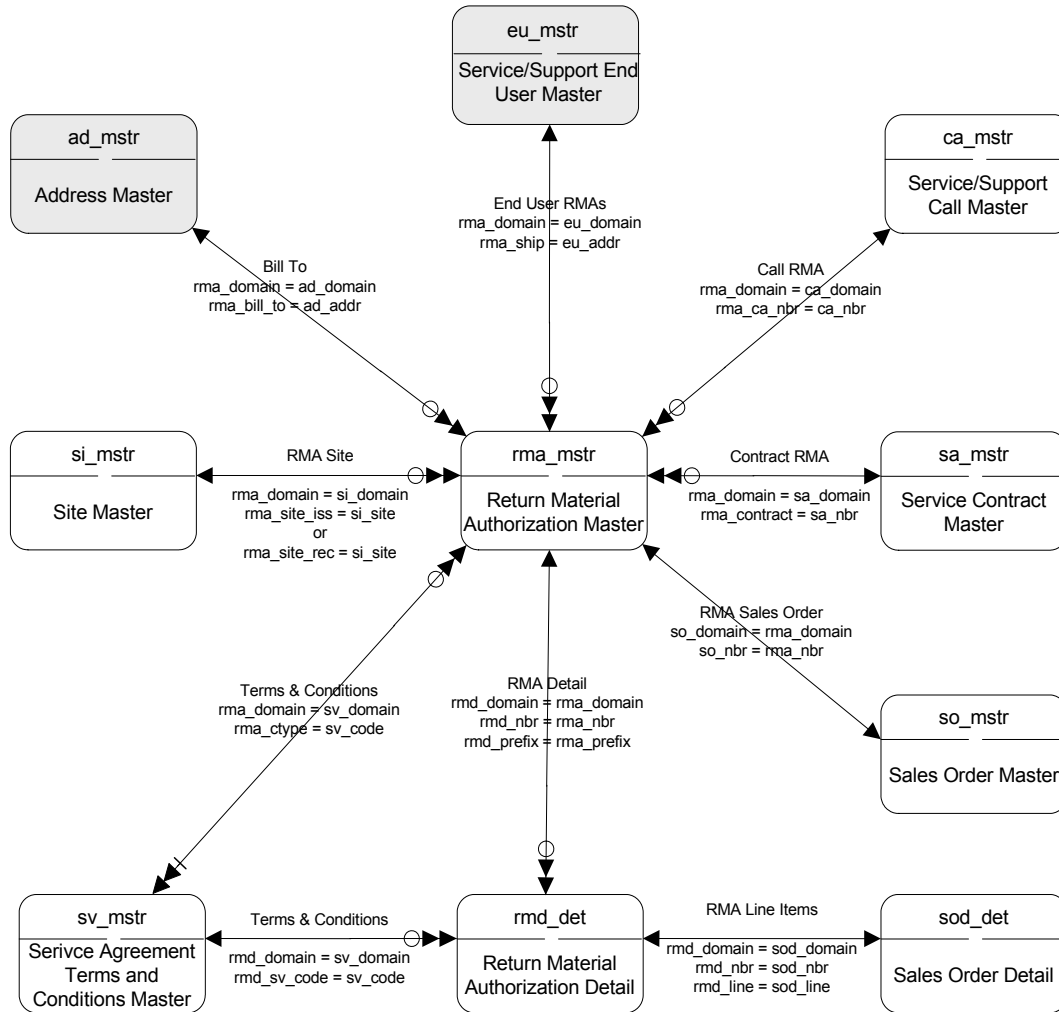
## SSM – Engineers II



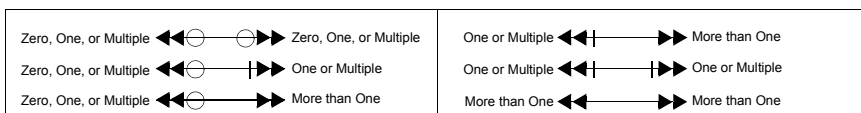
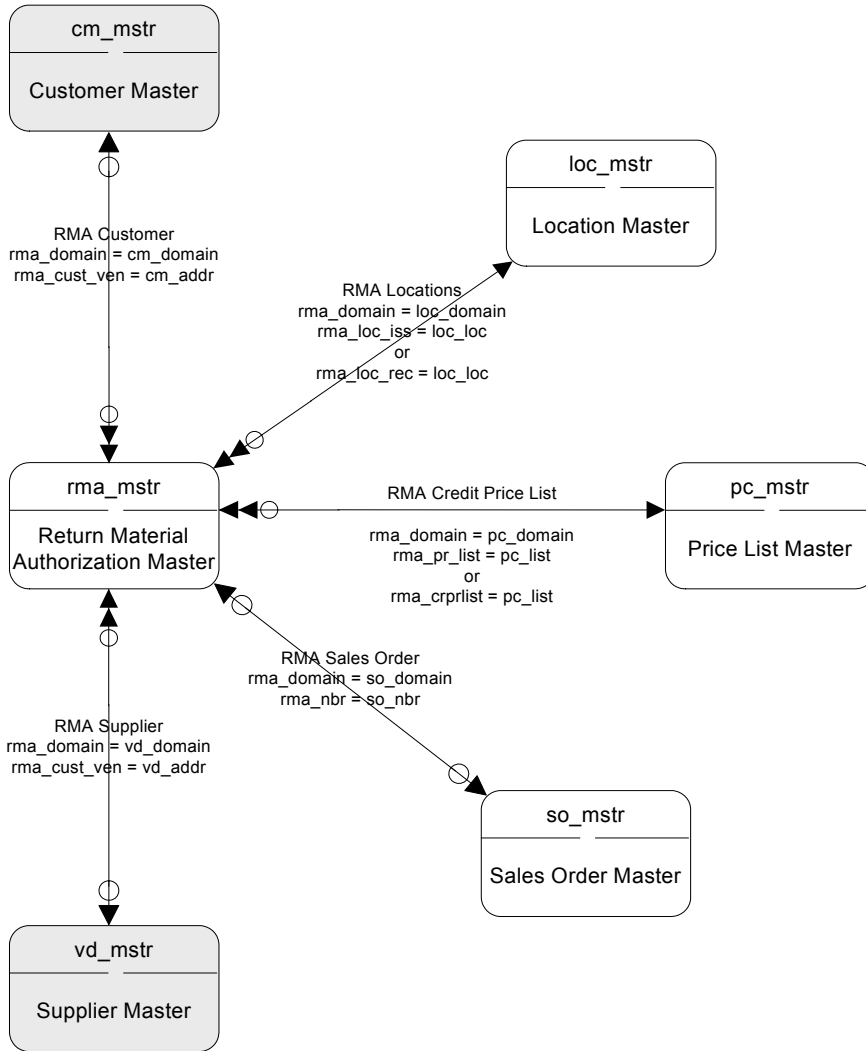
# SSM – Installed Base



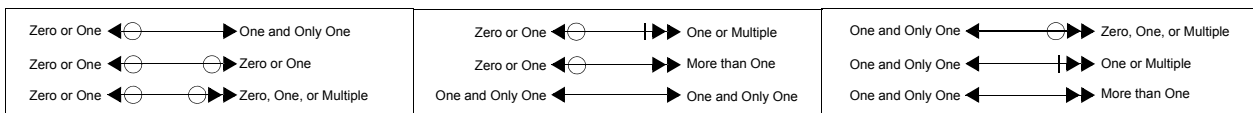
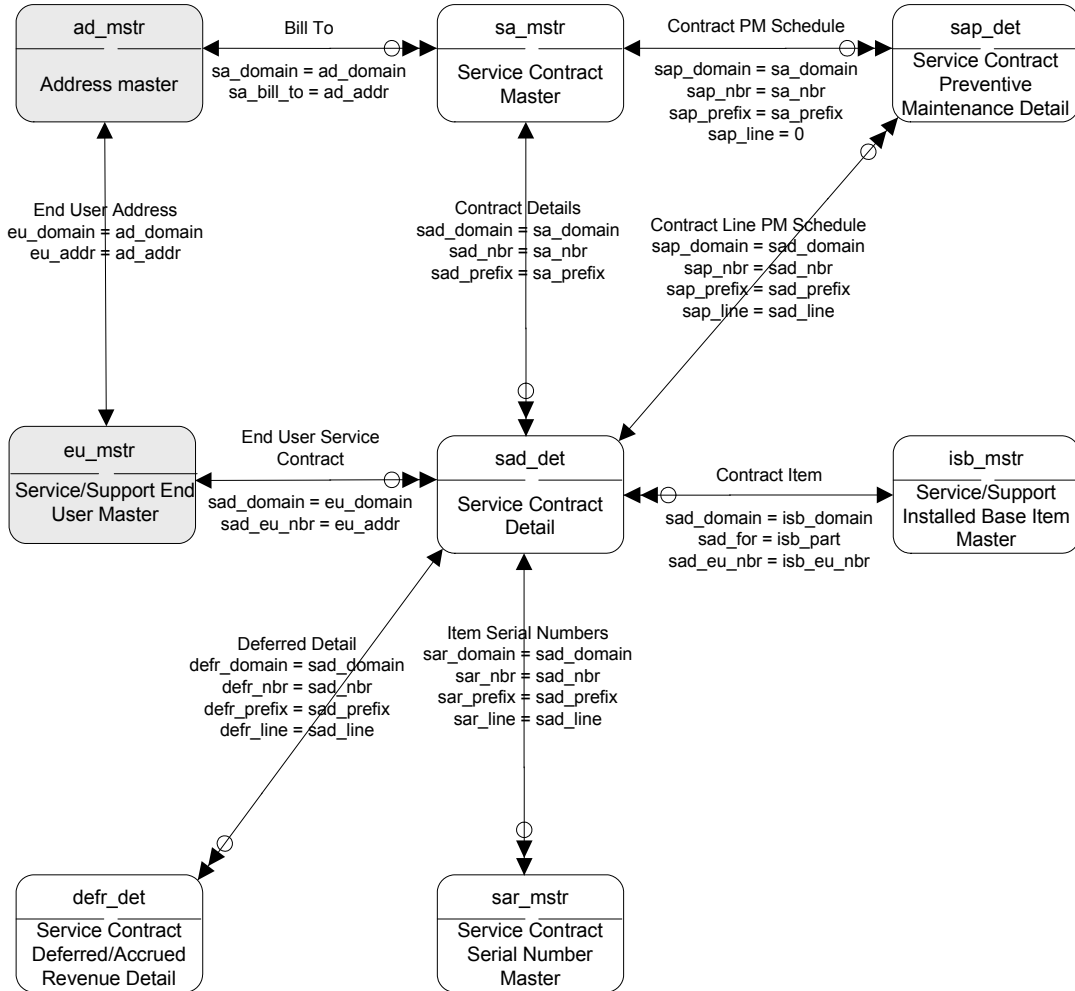
## SSM – RMA I



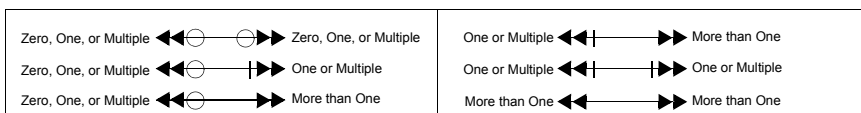
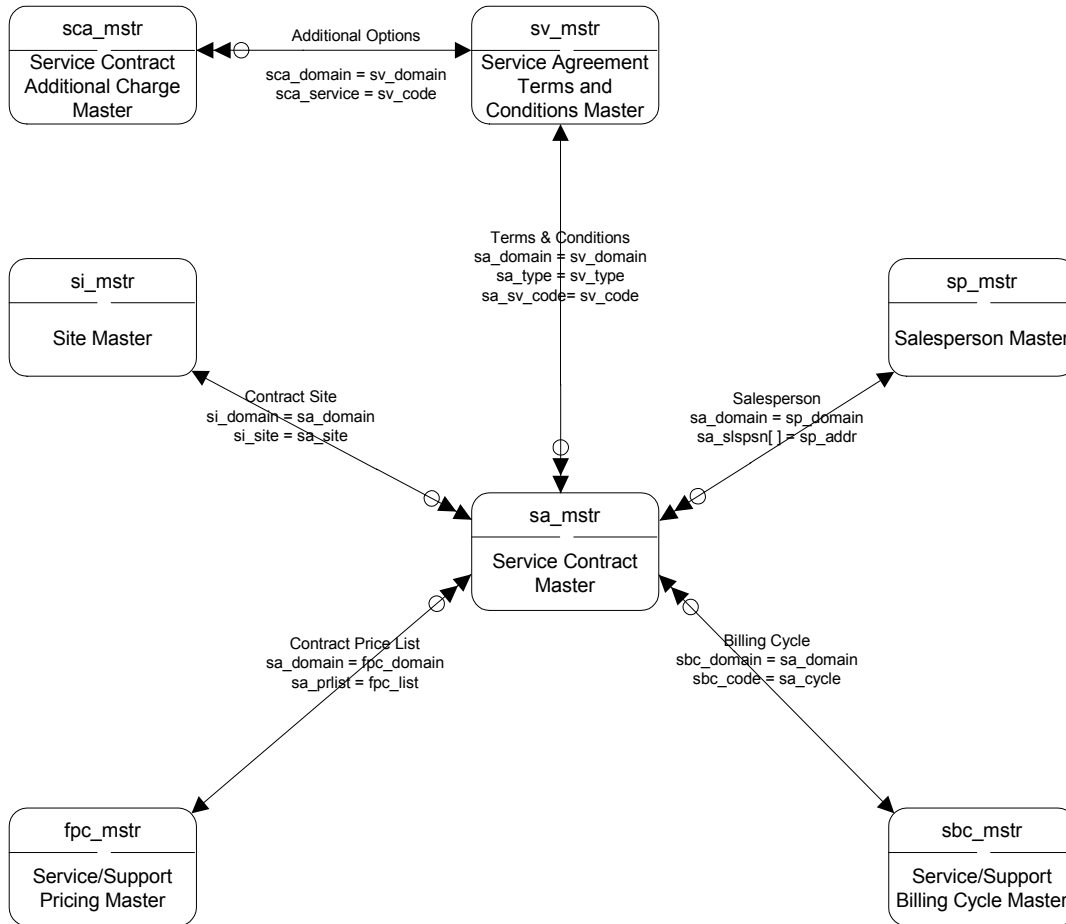
# SSM – RMA II



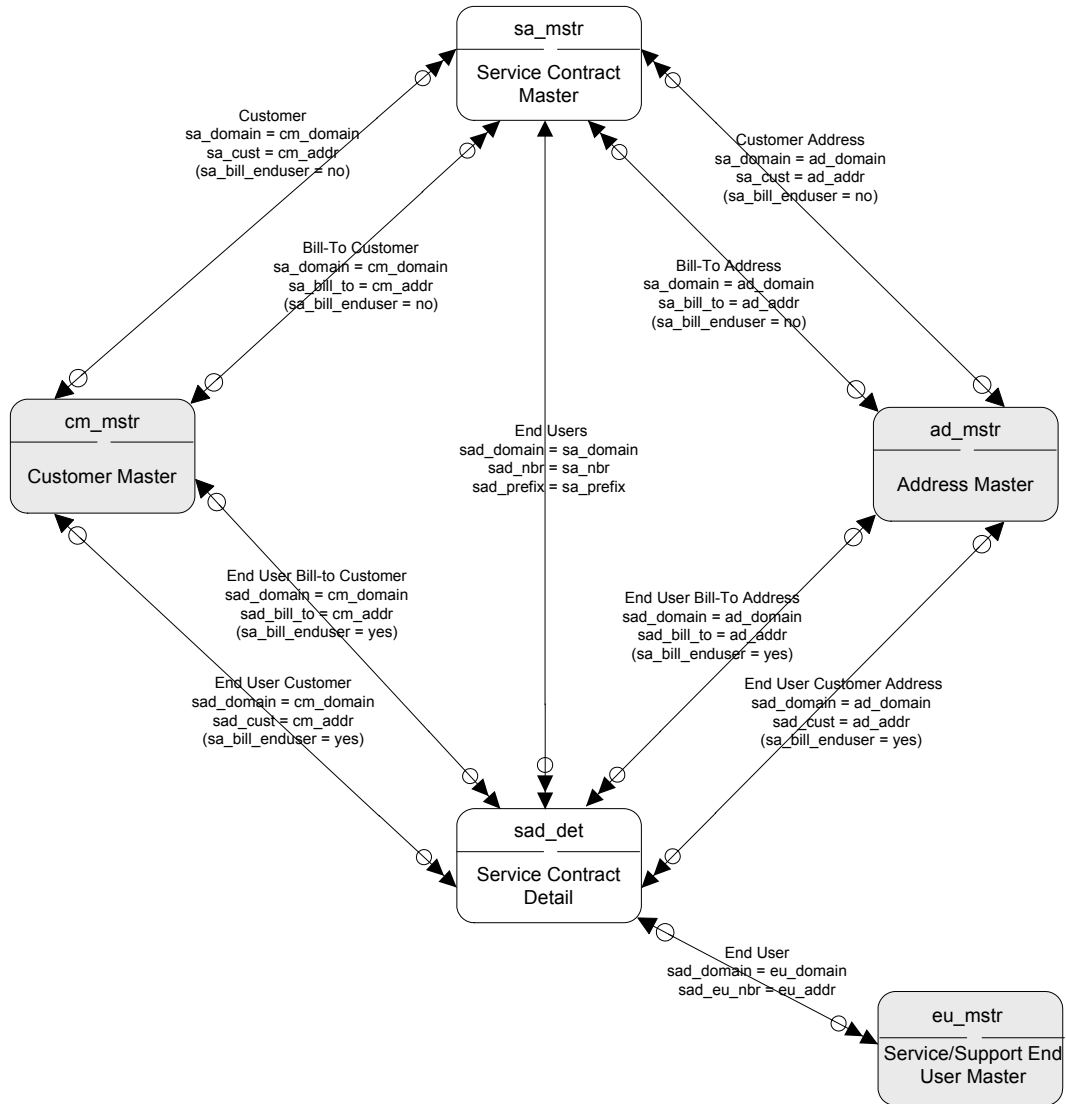
## SSM – Service Contracts I



# SSM – Service Contracts II

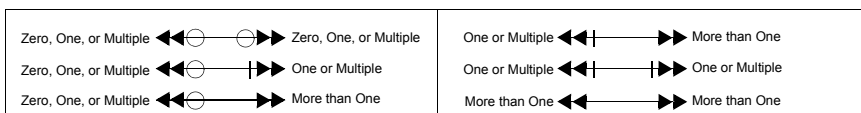
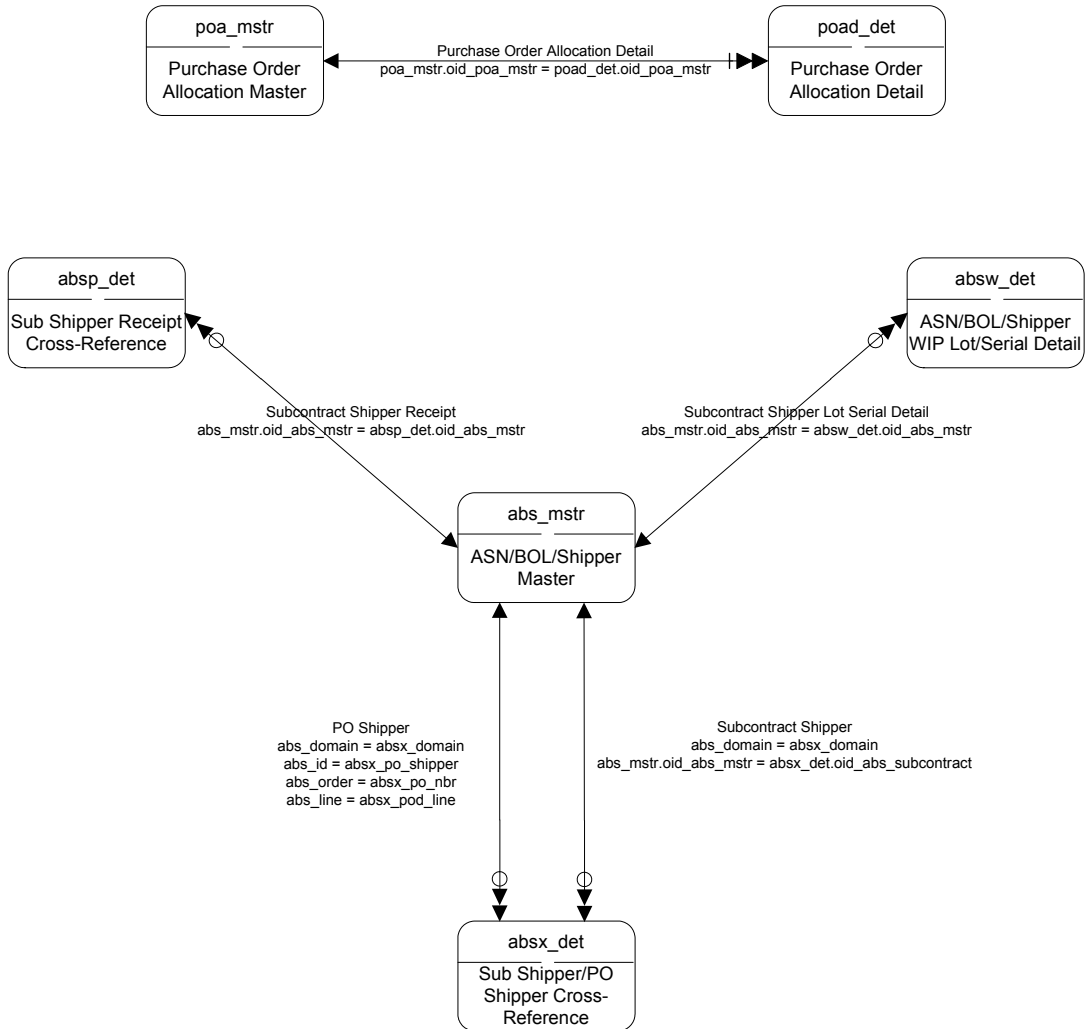


## SSM – Service Contracts III

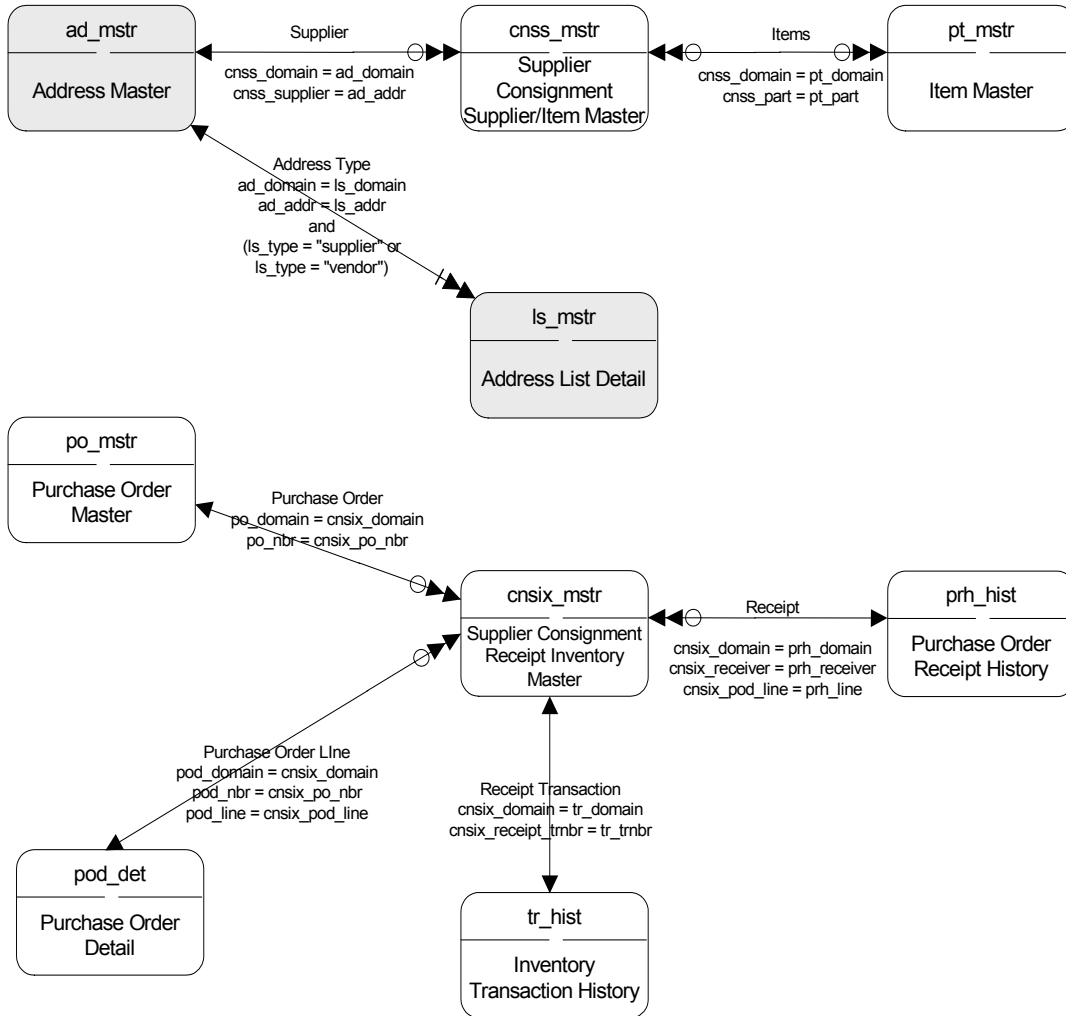


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv \dashv$ More than One

# Subcontract Shipping

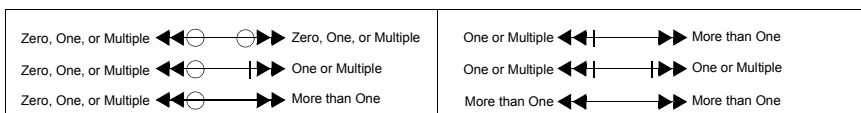
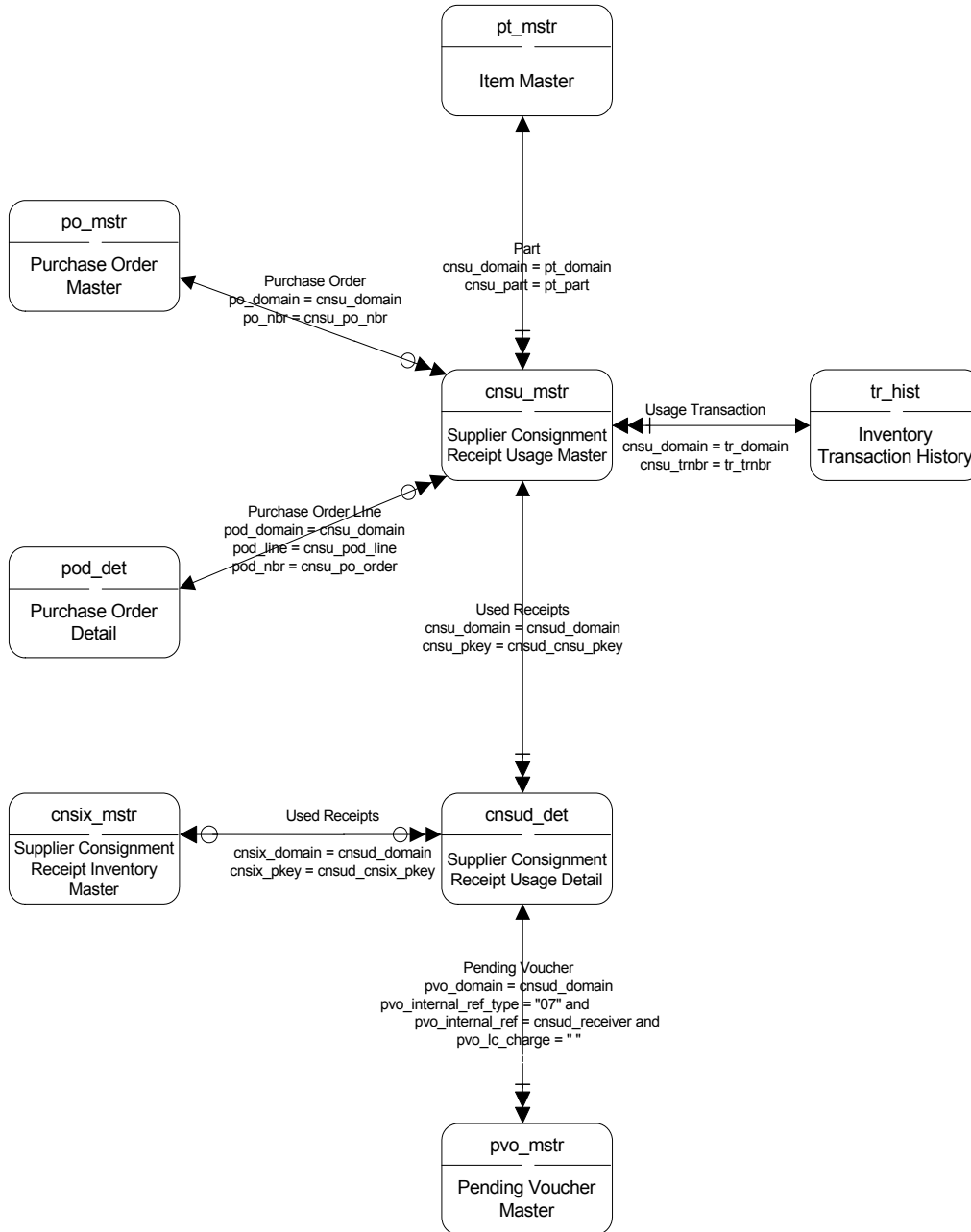


## Supplier Consignment I

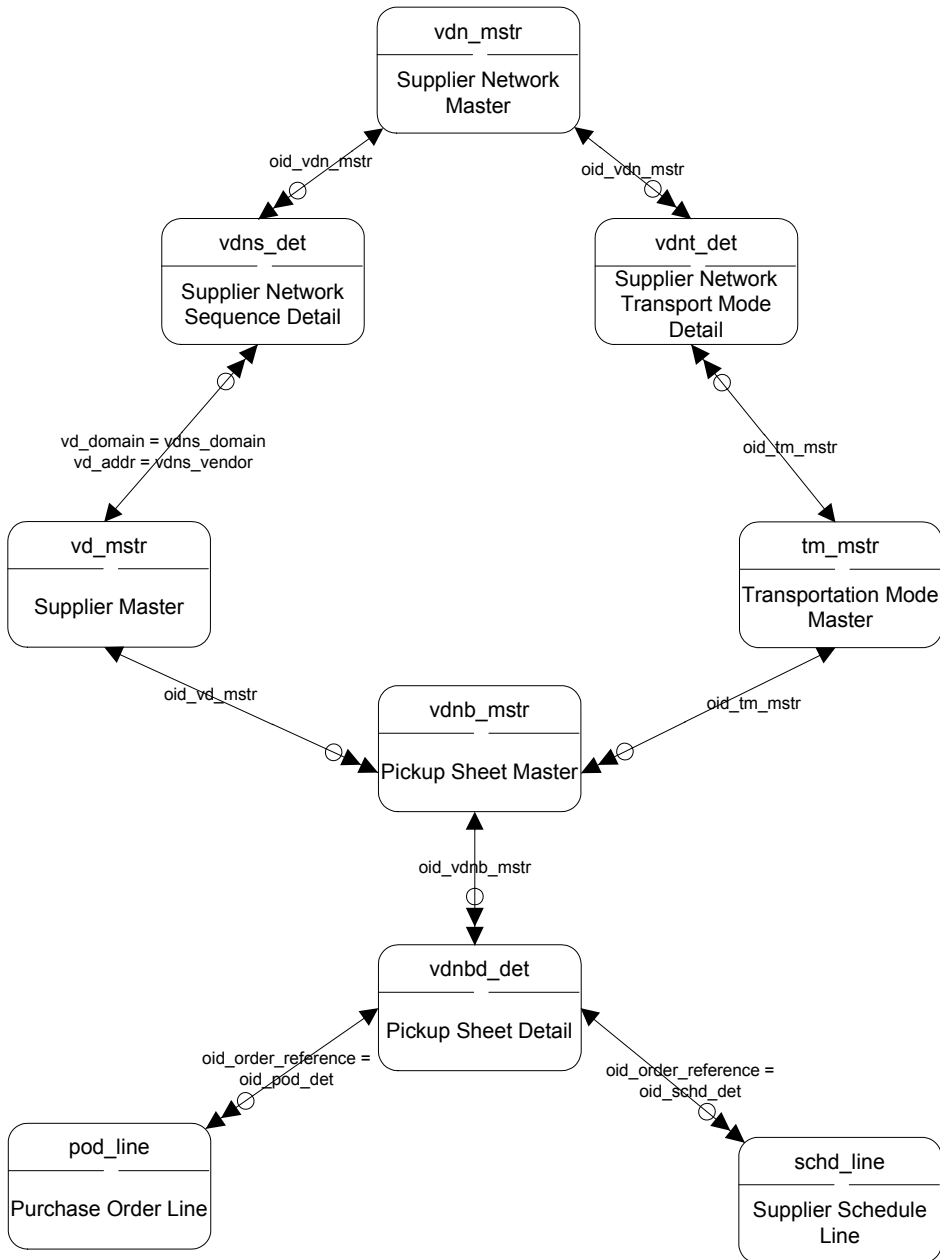


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \ominus \longrightarrow$ Zero or One	Zero or One $\leftarrow \ominus \longrightarrow$ More than One	One and Only One $\leftarrow \parallel \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \ominus \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \longrightarrow$ One and Only One	One and Only One $\leftarrow \longrightarrow$ More than One

# Supplier Consignment II

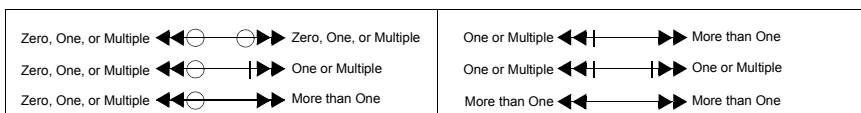
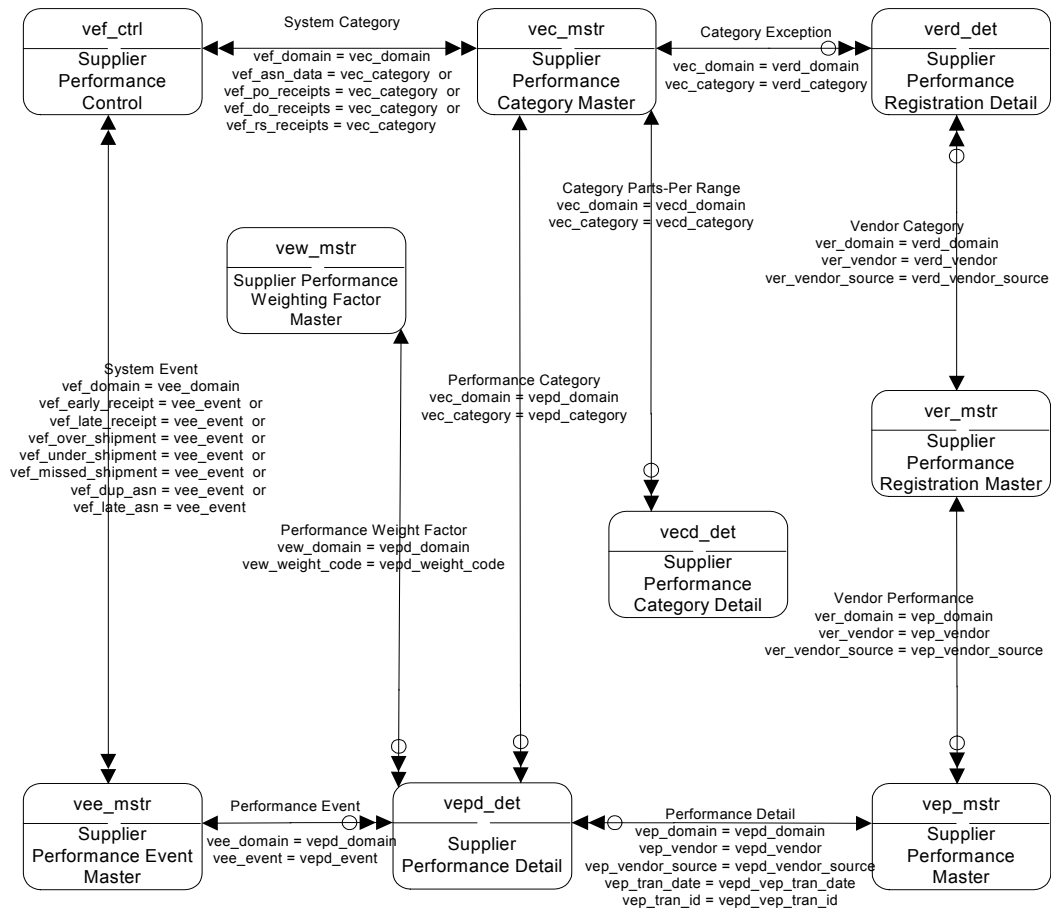


## Supplier Network and Network Bill

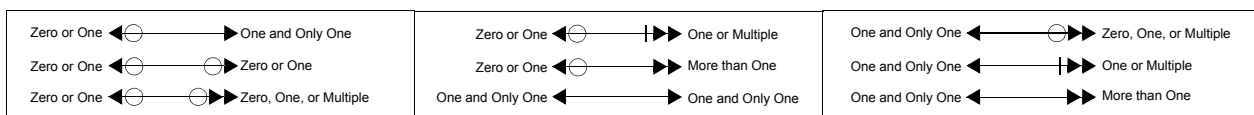
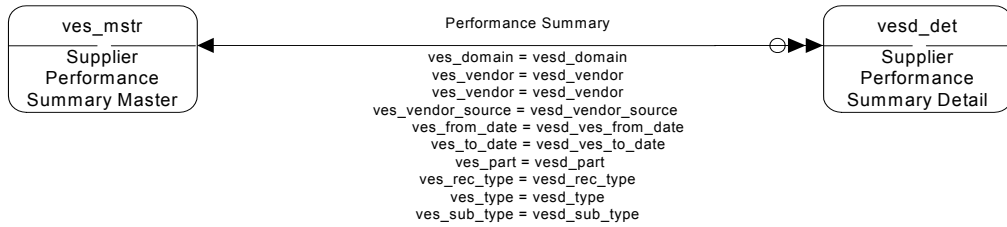


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \dashv \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \dashv \longrightarrow$ More than One

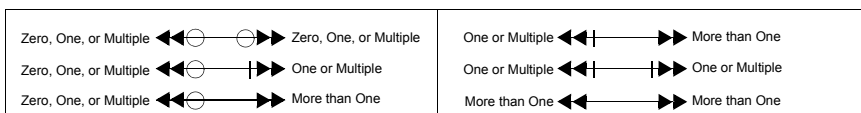
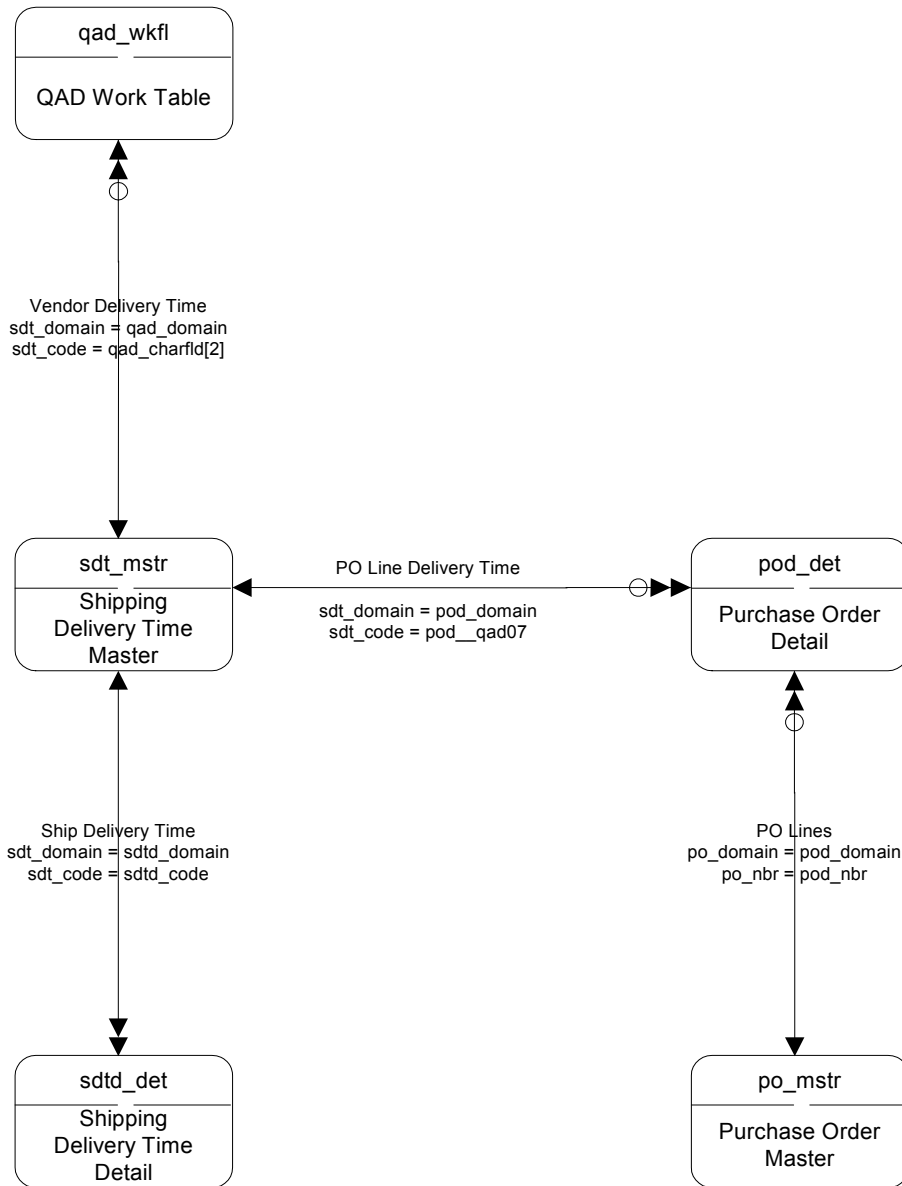
# Supplier Performance I



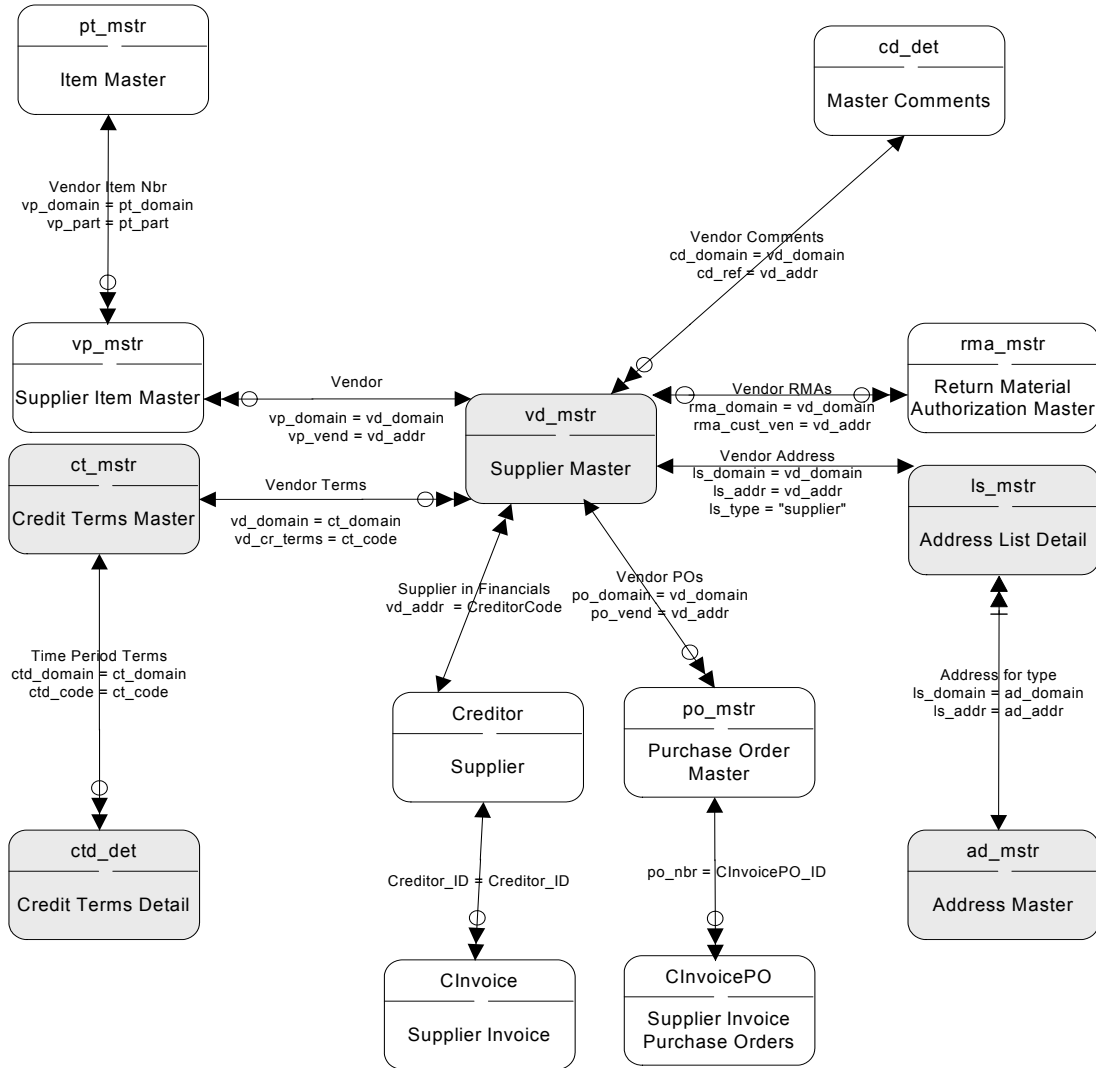
## Supplier Performance II



# Supplier Shipping Schedules

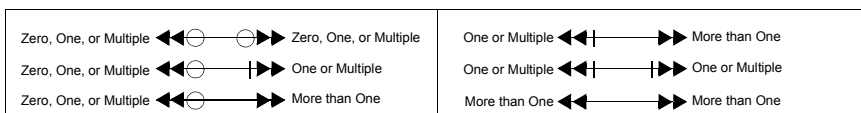
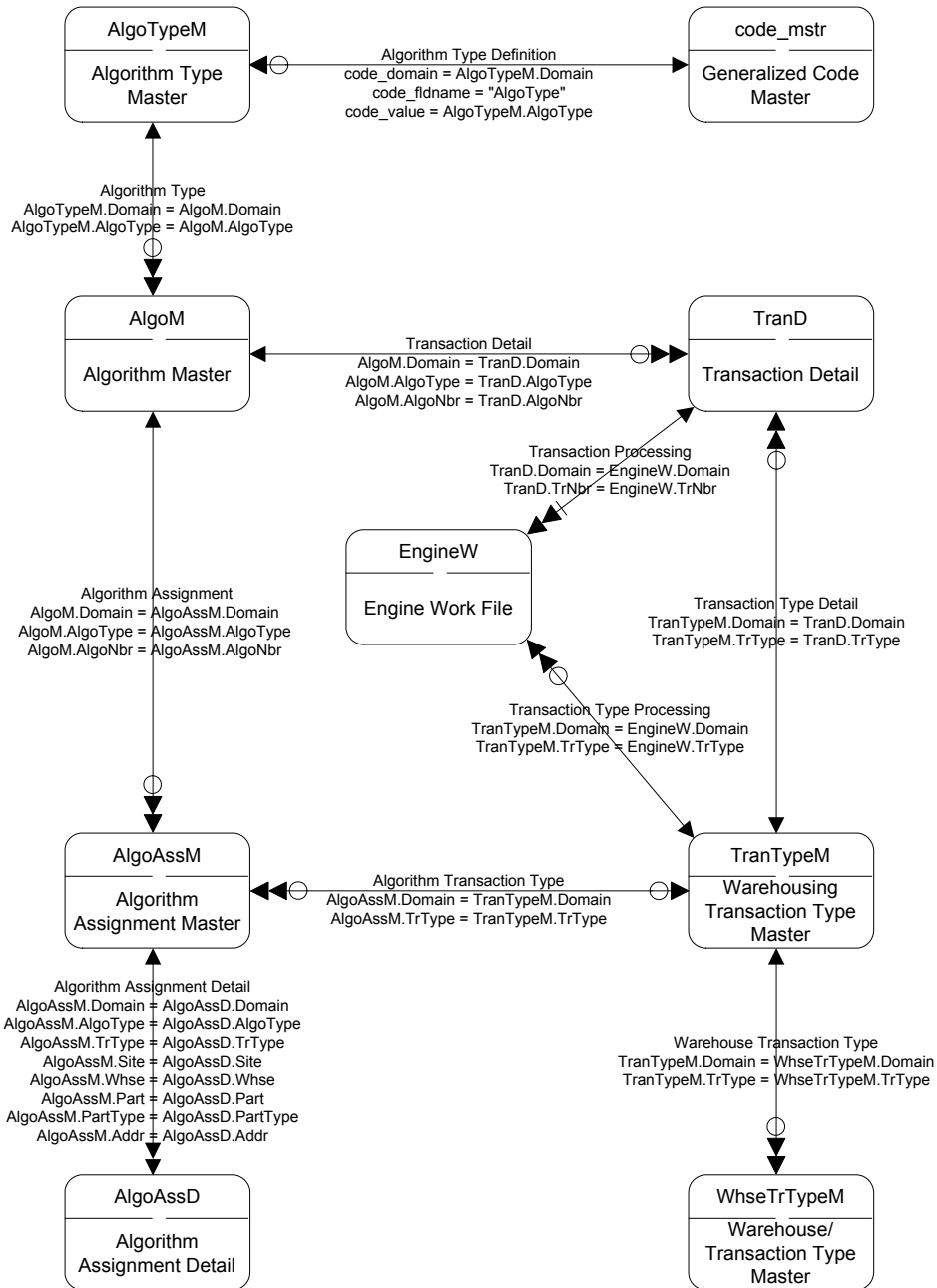


## Vendors (Suppliers)

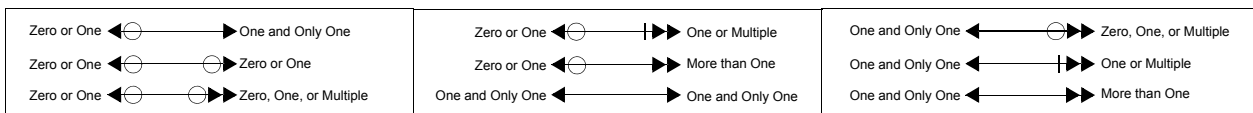
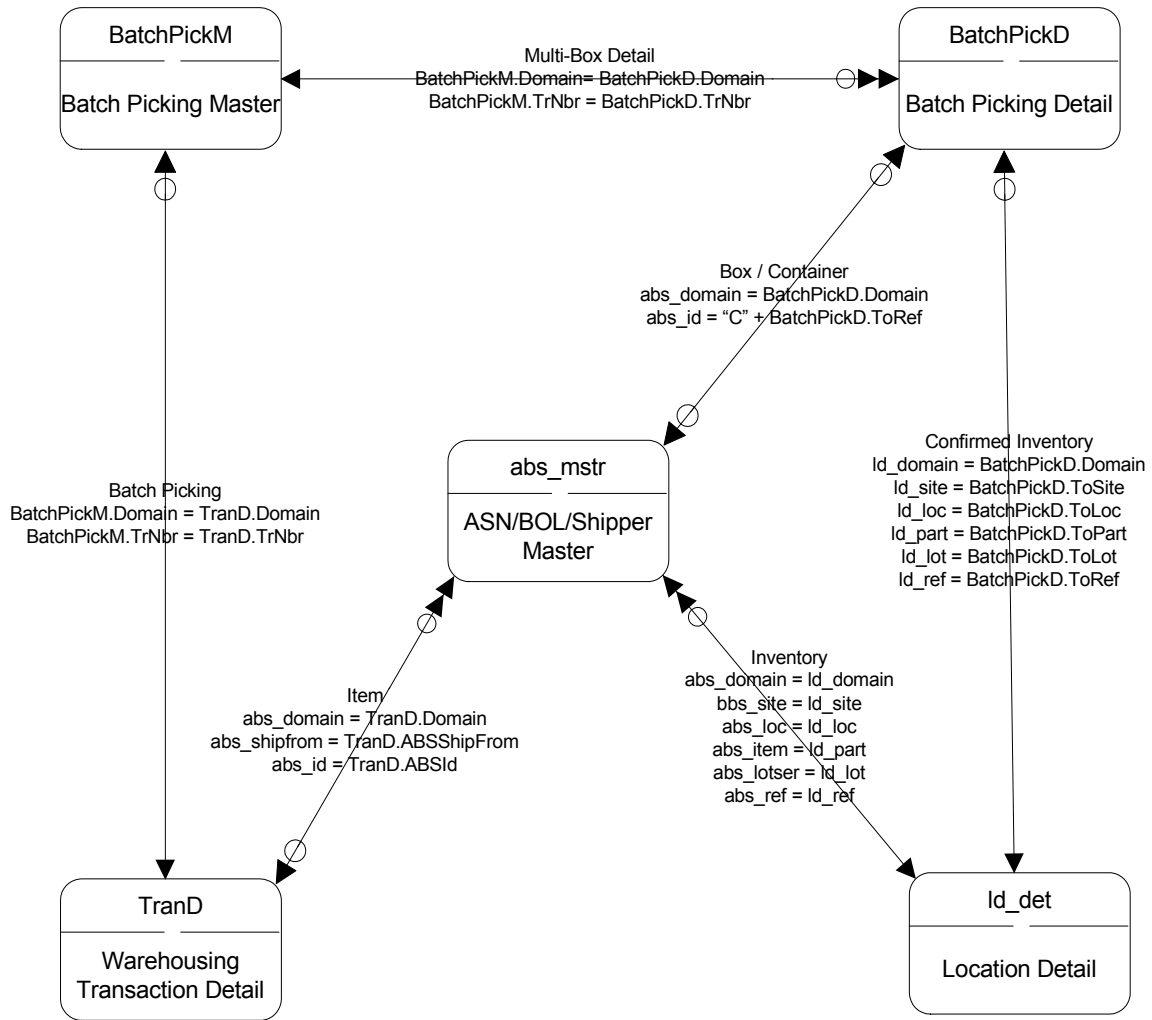


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \circ \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \ominus \longrightarrow$ Zero or One	Zero or One $\leftarrow \ominus \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \circ \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \circ \longrightarrow$ More than One

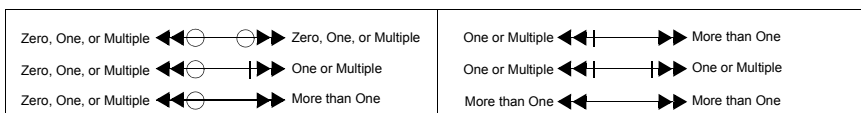
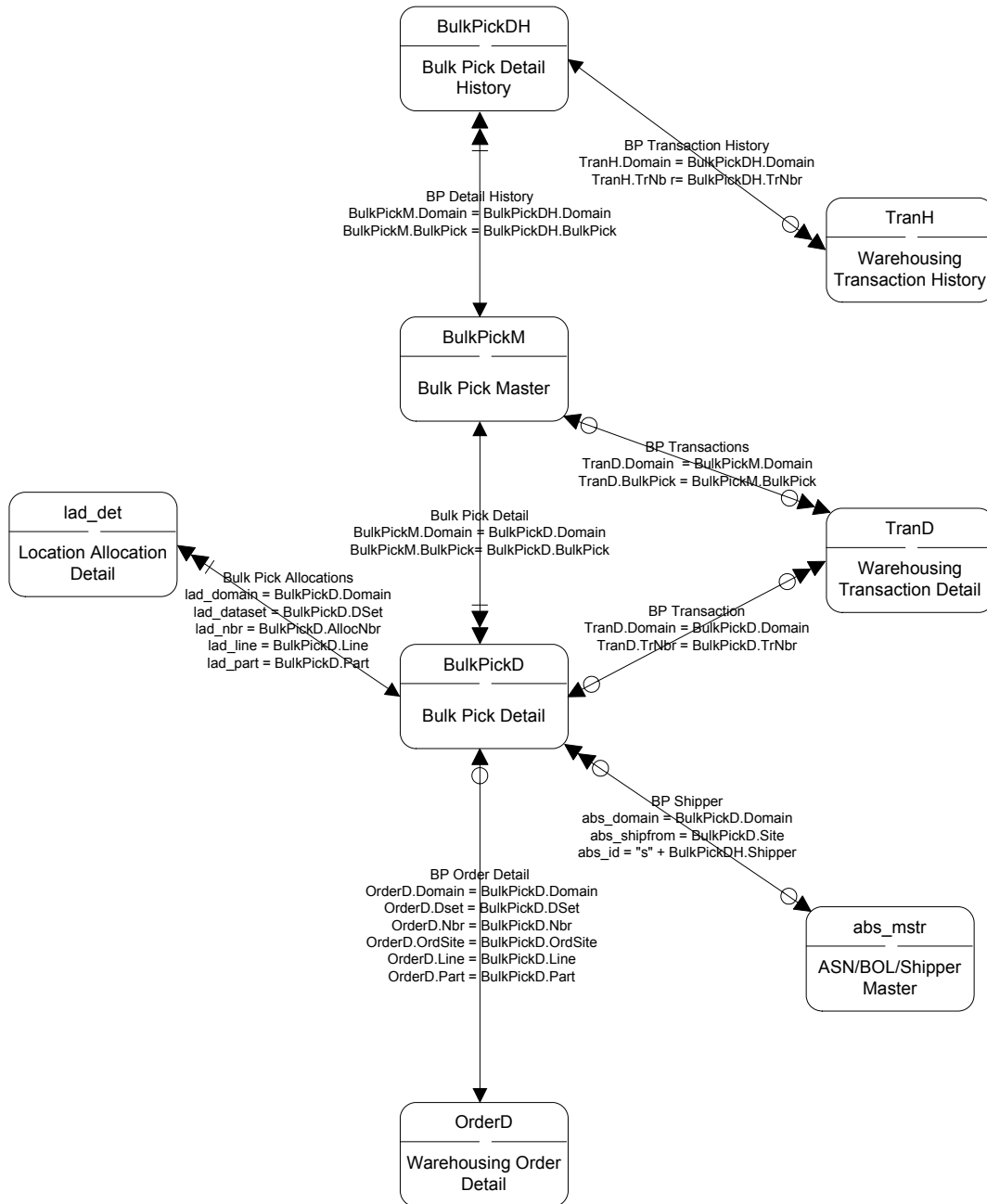
# Warehouse – Algorithms and Engine Processing



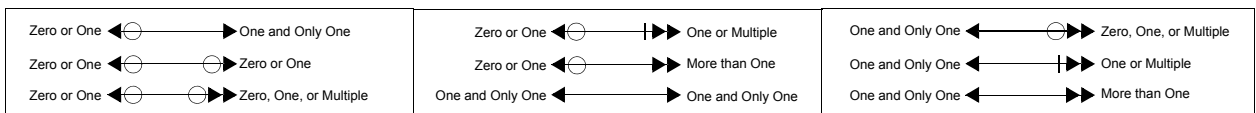
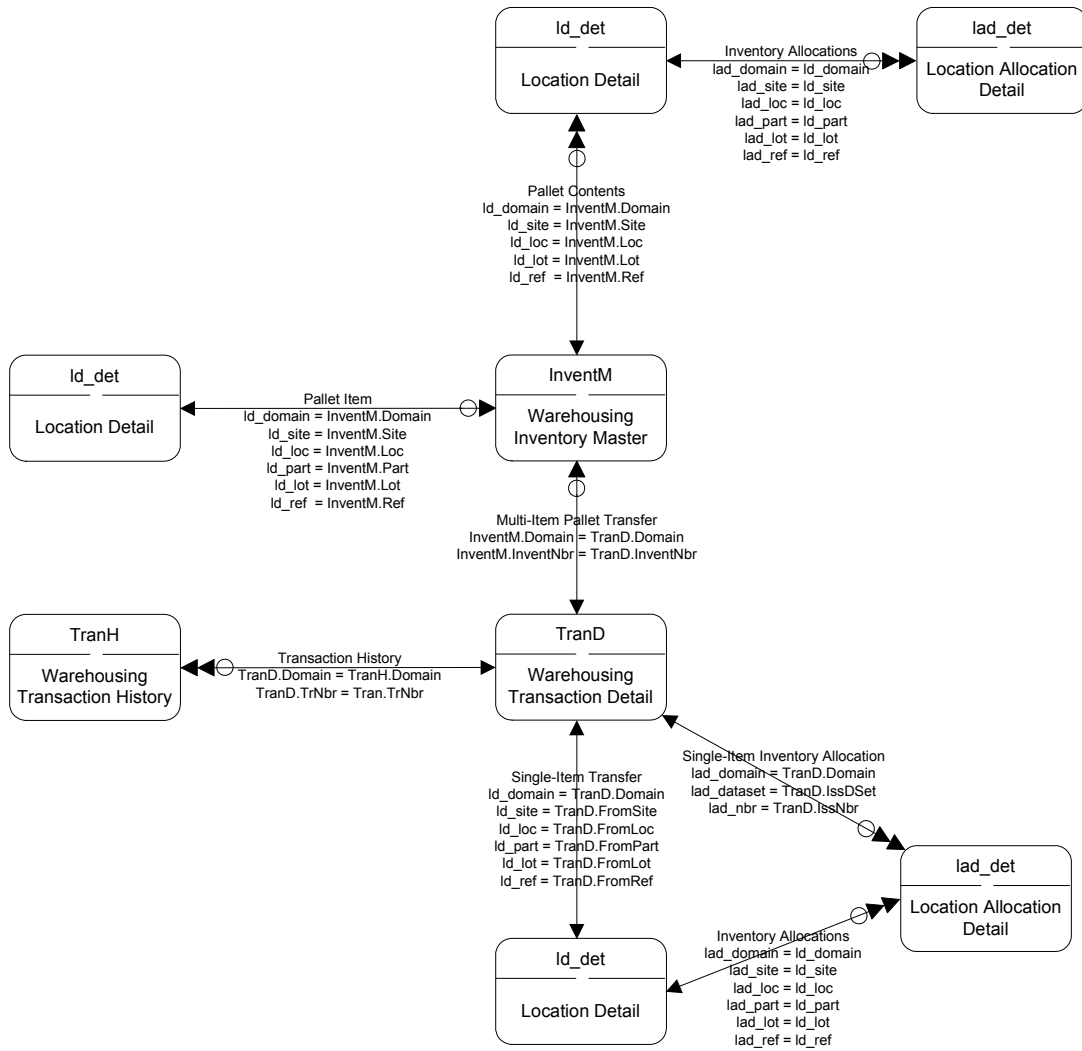
## Warehouse – Batch Picking



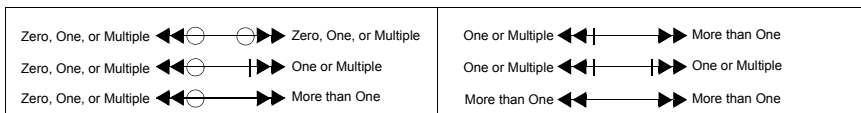
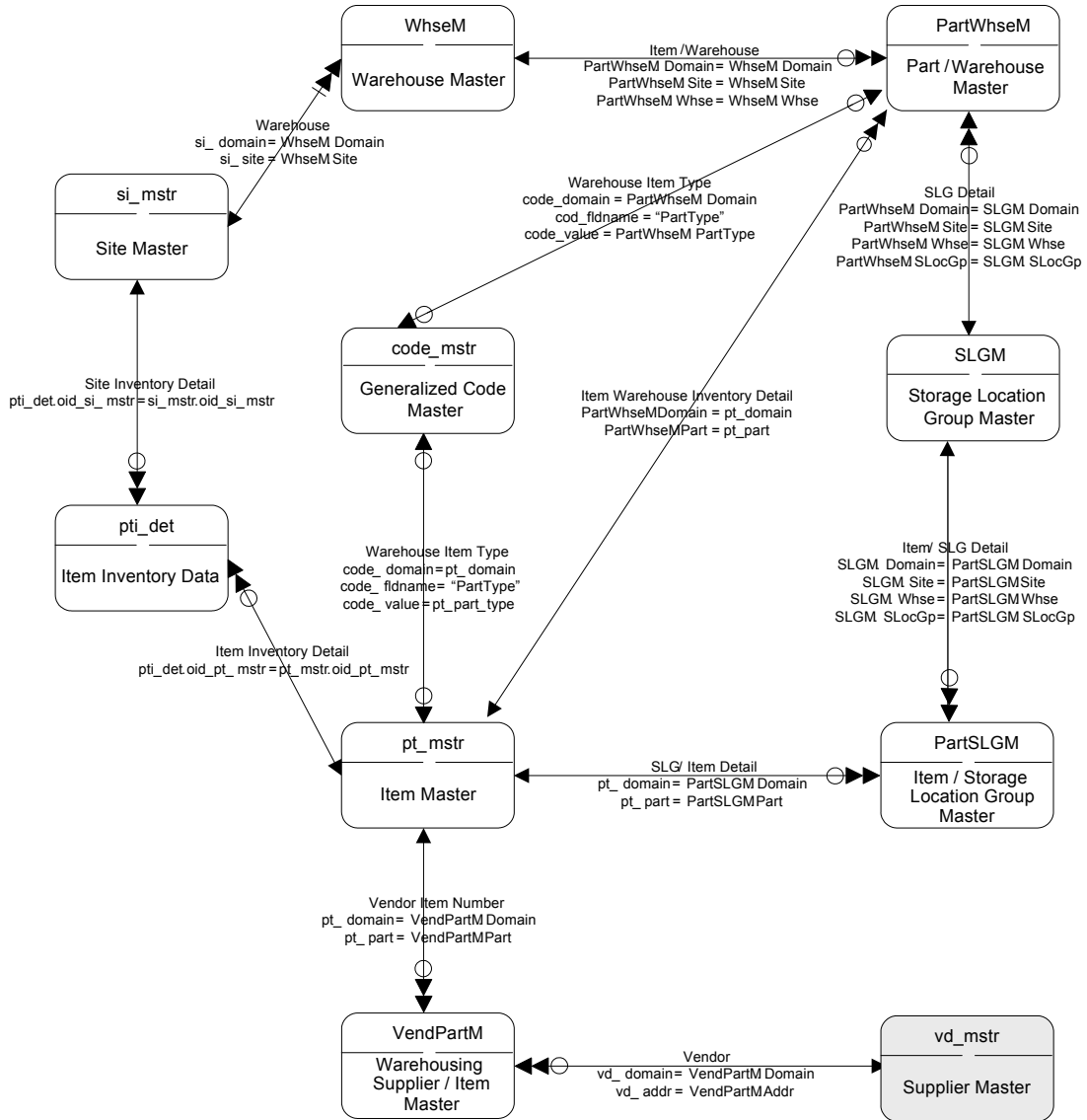
# Warehouse – Bulk Picking



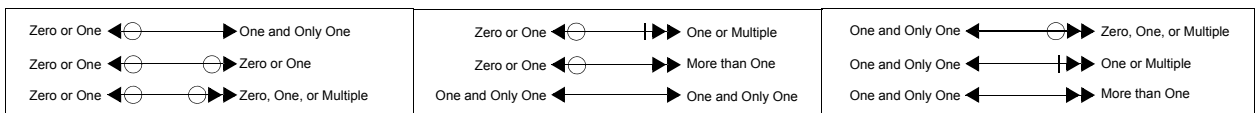
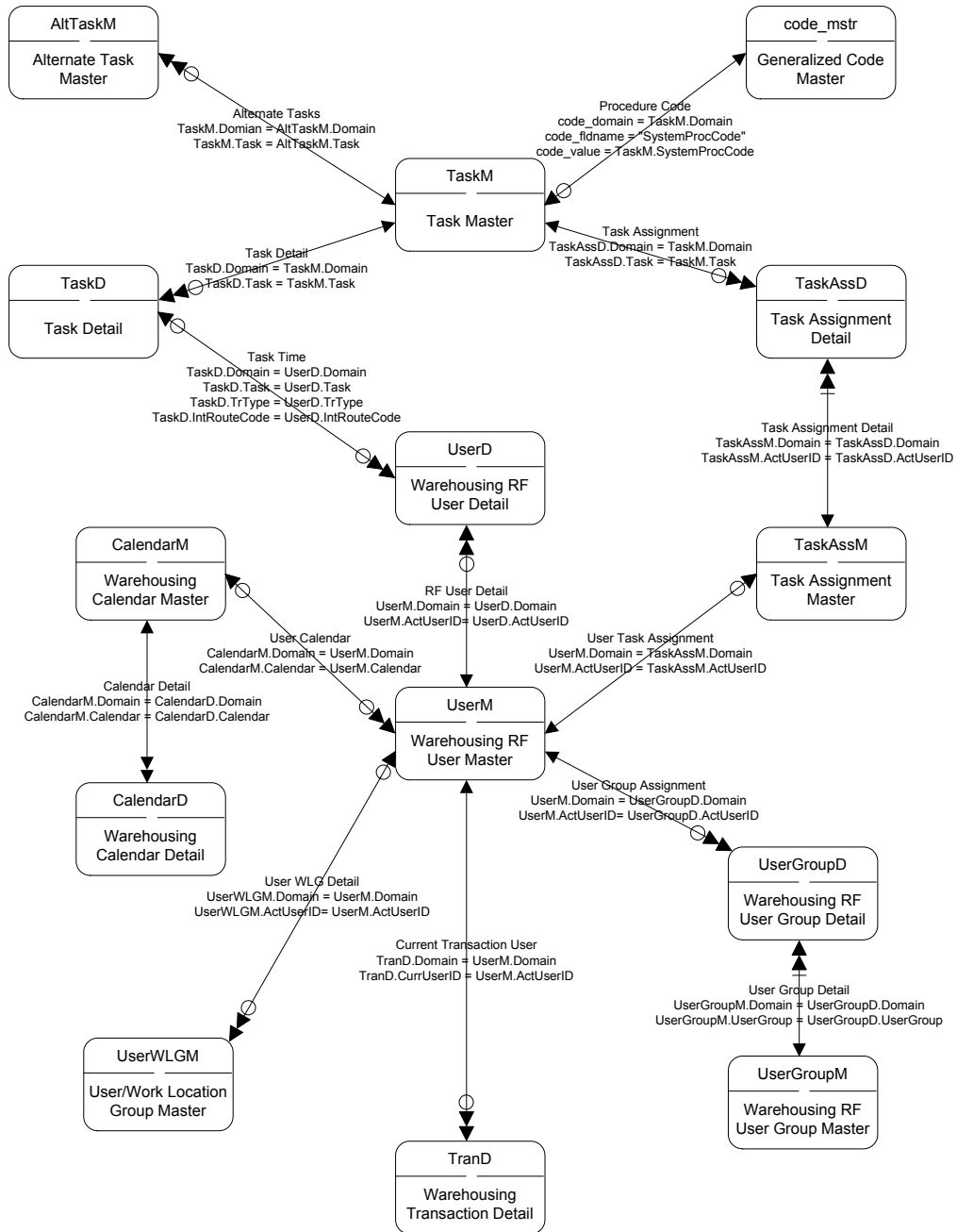
# Warehouse – Inventory Transactions



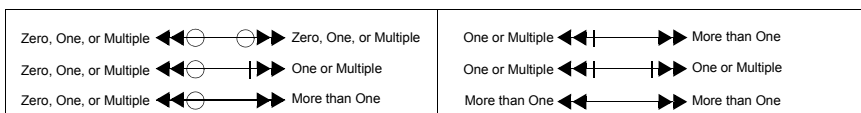
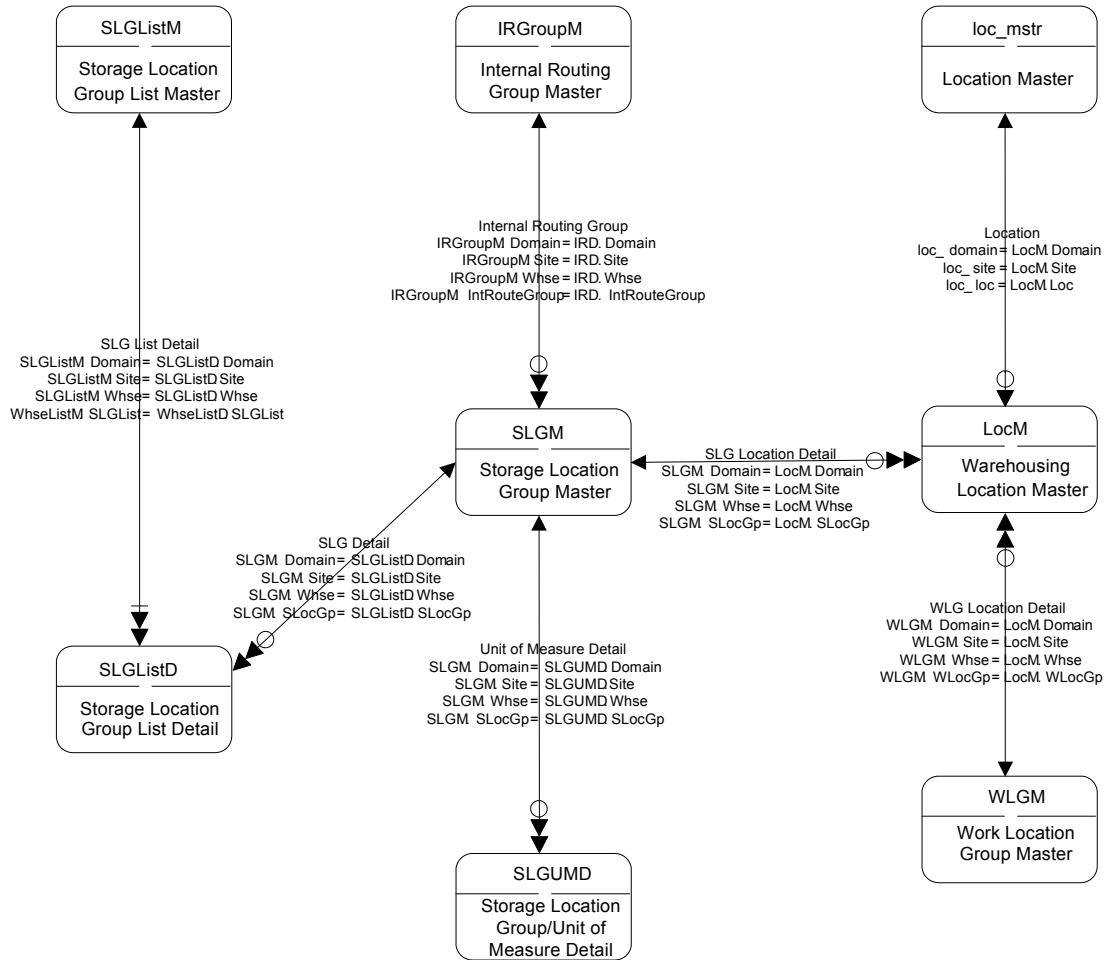
# Warehouse – Items



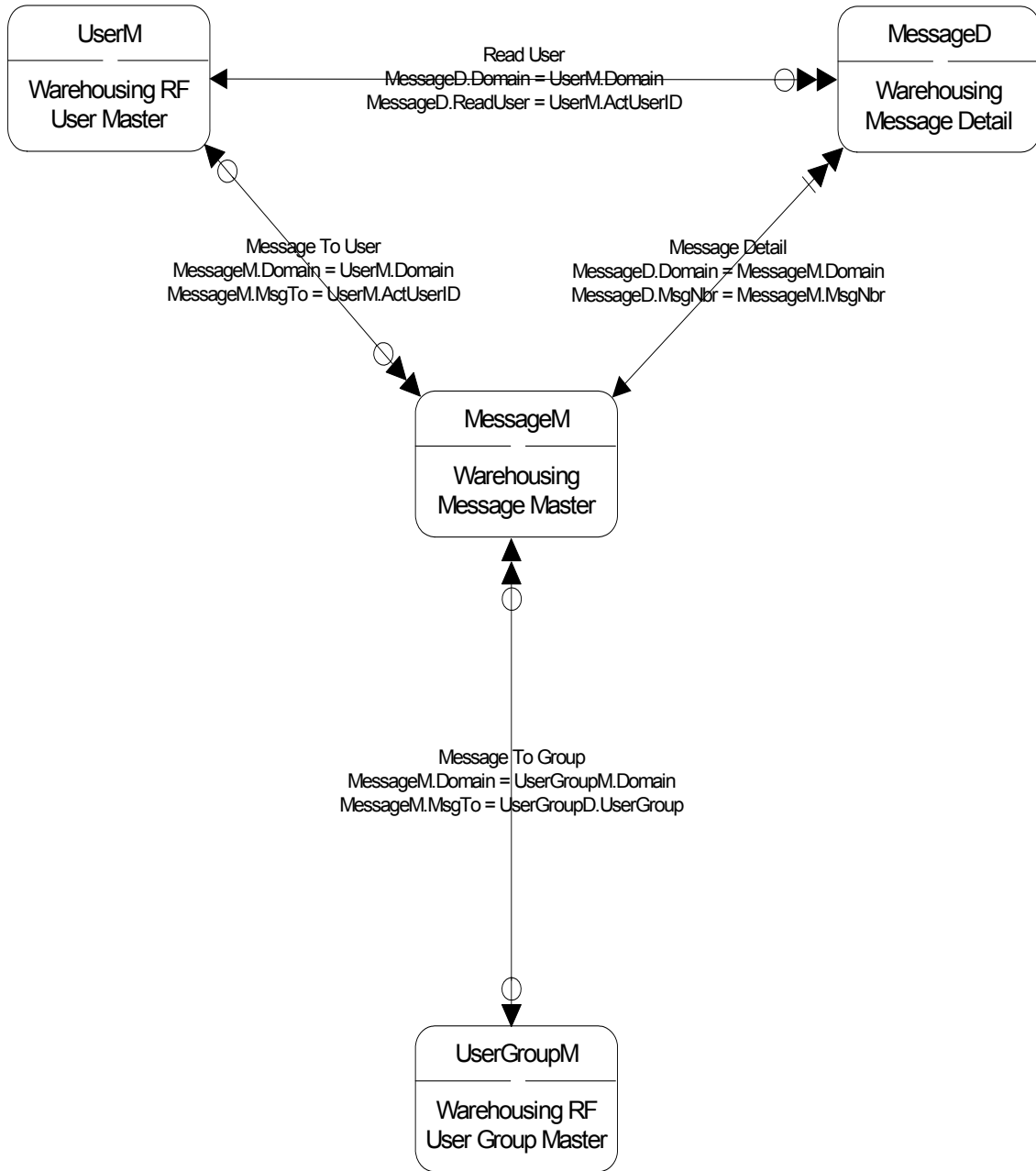
## Warehouse – Labor



# Warehouse – Locations

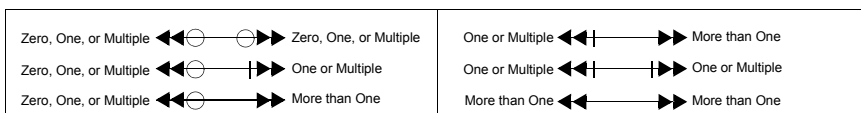
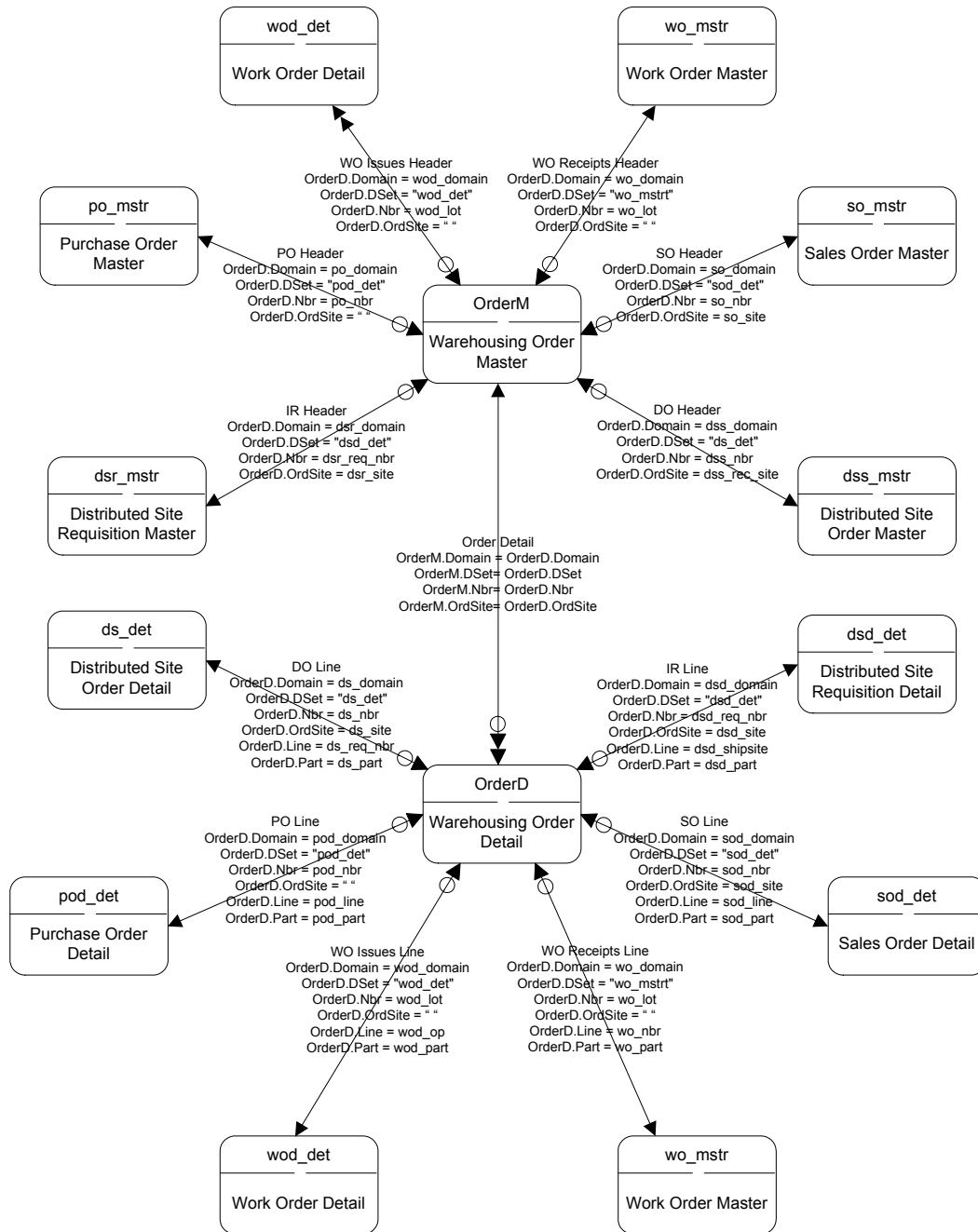


## Warehouse – Messaging

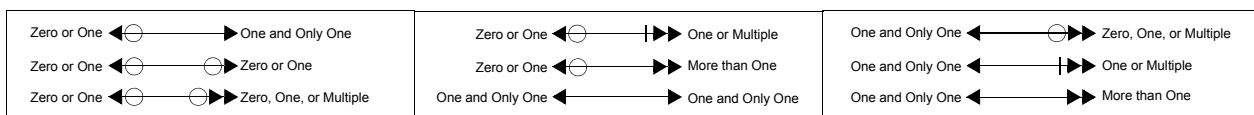
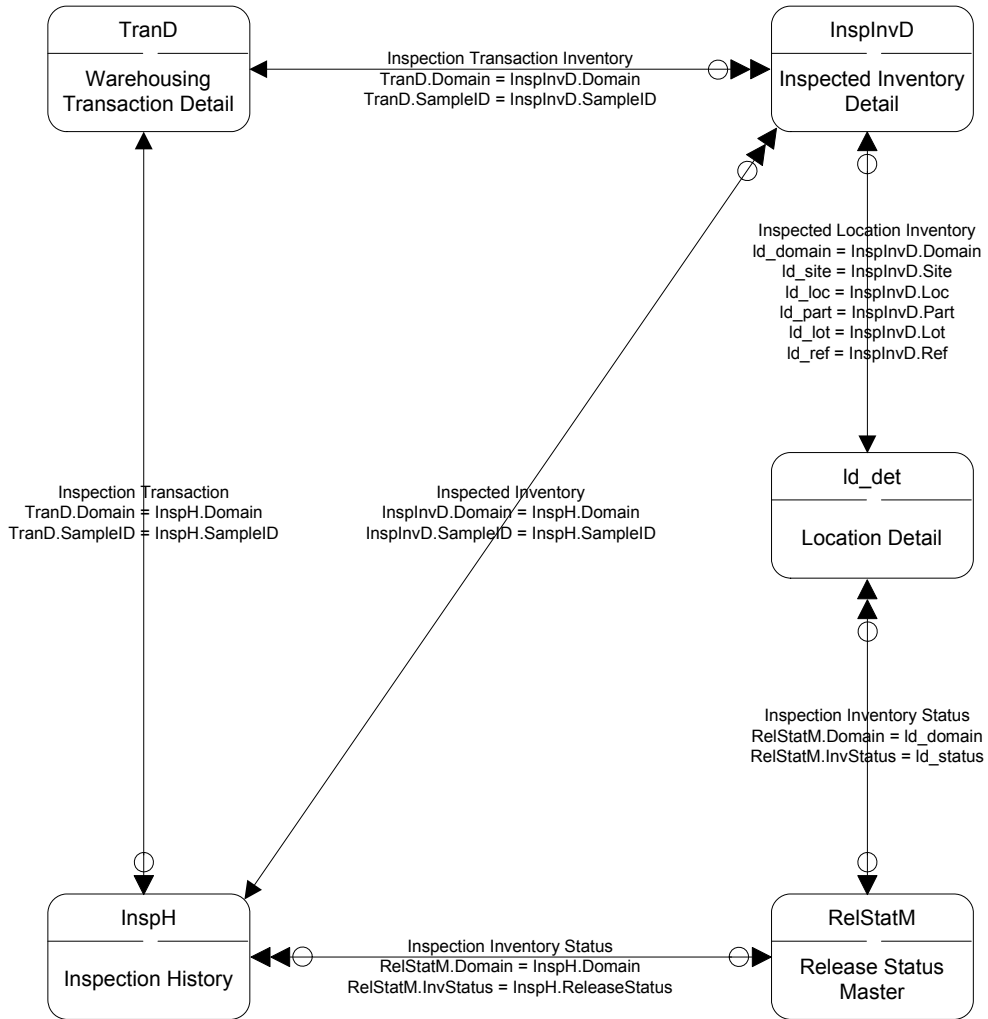


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \longrightarrow \dashrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashrightarrow \dashrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \longrightarrow \dashrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashrightarrow \dashrightarrow \dashrightarrow$ More than One

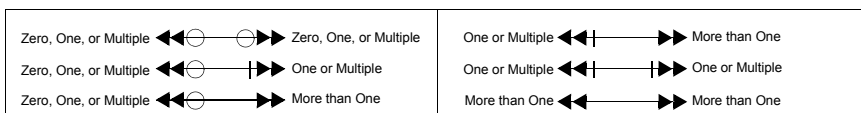
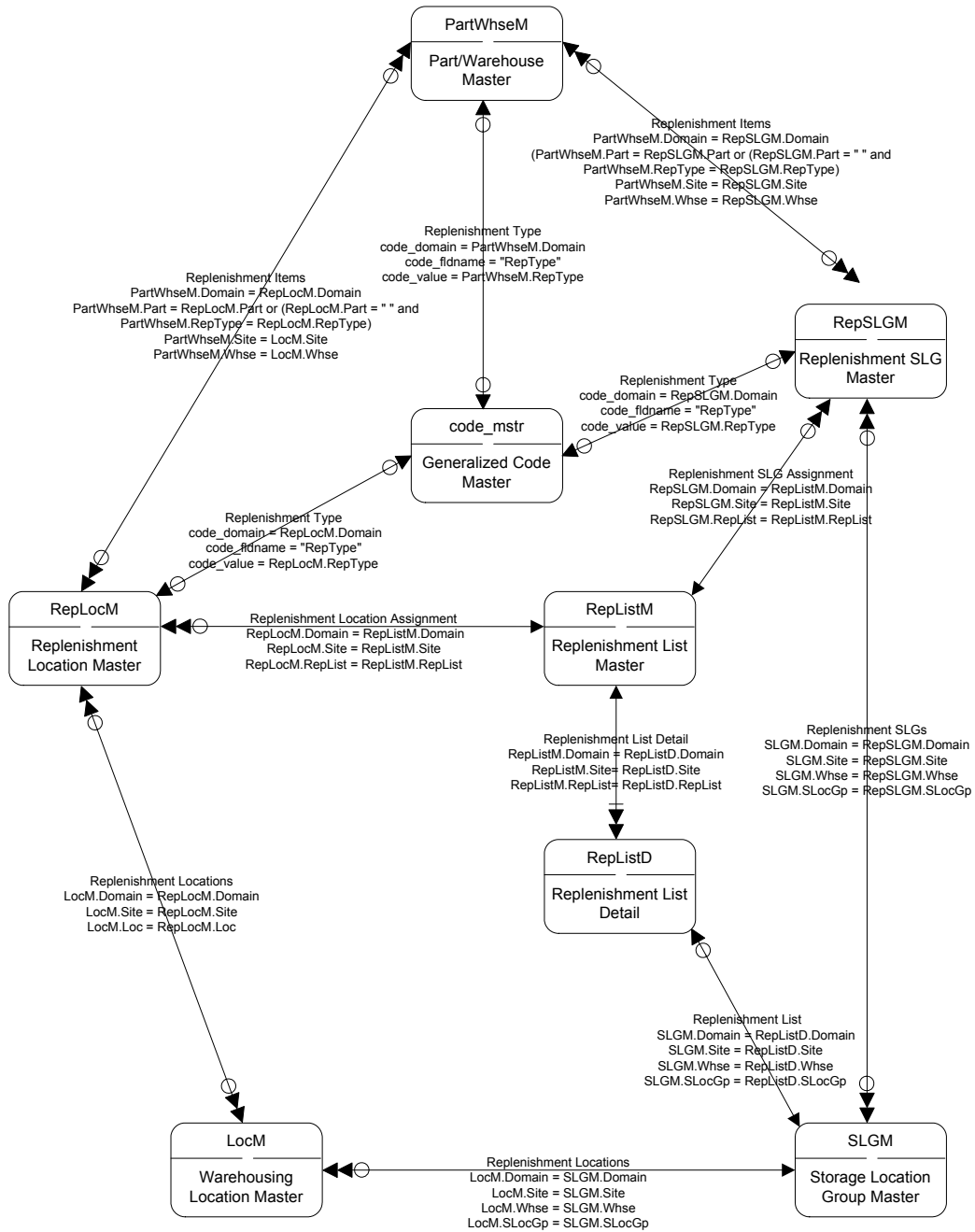
# Warehouse – Orders



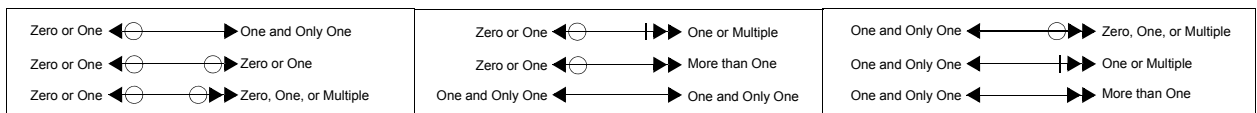
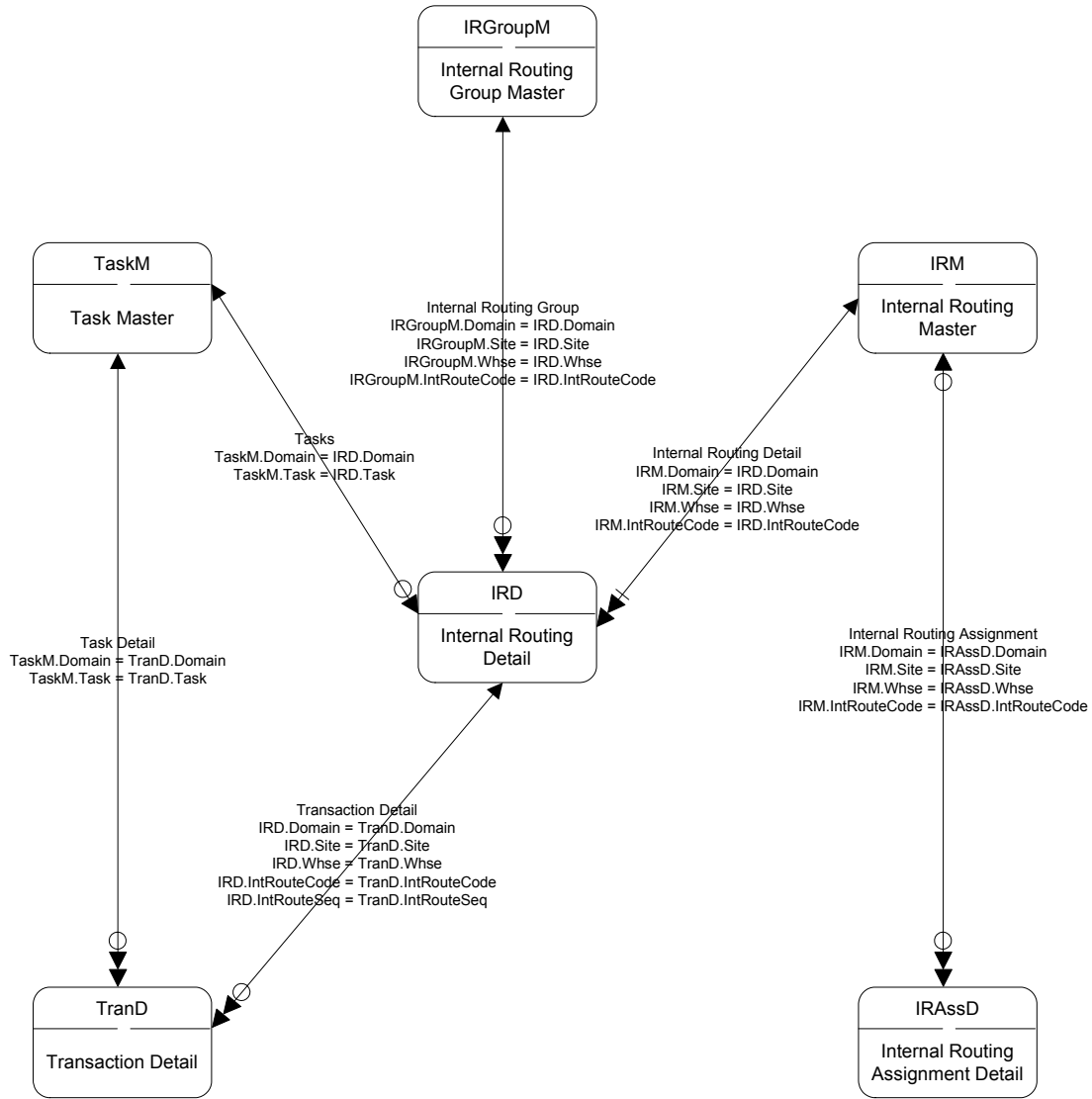
## Warehouse – Quality Inspection



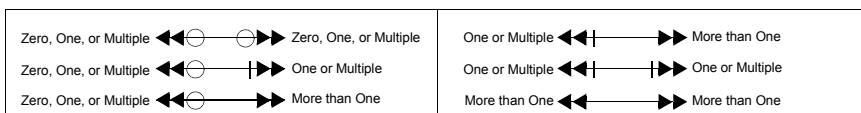
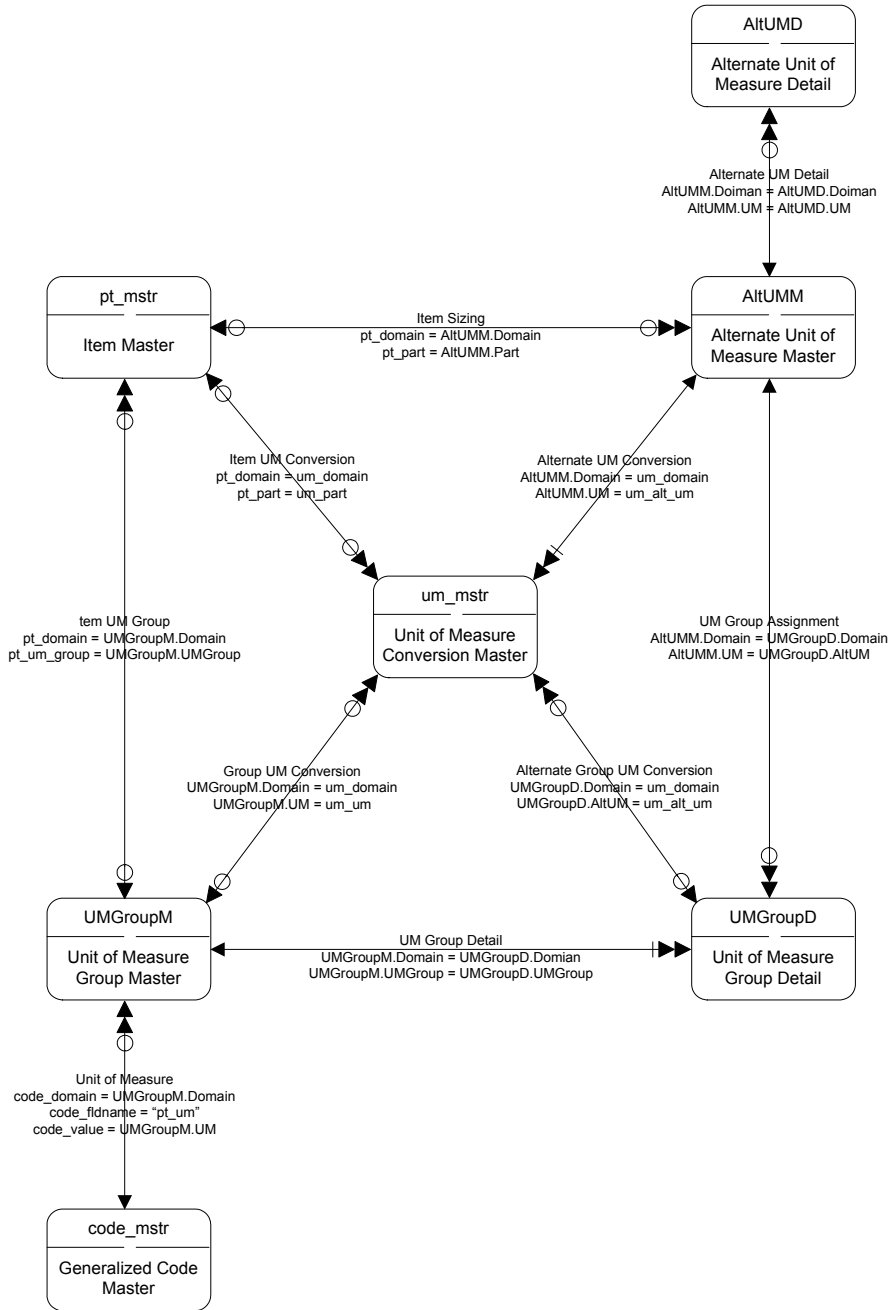
# Warehouse – Replenishment



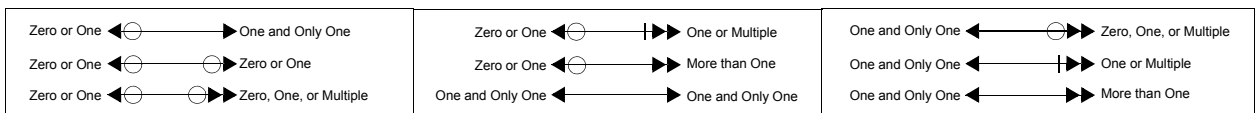
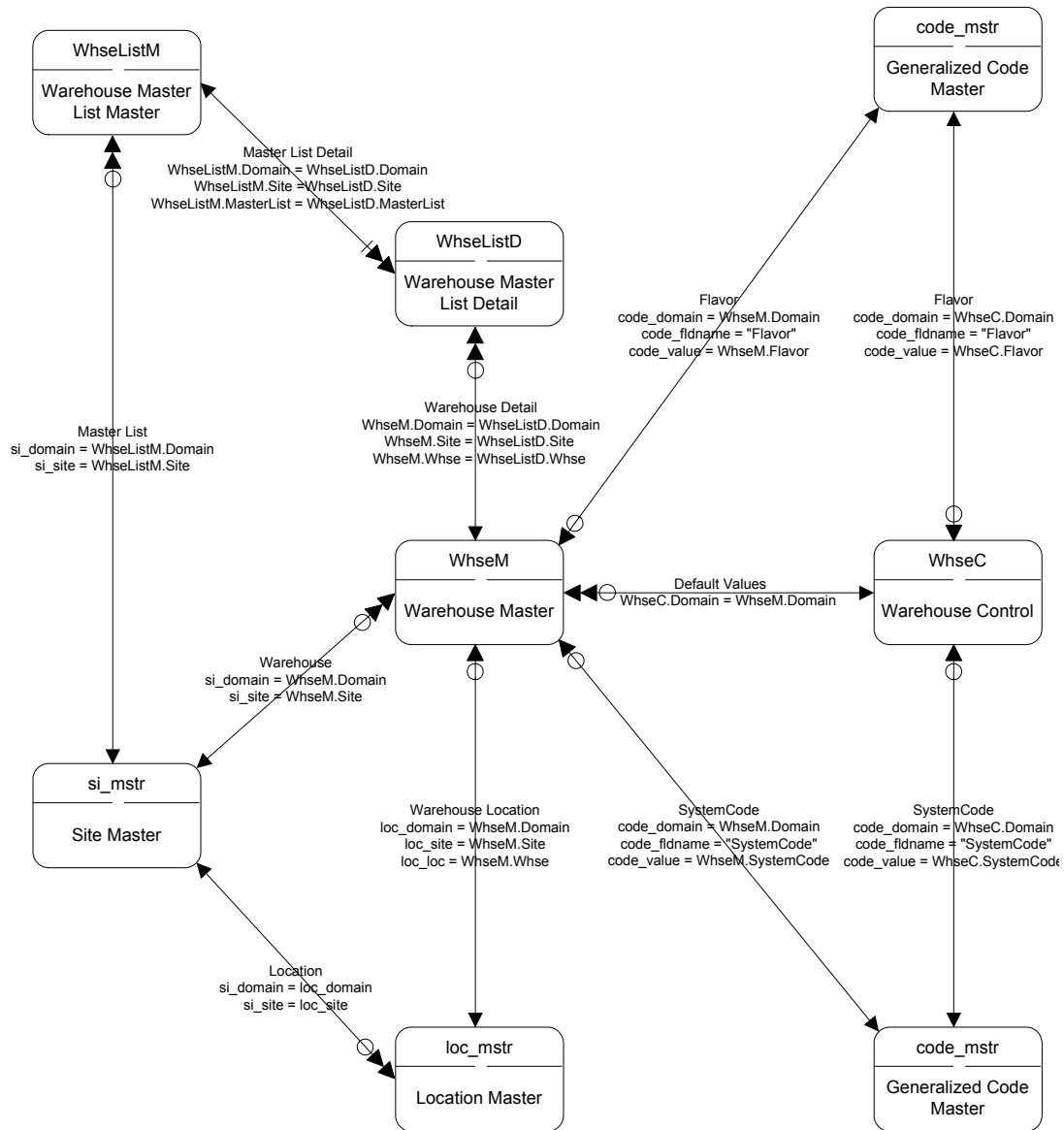
## Warehouse – Routings



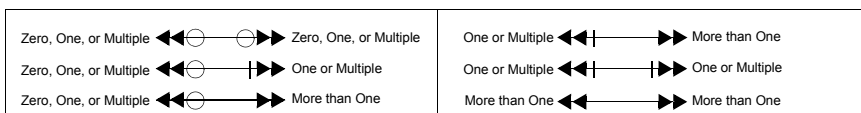
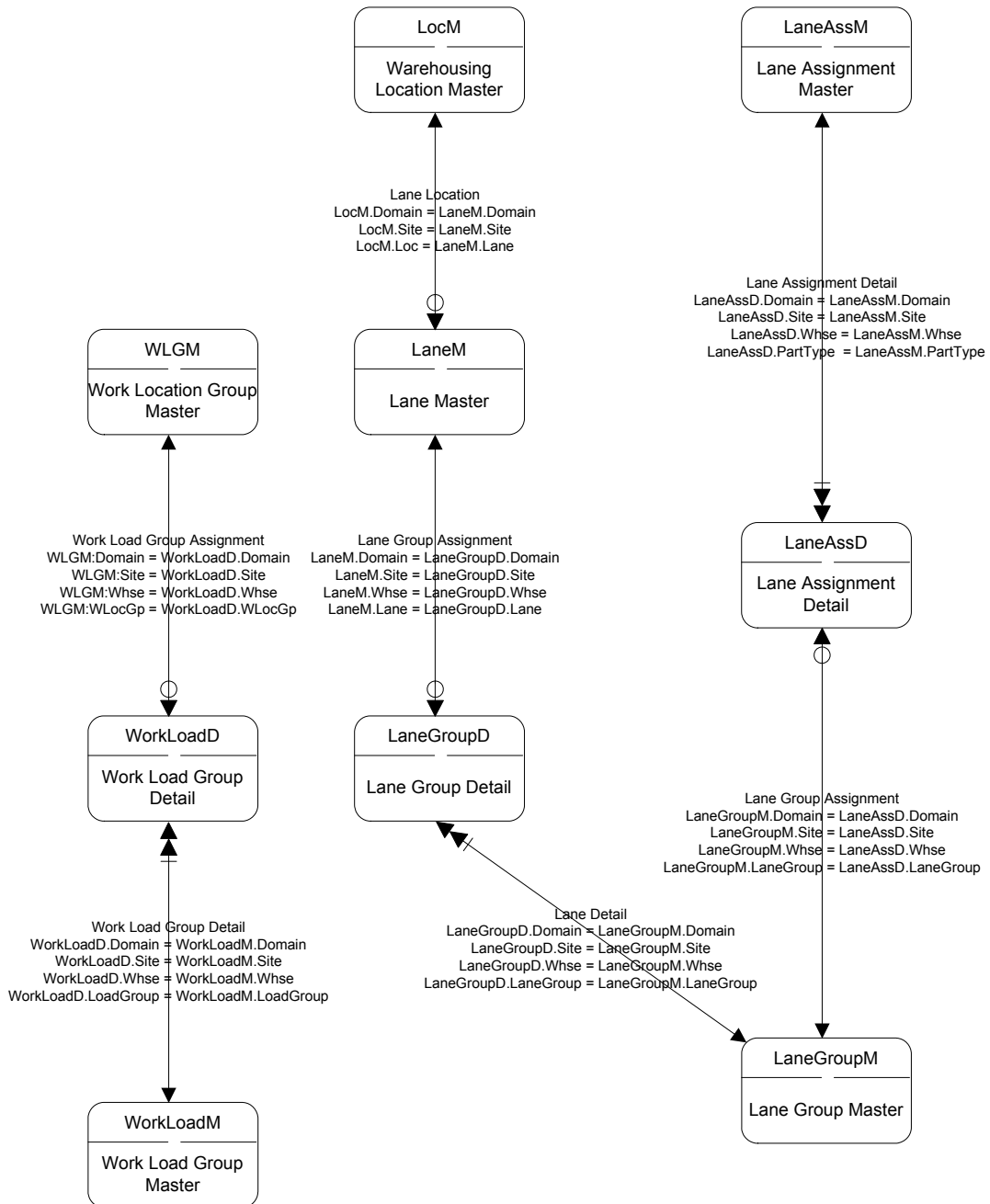
# Warehouse – Sizing



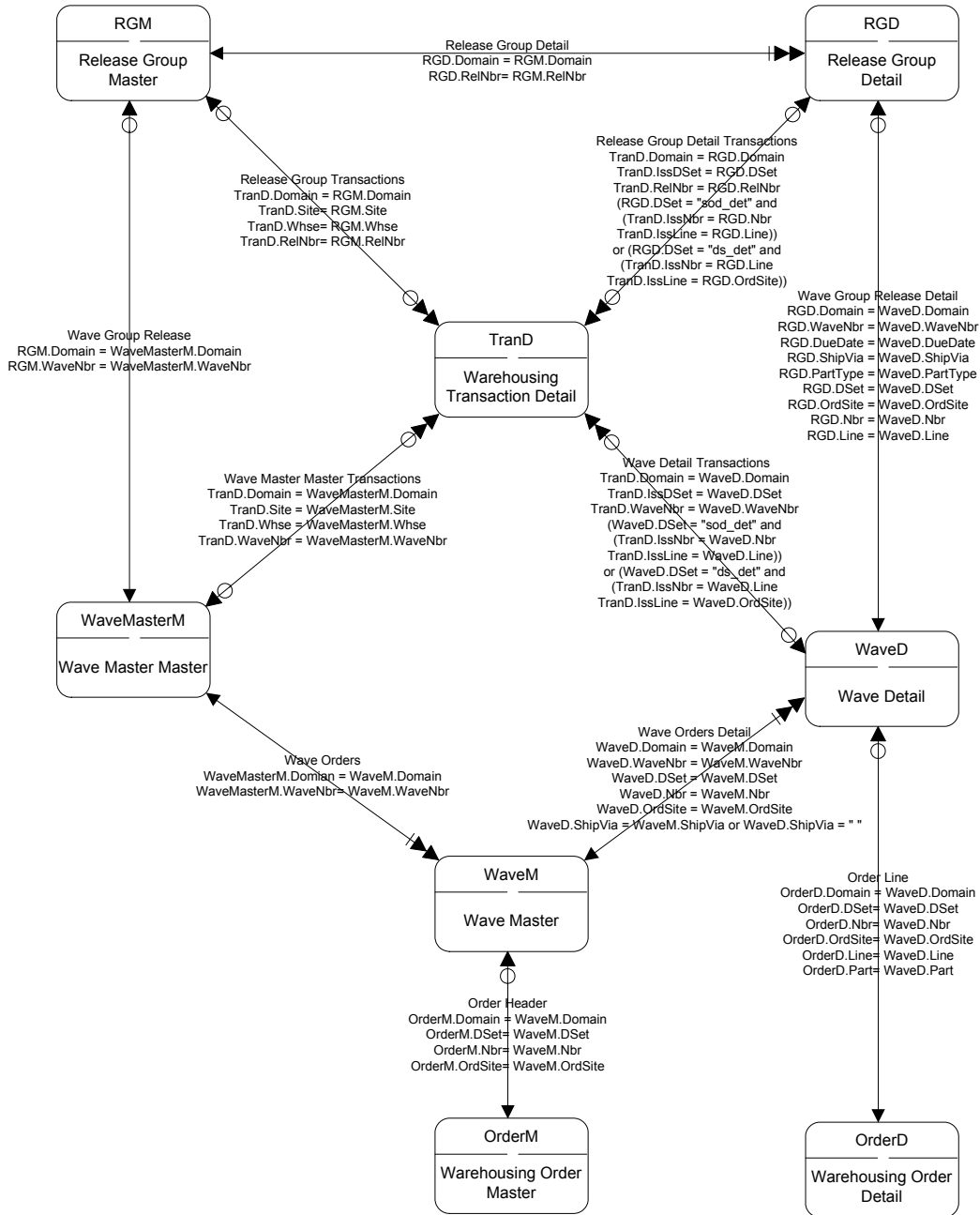
## Warehouse – Warehouses



# Warehouse – Wave Planning I

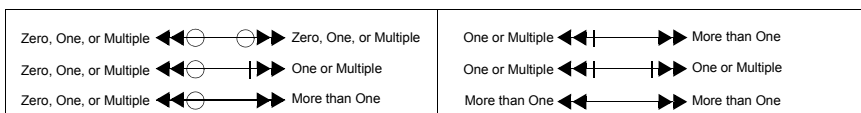
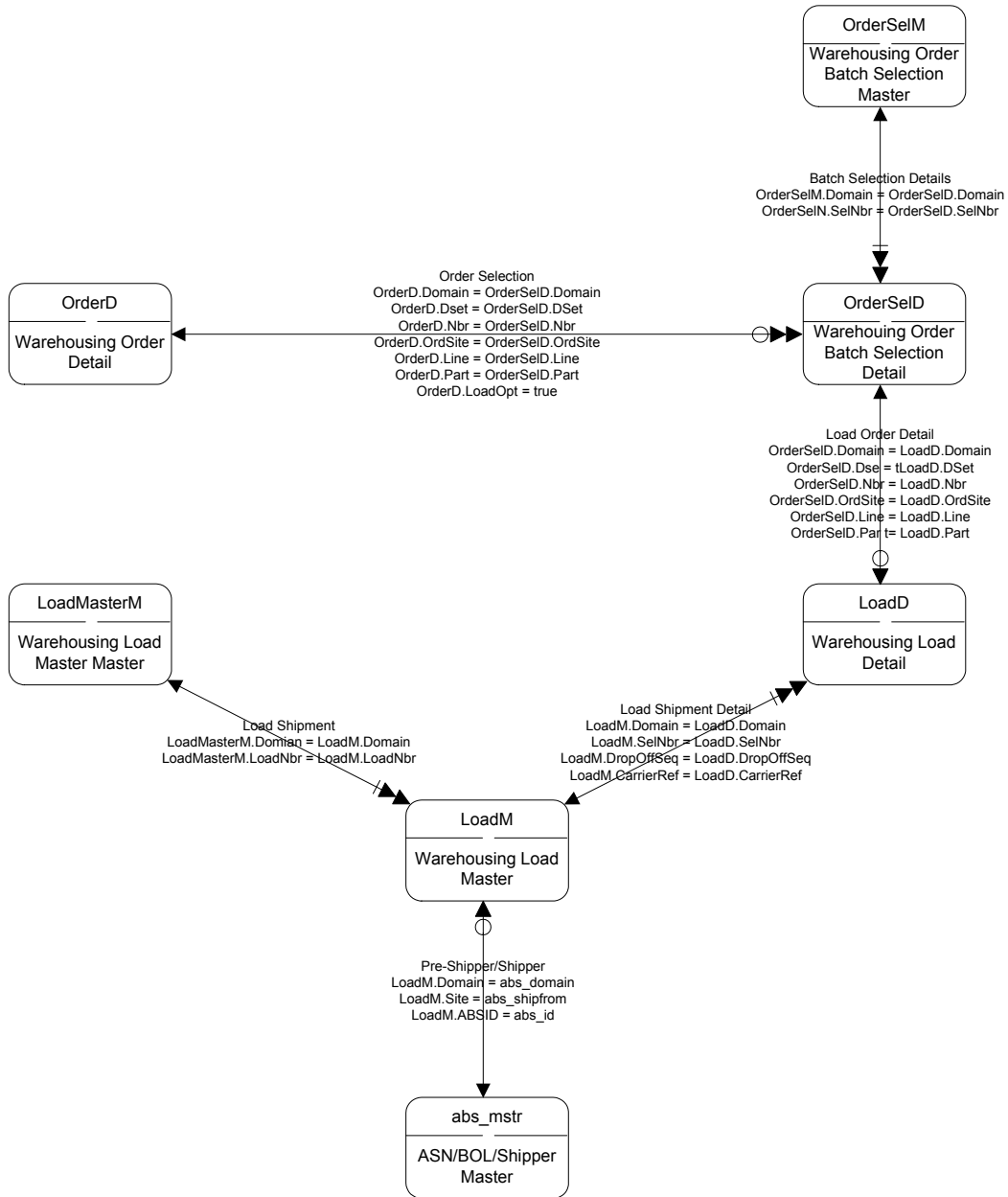


## Warehouse – Wave Planning II

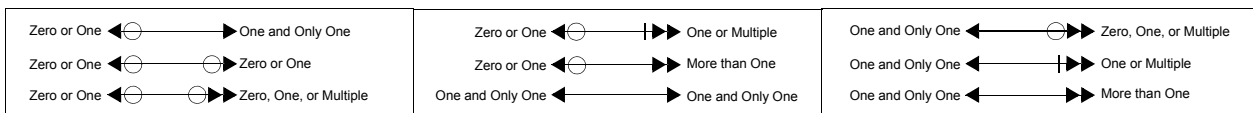
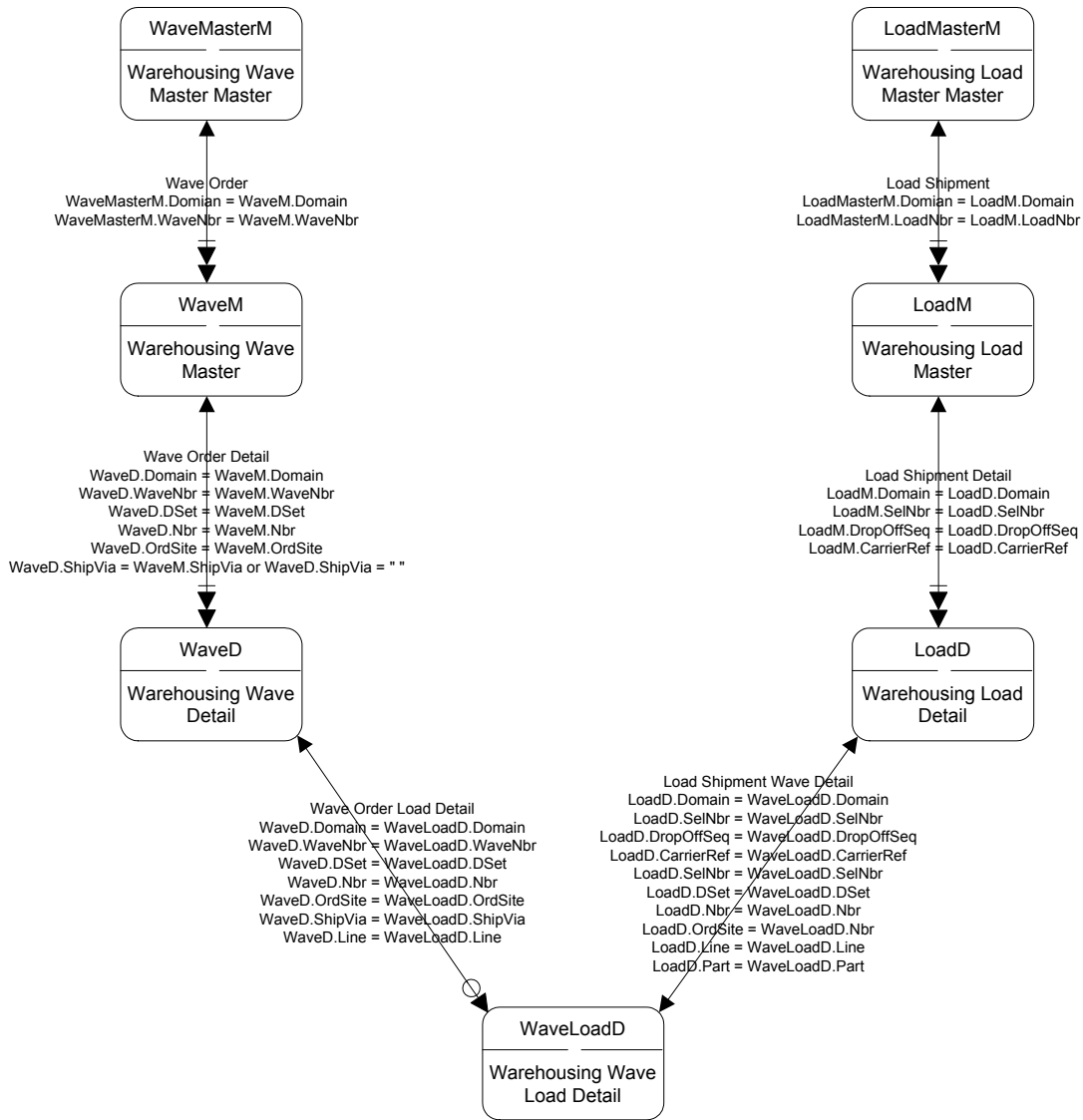


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \longrightarrow \dashrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashrightarrow \dashrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \longrightarrow \dashrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashrightarrow \dashrightarrow \dashrightarrow$ More than One

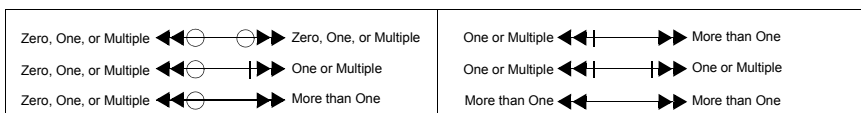
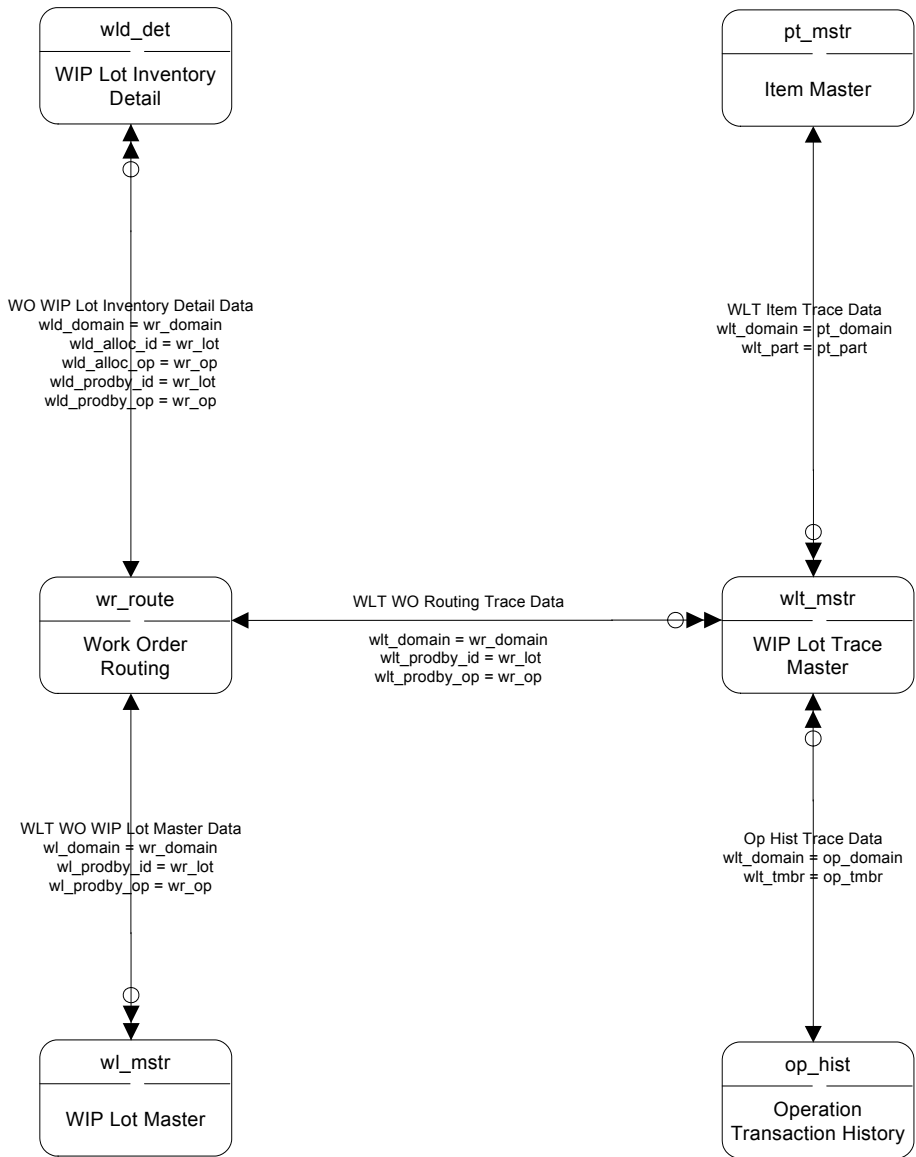
# Warehouse – Wave Transportation I



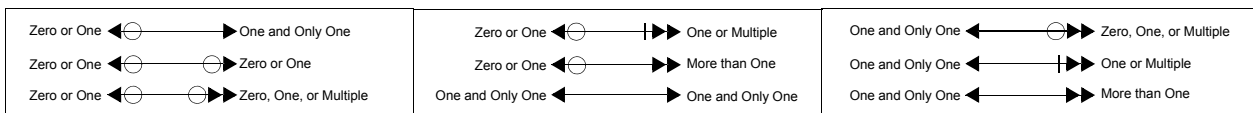
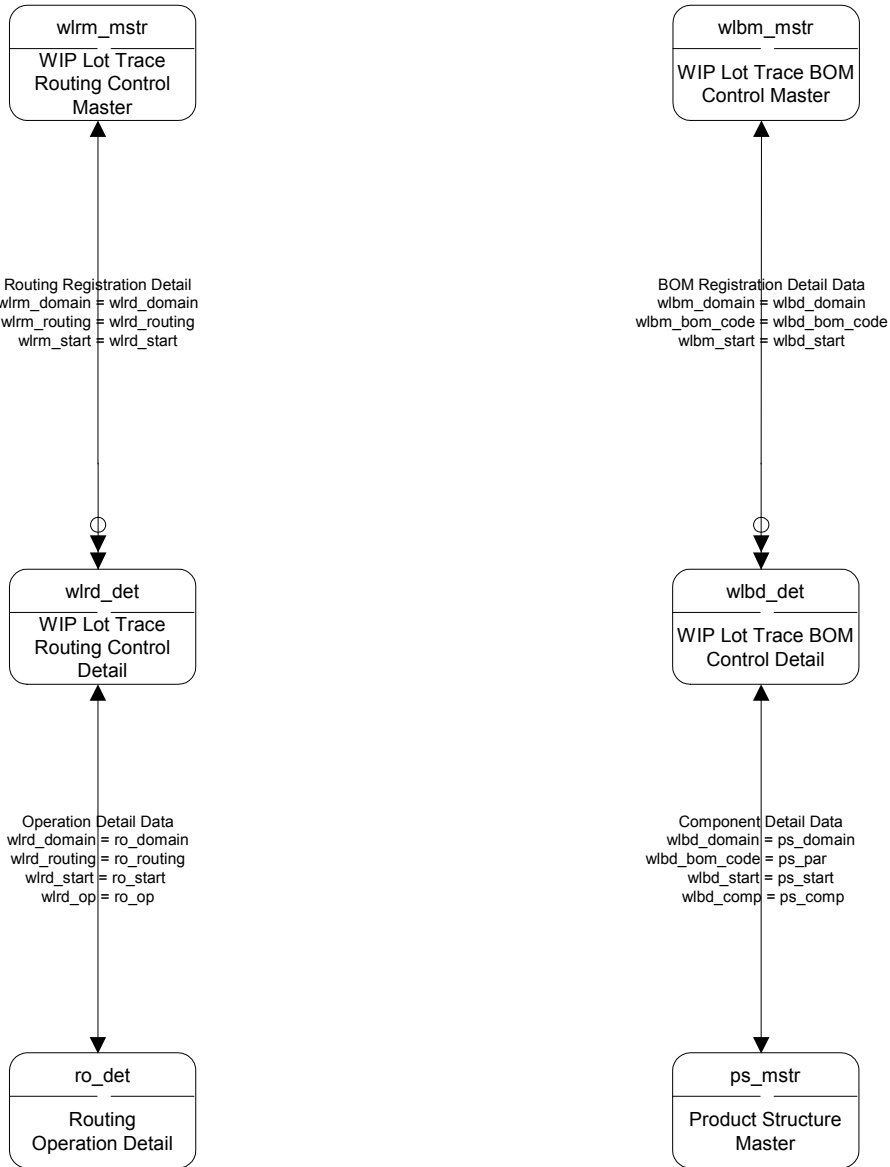
## Warehouse – Wave Transportation II



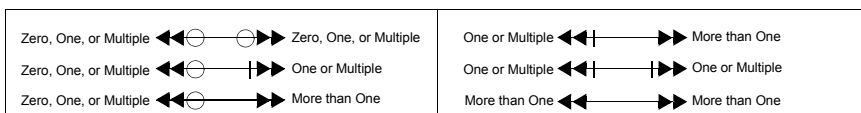
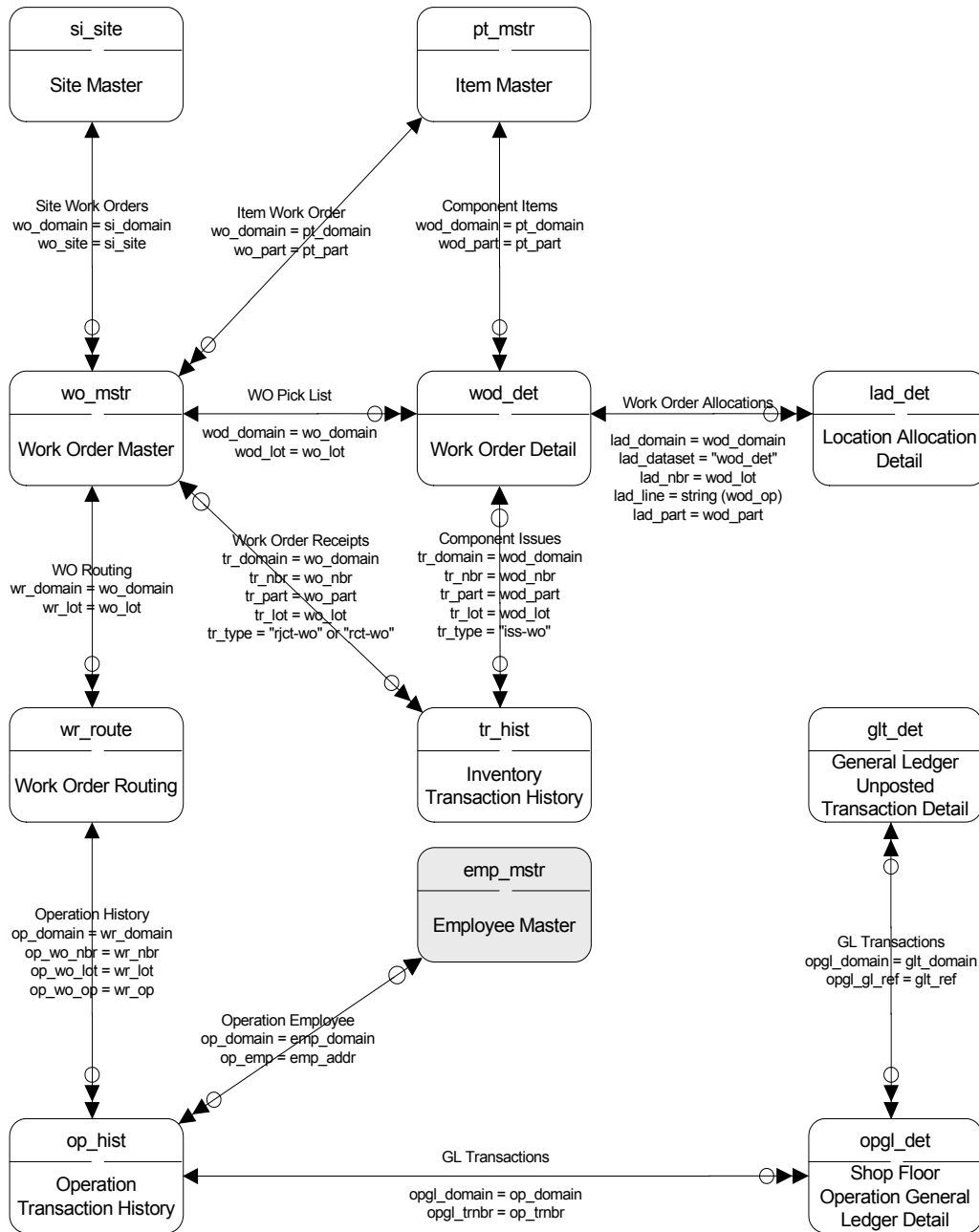
# WIP Lot Trace I

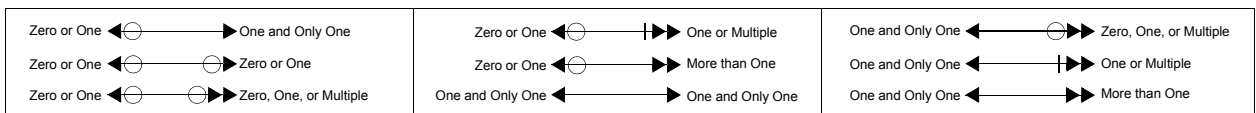


## WIP Lot Trace II



# Work Orders





## Section 2

# Financial Table Relationships

This section includes entity diagrams for Financial functions.

***Financial Entity Diagrams*** 179

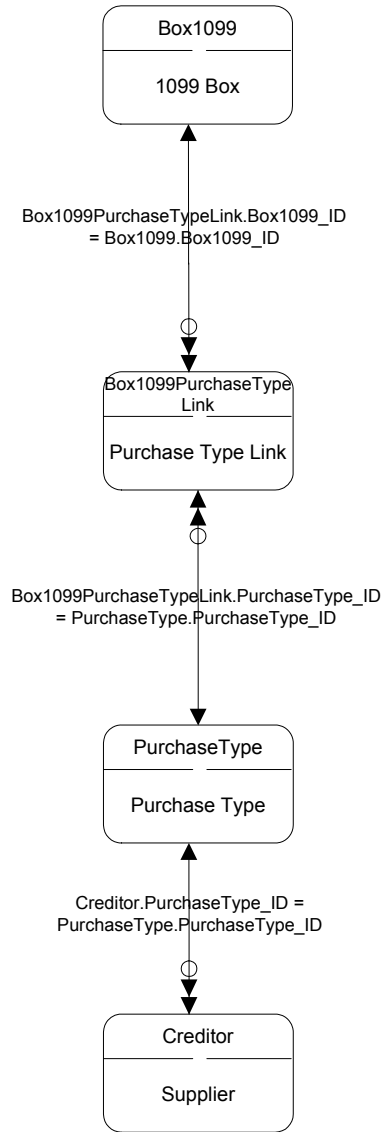


# Financial Entity Diagrams

The entity diagrams are in alphabetical order starting on the next page.

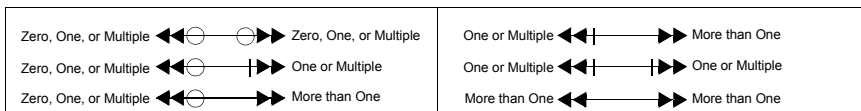
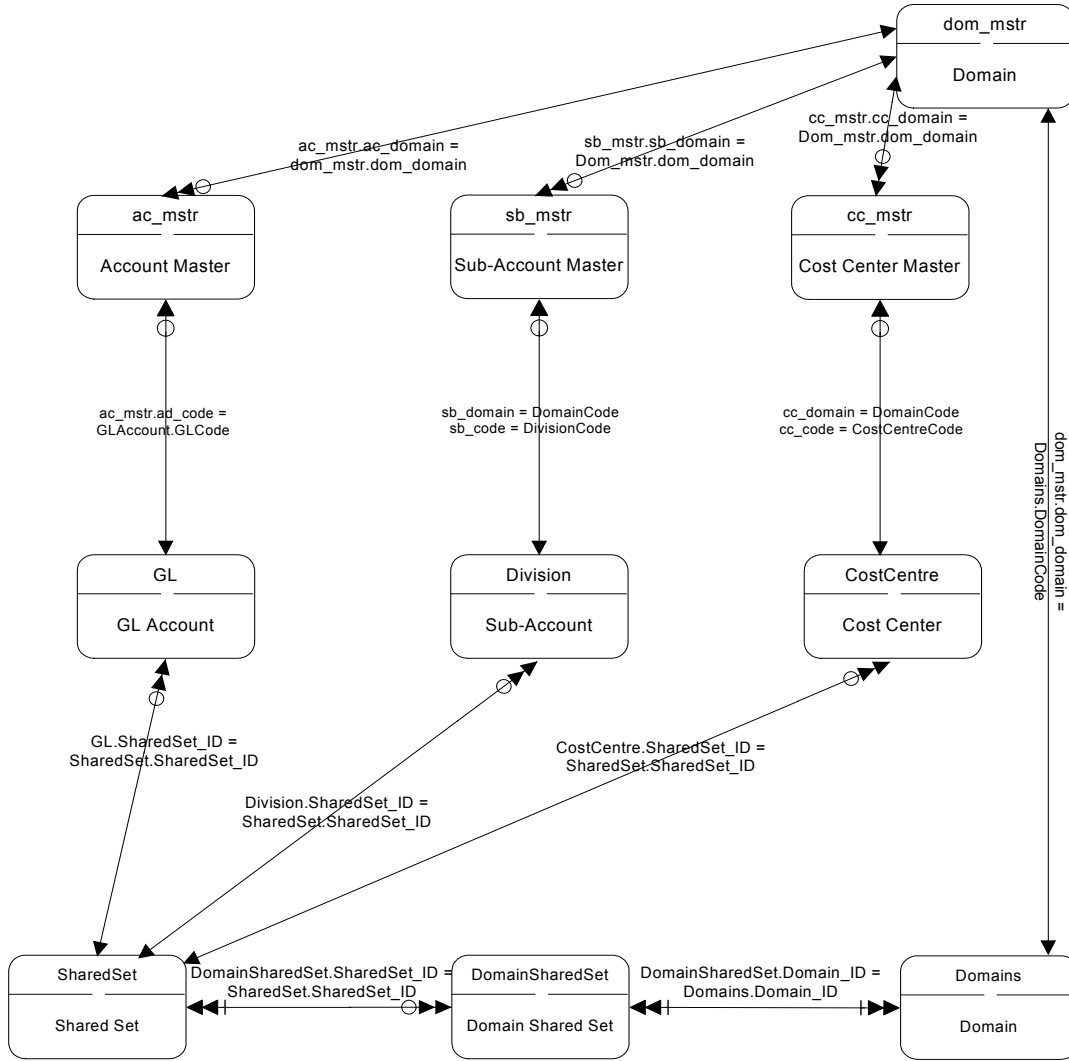
Table 5.1 on page 344 lists each table included in the diagrams and indicates the title of the diagram where the table appears.

# 1099

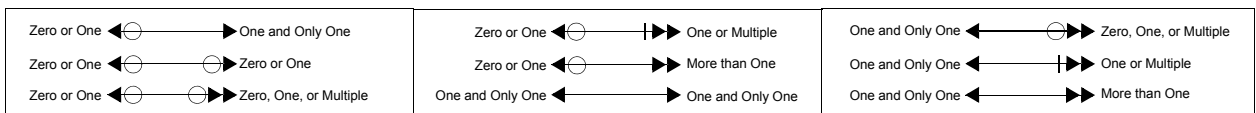
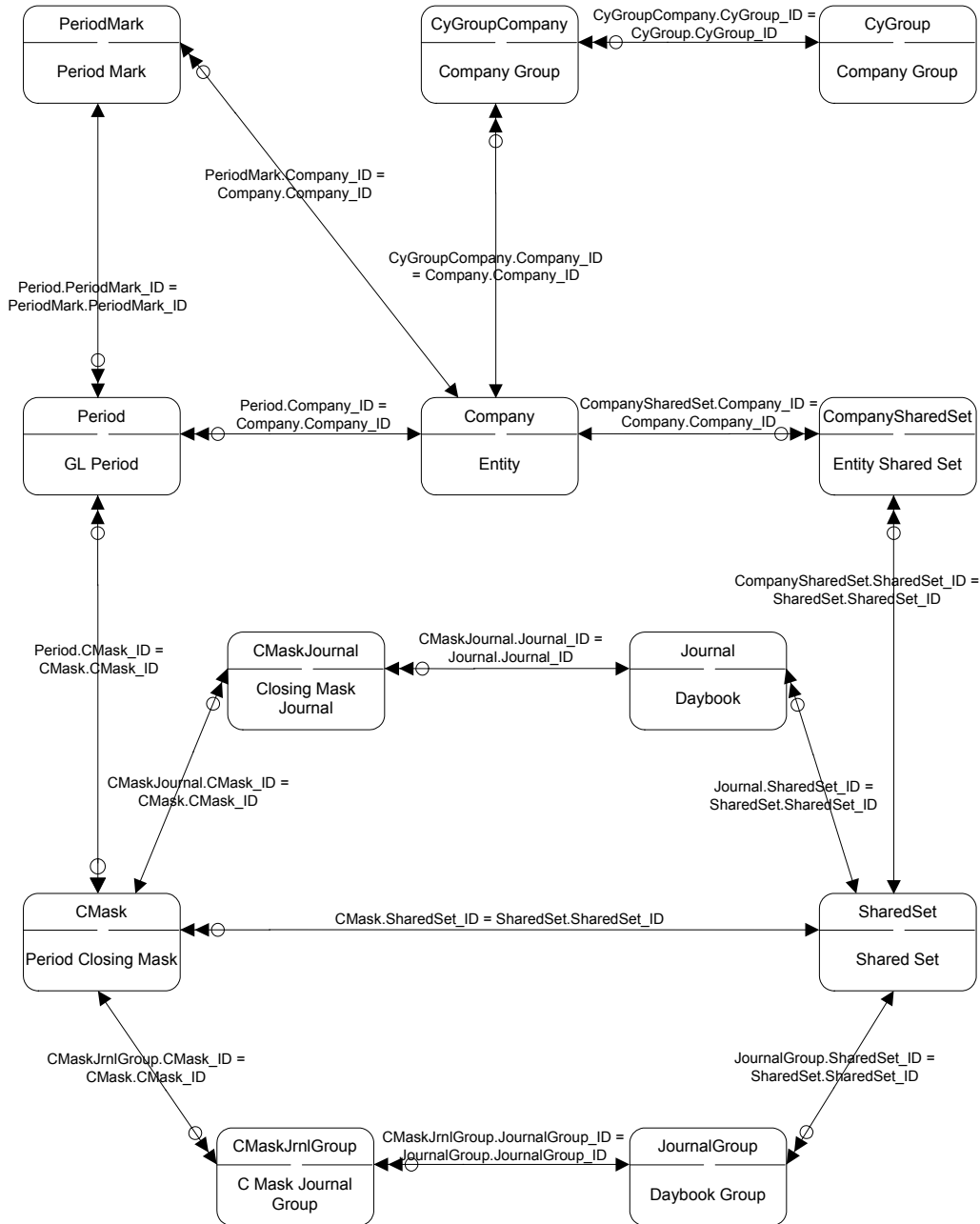


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero, One, or Multiple	Zero or One $\leftarrow \ominus \longrightarrow \text{  }$ One or Multiple Zero or One $\leftarrow \ominus \longrightarrow \text{  }$ More than One One and Only One $\leftarrow \ominus \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \longrightarrow \text{  }$ Zero, One, or Multiple One and Only One $\leftarrow \ominus \longrightarrow \text{  }$ One or Multiple One and Only One $\leftarrow \ominus \longrightarrow \text{  }$ More than One
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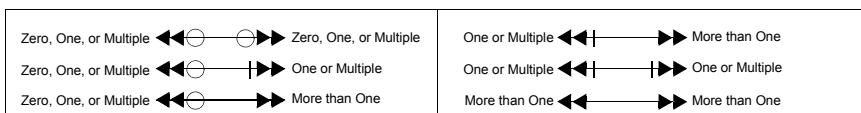
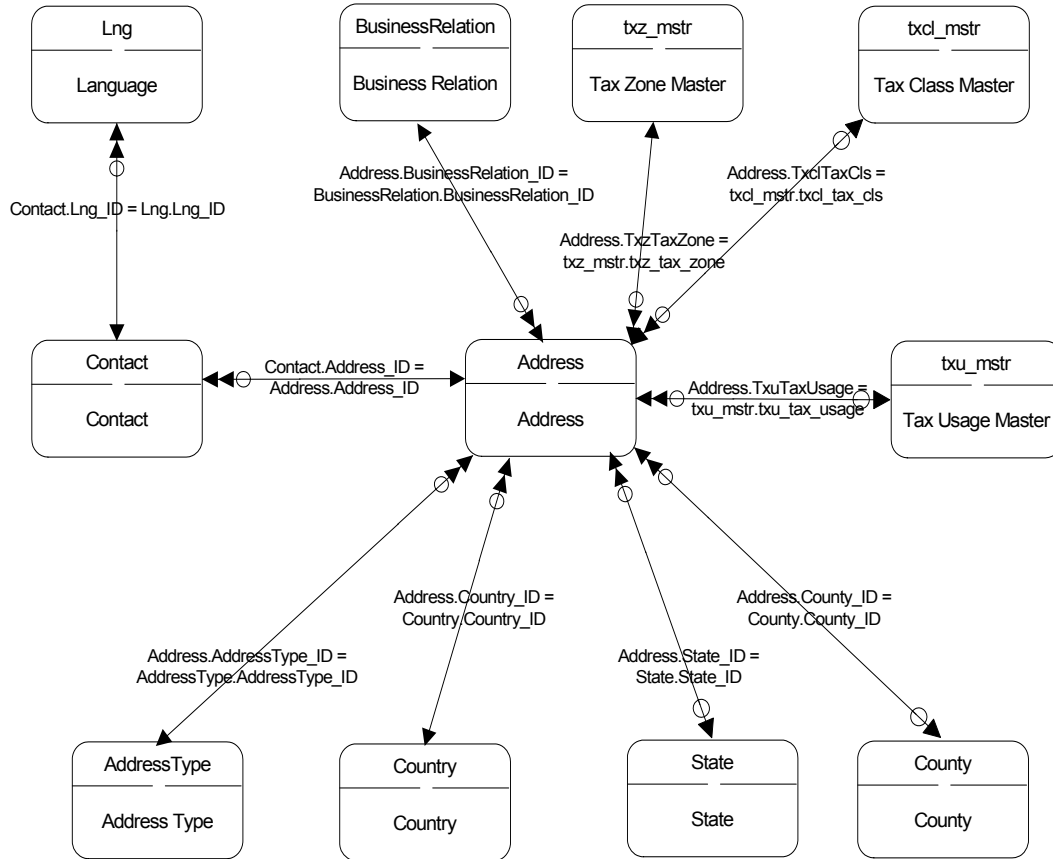
# Account Replication



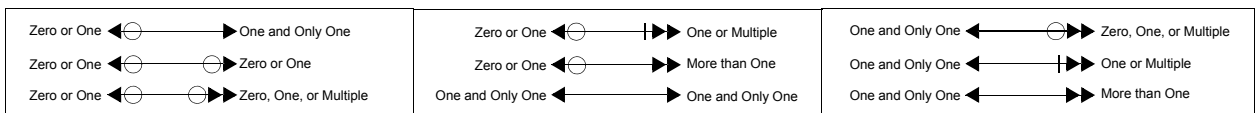
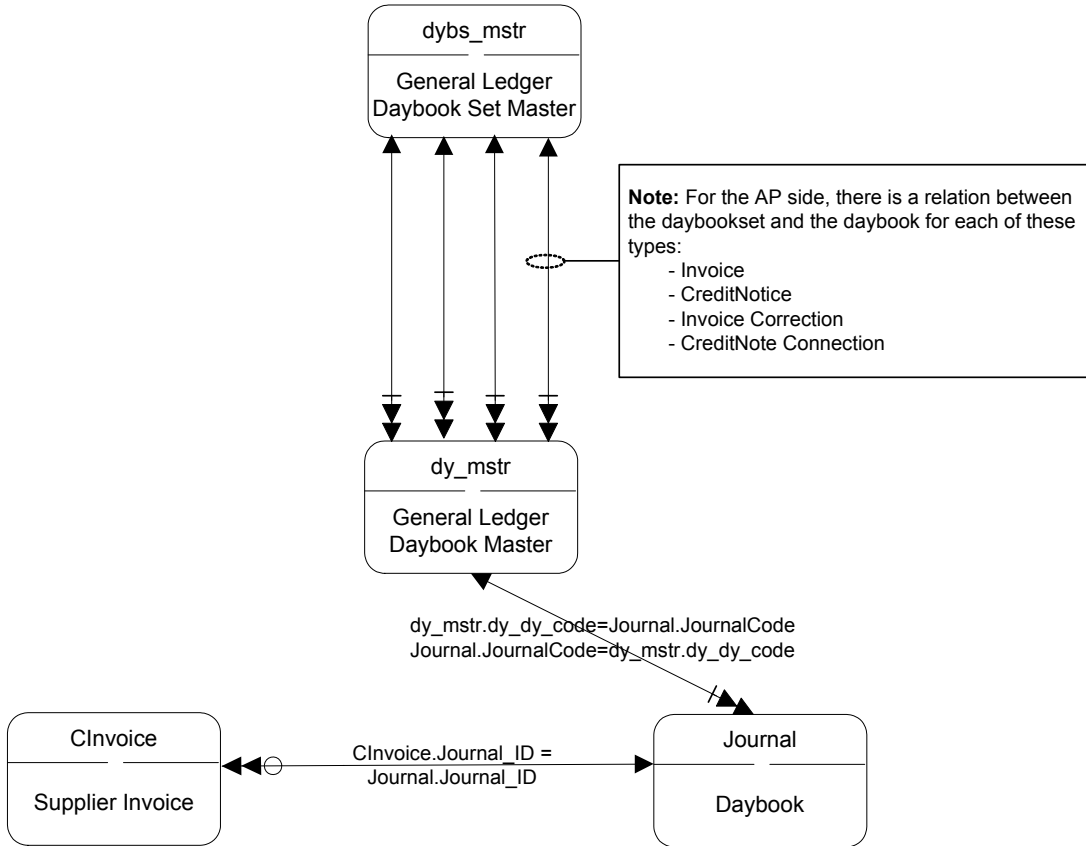
## Accounting Period



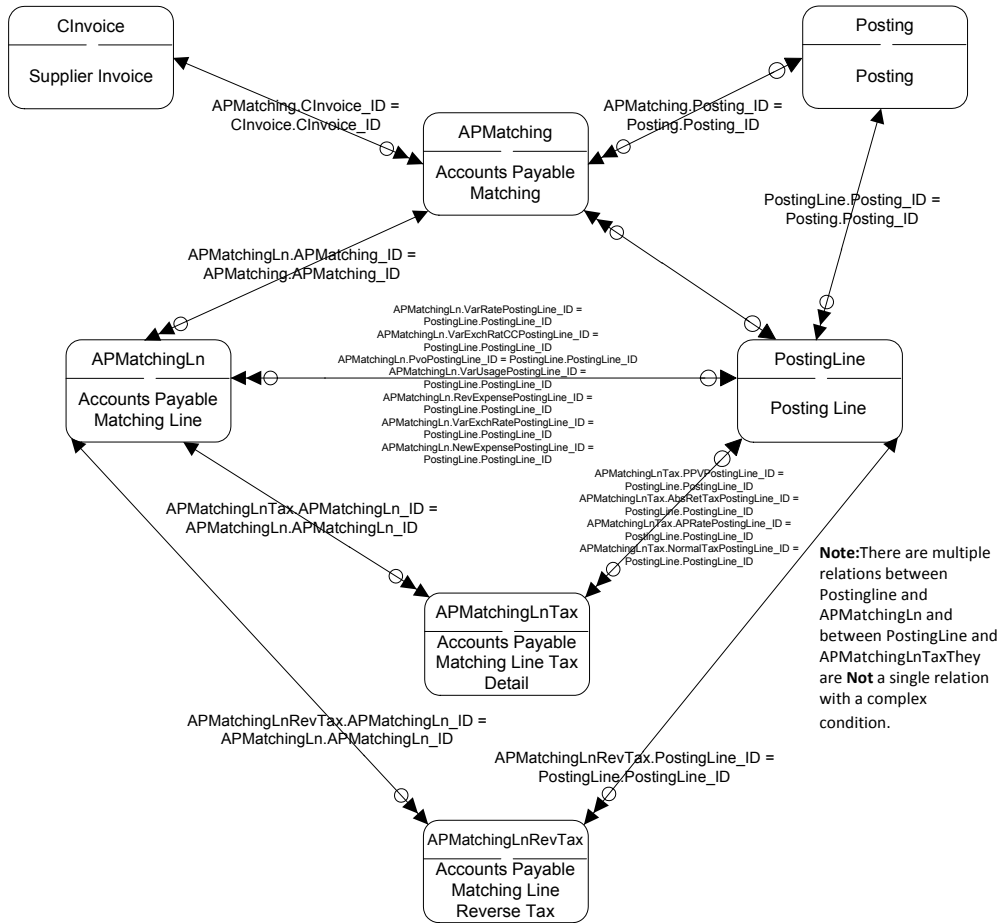
# Address



## Accounts Payable Daybook Sets



# Accounts Payable Matching Detail I



**Note:** There are multiple relations between Postingline and APMatchingLn and between PostingLine and APMatchingLnTax They are **Not** a single relation with a complex condition.

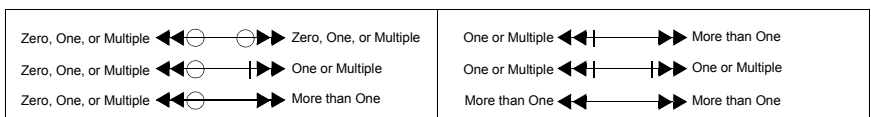
**Notes:** The matching tables hold references to different posting lines that are created. APMatching holds a single reference to the posting line on the site account. APMatchingLn holds references to the following posting lines:

- Rate variance
- Usage variance
- Exchange rate variance
- Receipt
- New accrual
- Reversal of previous accrual

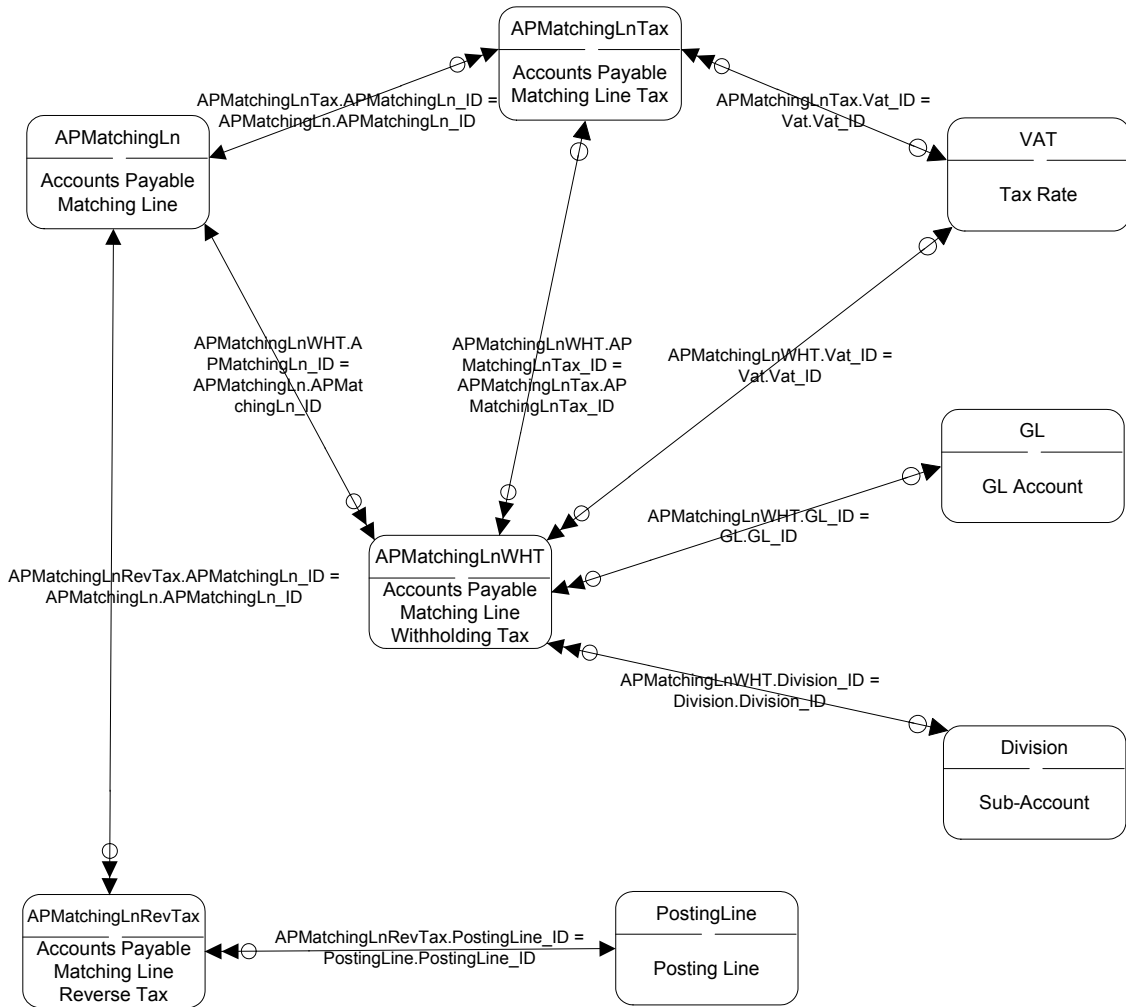
APMatchingLnTax holds references to the following posting lines:

- Non-revocable tax
- Purchase price variance
- Normal tax
- Retained tax

APMatchingLnRevTax holds a single reference for every posting line that reverses the tax impact of the matched pending voucher.



## Accounts Payable Matching Detail II



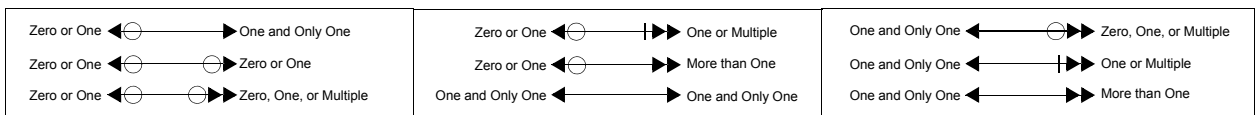
**Notes:** The matching tables hold references to different posting lines that are created. APMatching holds a single reference to the posting line on the site account. APMatchingLn holds references to the following posting lines:

- Rate variance
- Usage variance
- Exchange rate variance
- Receipt
- New accrual
- Reversal of previous accrual

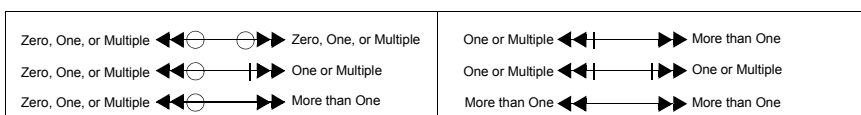
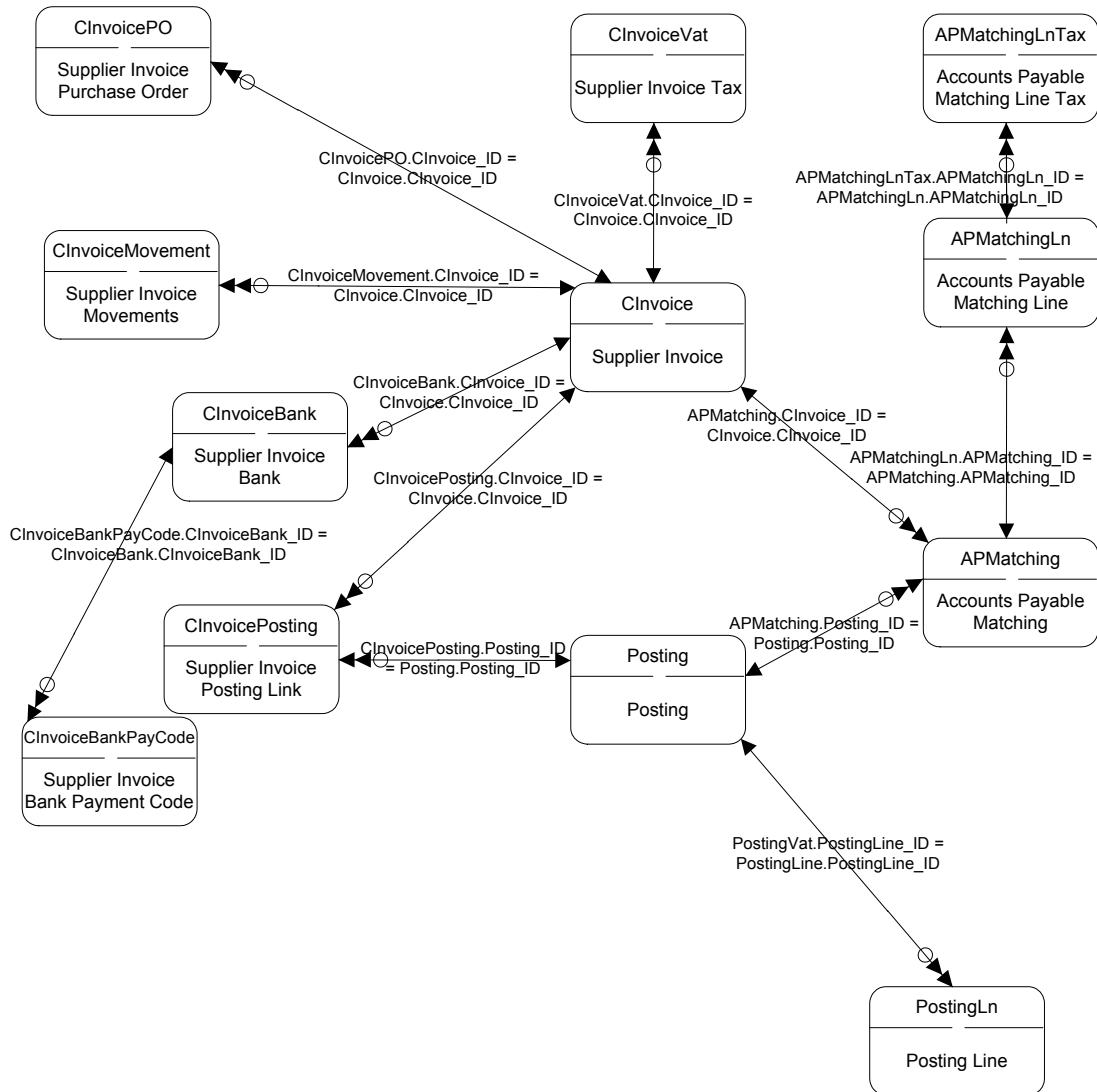
APMatchingLnTax holds references to the following posting lines:

- Non-recoverable tax
- Purchase price variance
- Normal tax
- Retained tax

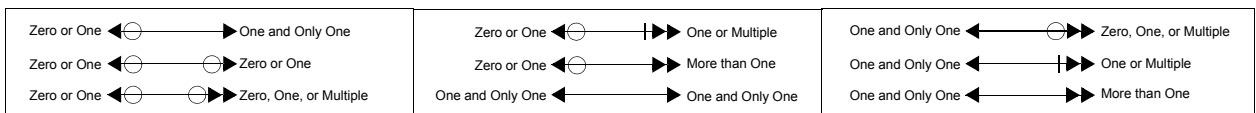
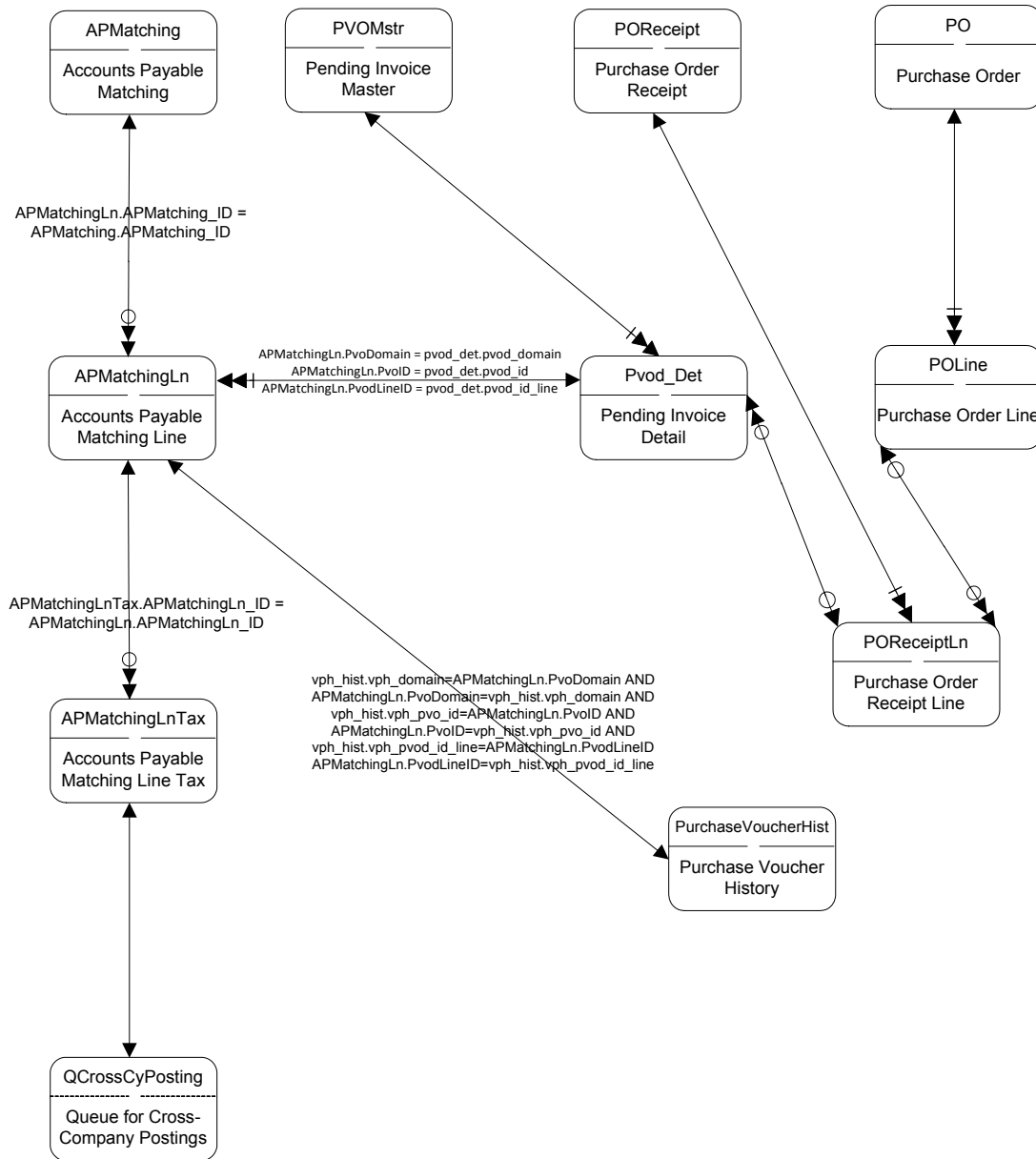
APMatchingLnRevTax holds a single reference for every posting line that reverses the tax impact of the matched pending voucher.



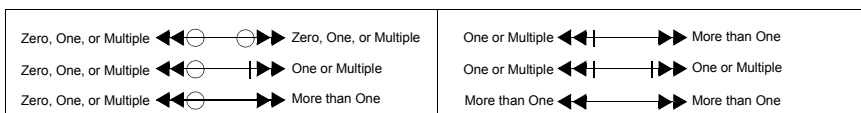
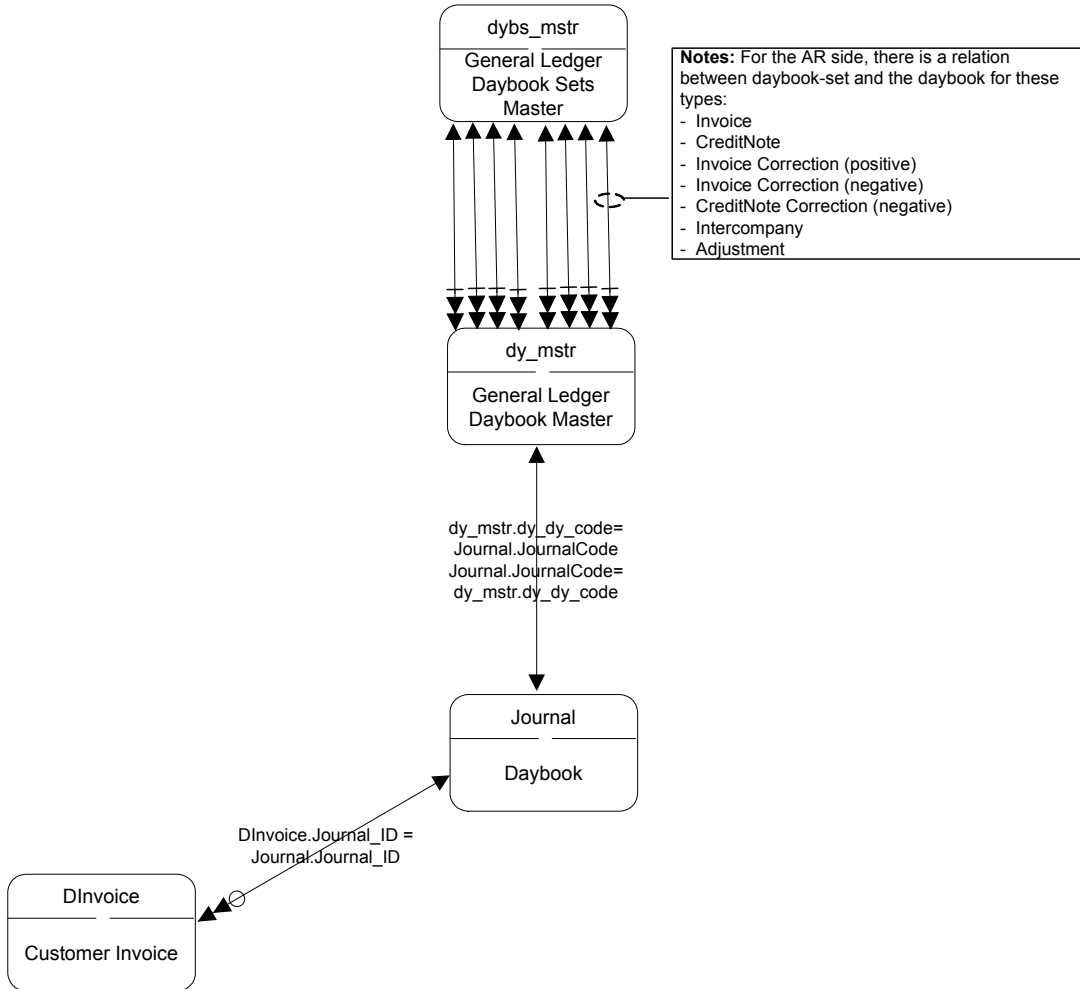
# Accounts Payable Matching Global I



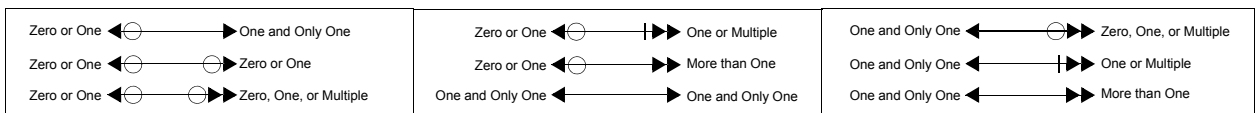
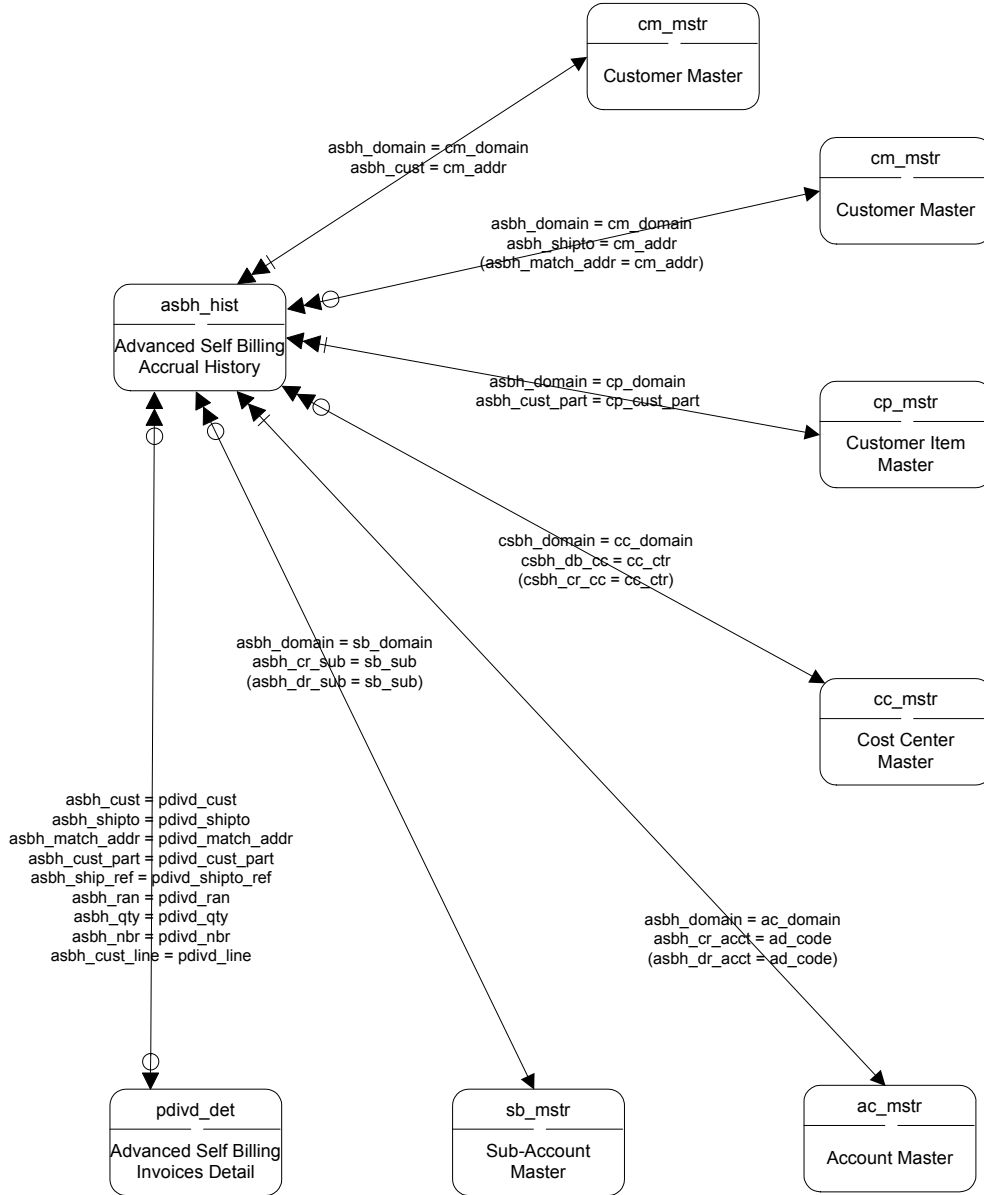
## Accounts Payable Matching Global II



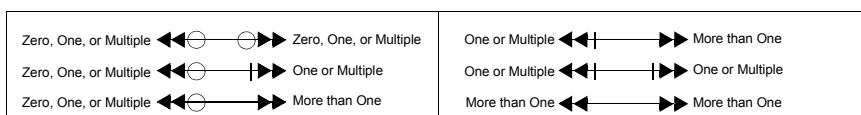
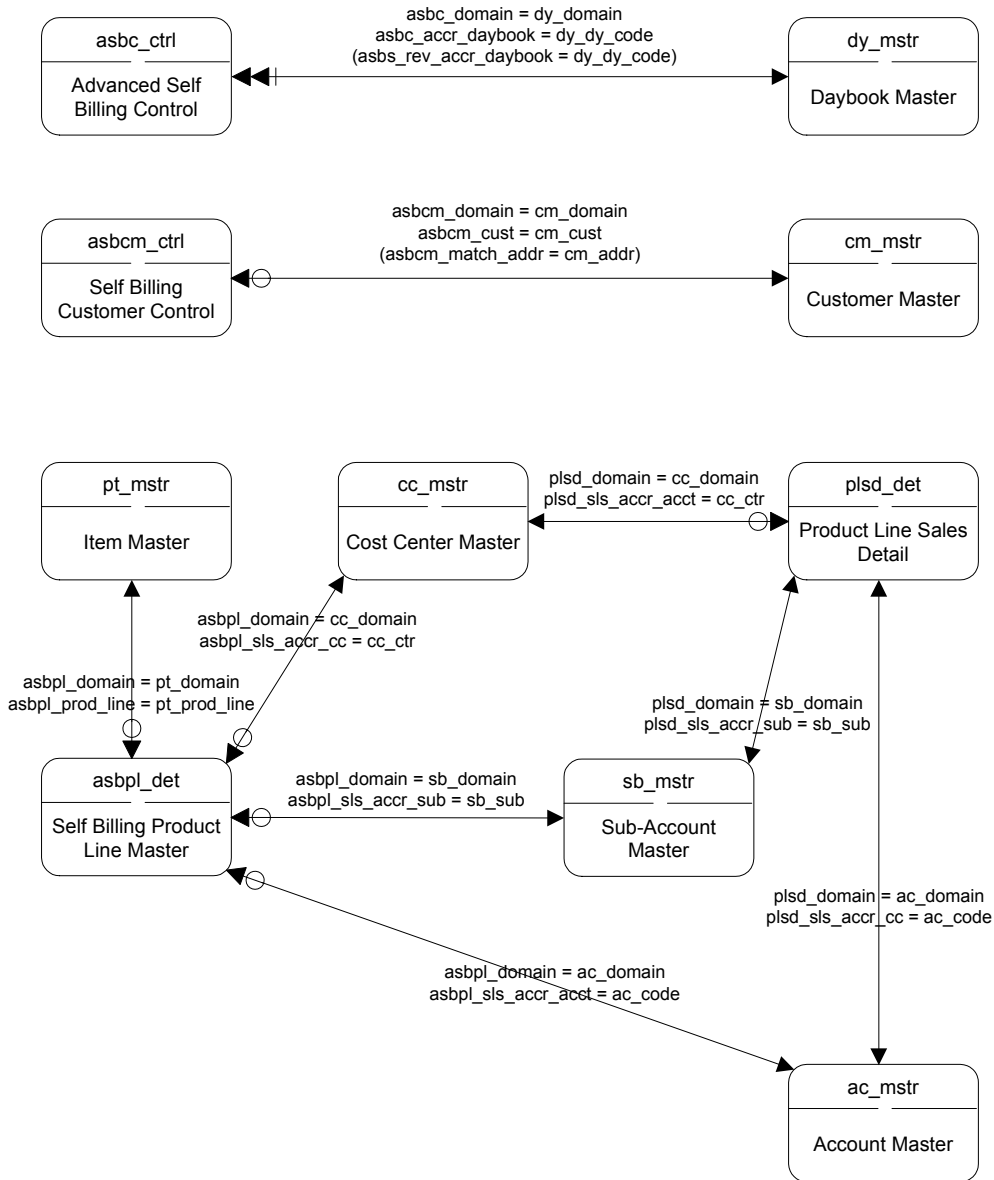
# Accounts Receivable Daybook Set



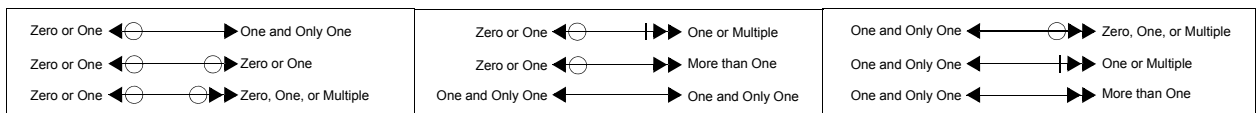
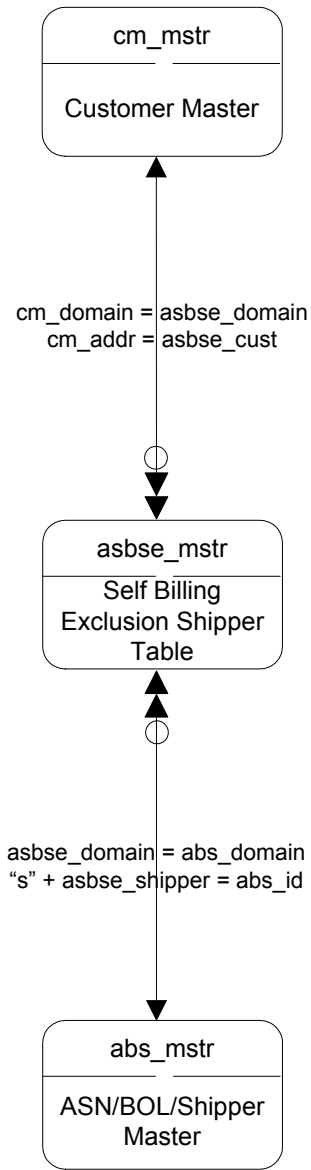
## Advanced Self Billing Accrual Historic Information



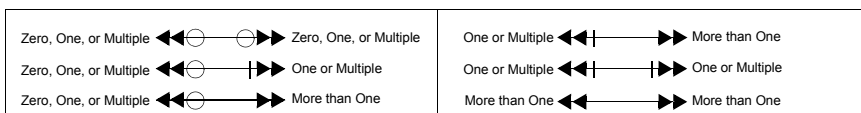
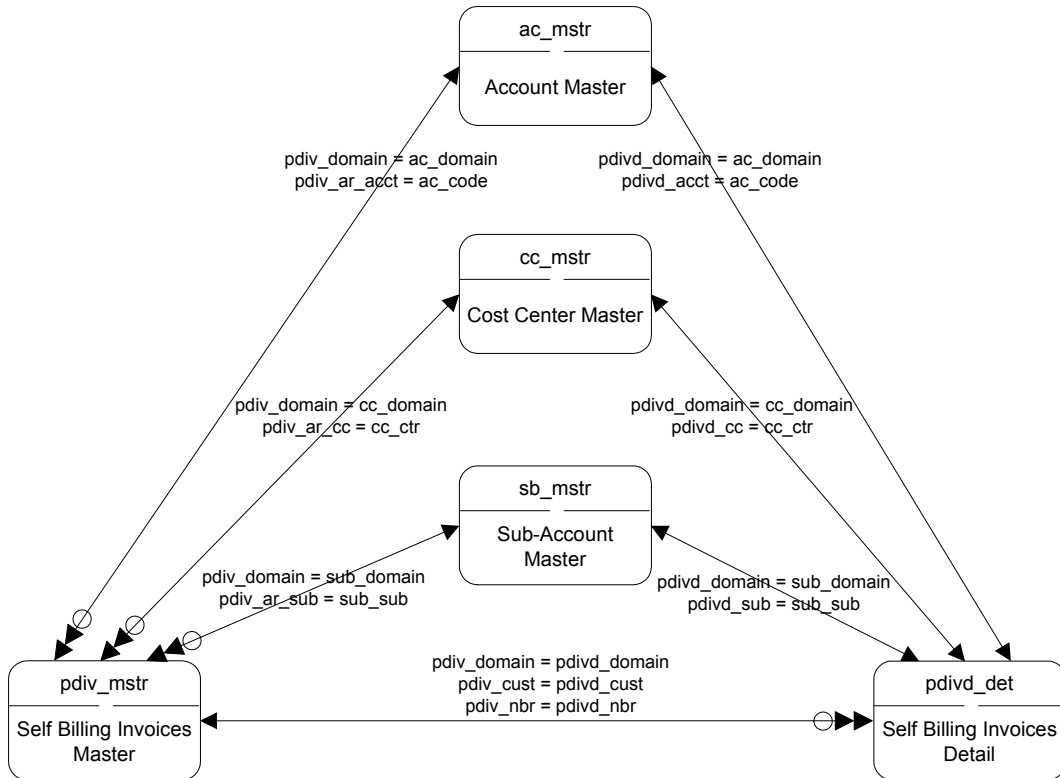
## Advanced Self Billing Control



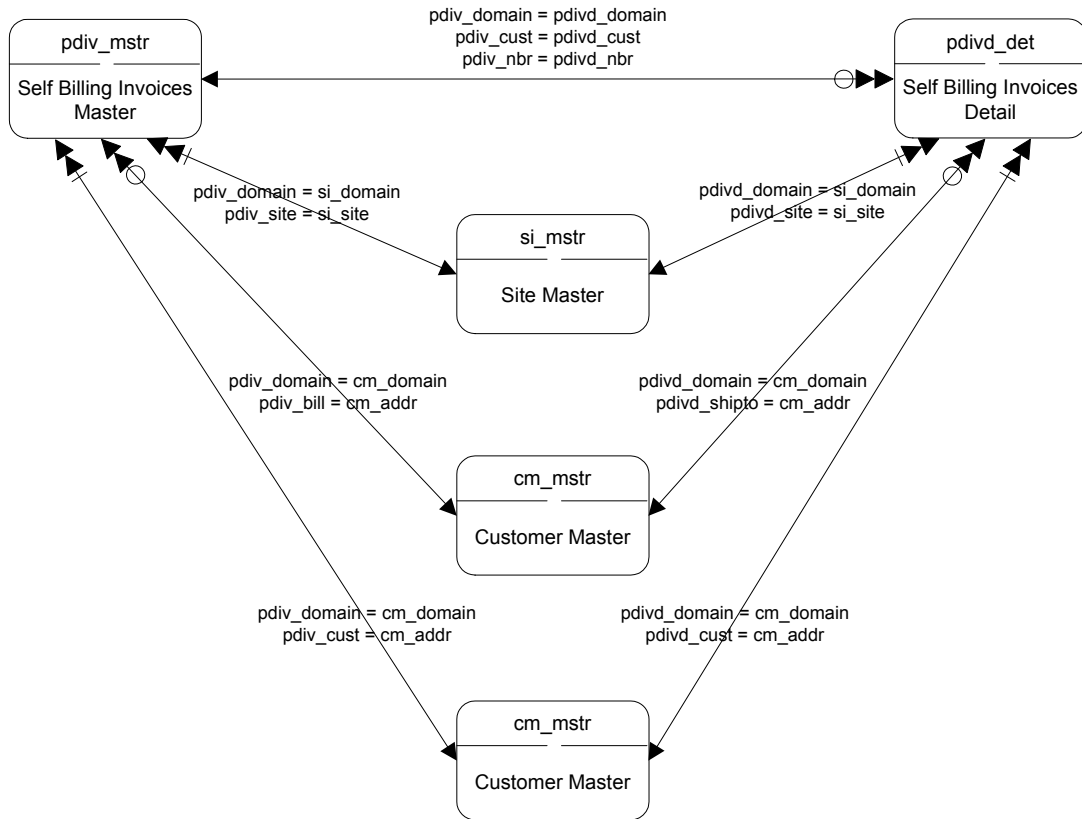
## Advanced Self Billing Exclusion Shipper



# Advanced Self Billing Invoice & Shipments I

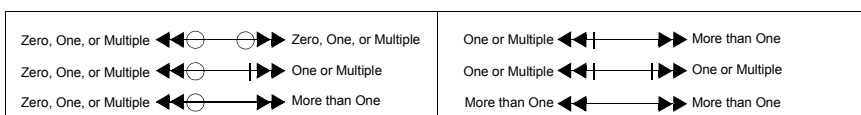
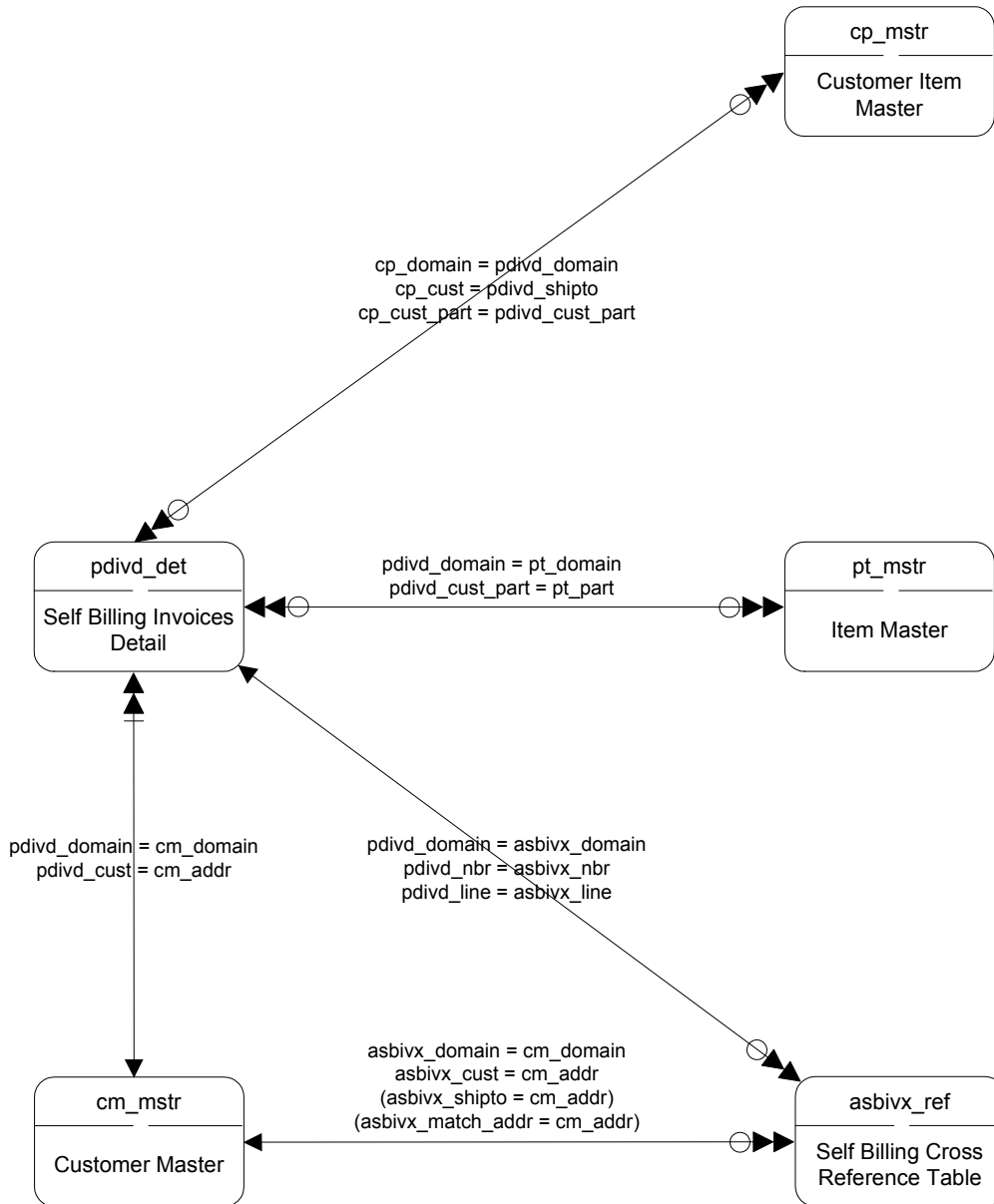


## Advanced Self Billing Invoice & Shipments II

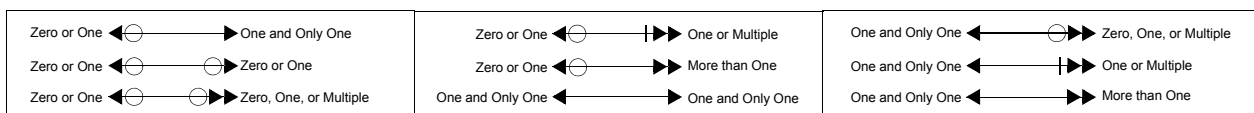
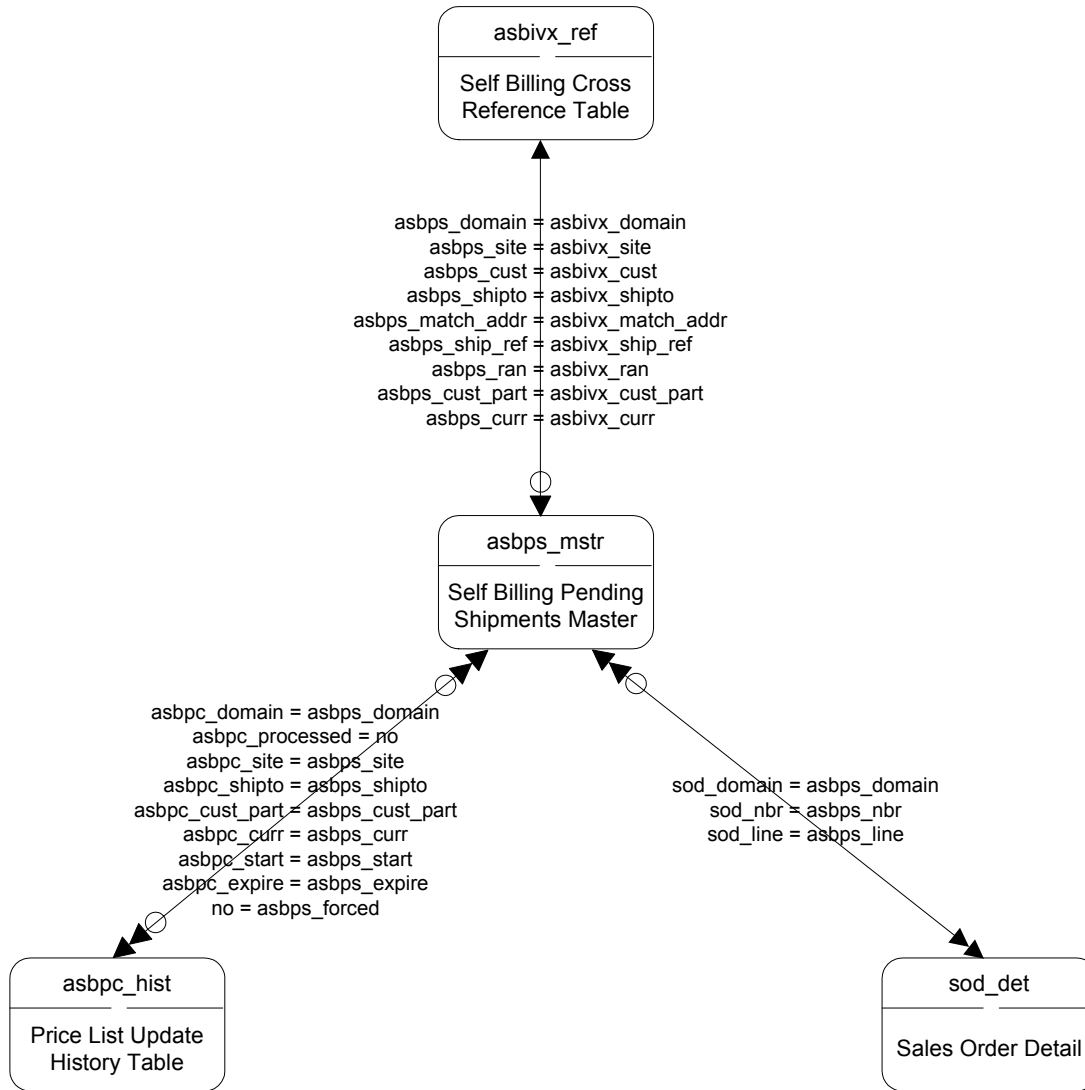


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow$ Zero or One	Zero or One $\leftarrow \ominus \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \circlearrowright$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \longrightarrow$ More than One

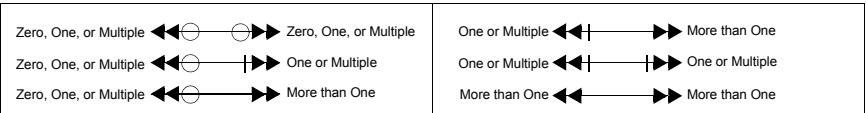
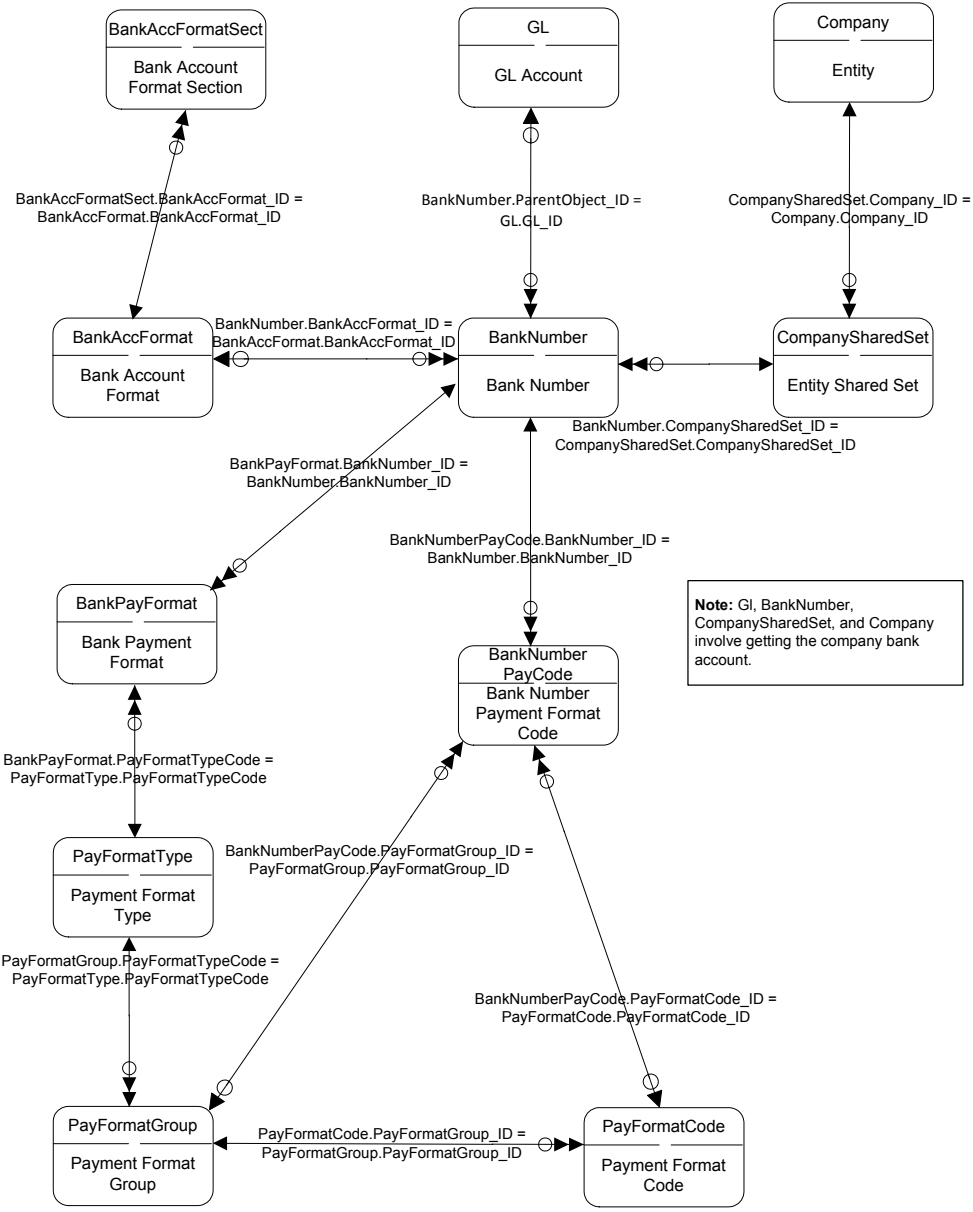
## Advanced Self Billing Invoice & Shipments III



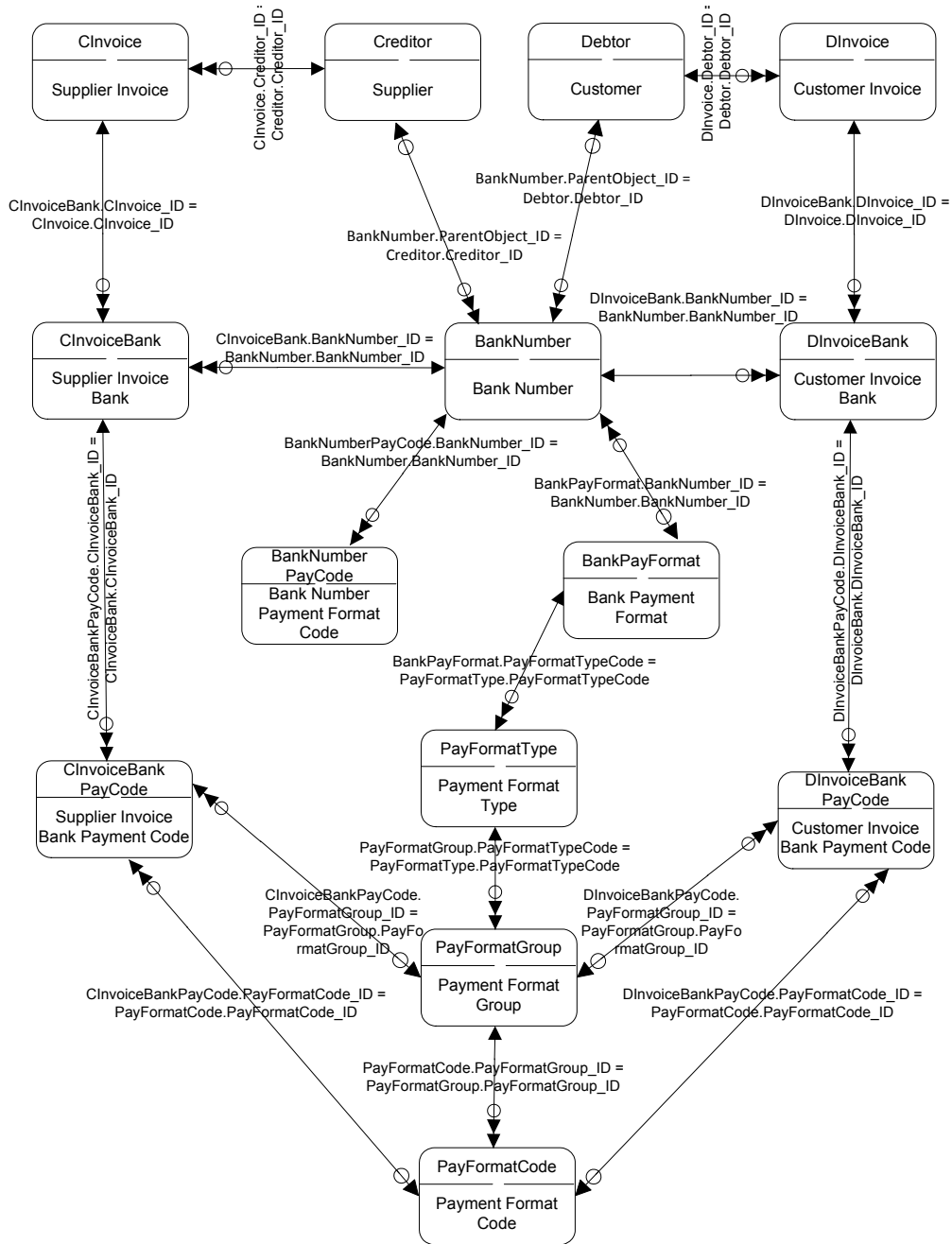
## Advanced Self Billing Invoice & Shipments IV



# Bank Accounts

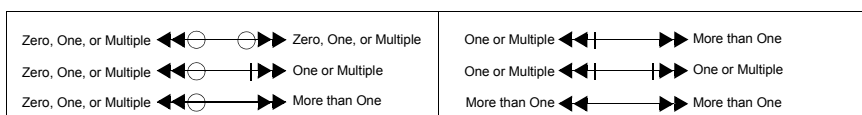
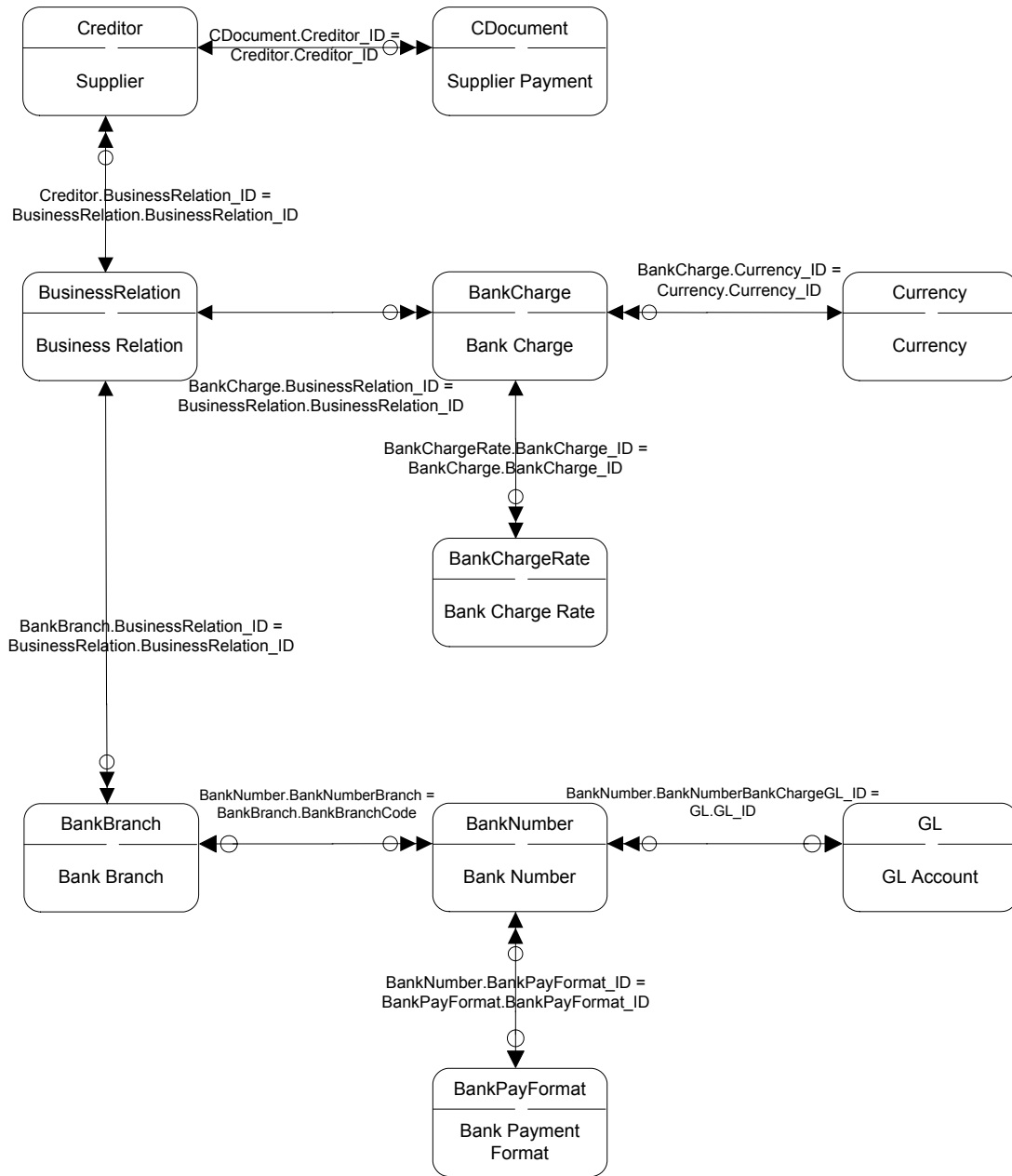


## Bank Accounts, Suppliers, Customers

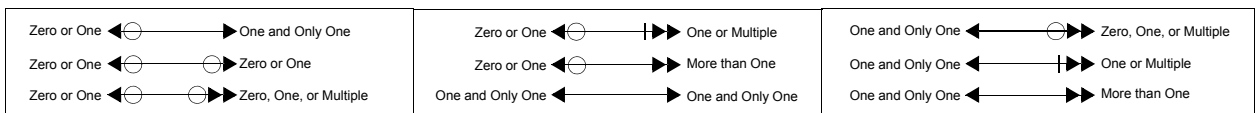
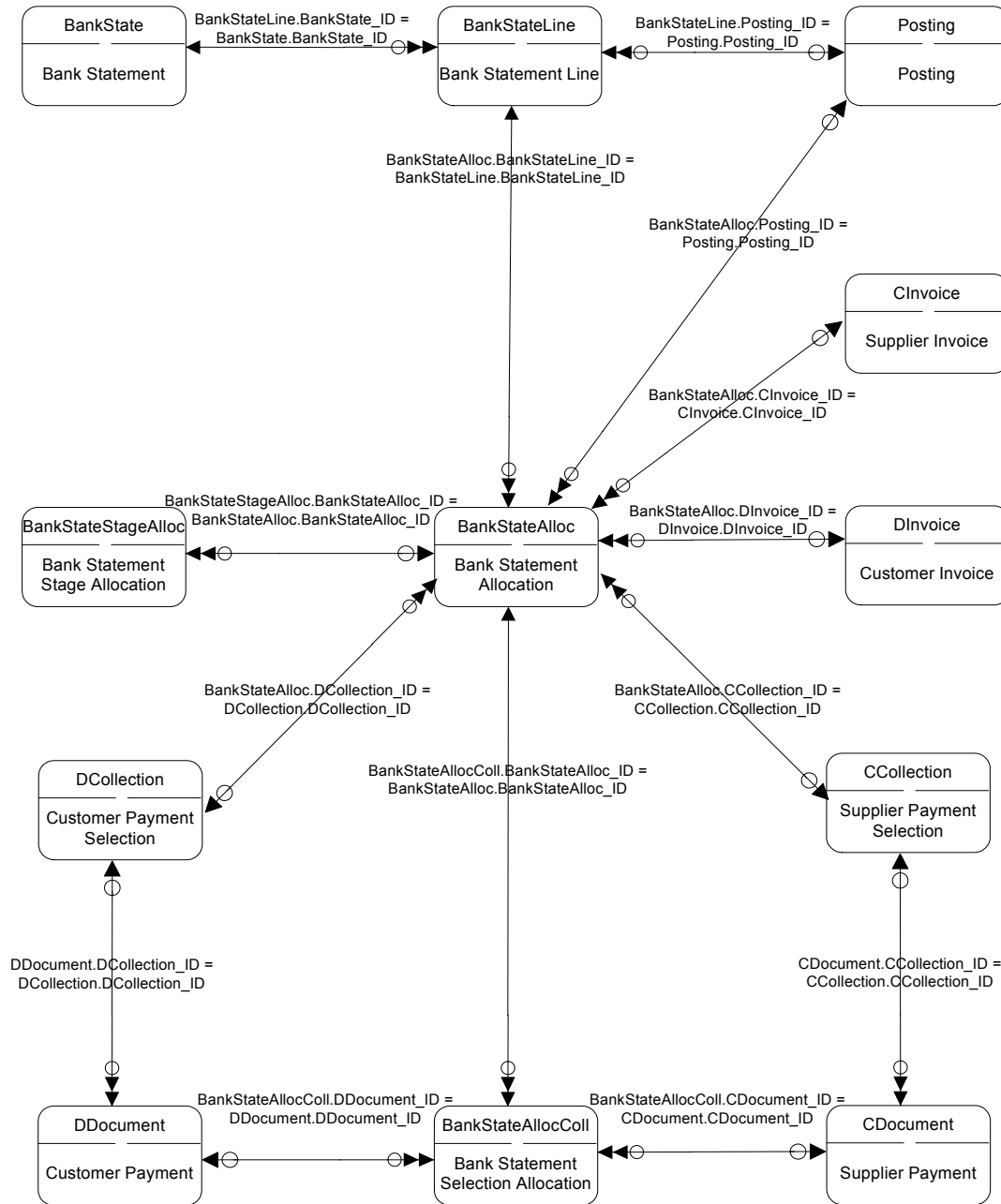


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow$ Zero or One	Zero or One $\leftarrow \ominus \dashrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \circ \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashrightarrow$ More than One

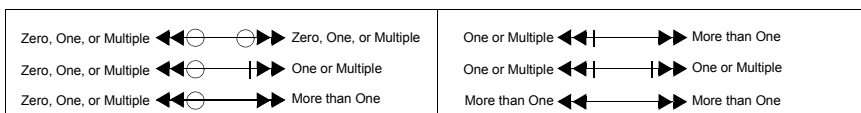
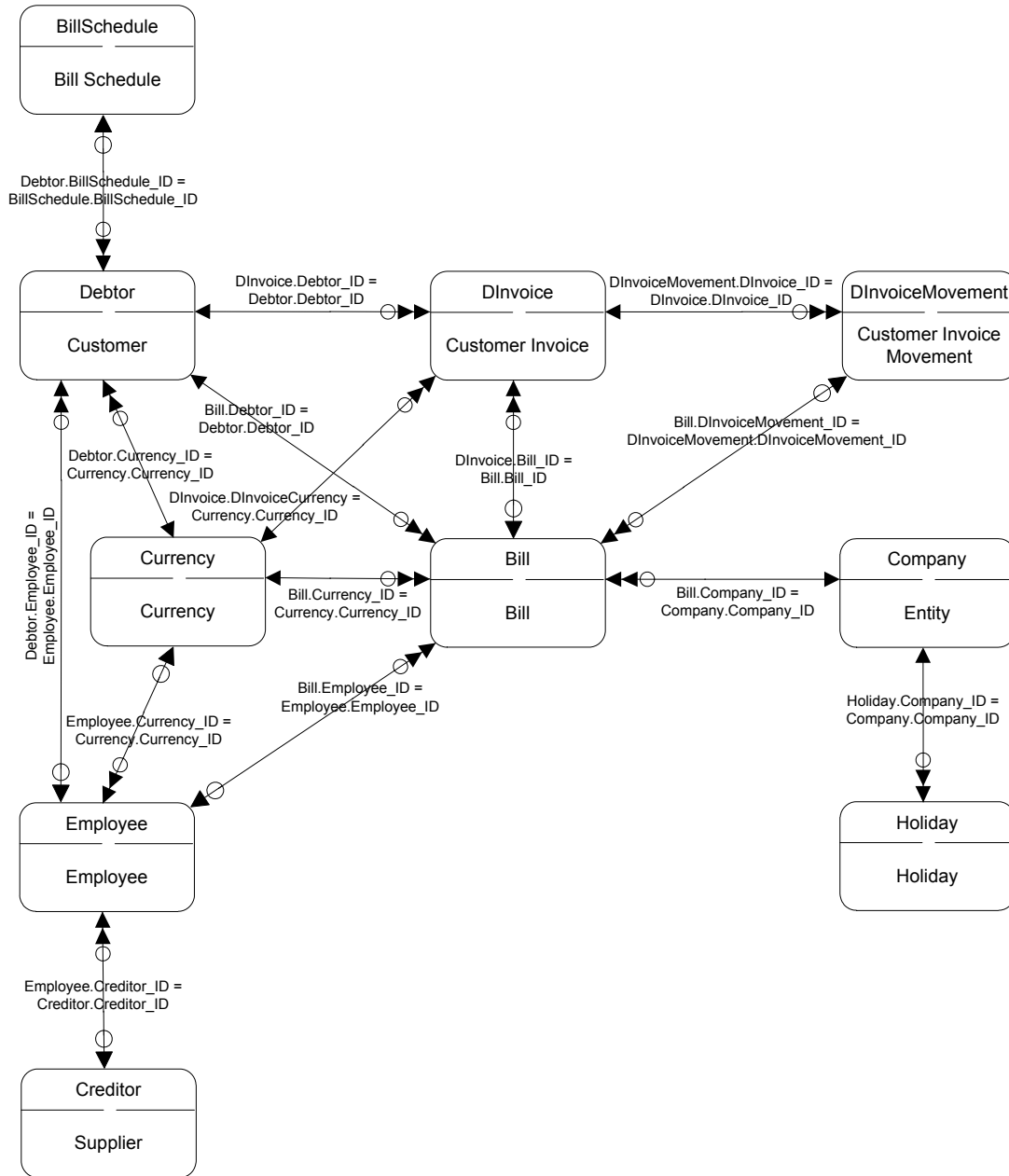
# Bank Charges



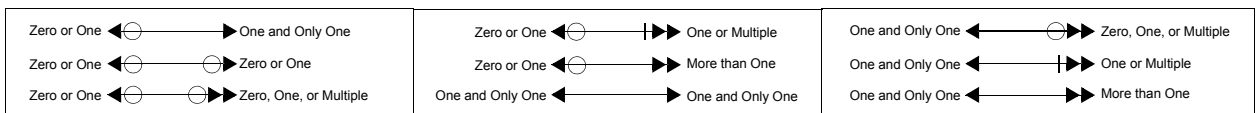
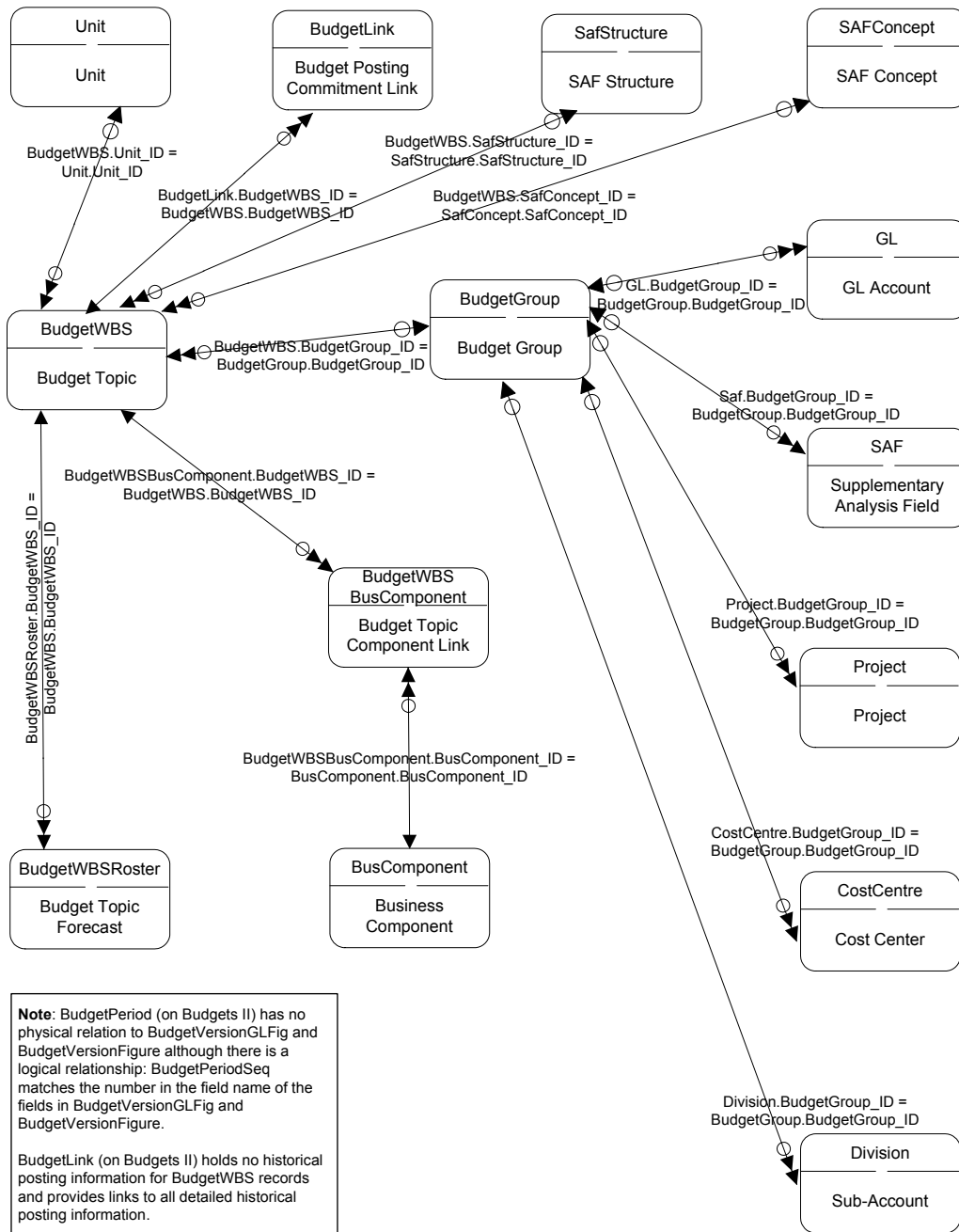
## Bank Entries



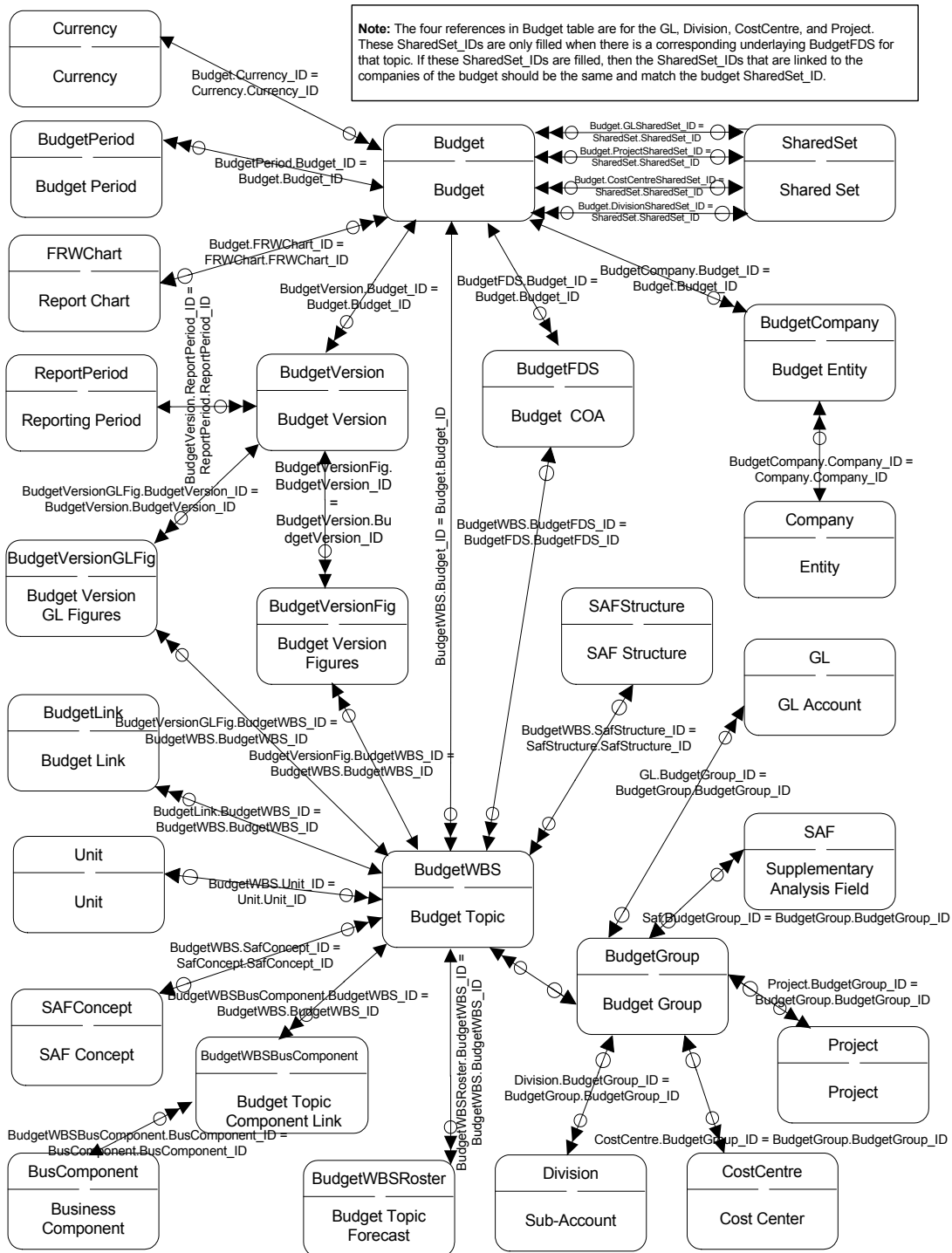
# Billing



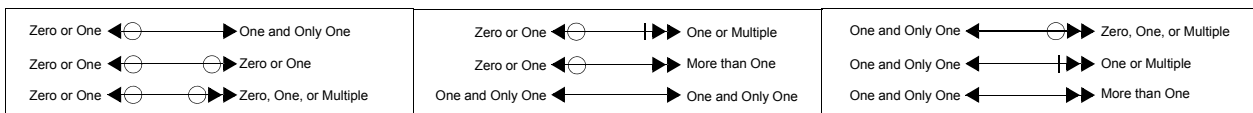
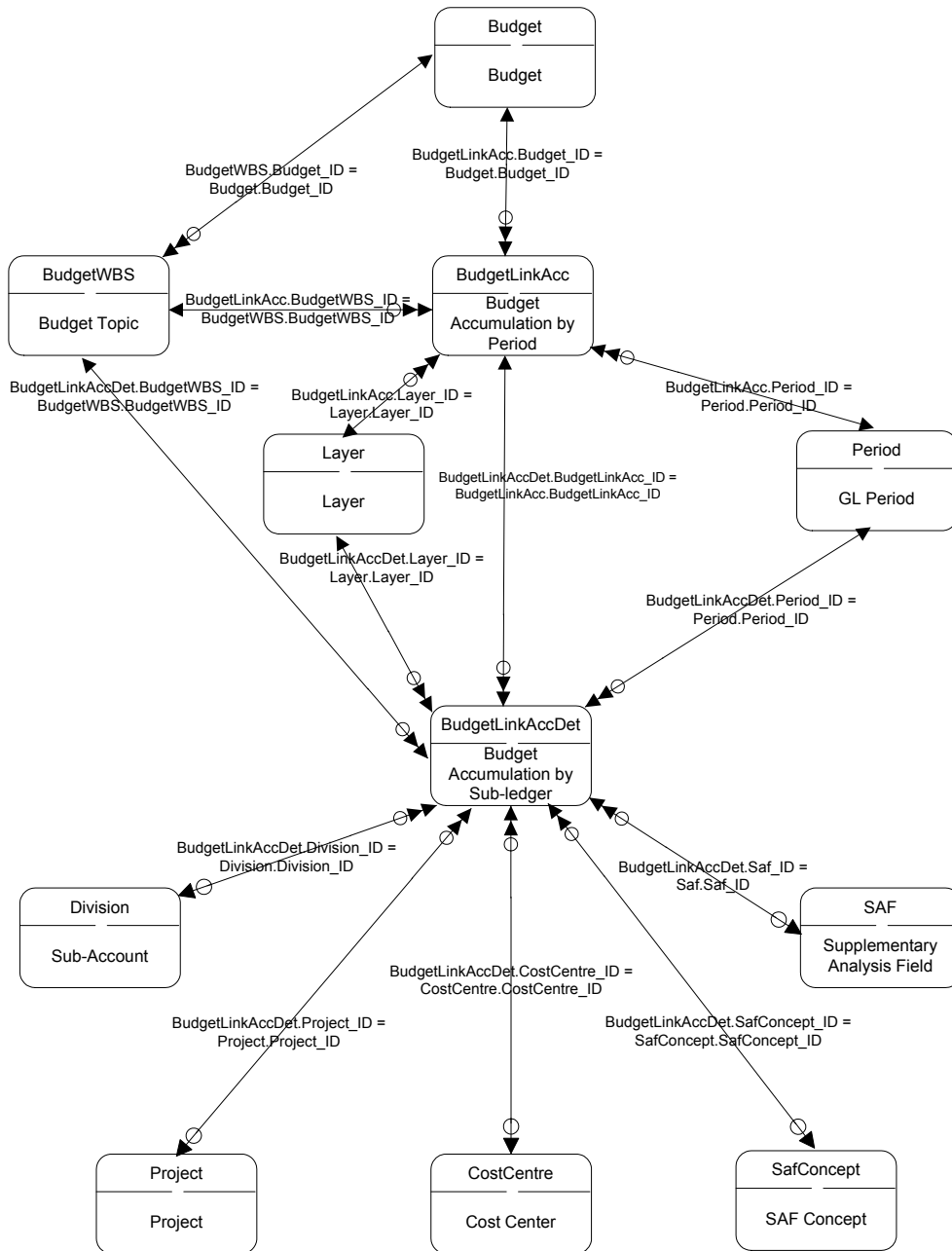
# Budgets I



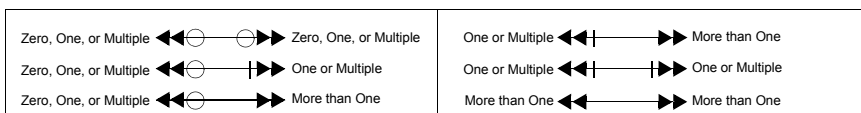
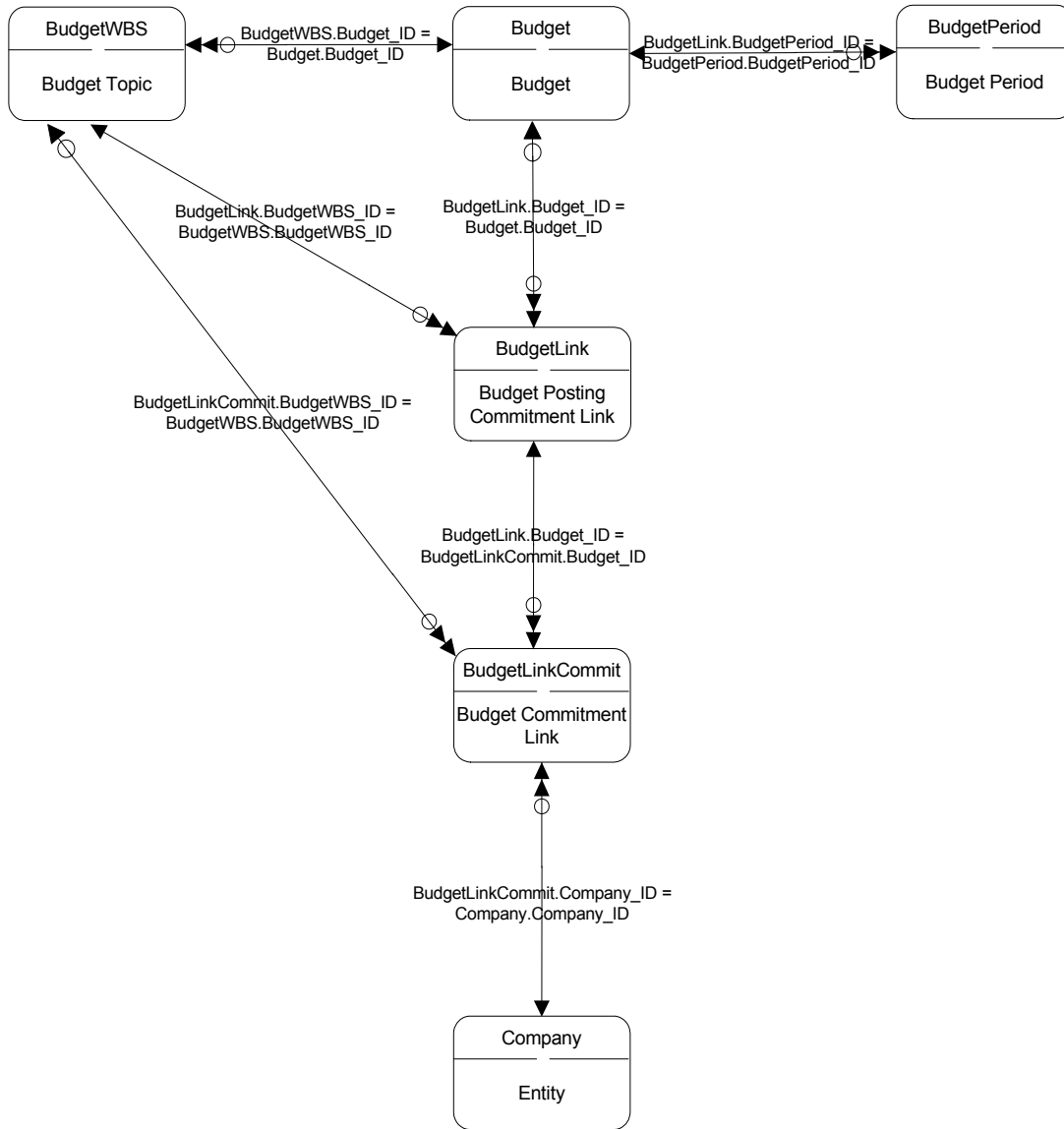
# Budgets II



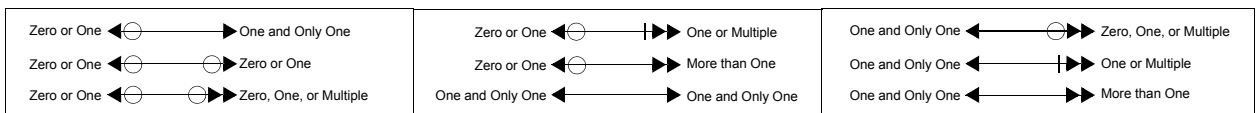
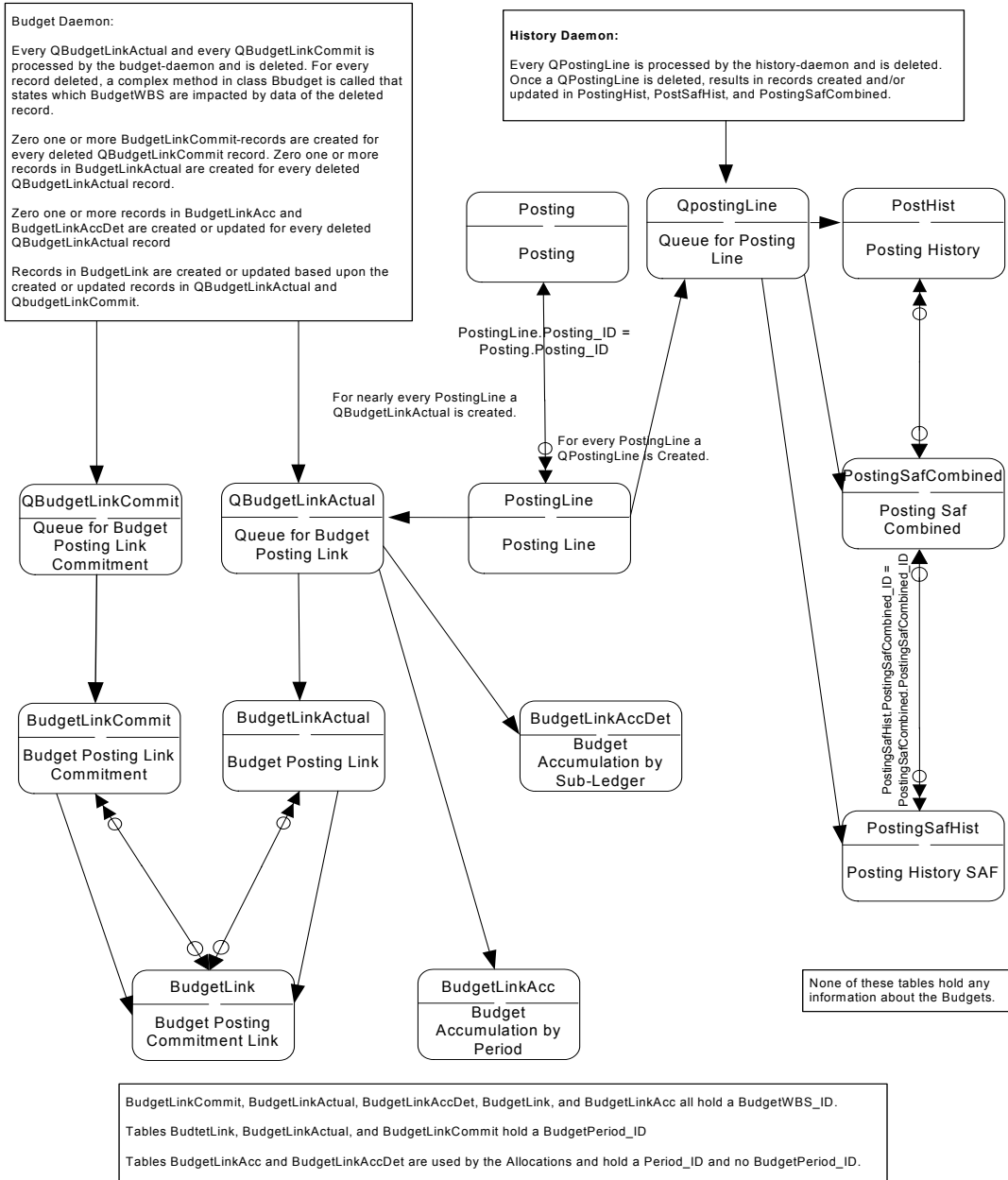
## Budget Allocations



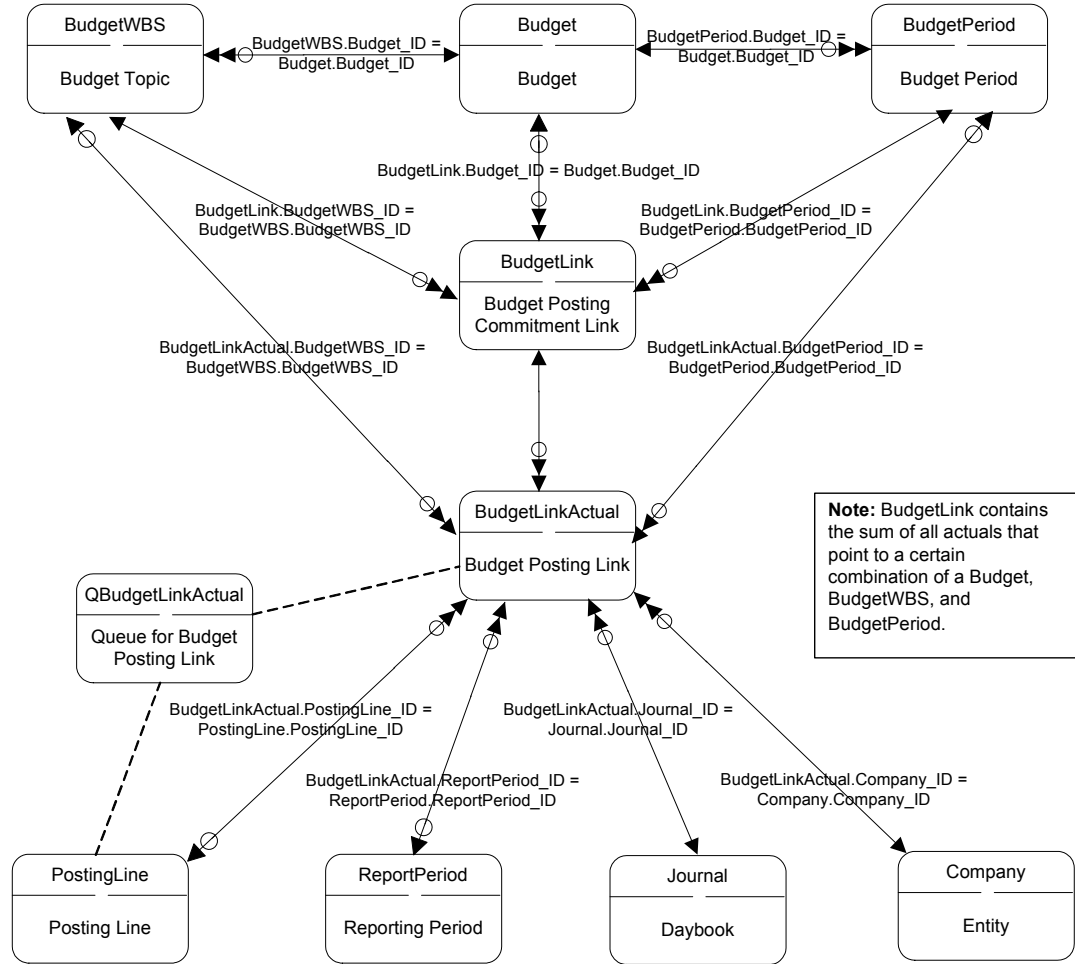
# Budget Commitments



# Budget Flow



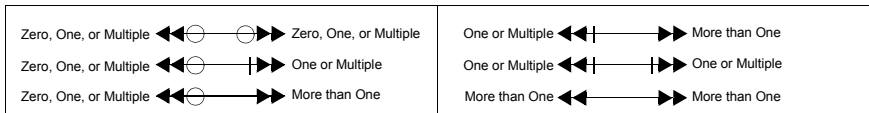
# Budget History



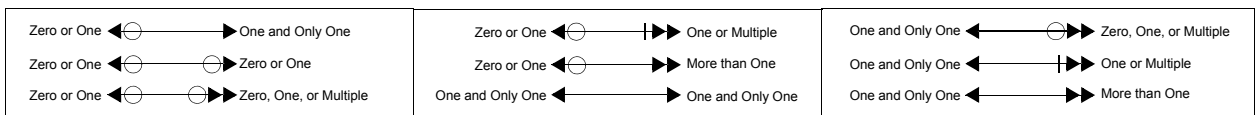
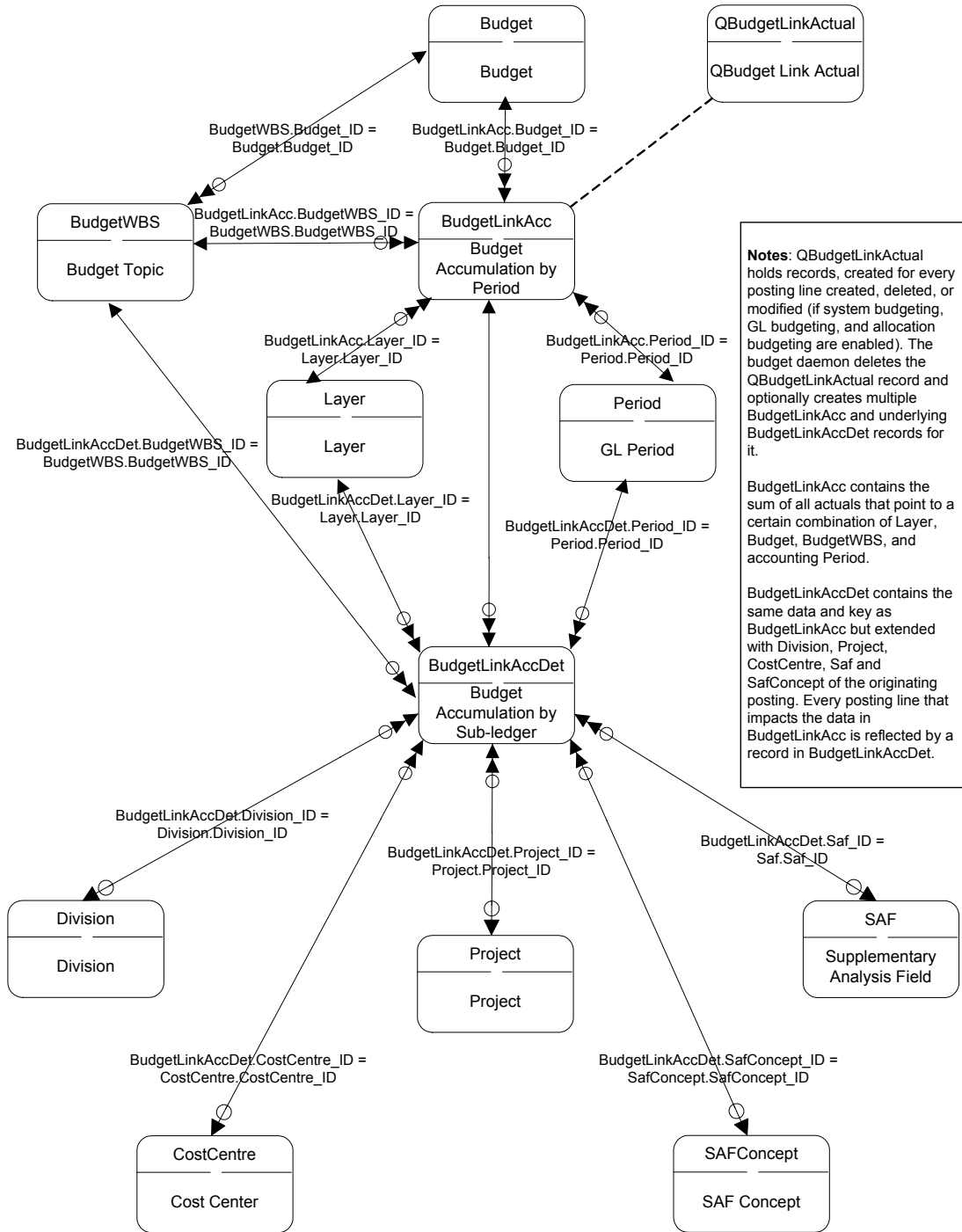
**Note:** BudgetLink contains the sum of all actuals that point to a certain combination of a Budget, BudgetWBS, and BudgetPeriod.

**Note:** Table QBudgetLinkActual is a table that holds records that are created for every posting line that is created, deleted, or modified (if the budgeting has been turned on for the system and the GL is enabled for budgeting). The budget daemon will delete the QBudgetLinkActual record and will optionally create multiple BudgetLinkActual records for it.

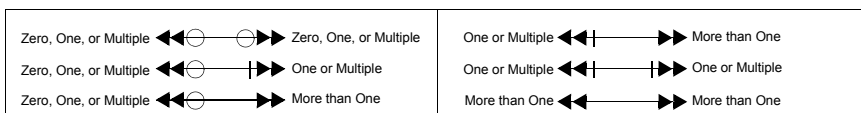
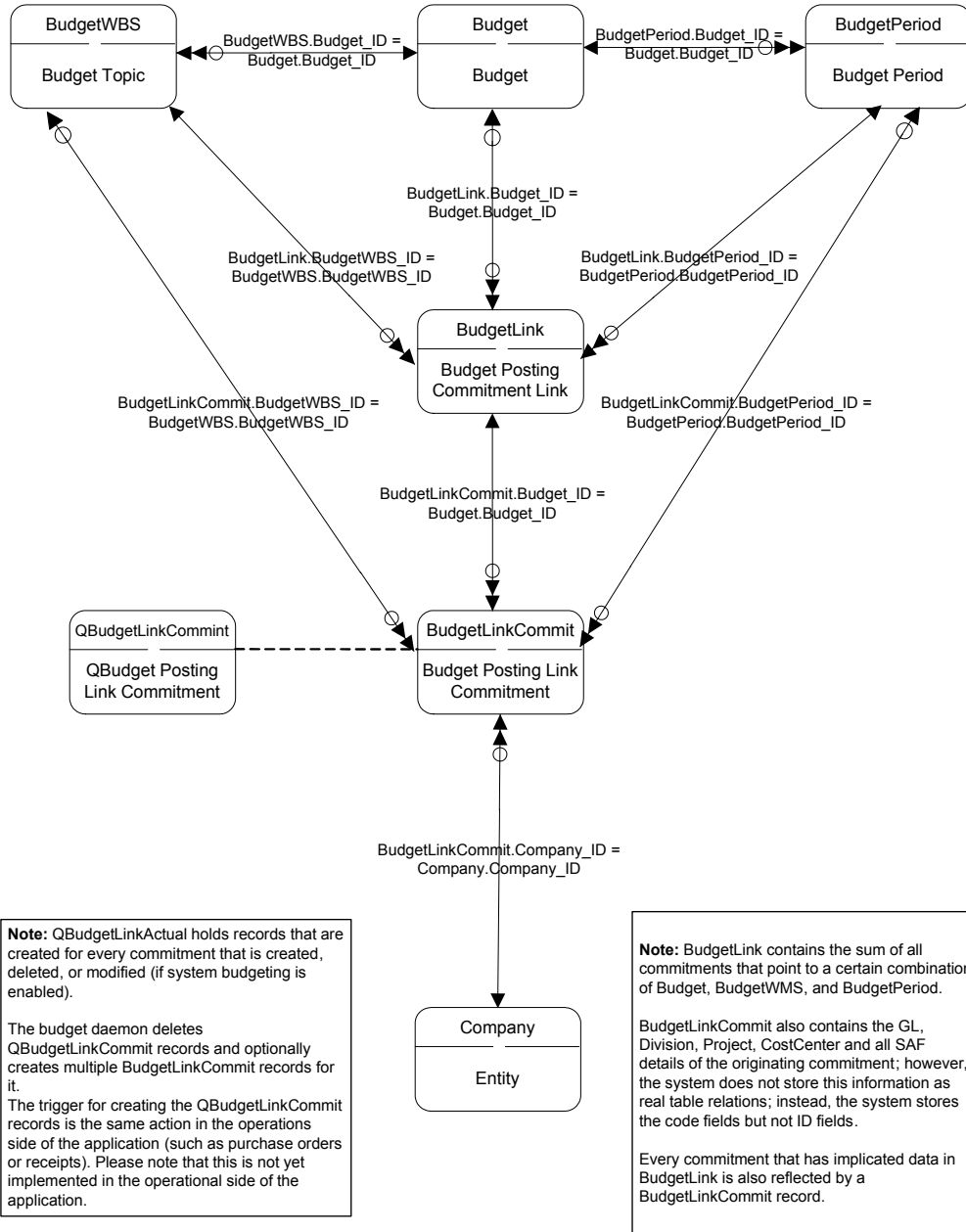
**Note:** BudgetLinkActual also contains the GL, Division, Project, CostCentre, and all SAF details of the original posting, but this information is not stored as real table relations. This information is kept by storing the code-fields and not the ID fields. Every posting line that had impacted the data in BudgetLink will also be reflected by a record in BudgetLinkActual.



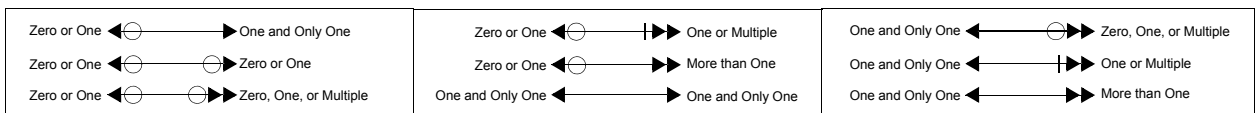
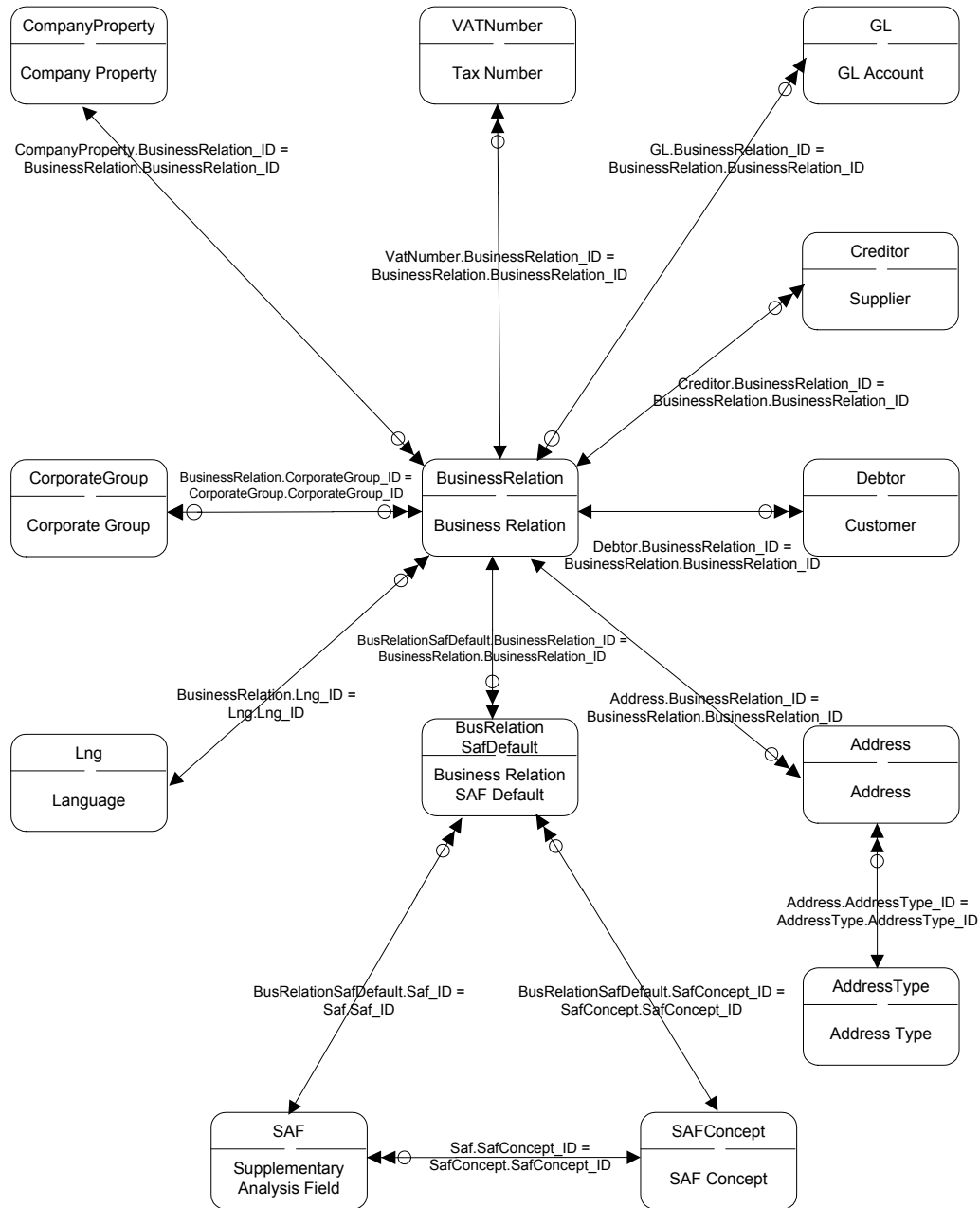
# Budget History Allocations



# Budget History Commitment

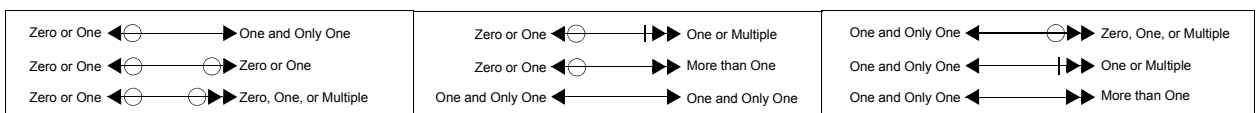
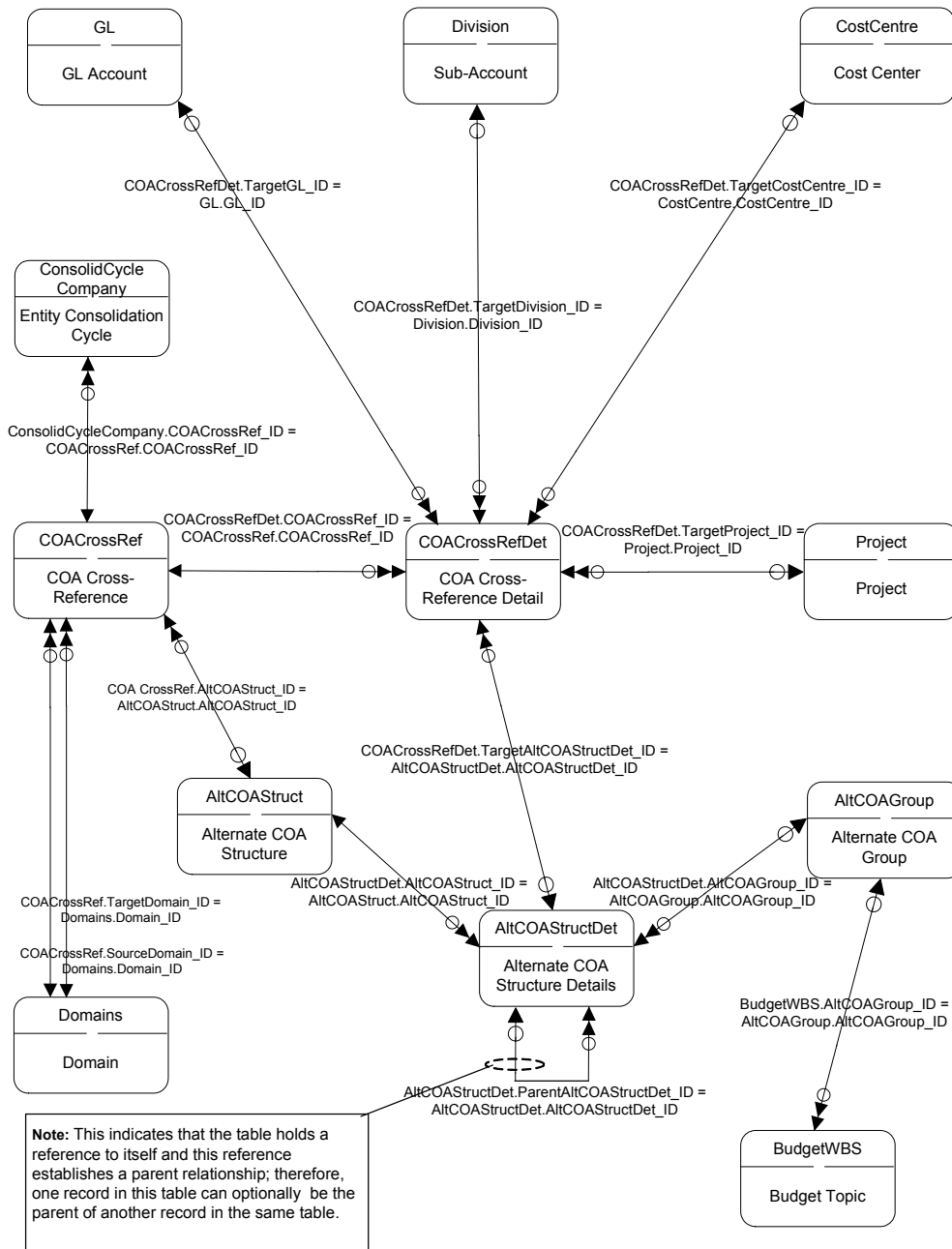


# Business Relations I

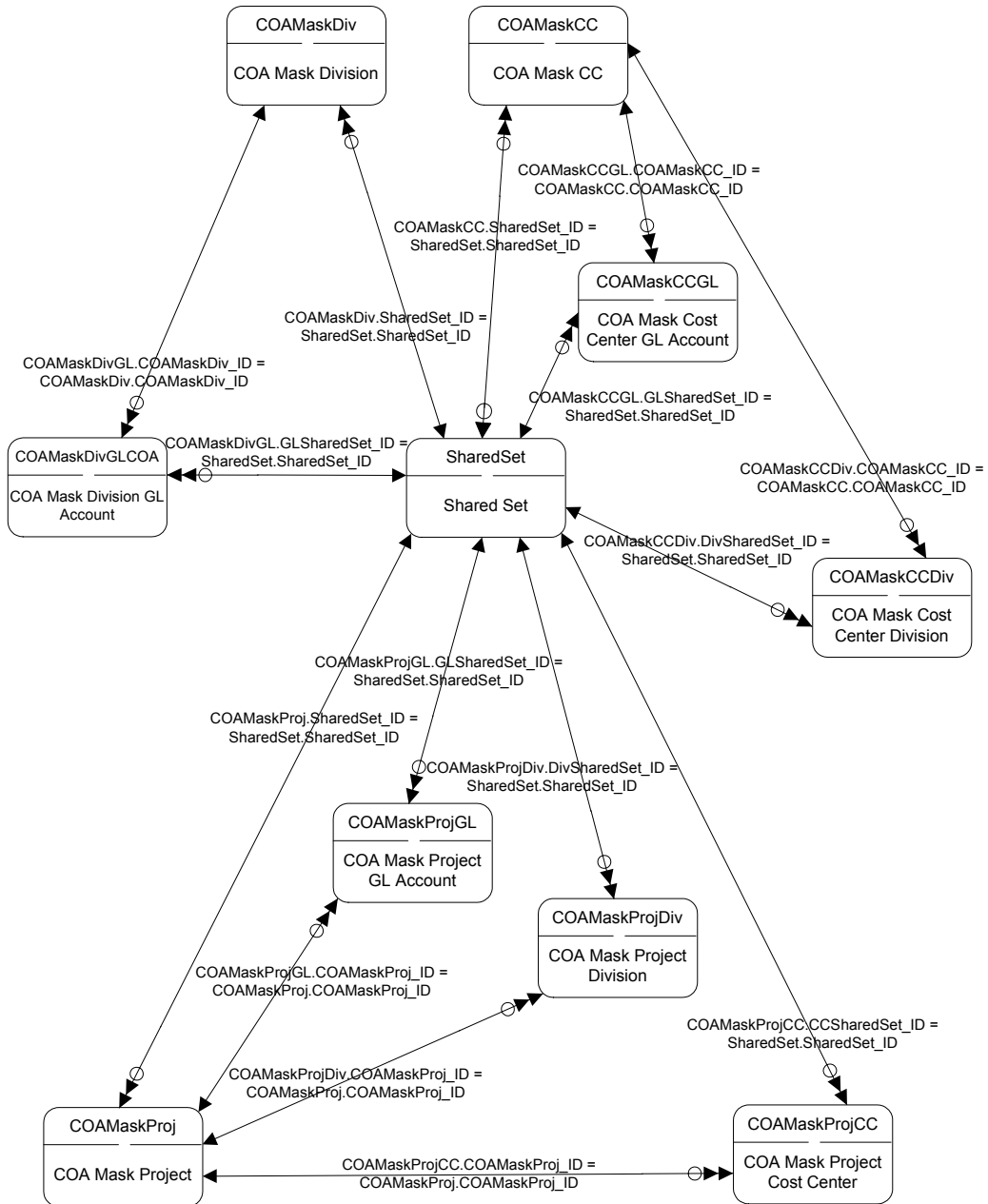




## COA Cross-Reference

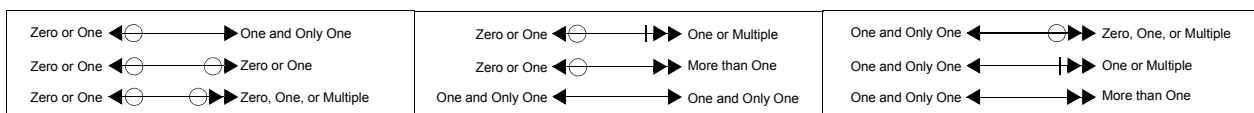
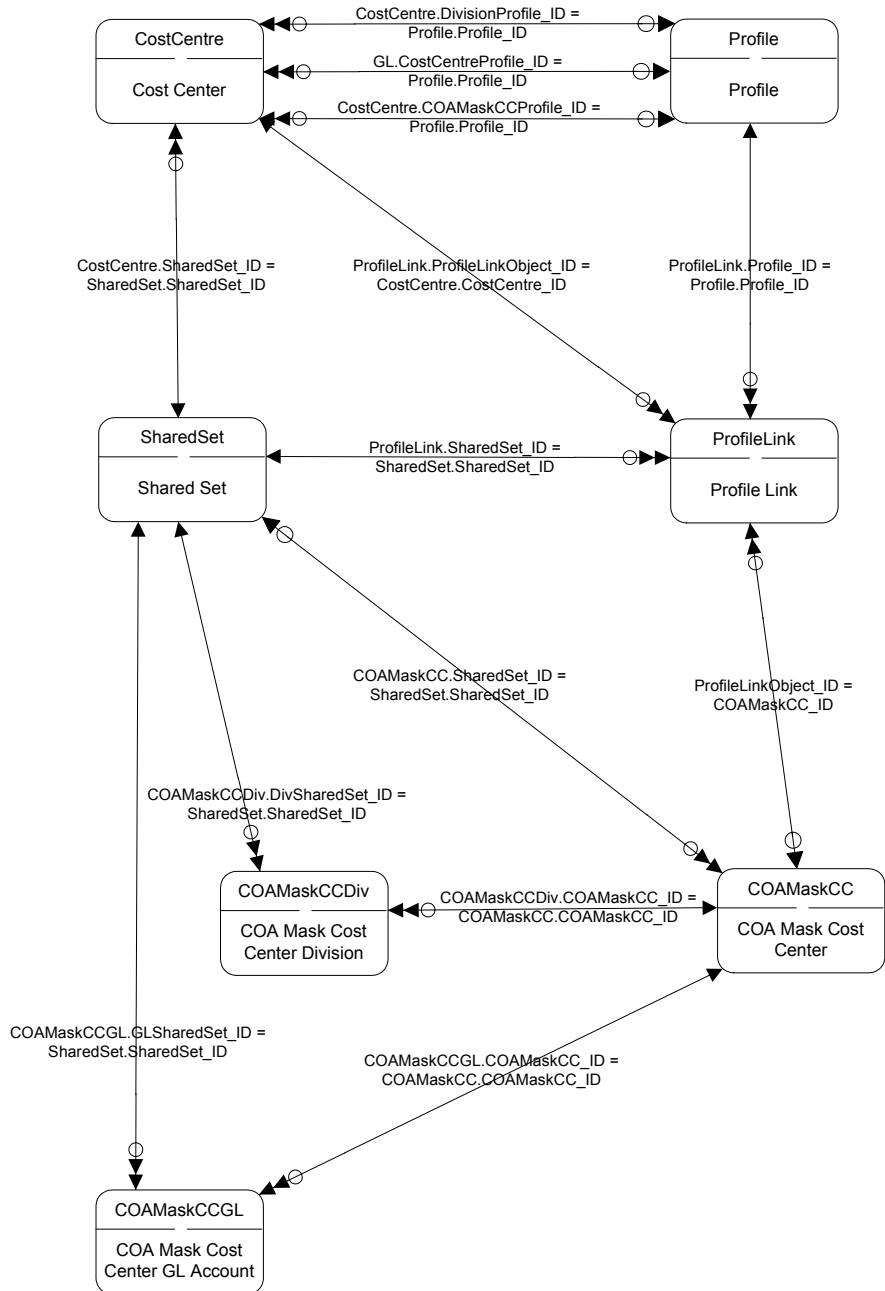


# COA Mask

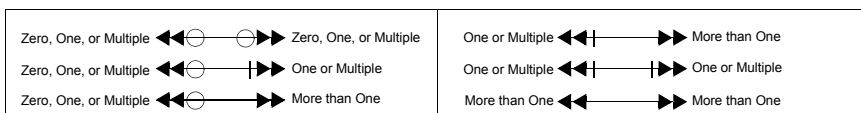
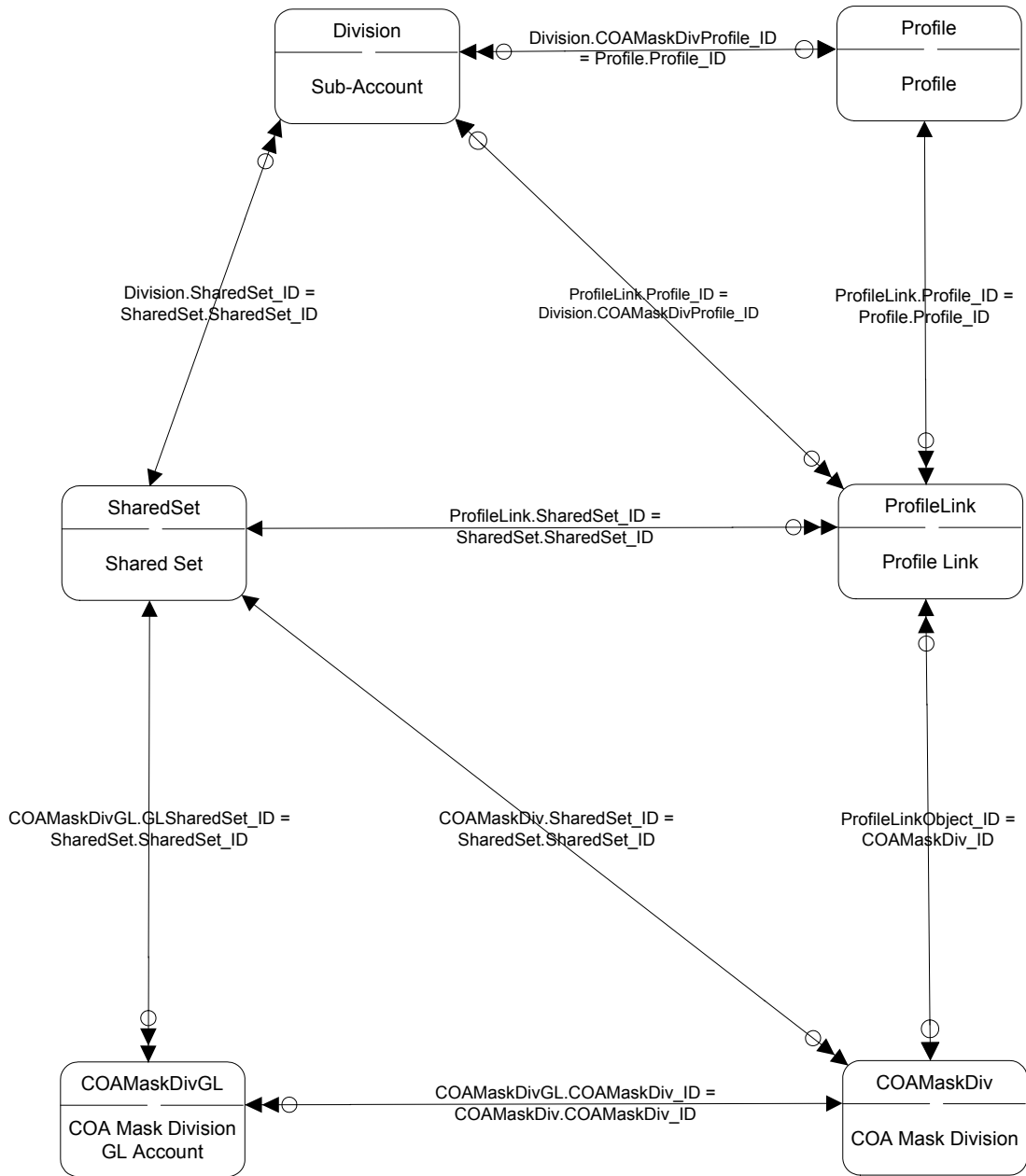


Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple	One or Multiple	◀◀	▶▶	More than One
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple	One or Multiple	◀◀	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One	More than One	◀◀	▶▶	More than One

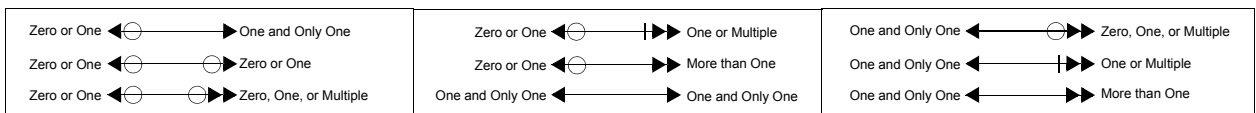
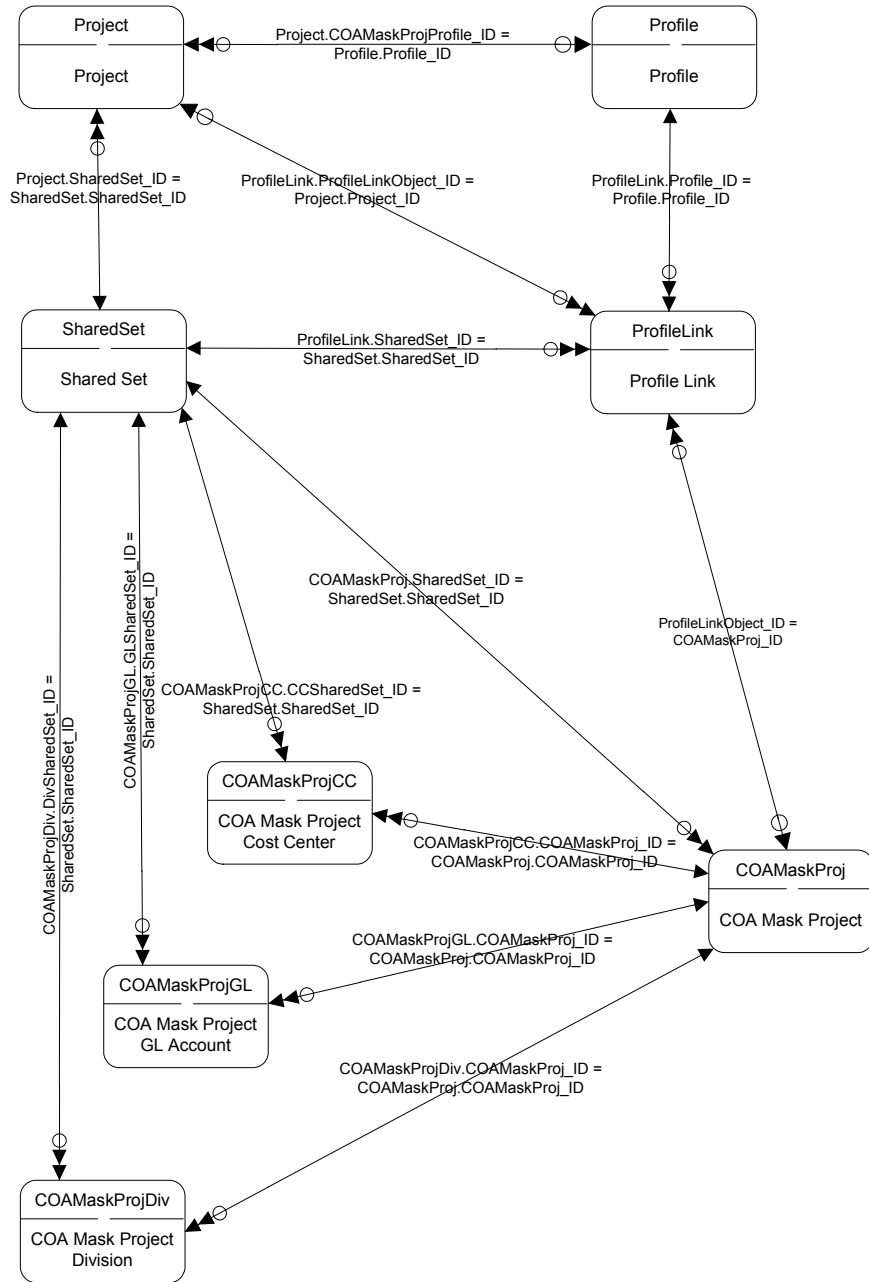
## COA Mask Cost Center



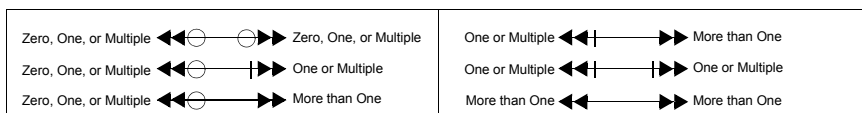
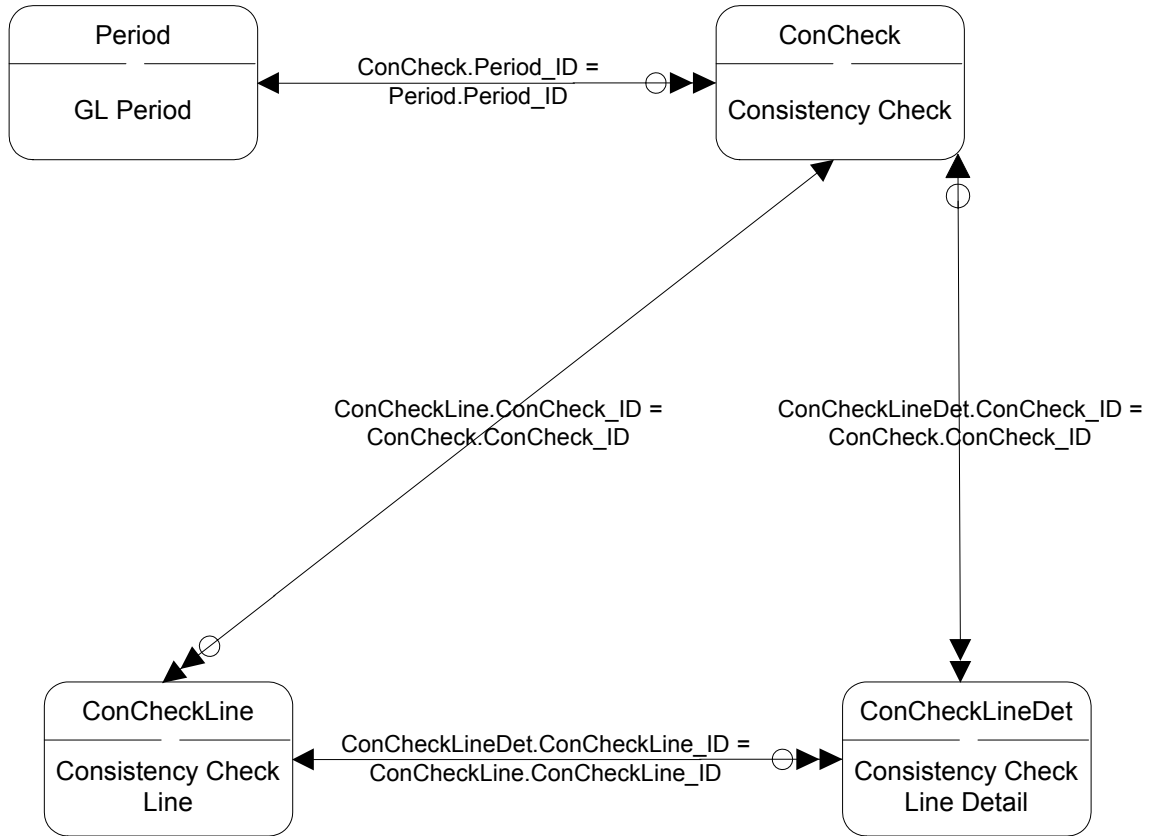
# COA Mask Division



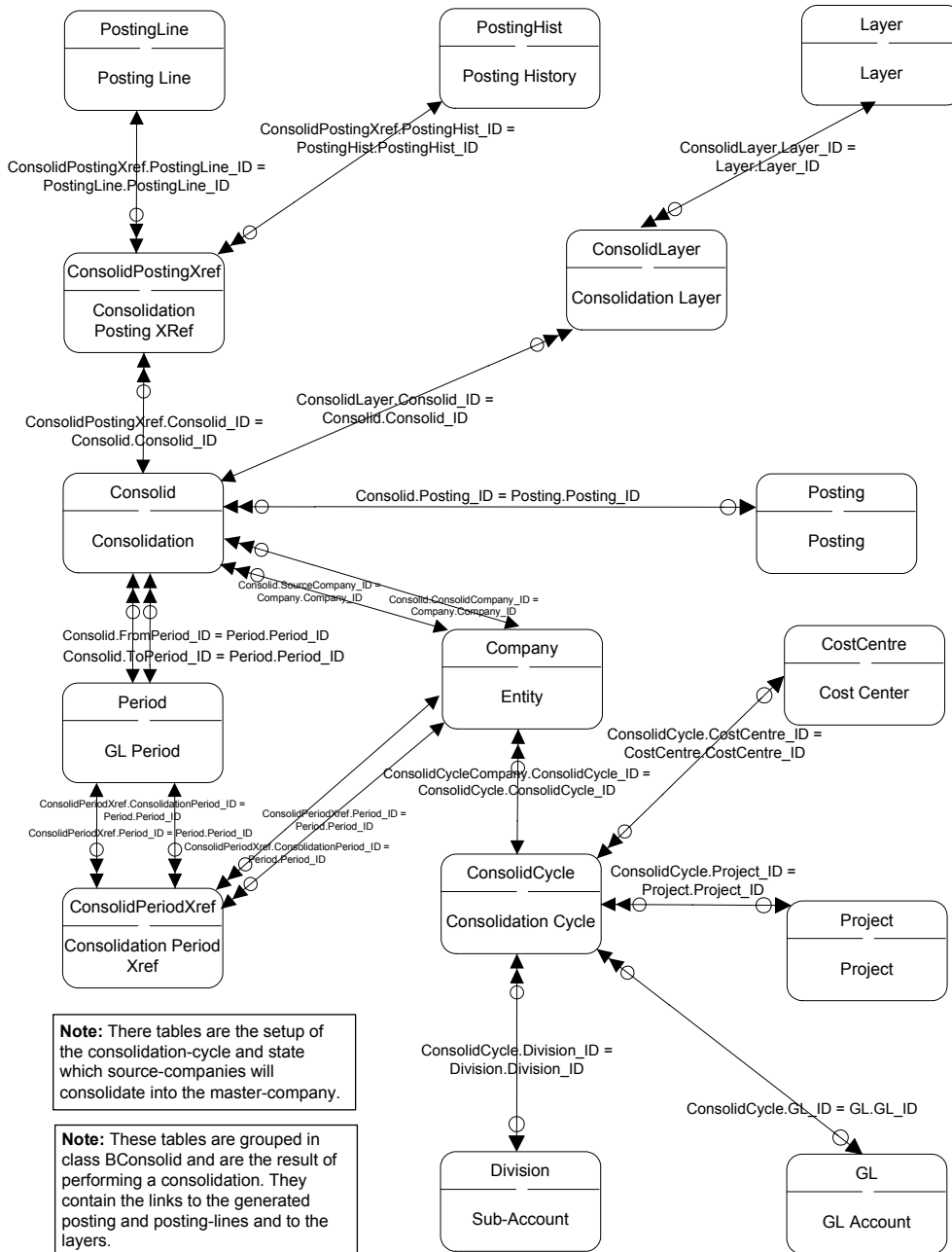
## COA Mask Project



# Consistency Check

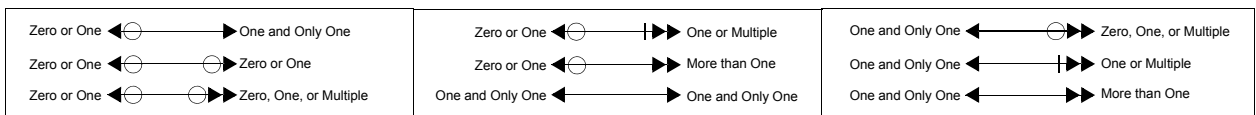


# Consolidation I

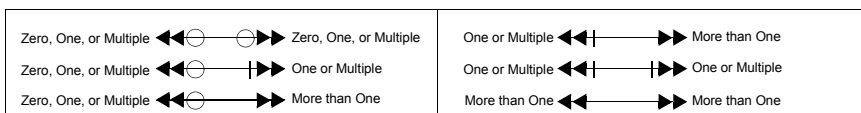
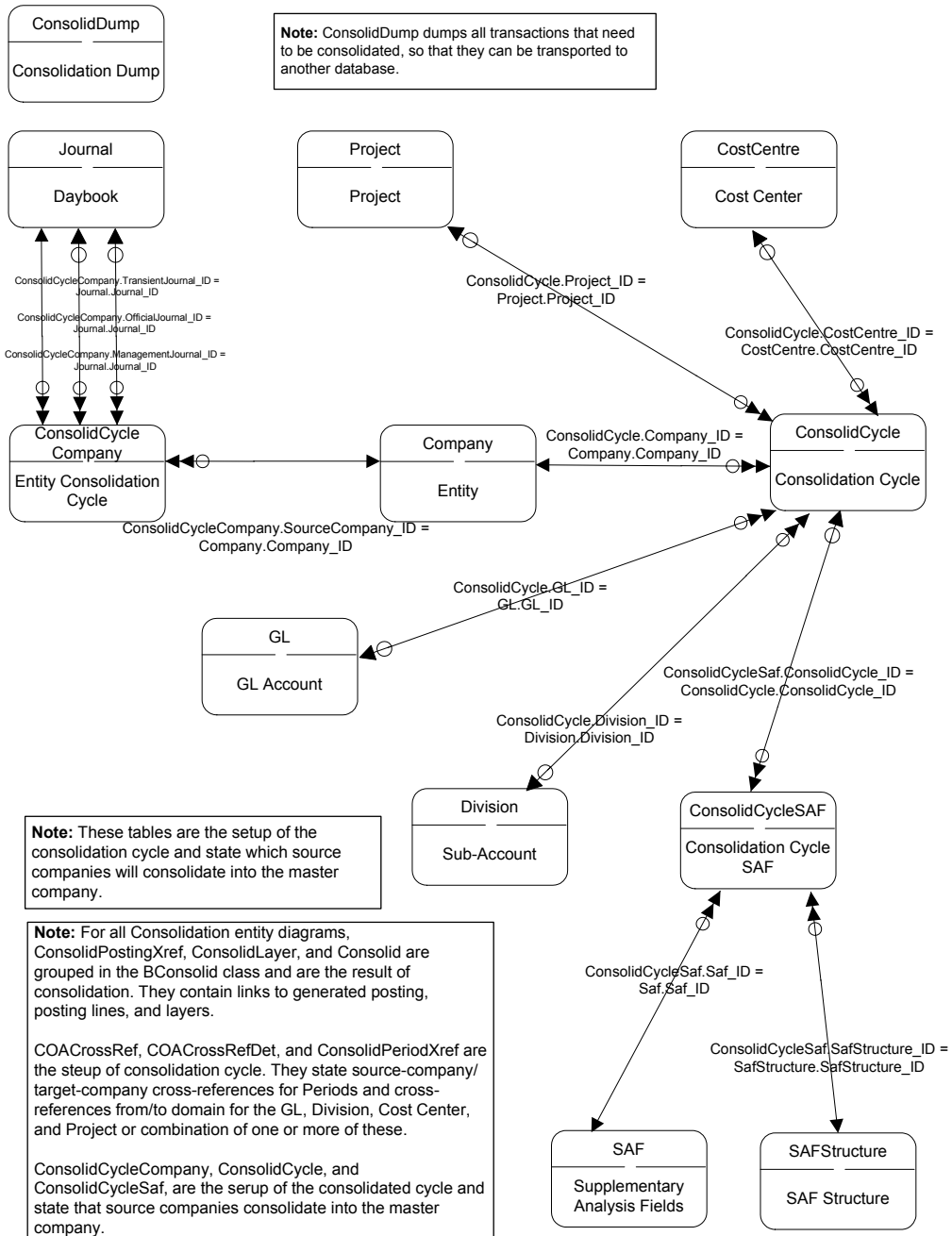


**Note:** These tables are the setup of the consolidation-cycle and state which source-companies will consolidate into the master-company.

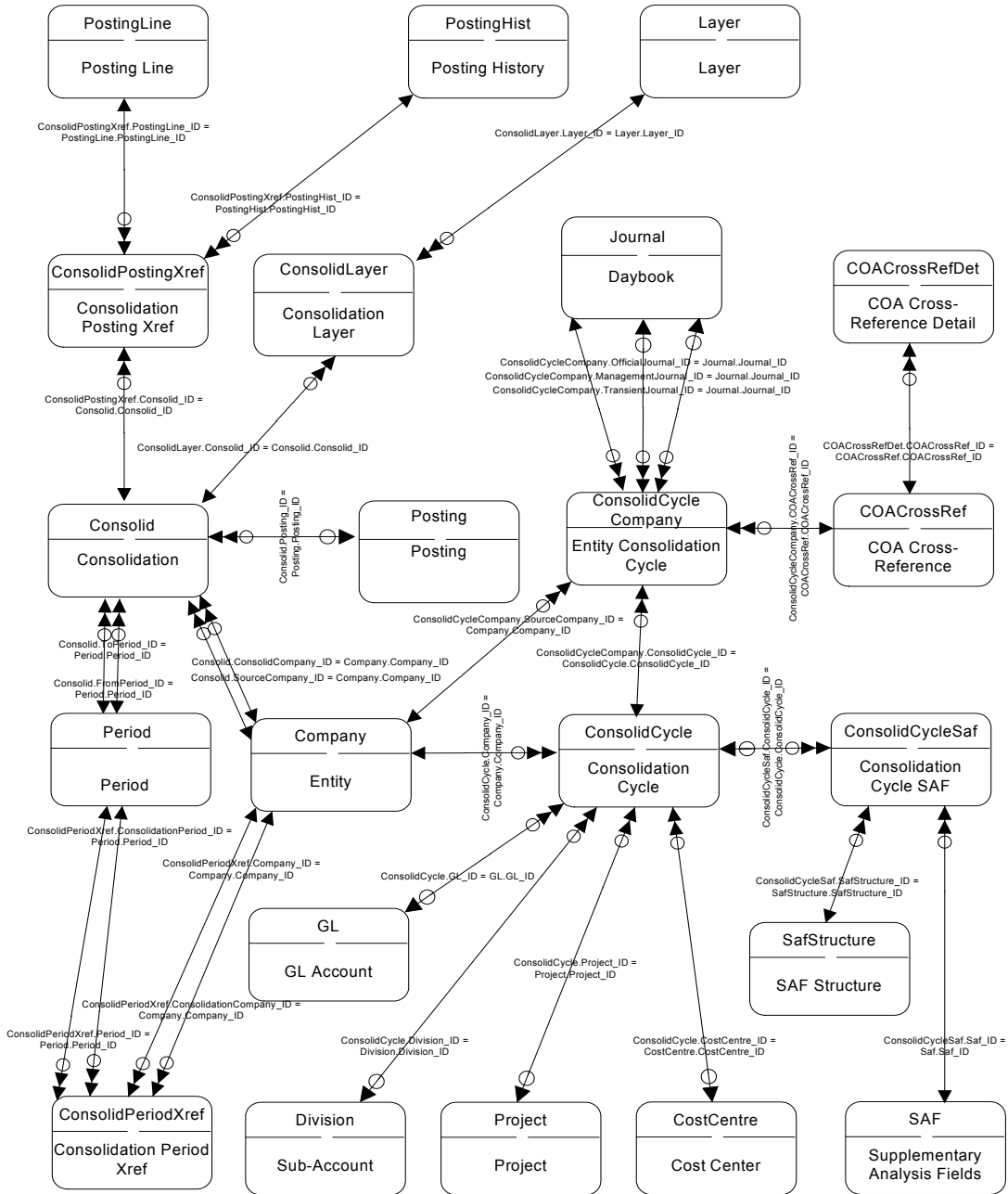
**Note:** These tables are grouped in class BConsolid and are the result of performing a consolidation. They contain the links to the generated posting and posting-lines and to the layers.



# Consolidation II

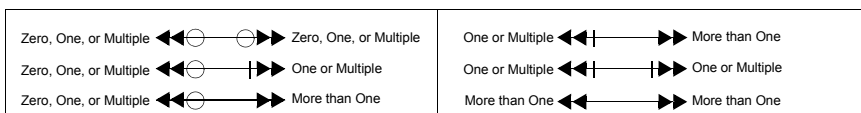
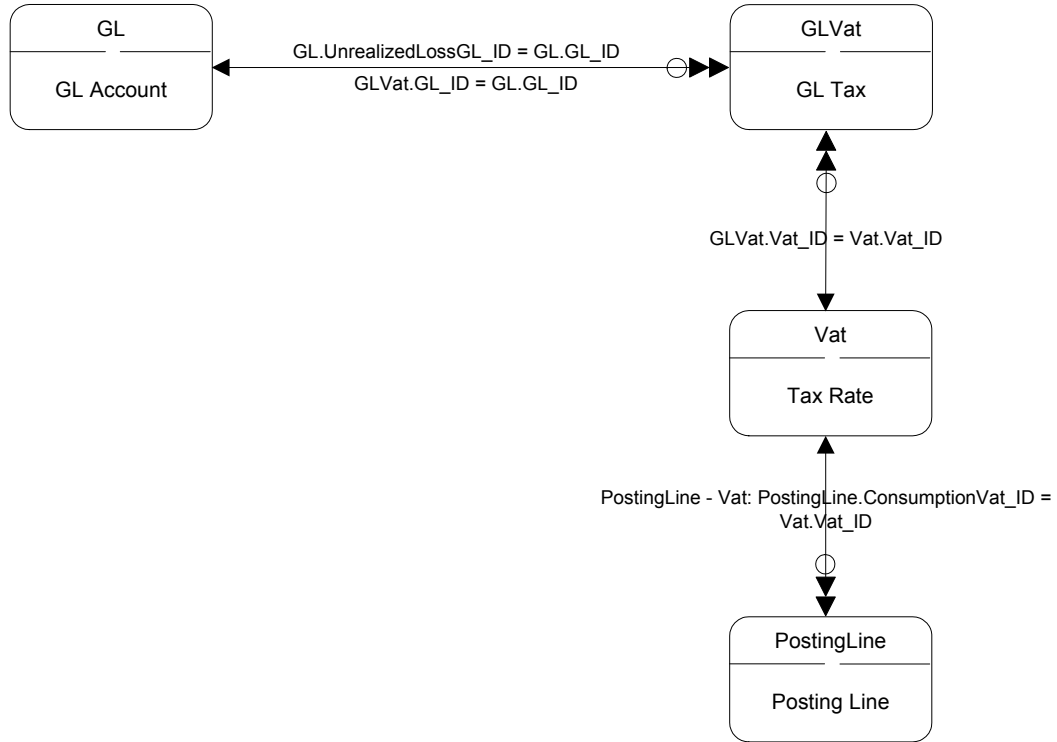


# Consolidation III

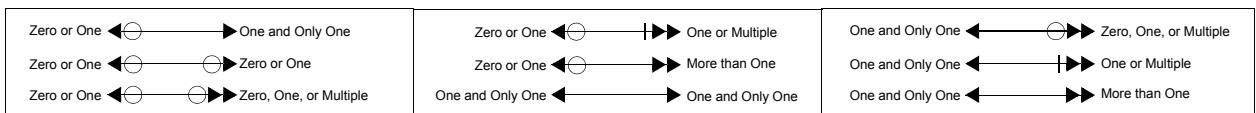
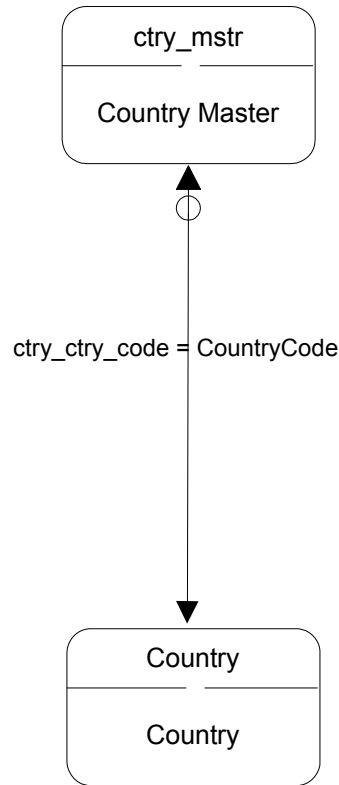


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \rightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \rightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus \rightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow \dashv \rightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \rightarrow \dashv \rightarrow$ More than One

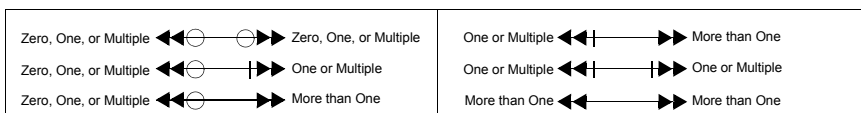
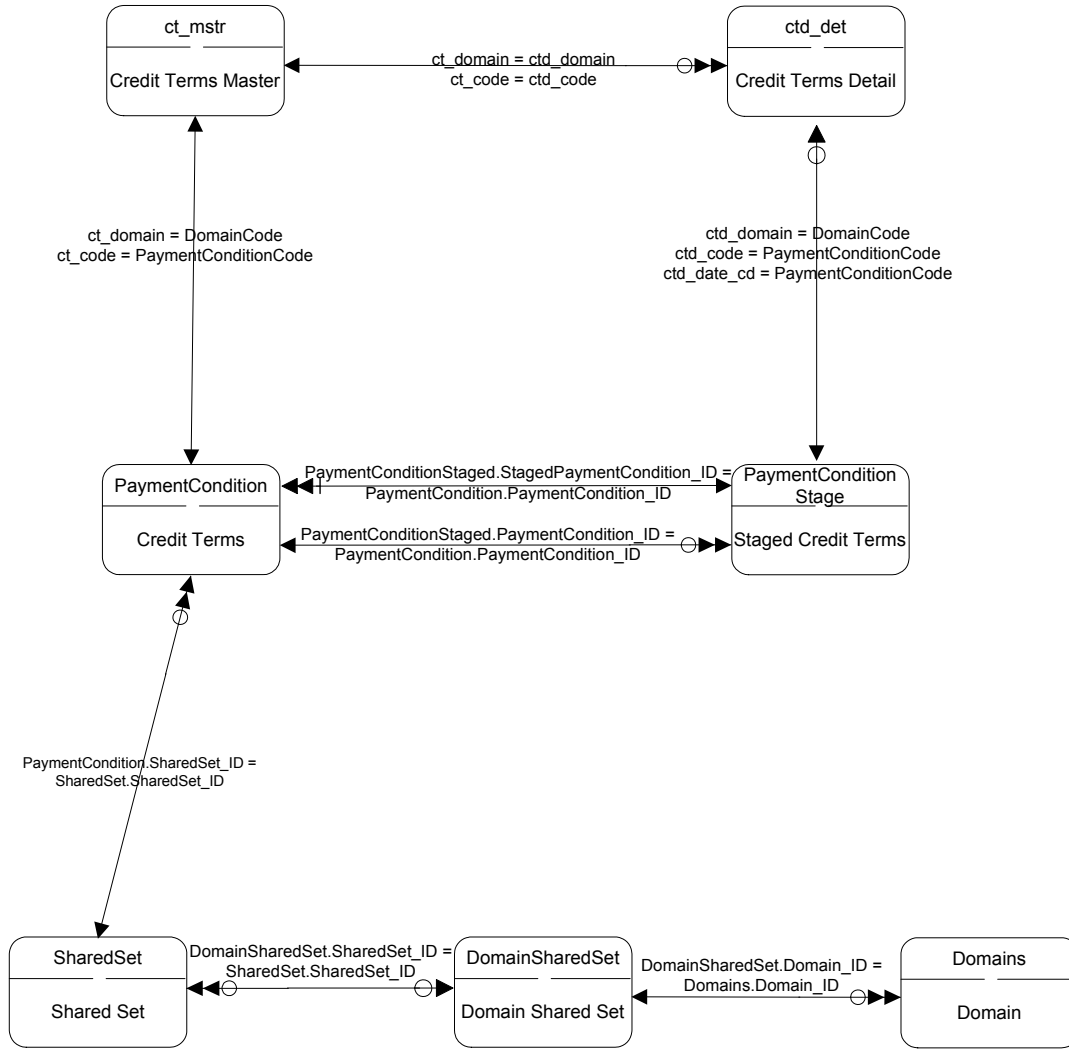
# Consumption Tax



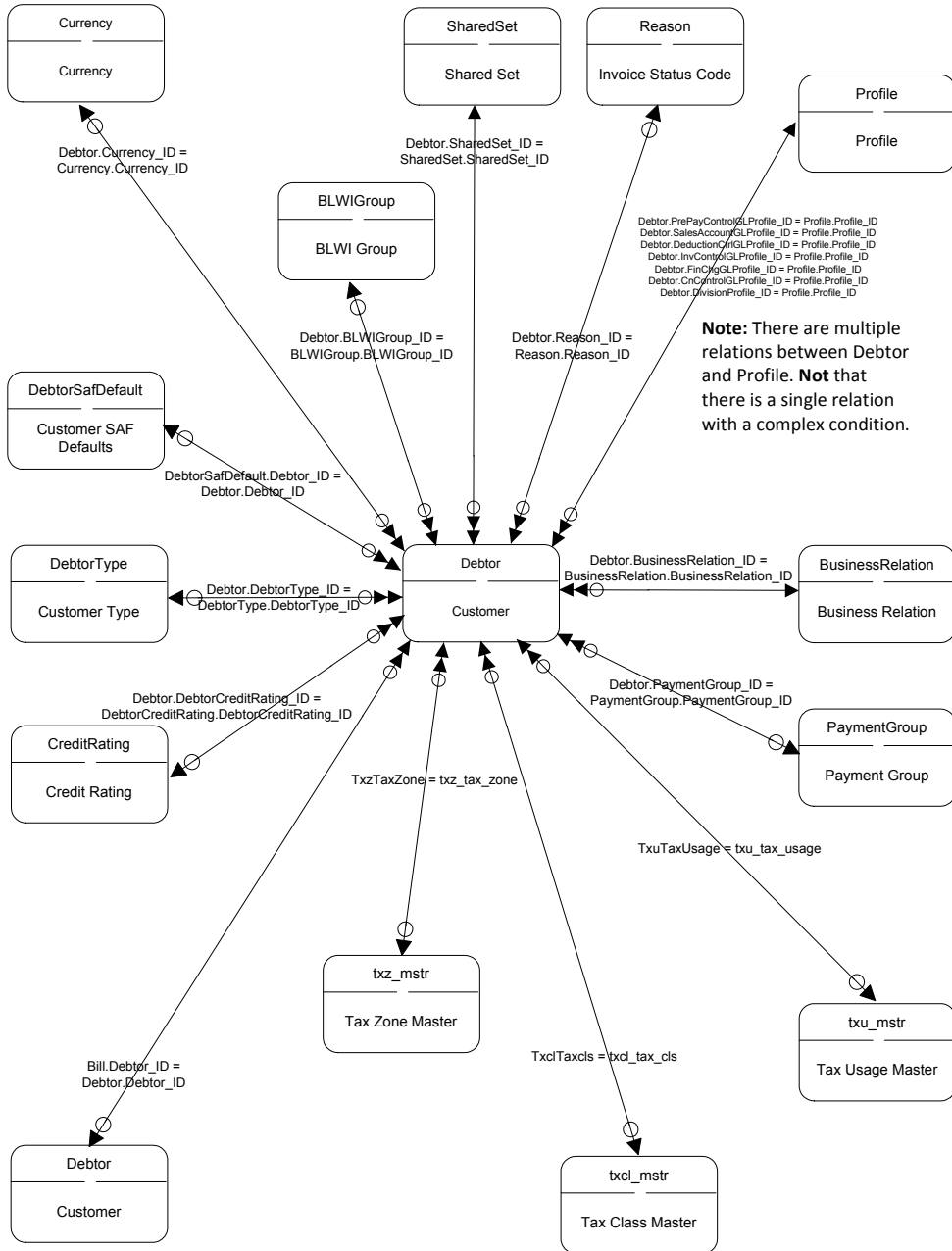
# Country



# Credit Terms

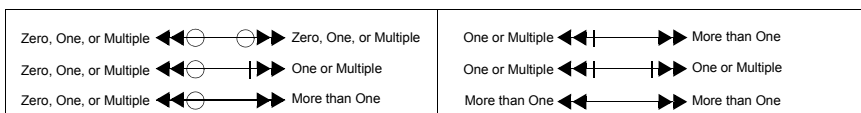
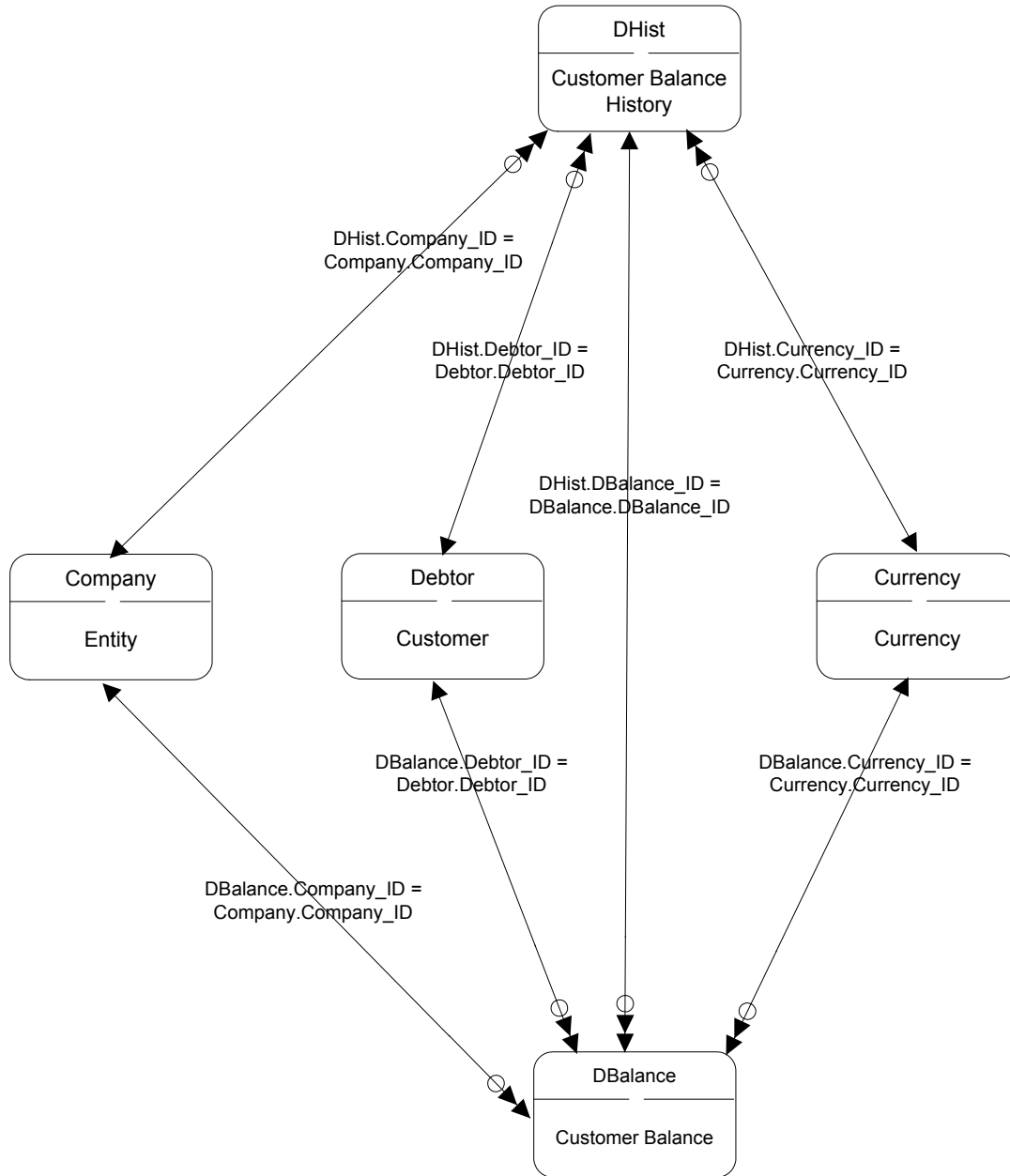


# Customer

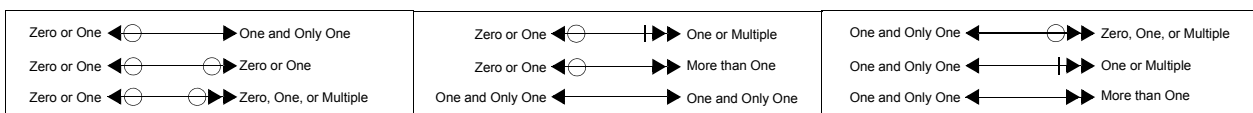
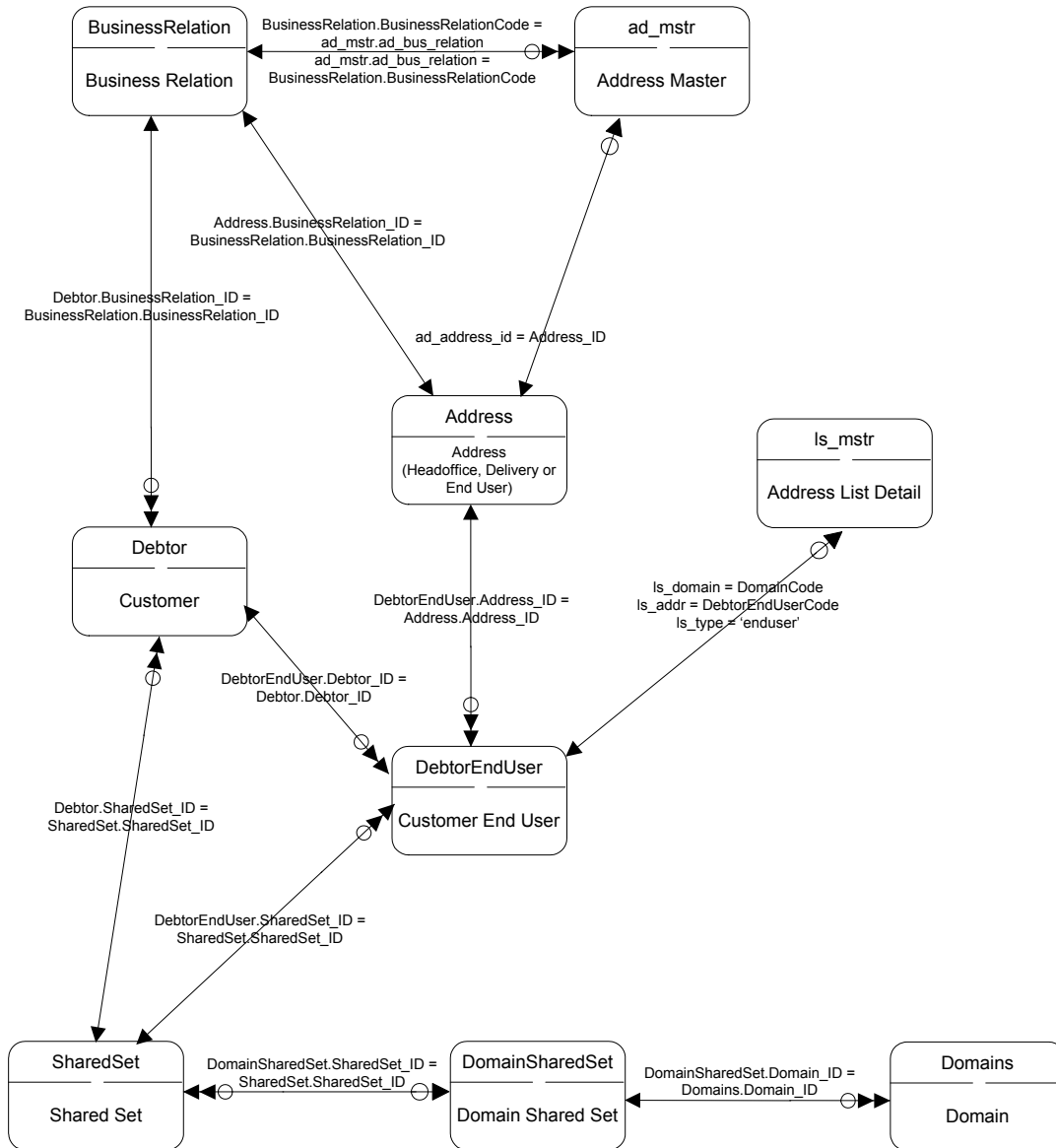


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \rightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \rightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow \circ$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow \circ$ One and Only One	One and Only One $\leftarrow \ominus \dashv \rightarrow \circ$ More than One

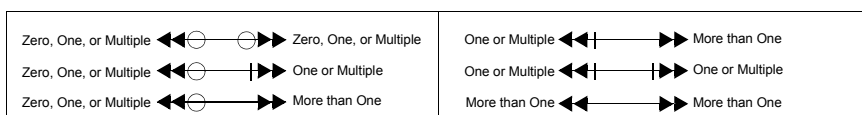
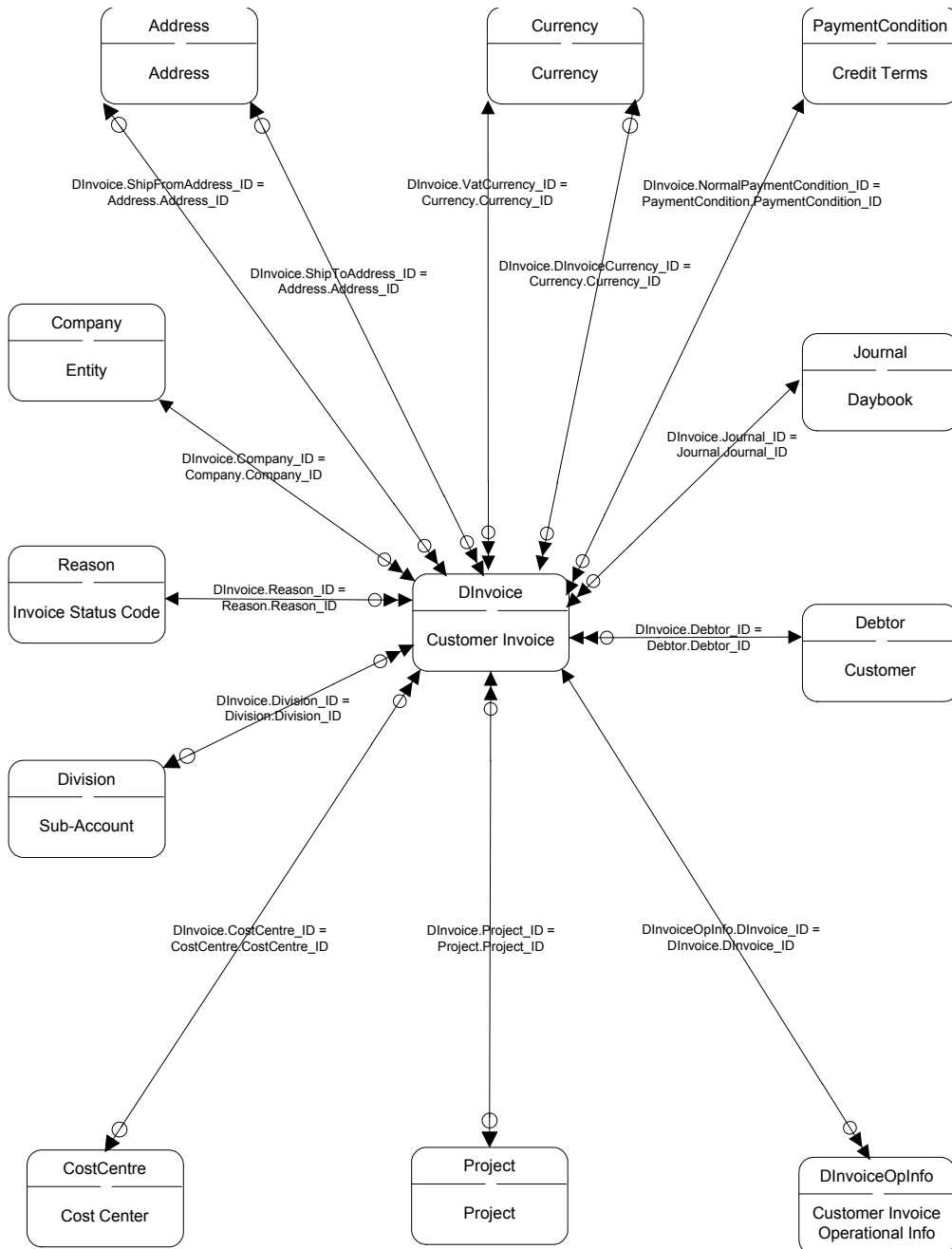
# Customer Balance



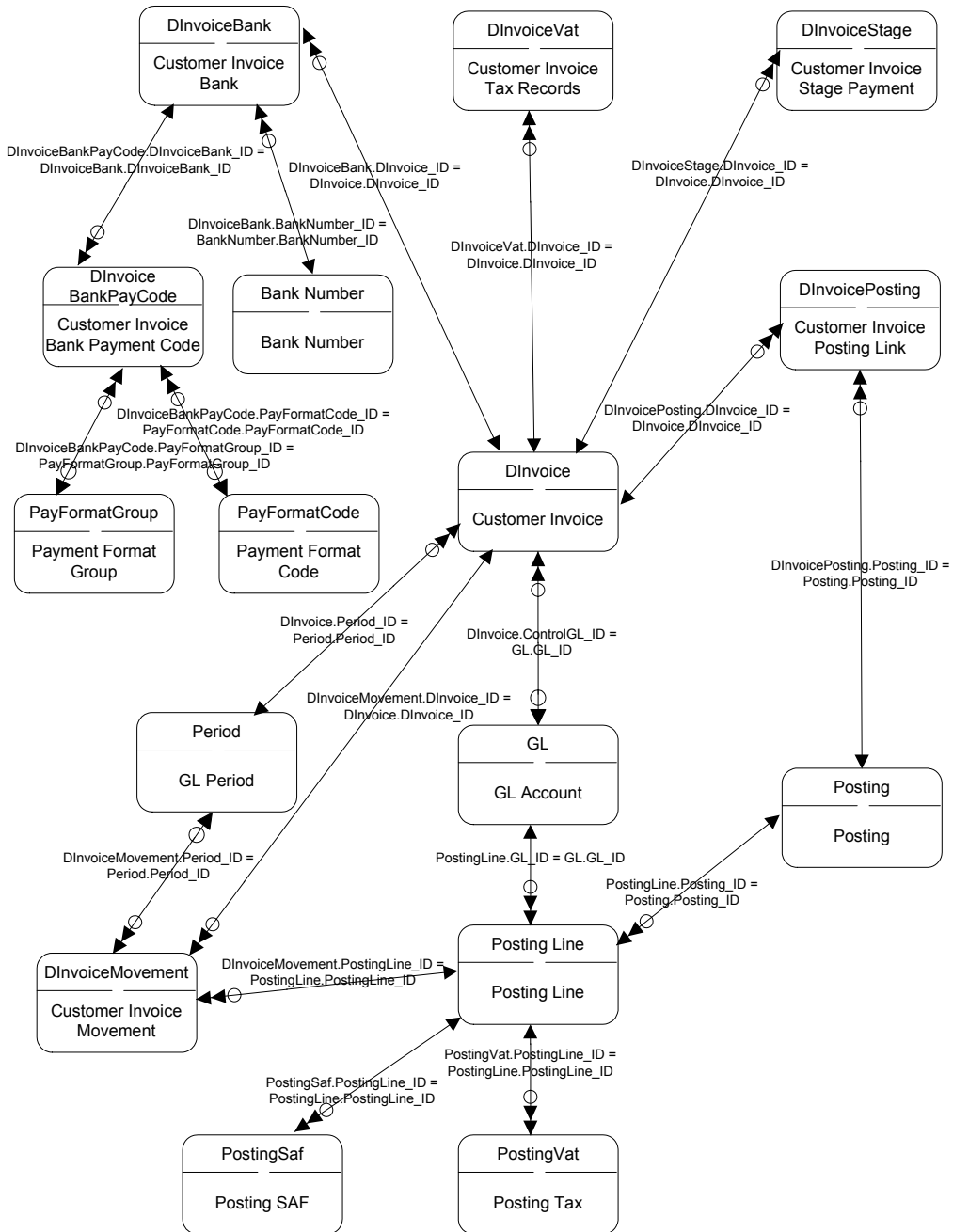
## Customer End User



# Customer Invoice I

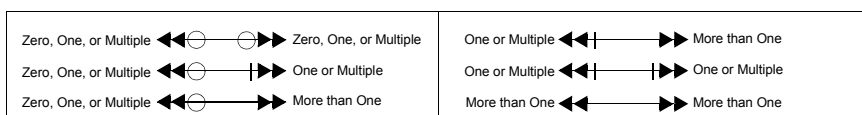
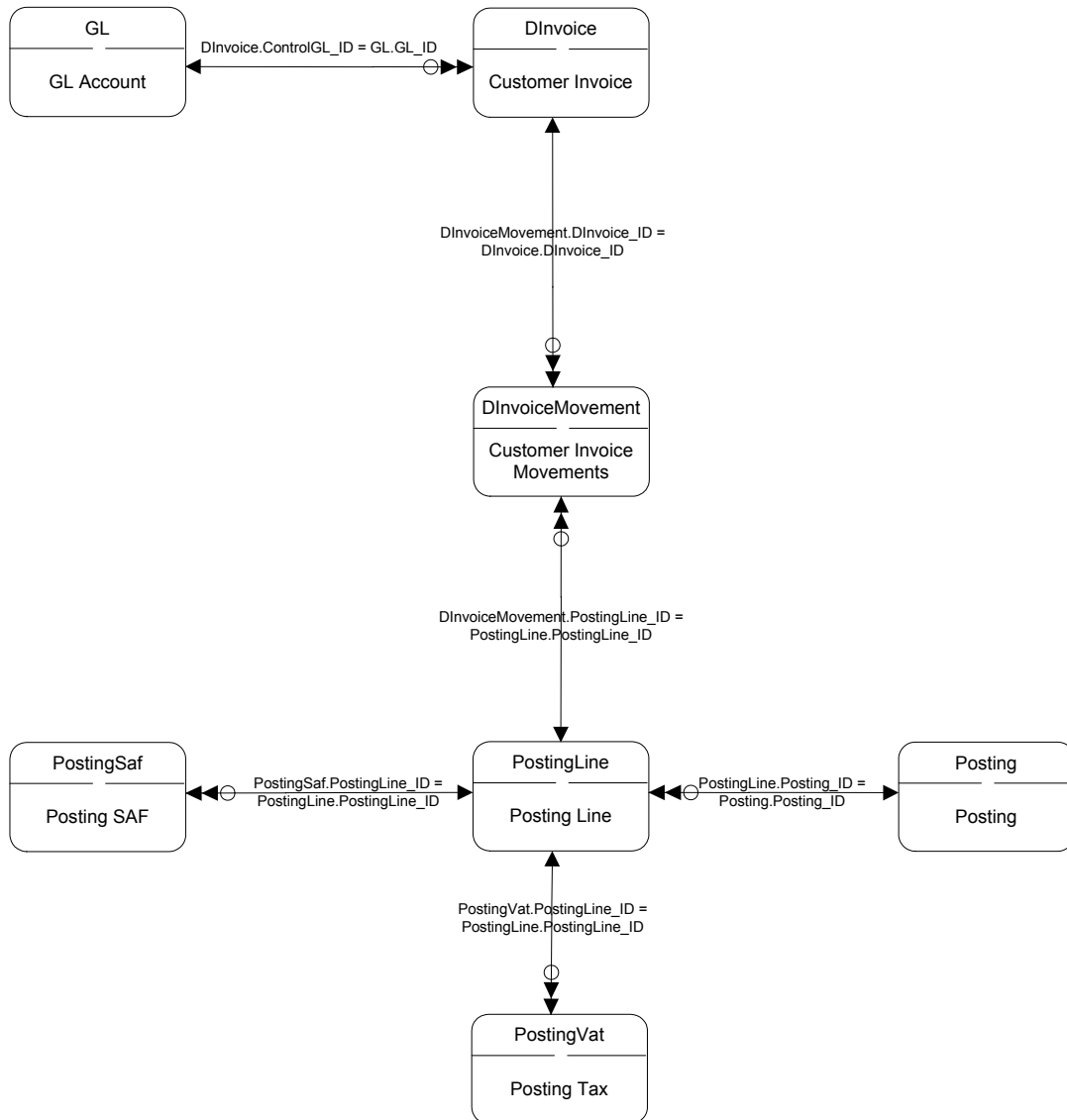


## Customer Invoice II

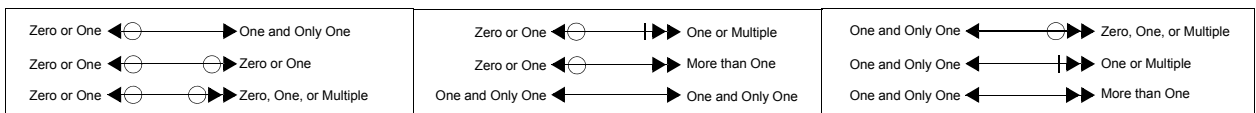
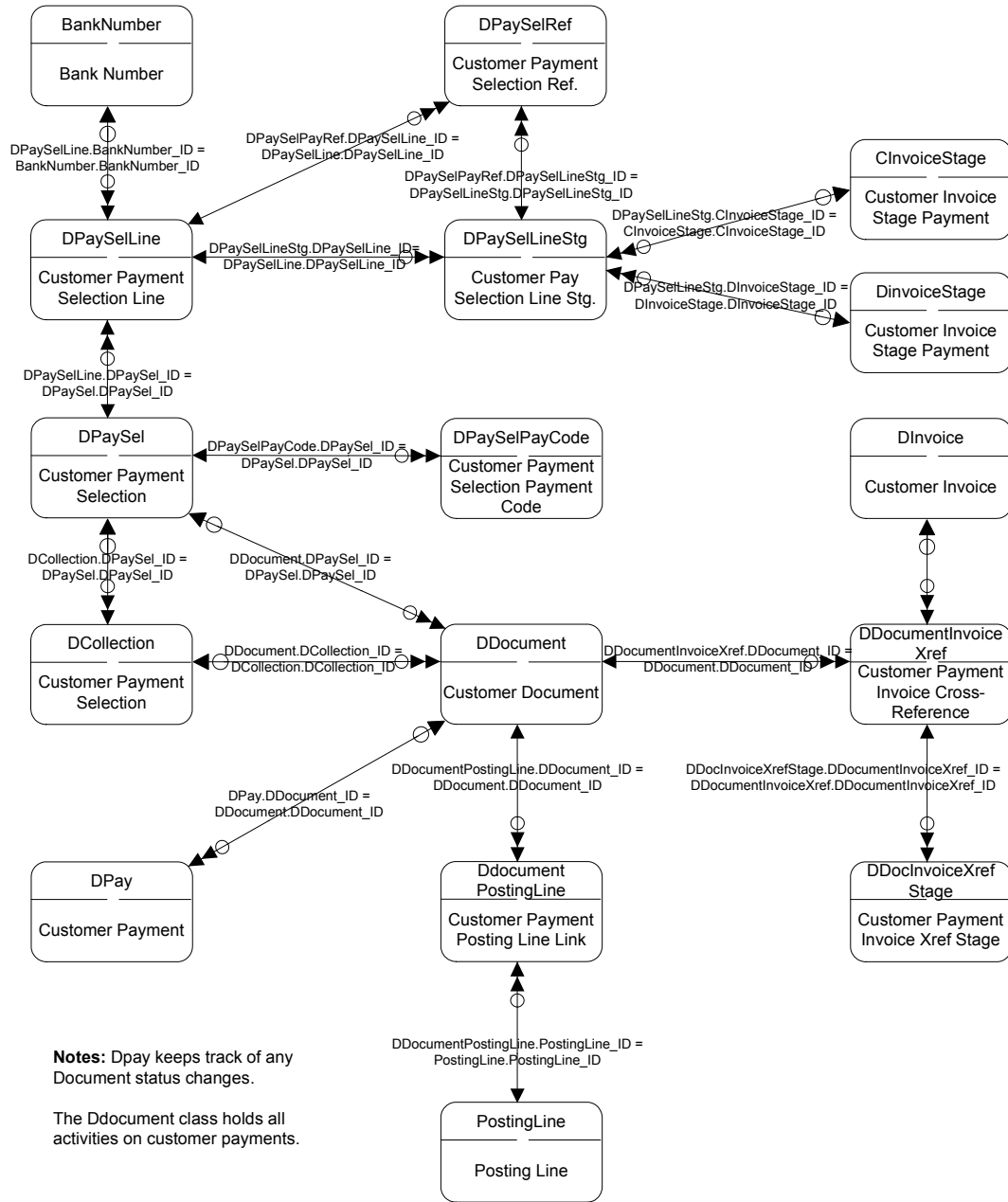


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv \dashv$ More than One

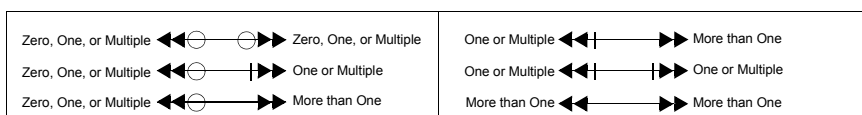
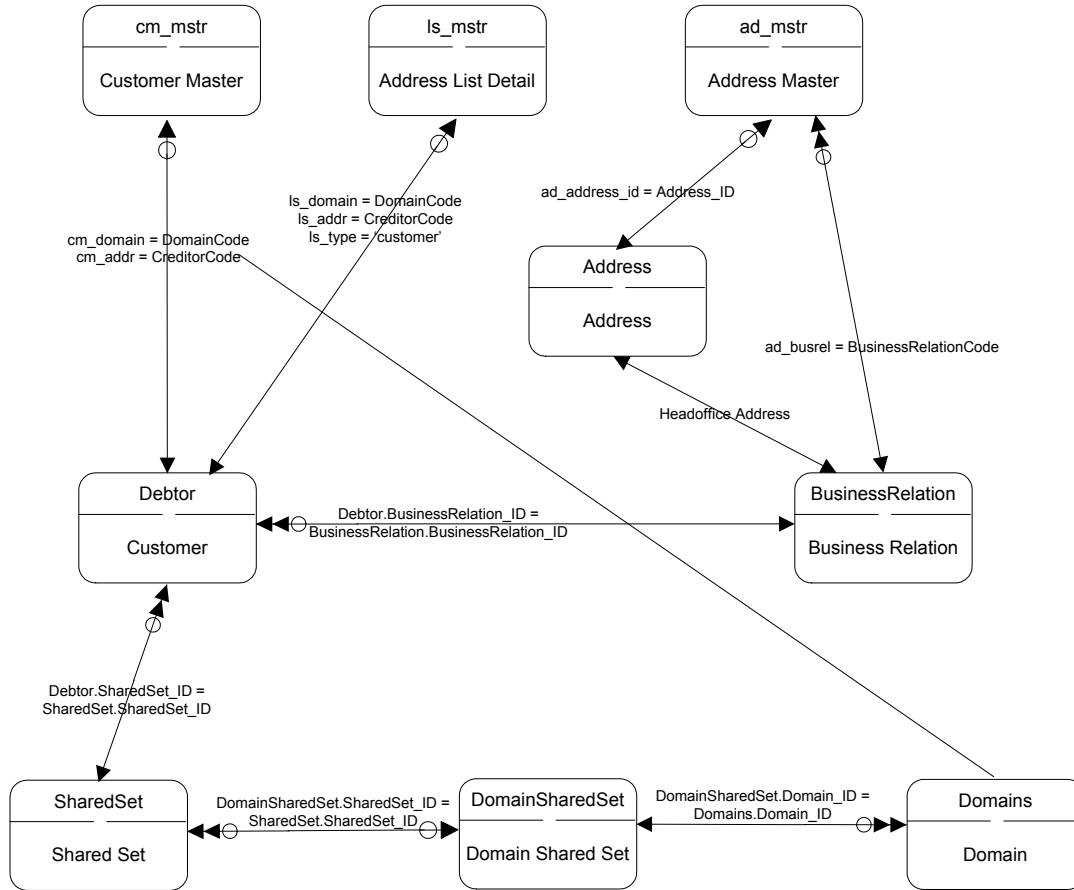
# Customer Invoice Movement



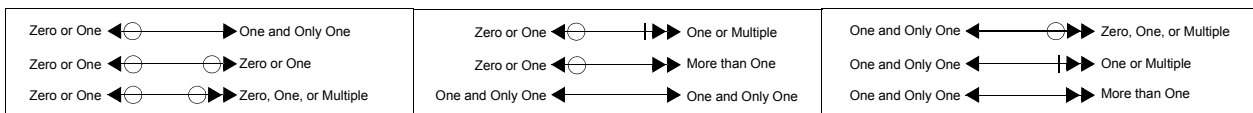
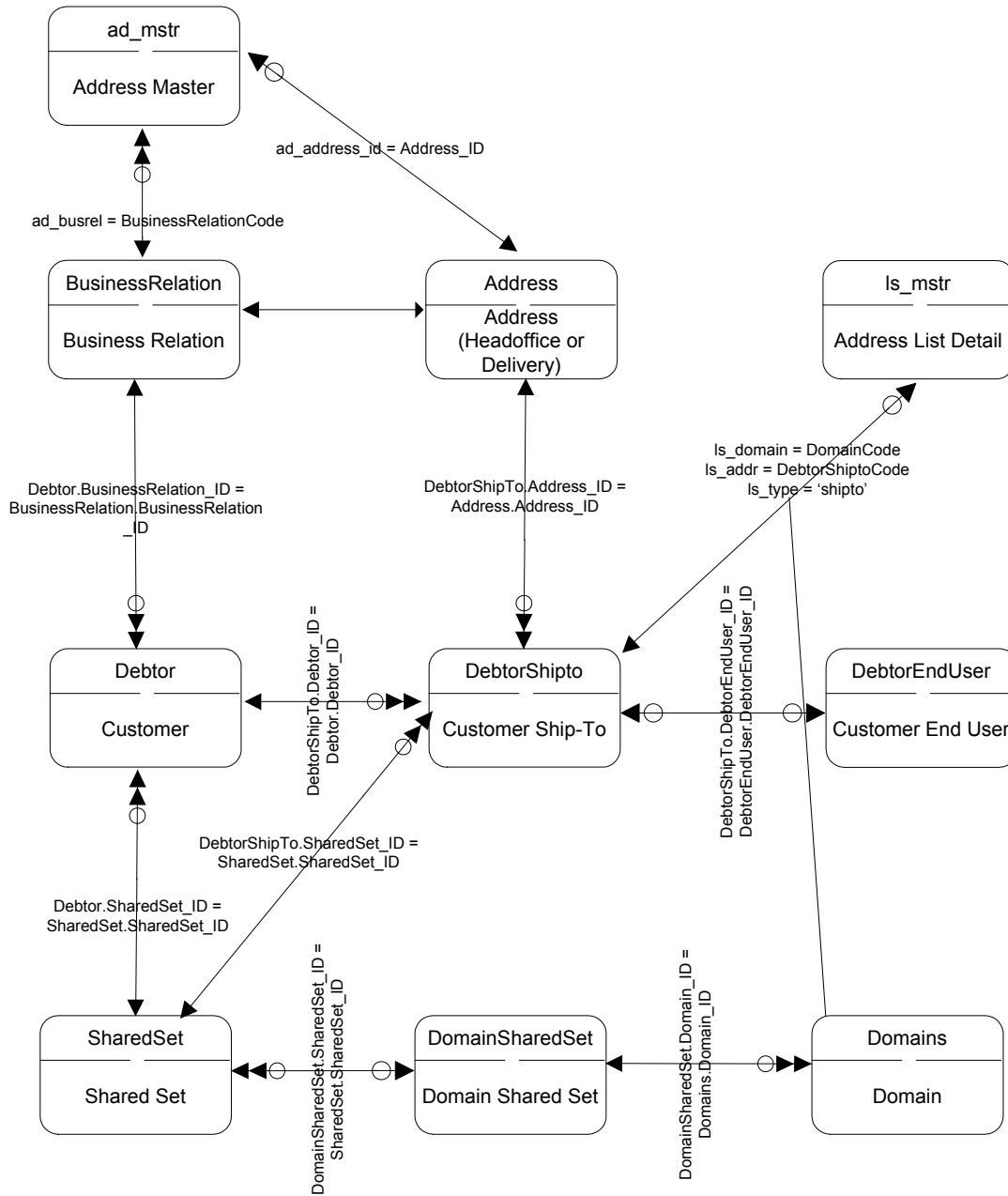
# Customer Payments



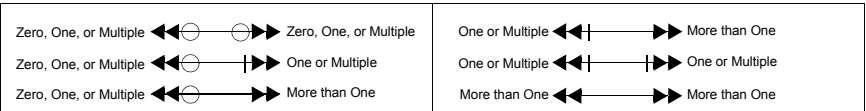
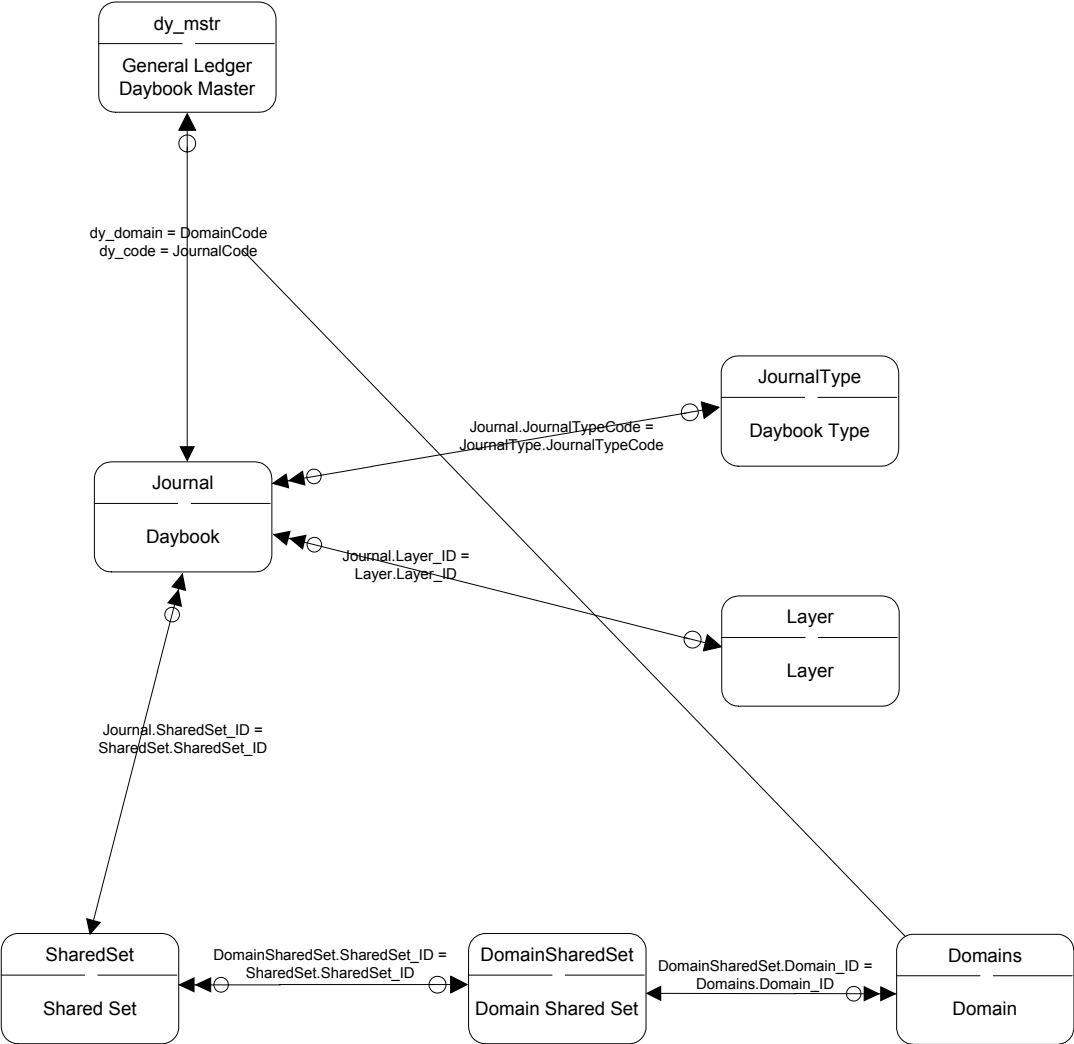
# Customer Replication



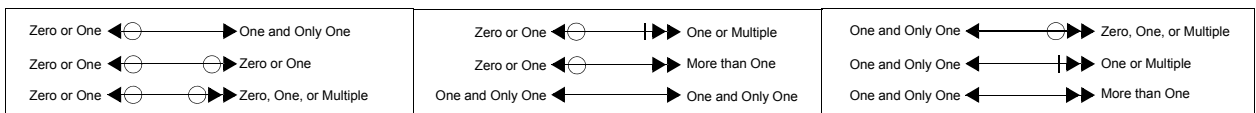
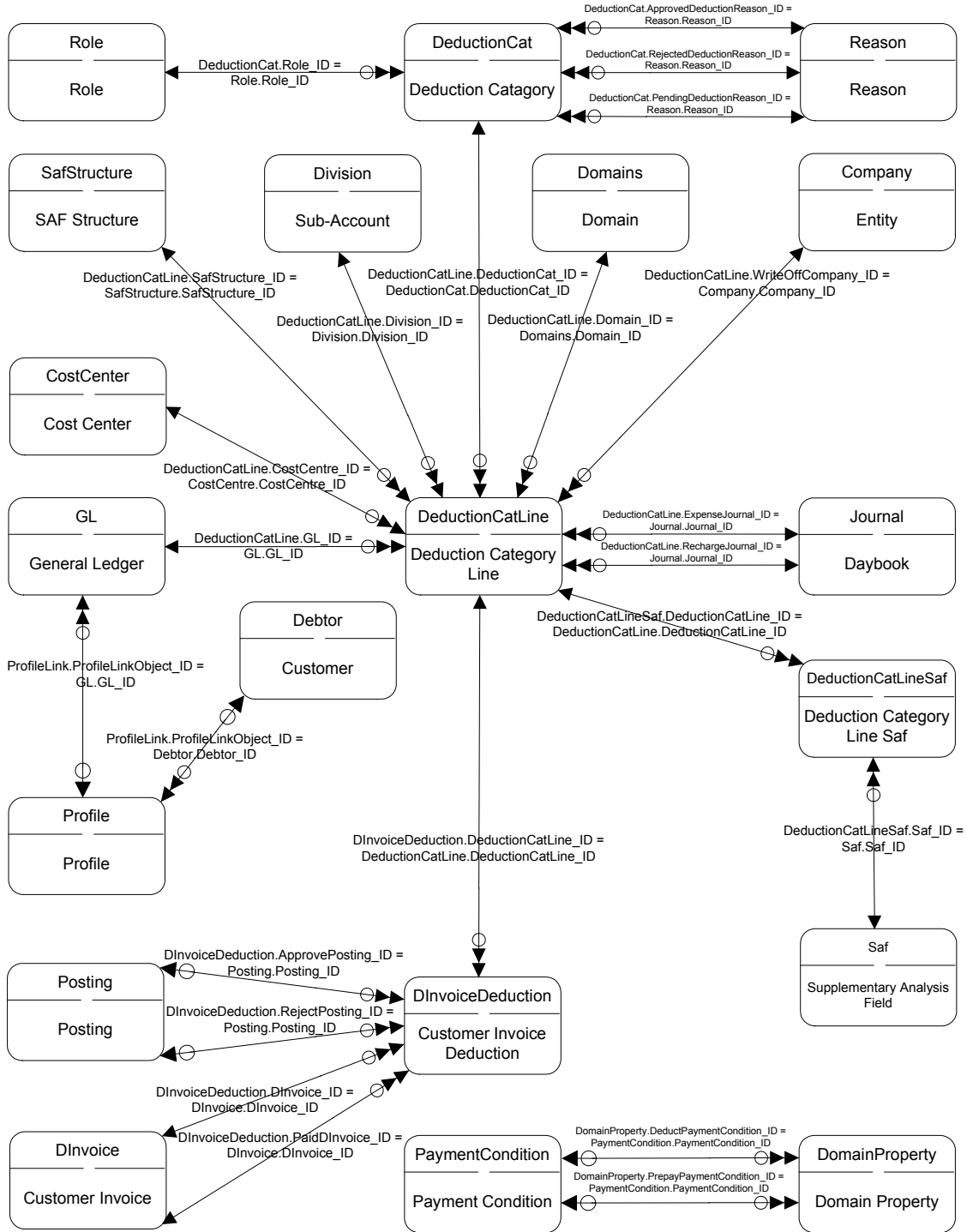
## Customer Ship-To



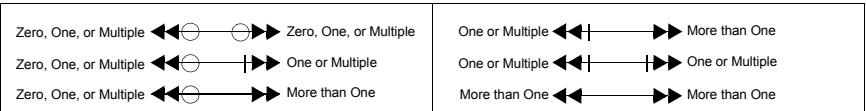
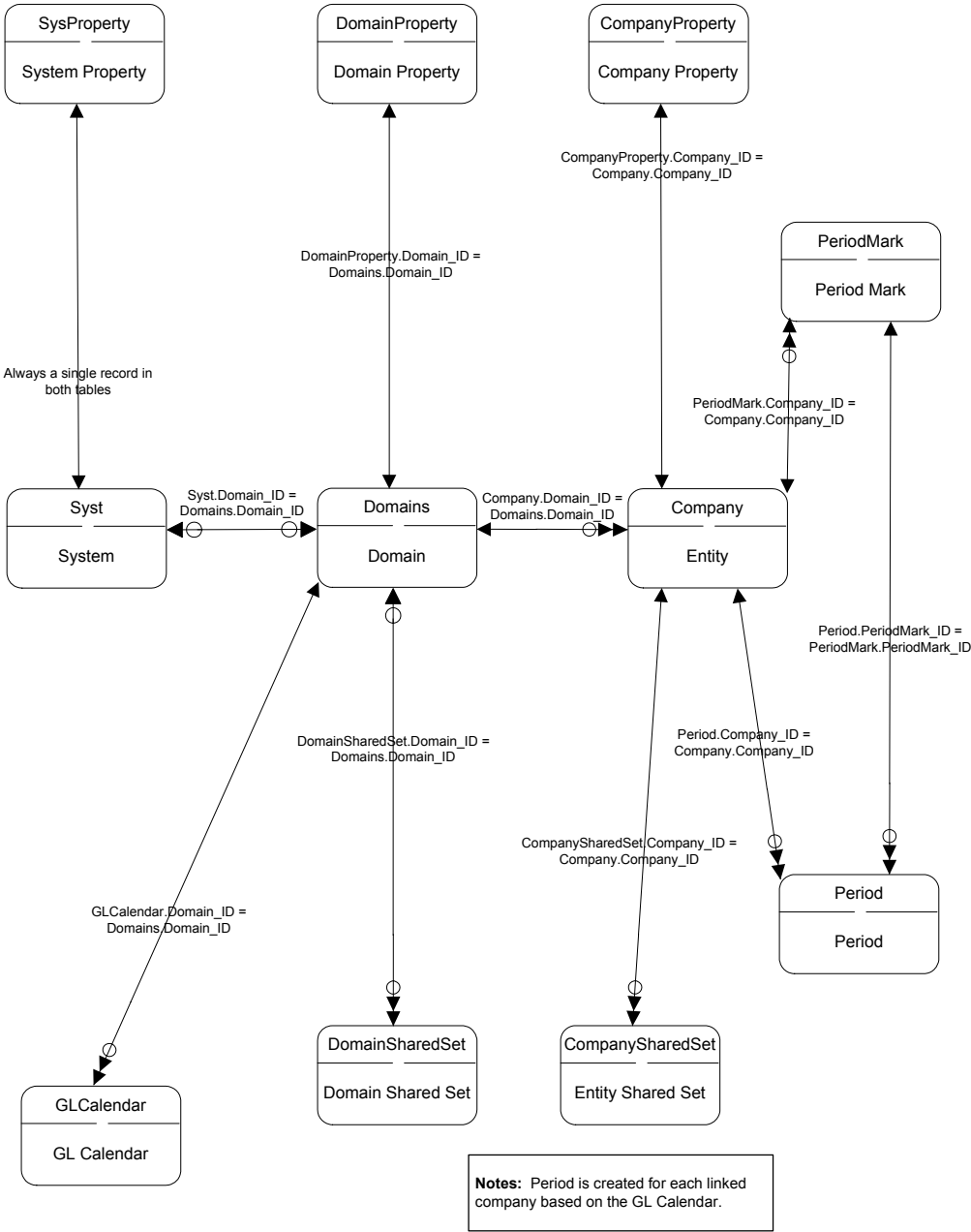
# Daybook



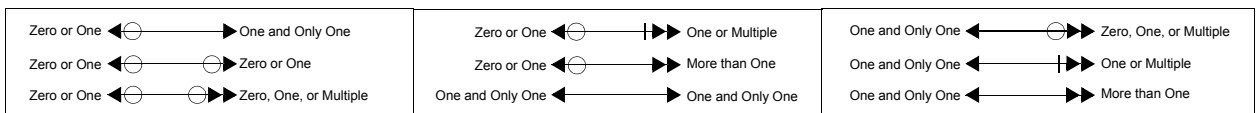
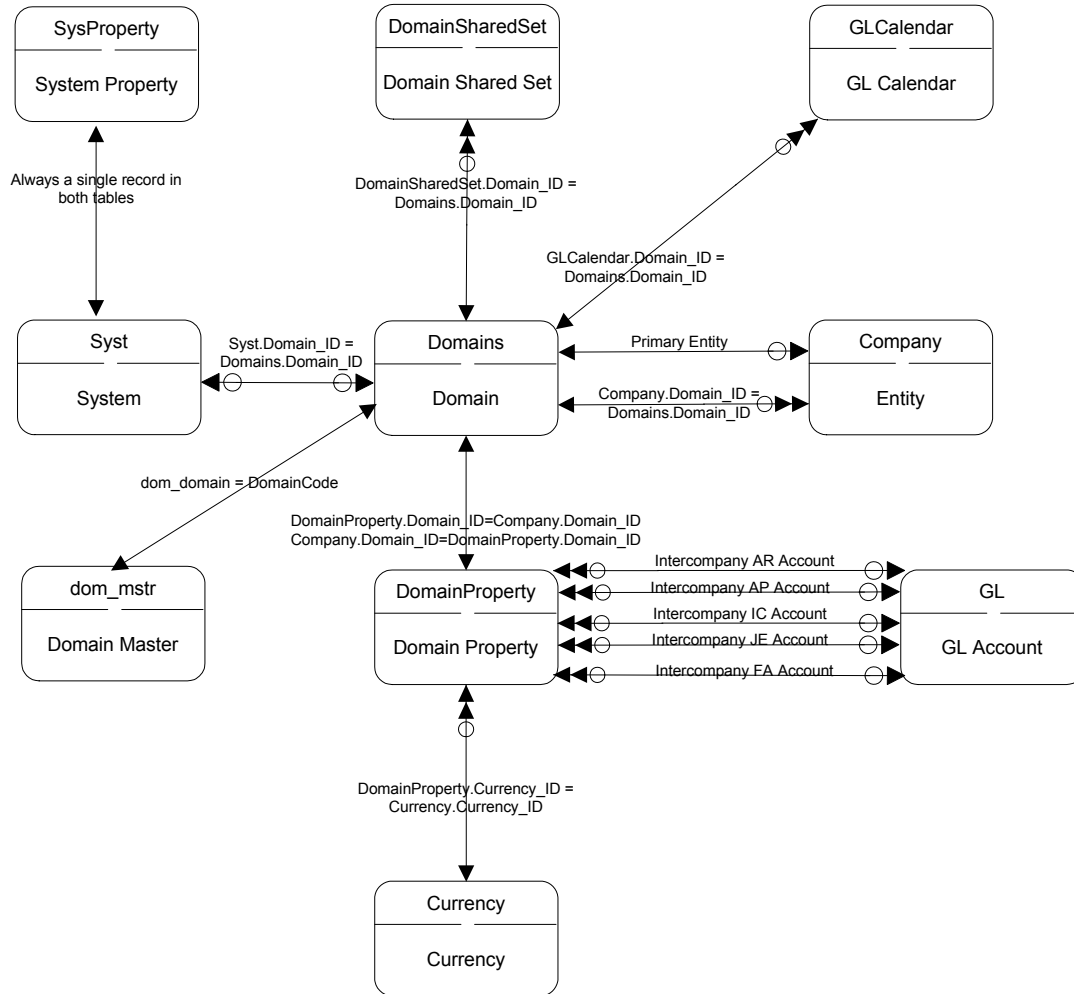
# Deductions



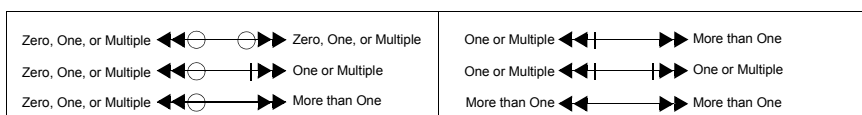
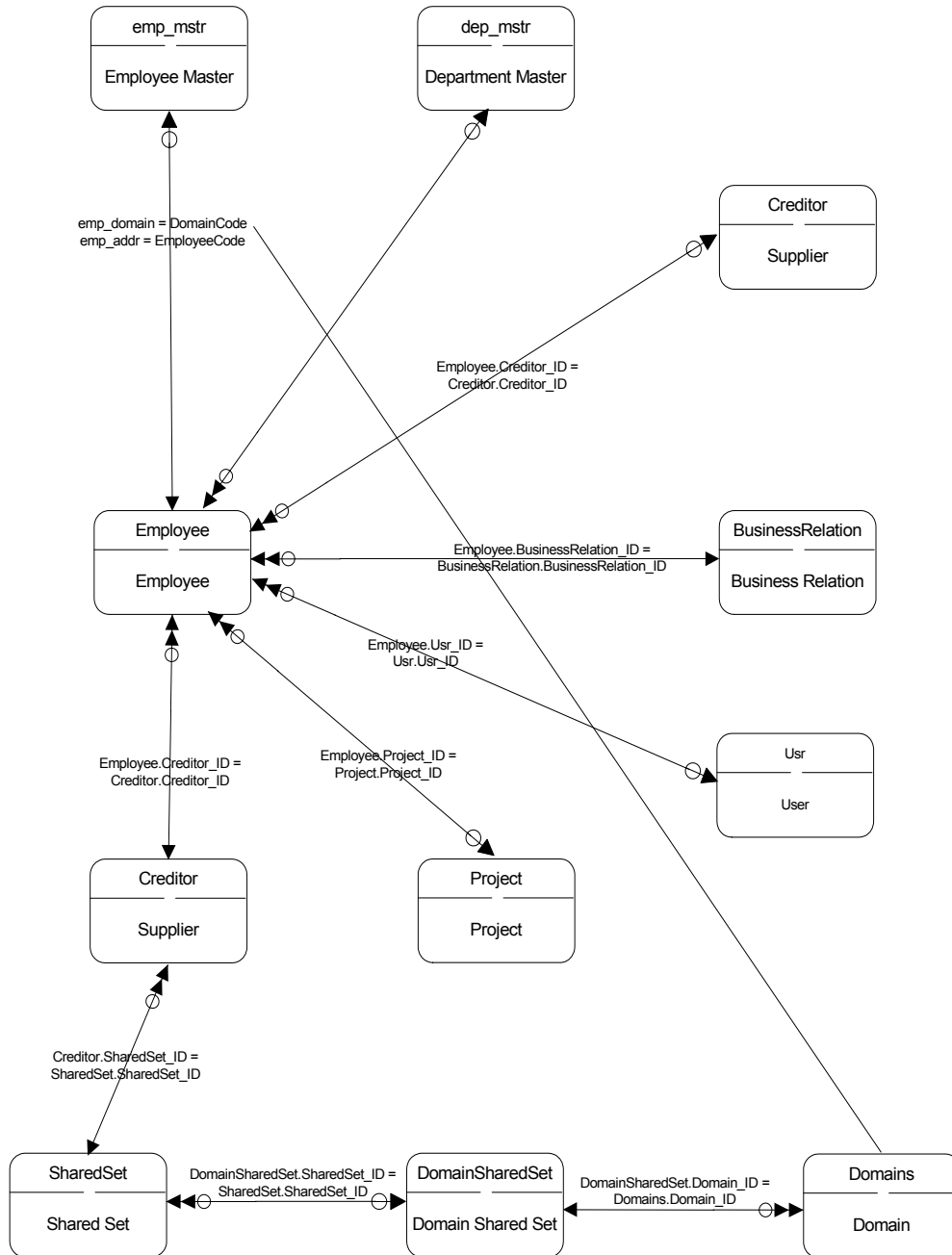
# Domain Company



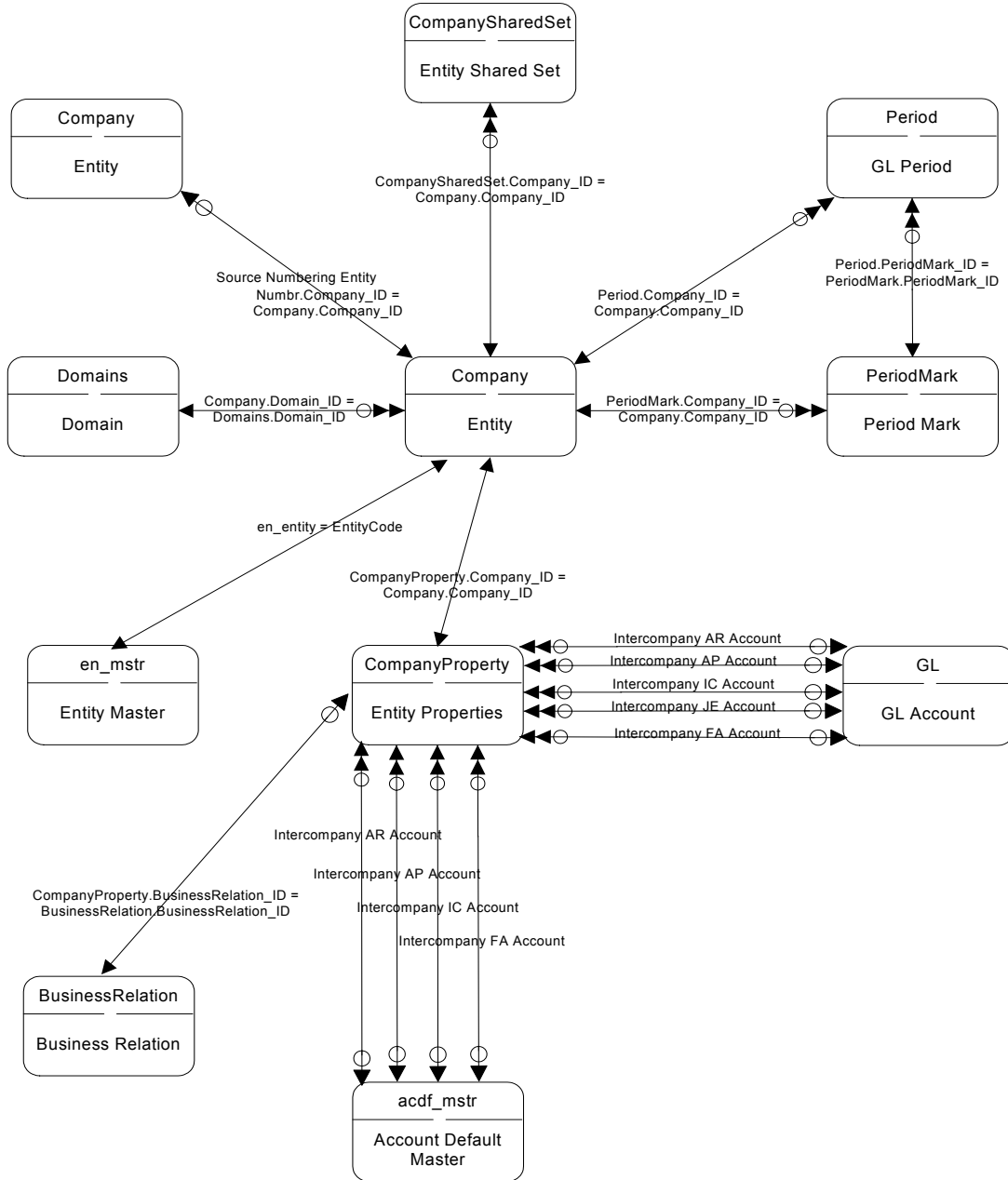
# Domains



# Employee

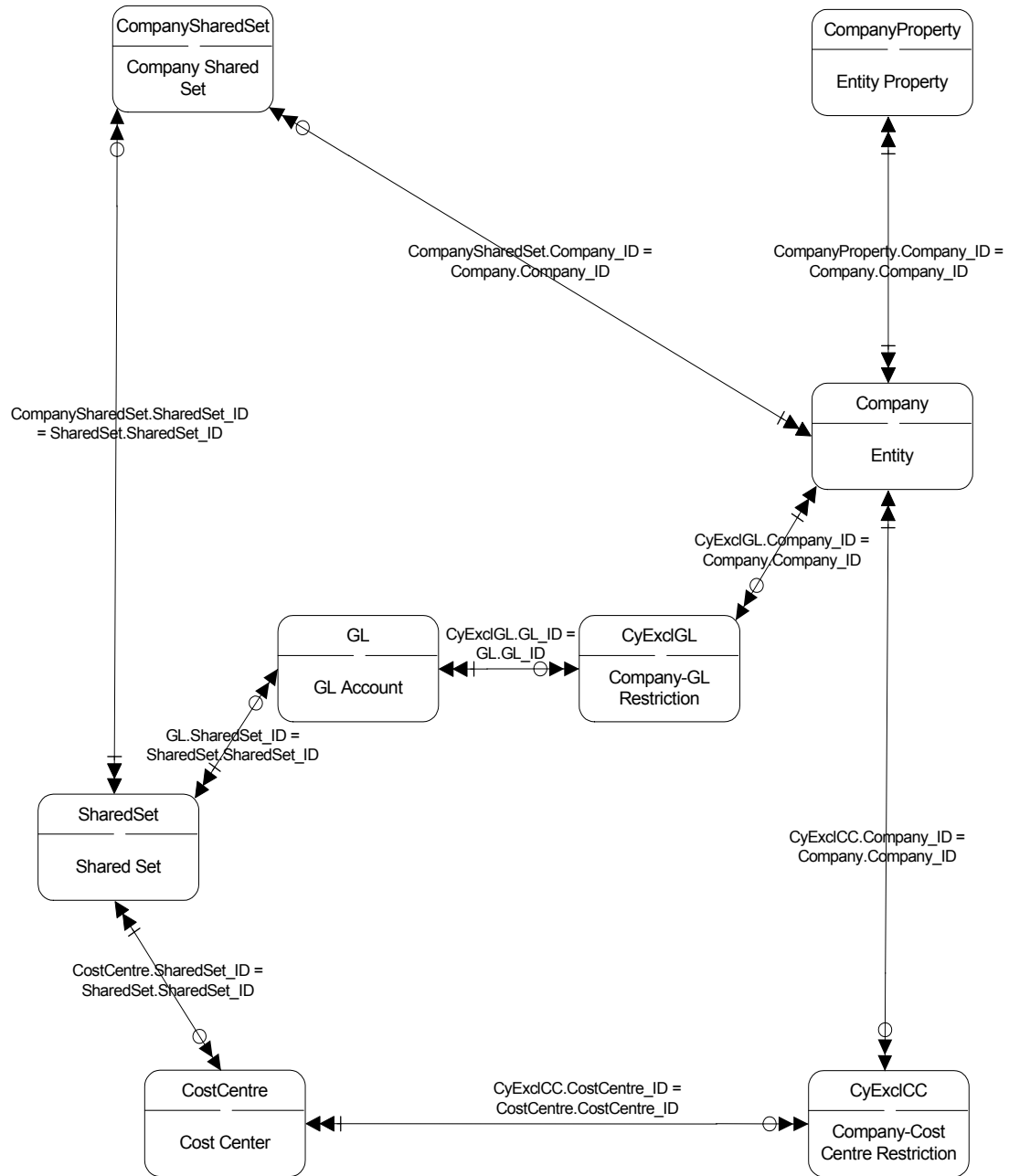


# Entities



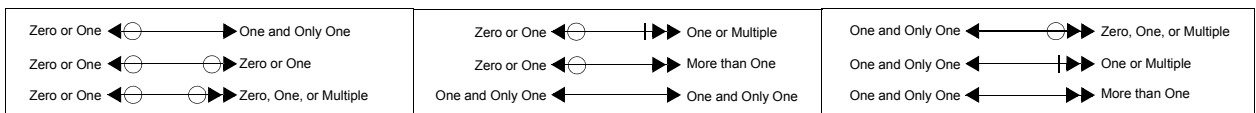
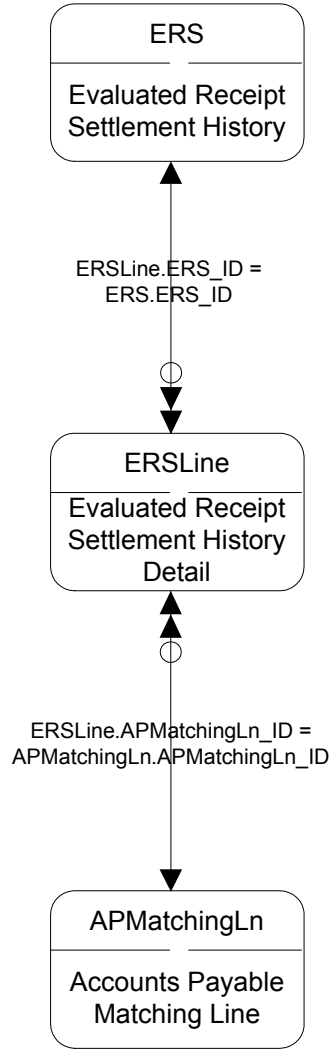
Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \rightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \rightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow \circ$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow \circ$ One and Only One	One and Only One $\leftarrow \ominus \dashv \rightarrow \circ$ More than One

# Entity FDS Restrictions

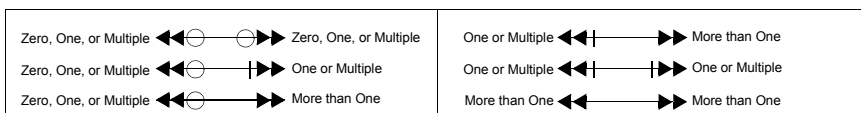
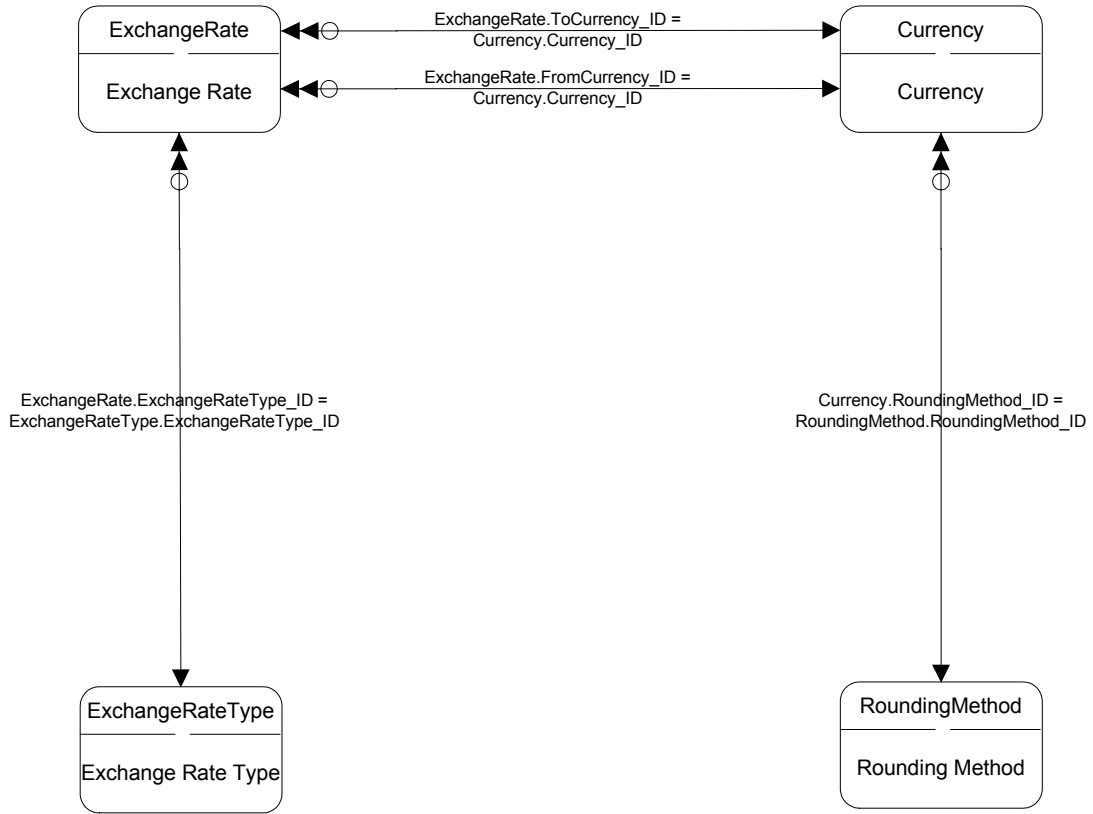


Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One
One or Multiple	◀◀	▶▶	More than One
One or Multiple	◀◀	▶▶	One or Multiple
More than One	◀◀▶▶	▶▶	More than One

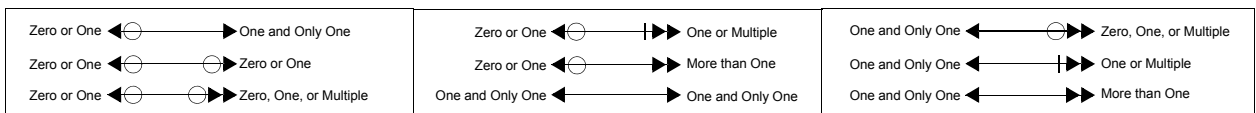
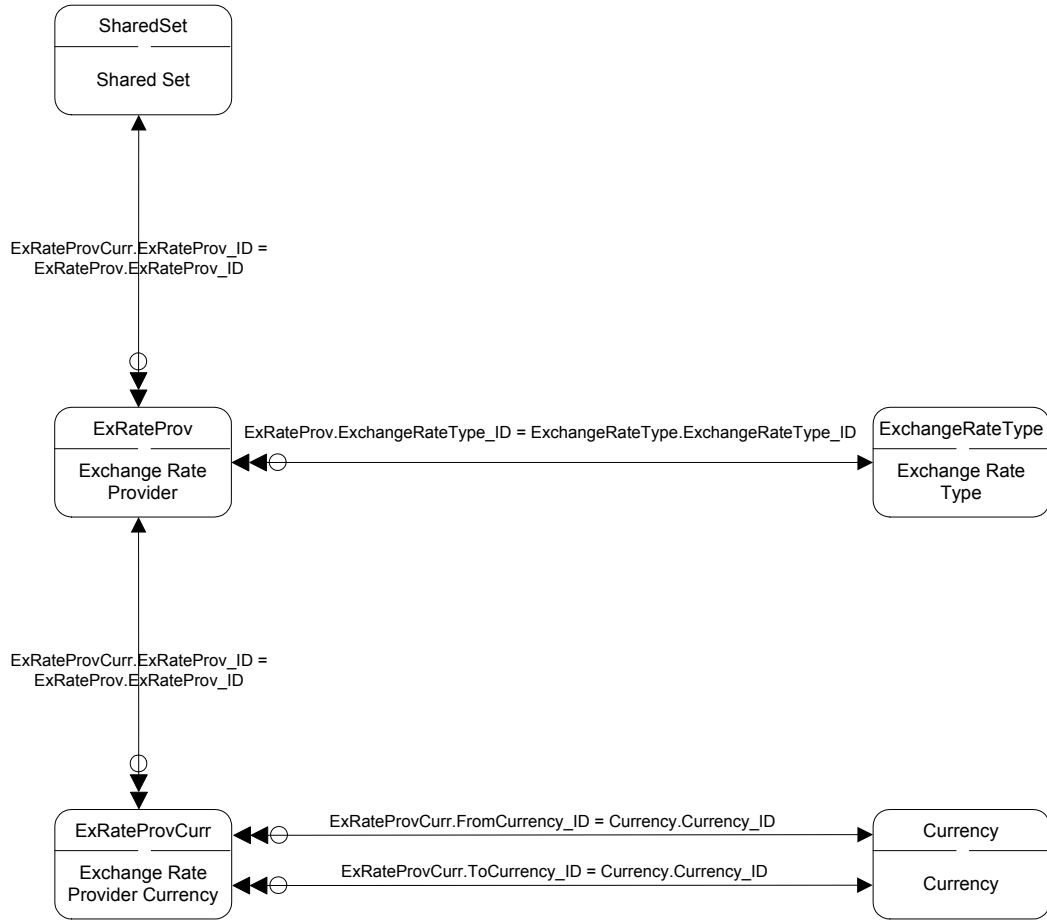
# ERS



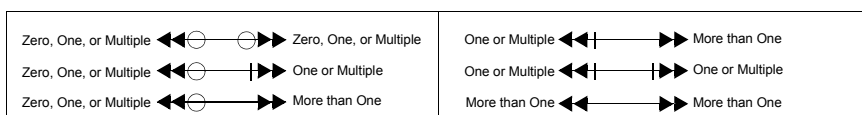
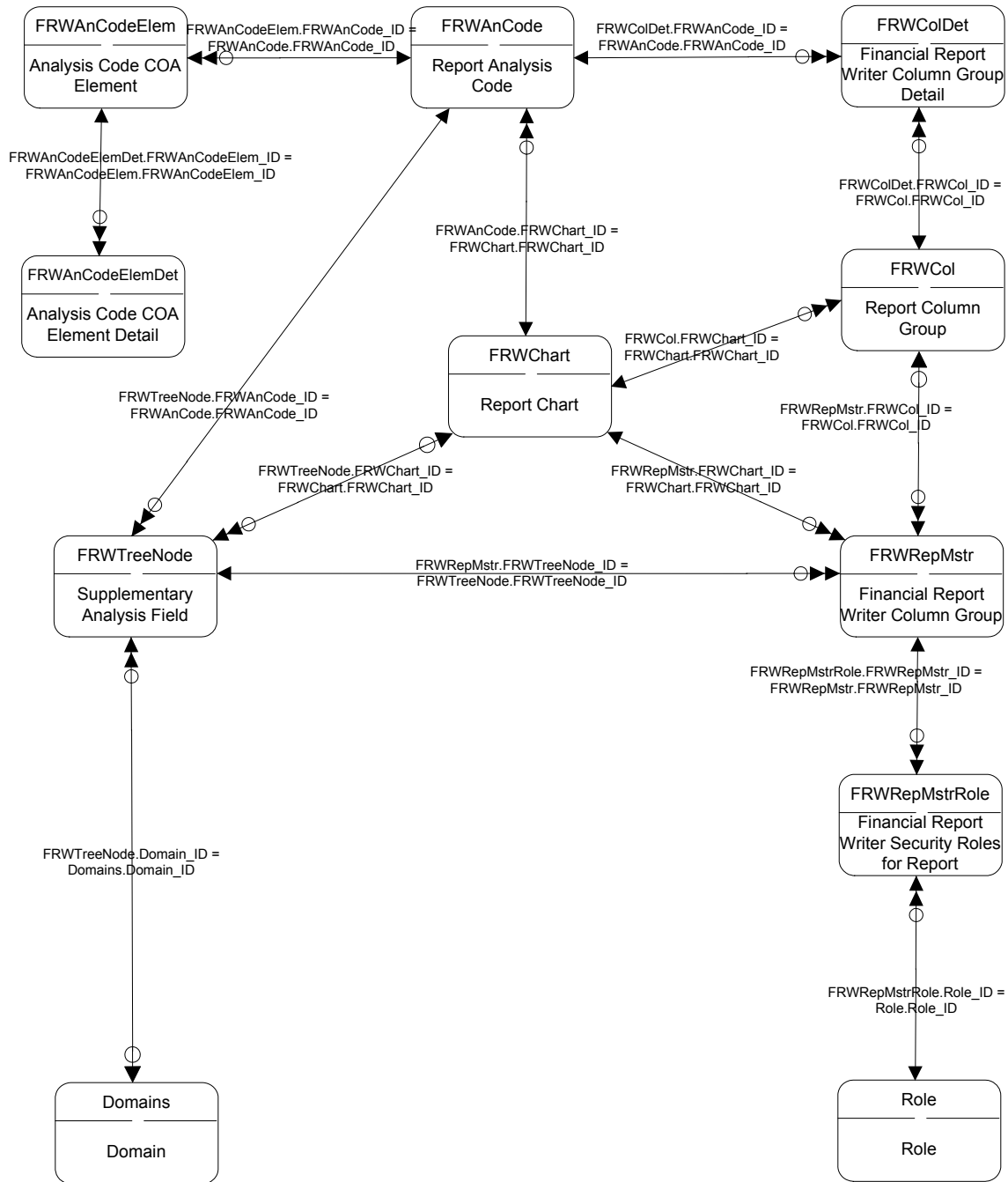
# Exchange Rates



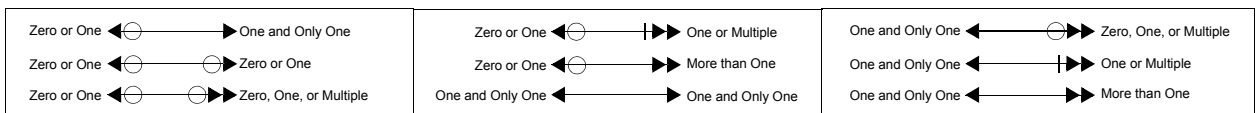
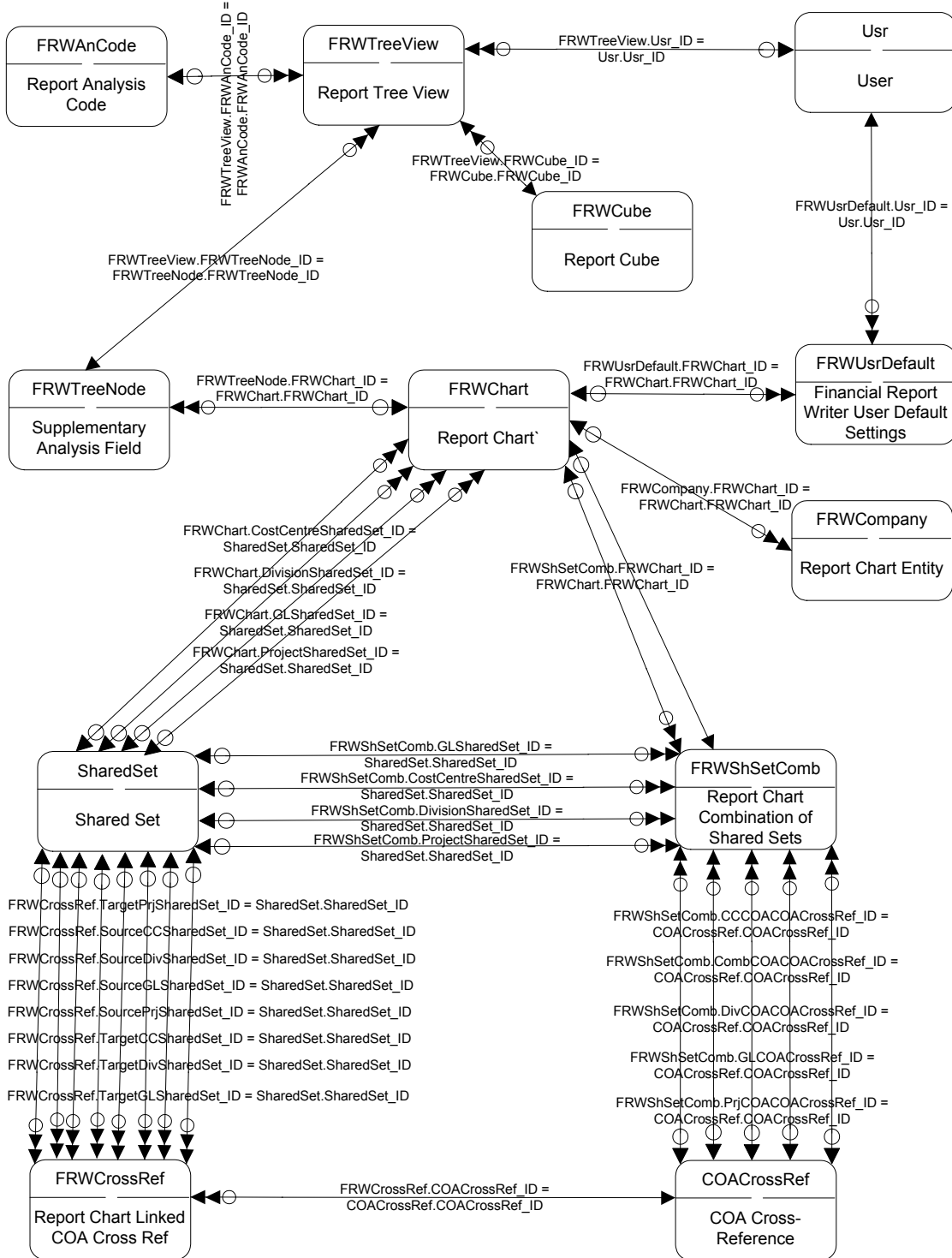
## Exchange Rate Integration in Exchange Rate Provider



# Financial Report Writer I

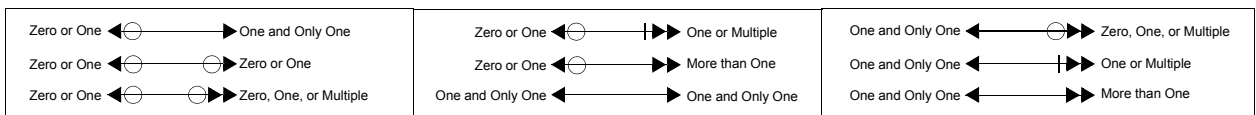
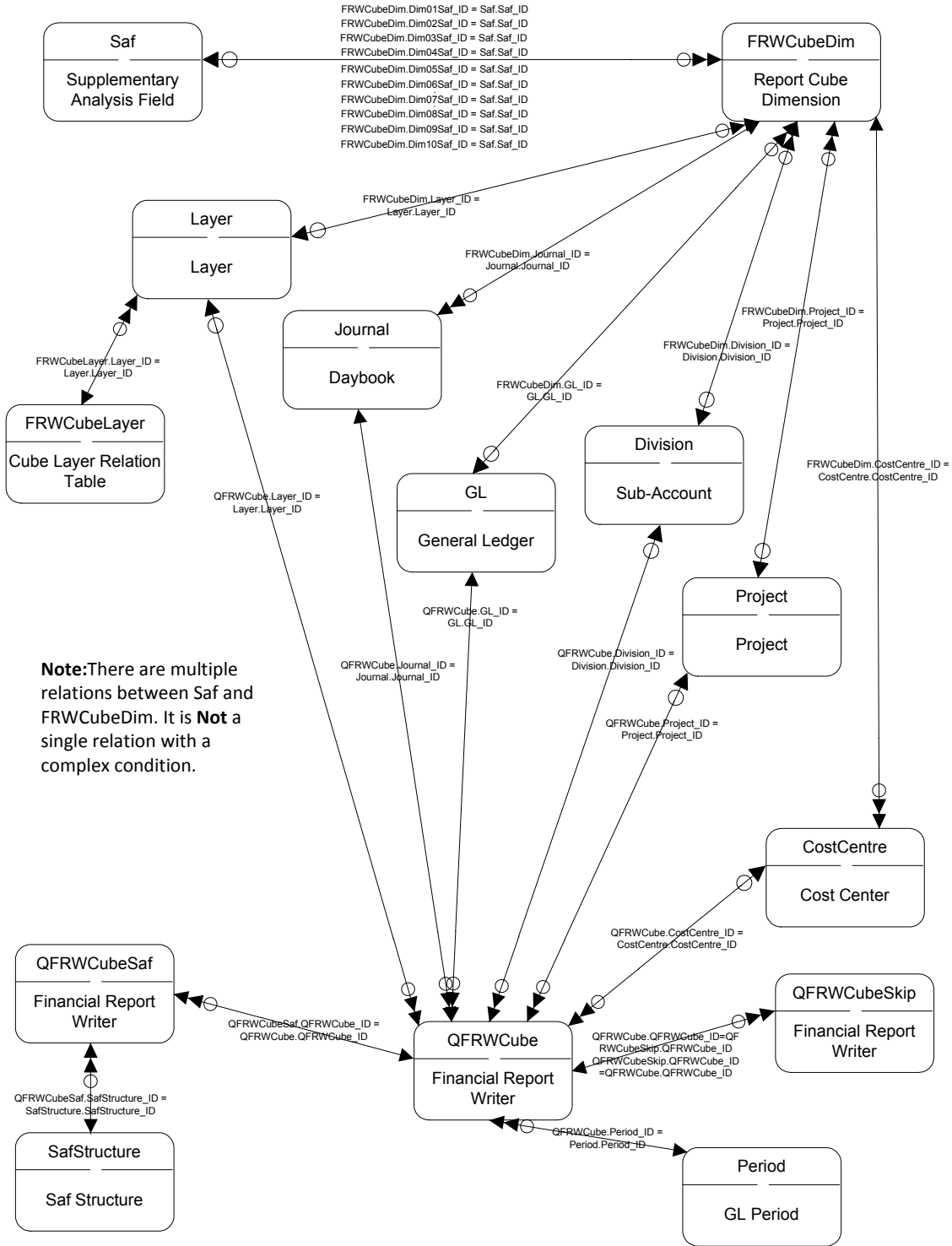


## Financial Report Writer II

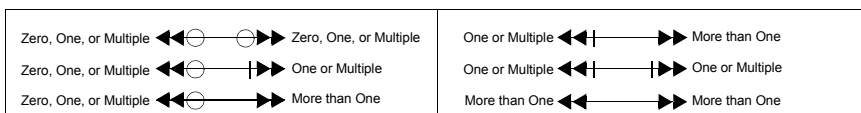
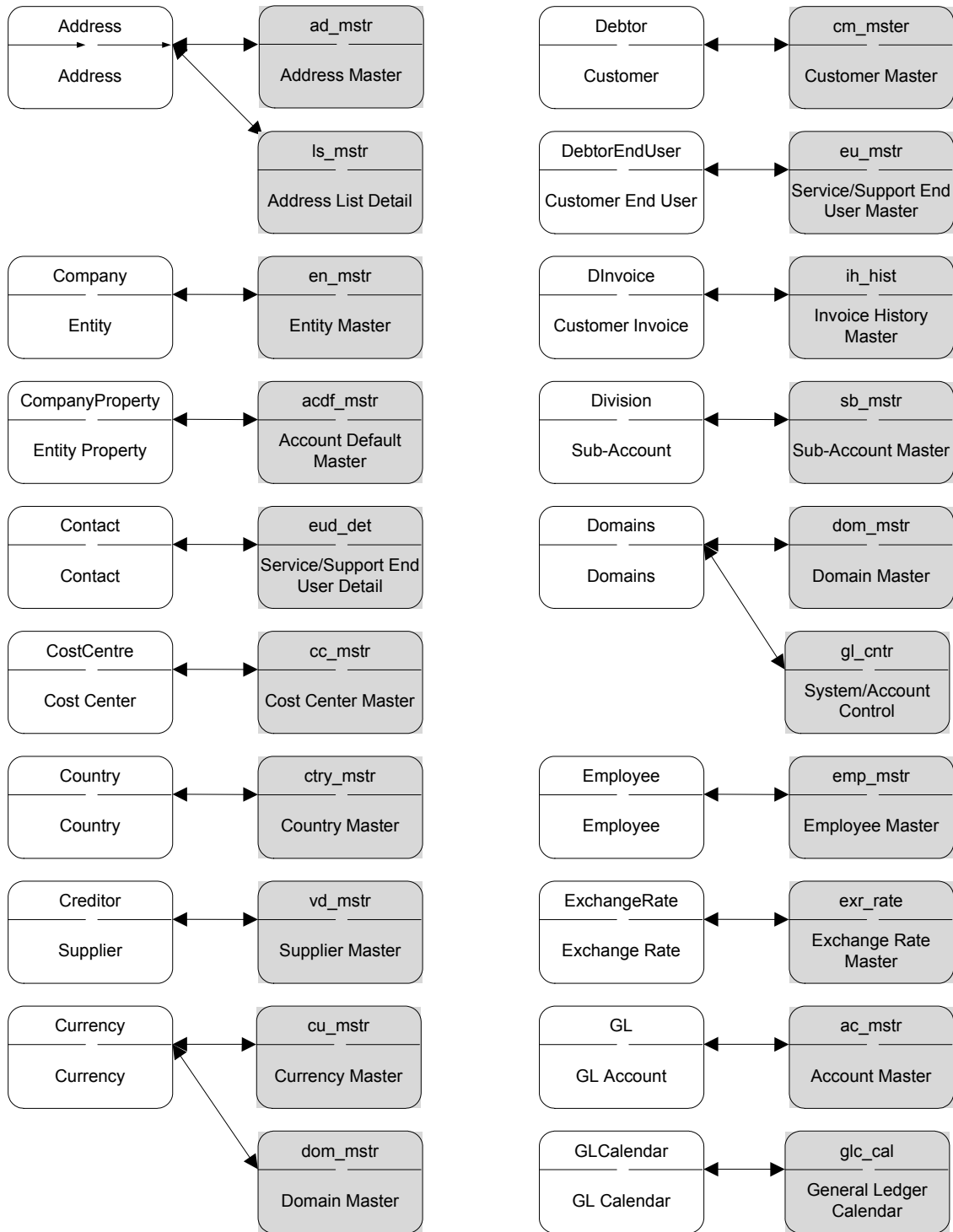




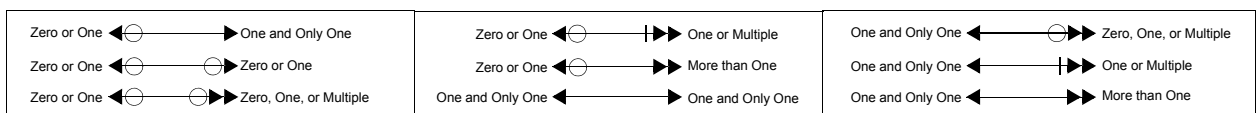
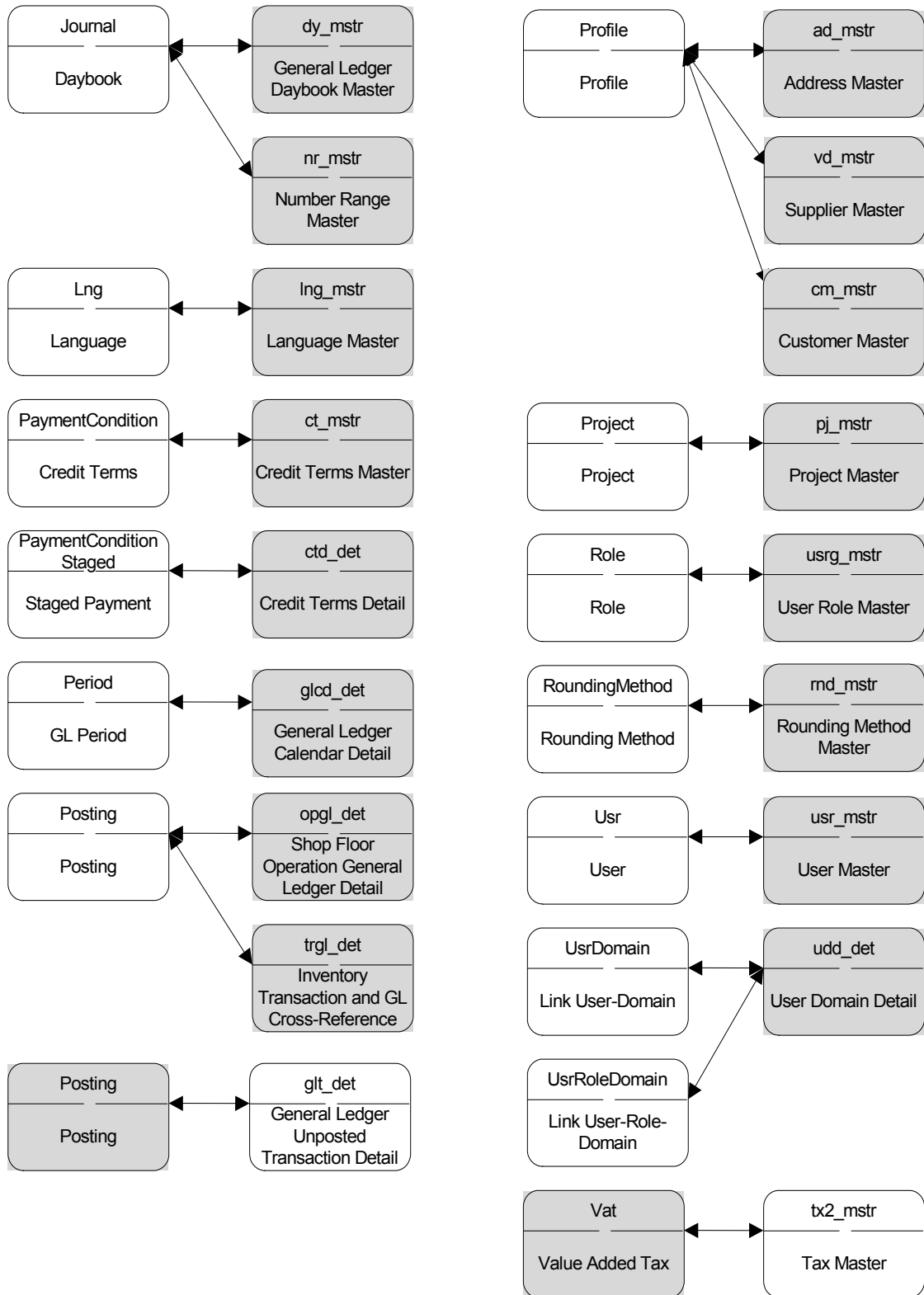
# Financial Report Writer IV



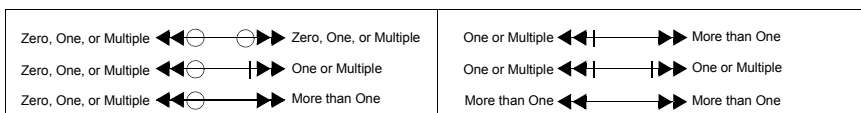
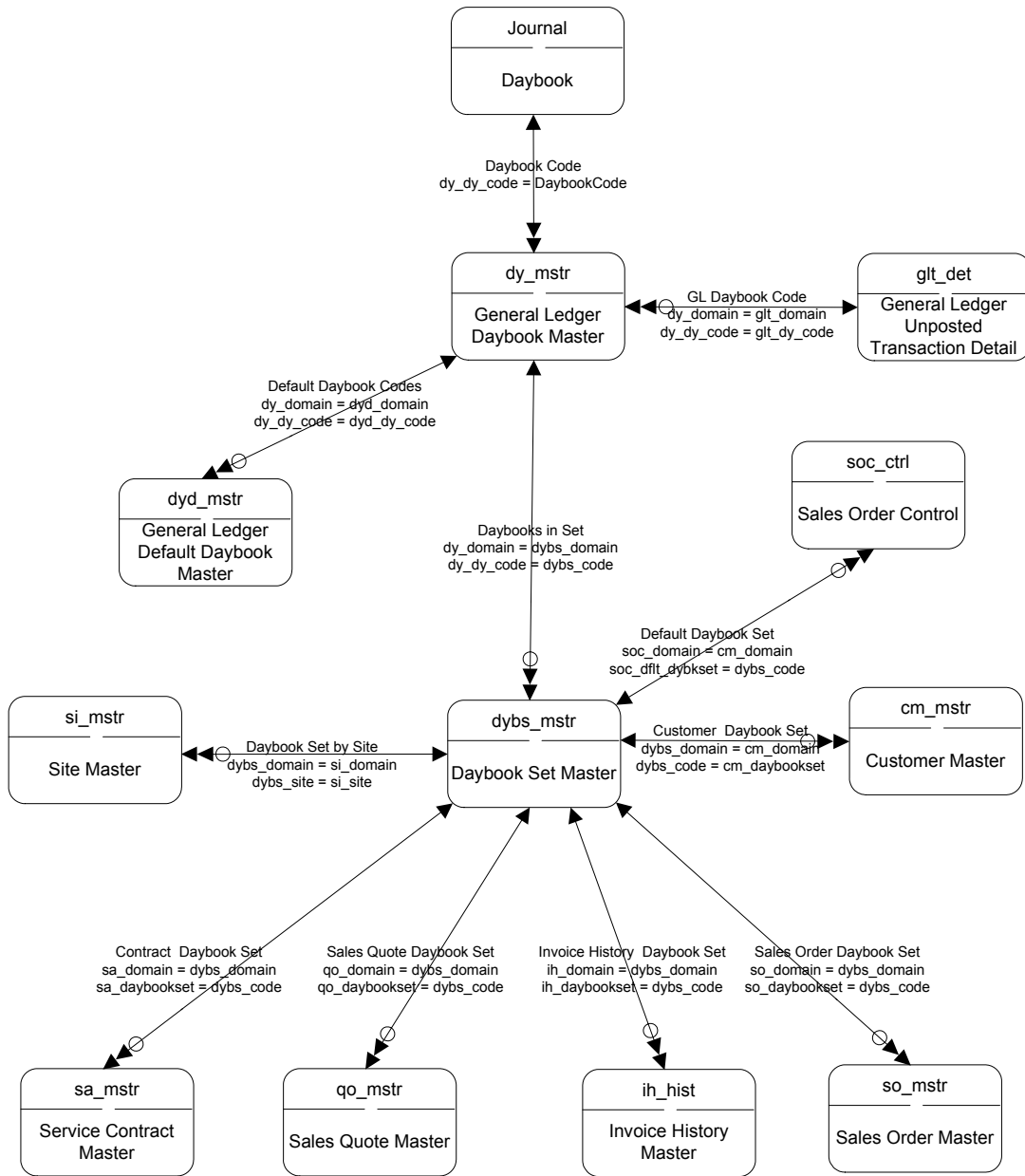
## Financials vs Operations Replication I



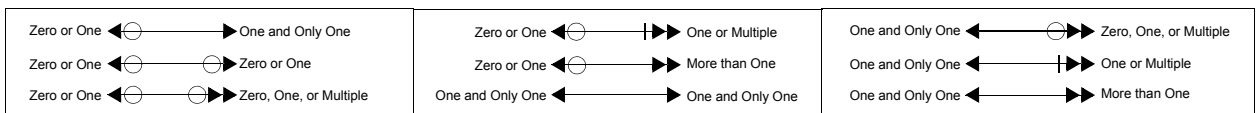
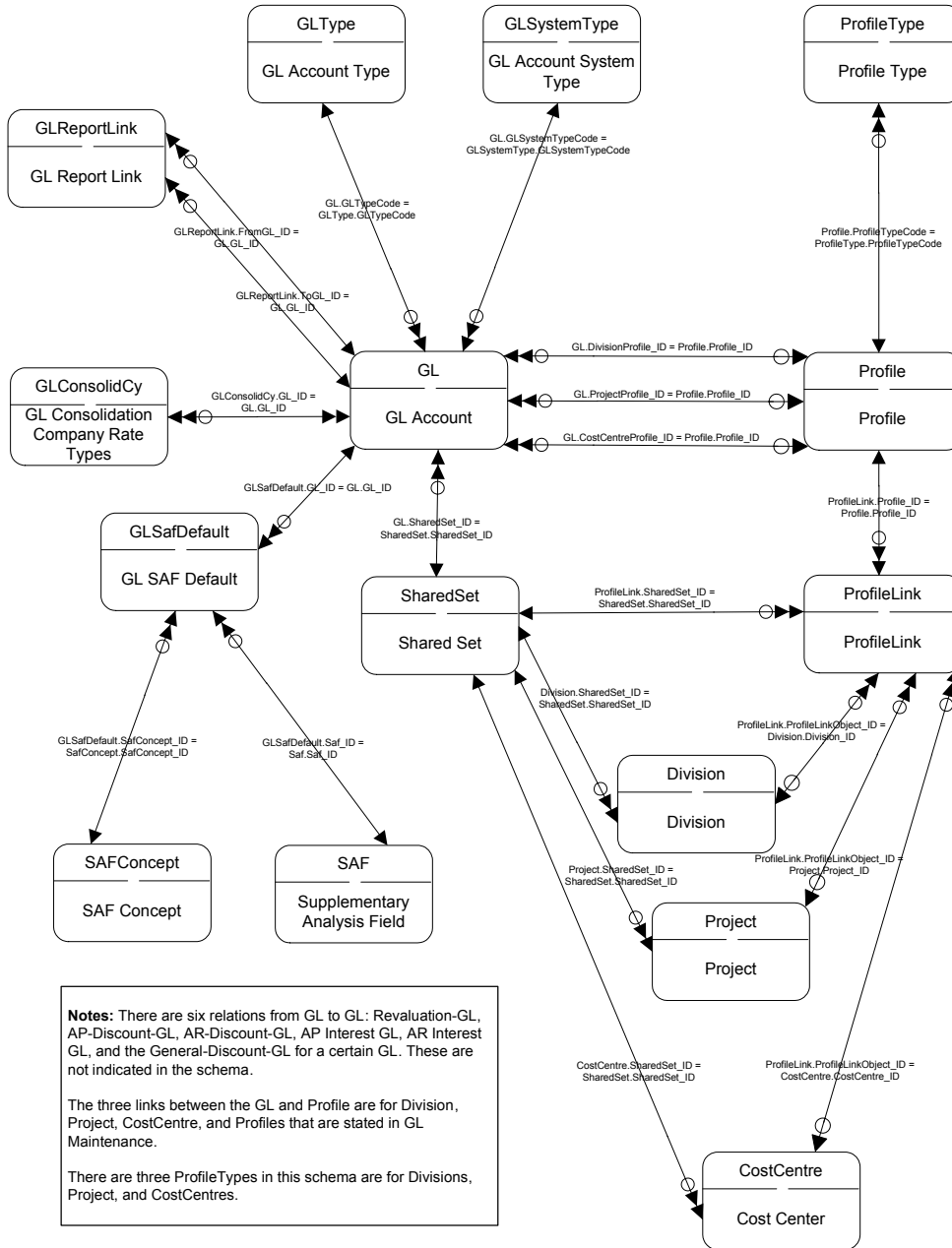
## Financials vs Operations Replication II



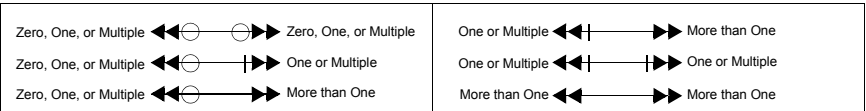
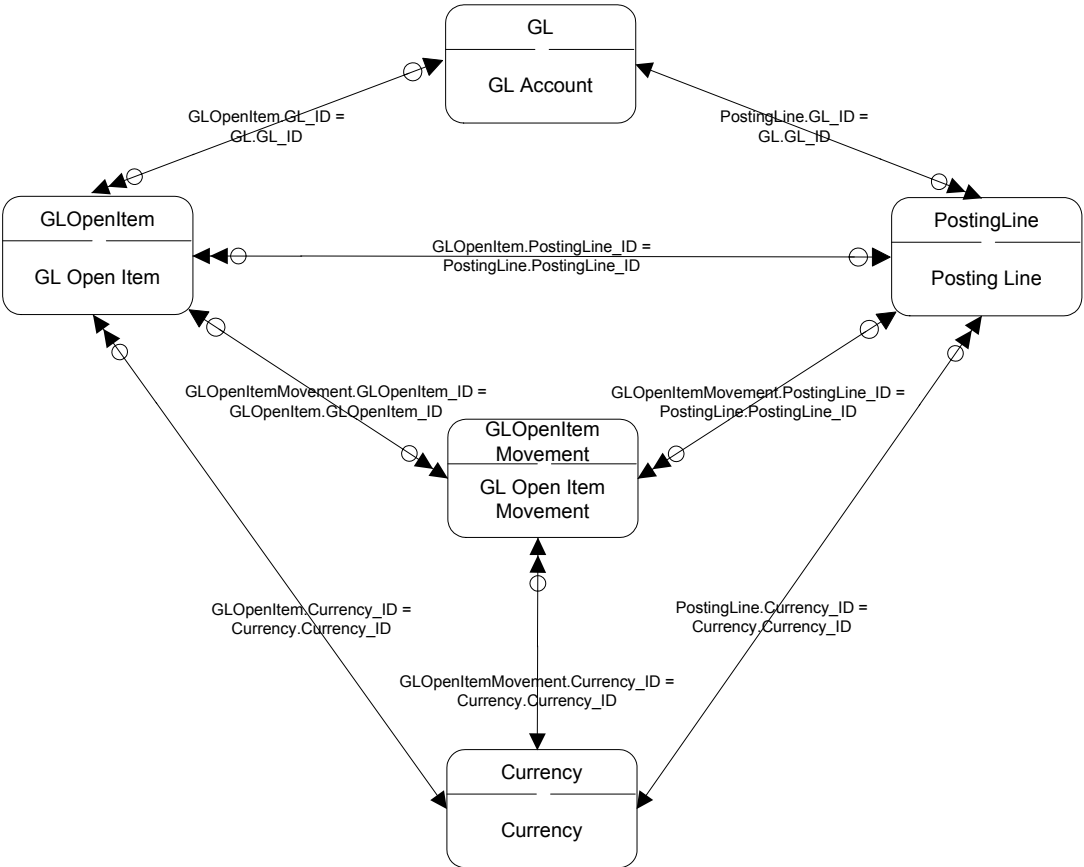
# General Ledger Daybooks



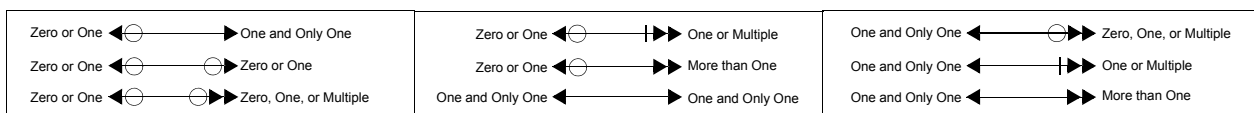
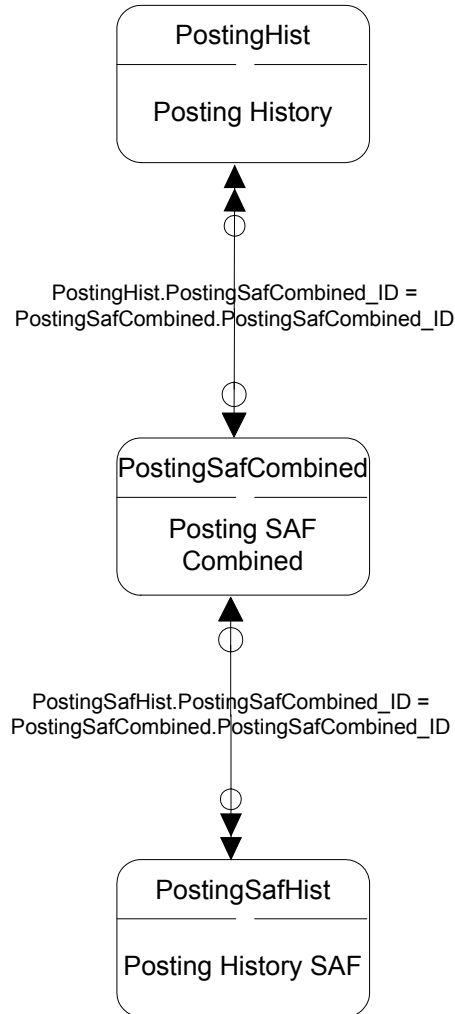
# GL Account



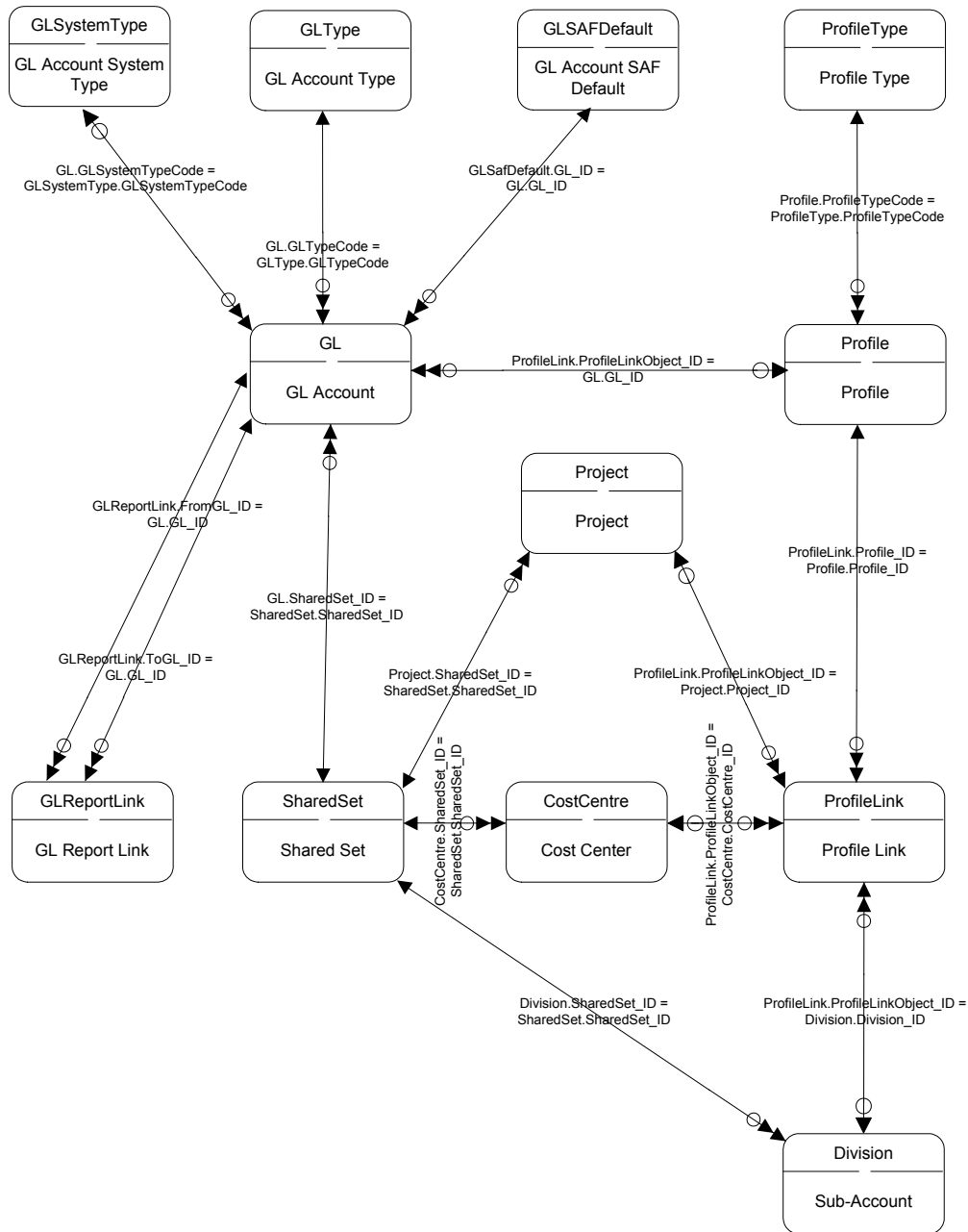
# GL Open Item



## GL Posting History

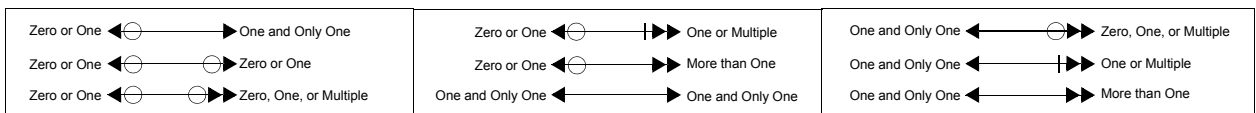
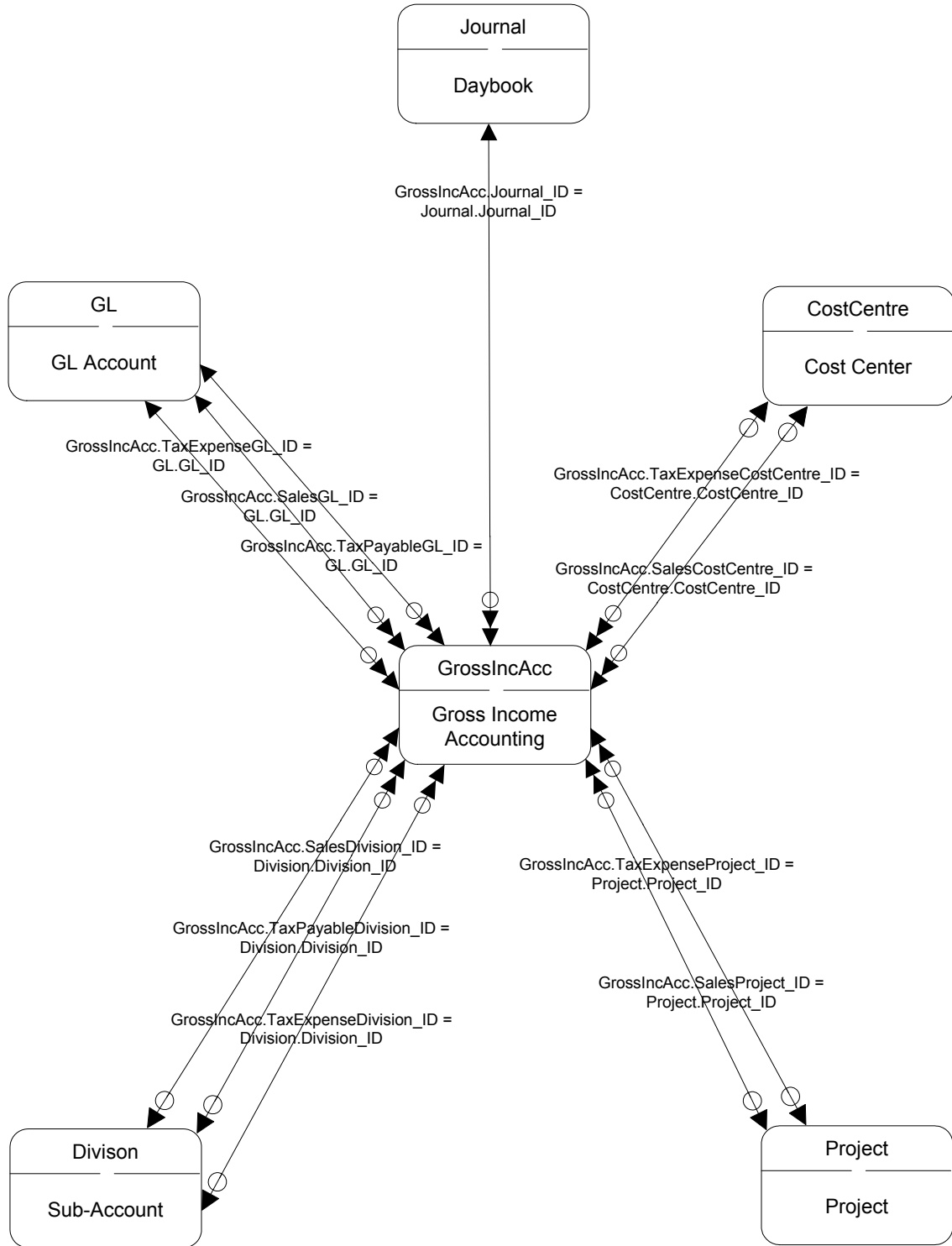


# GL Setup

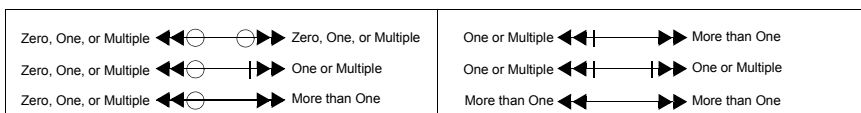
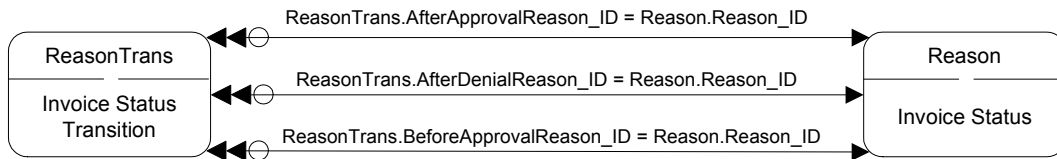


Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple	One or Multiple	◀◀	▶▶	More than One
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple	One or Multiple	◀◀	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One	More than One	◀◀	▶▶	More than One

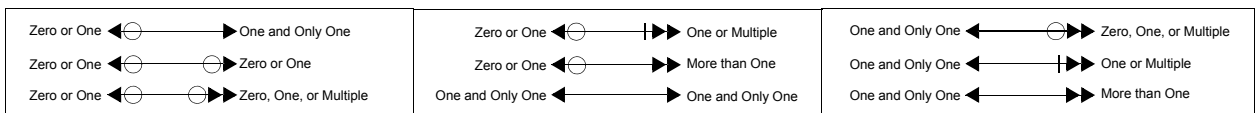
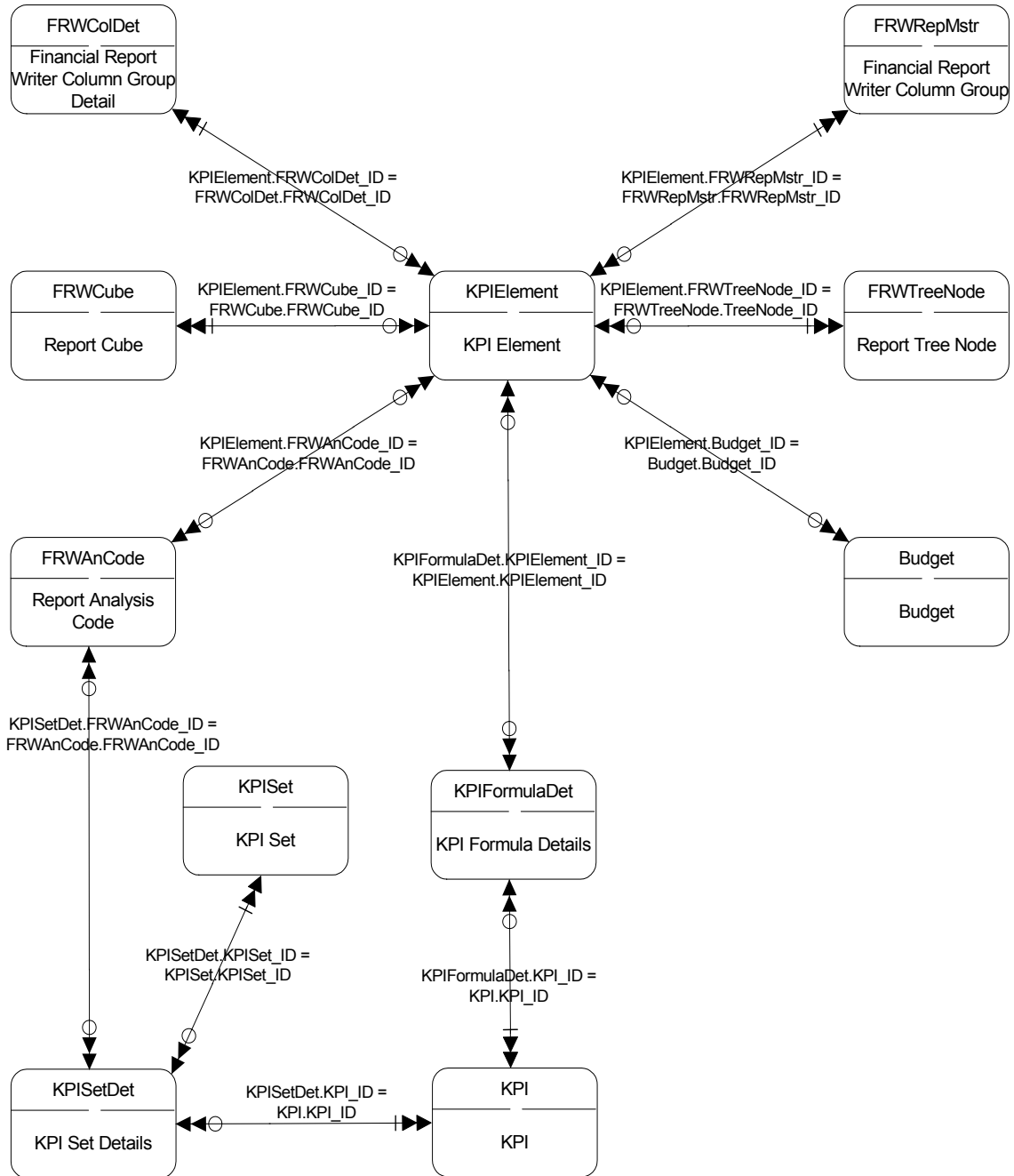
## Gross Income Accounting



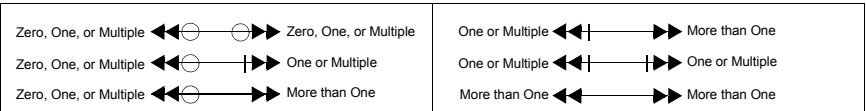
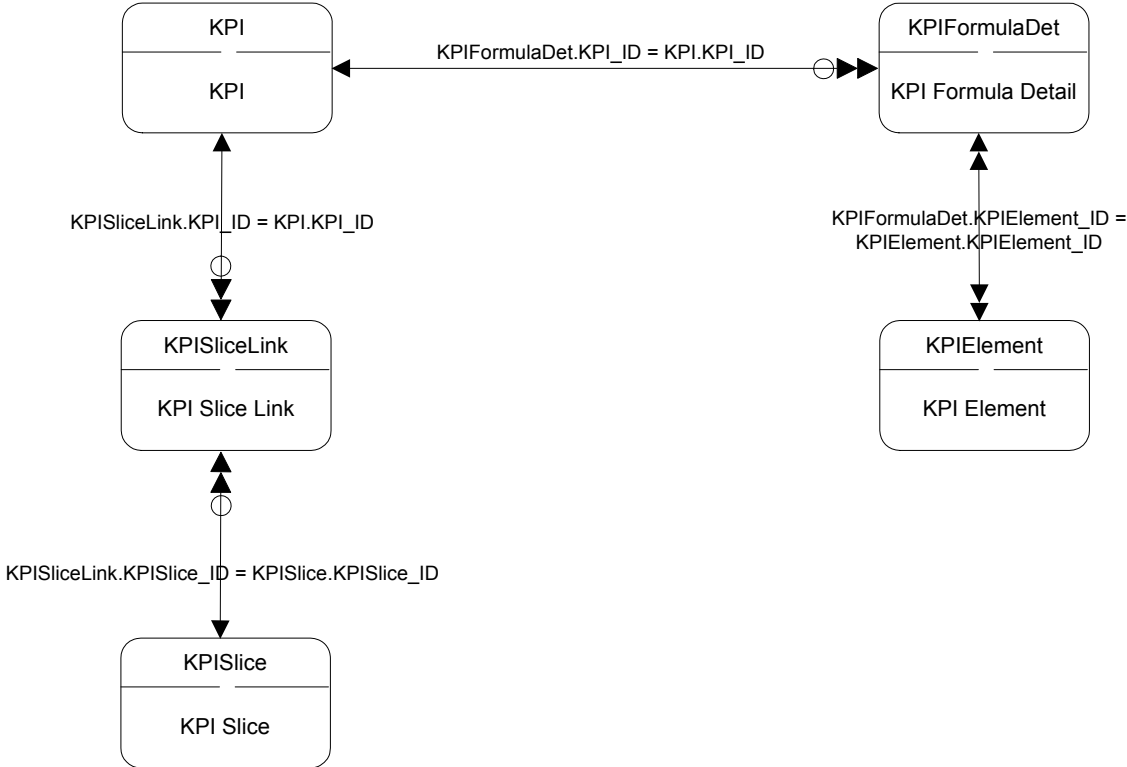
# Invoice Status Transition



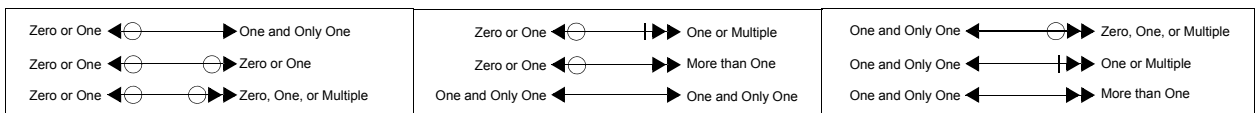
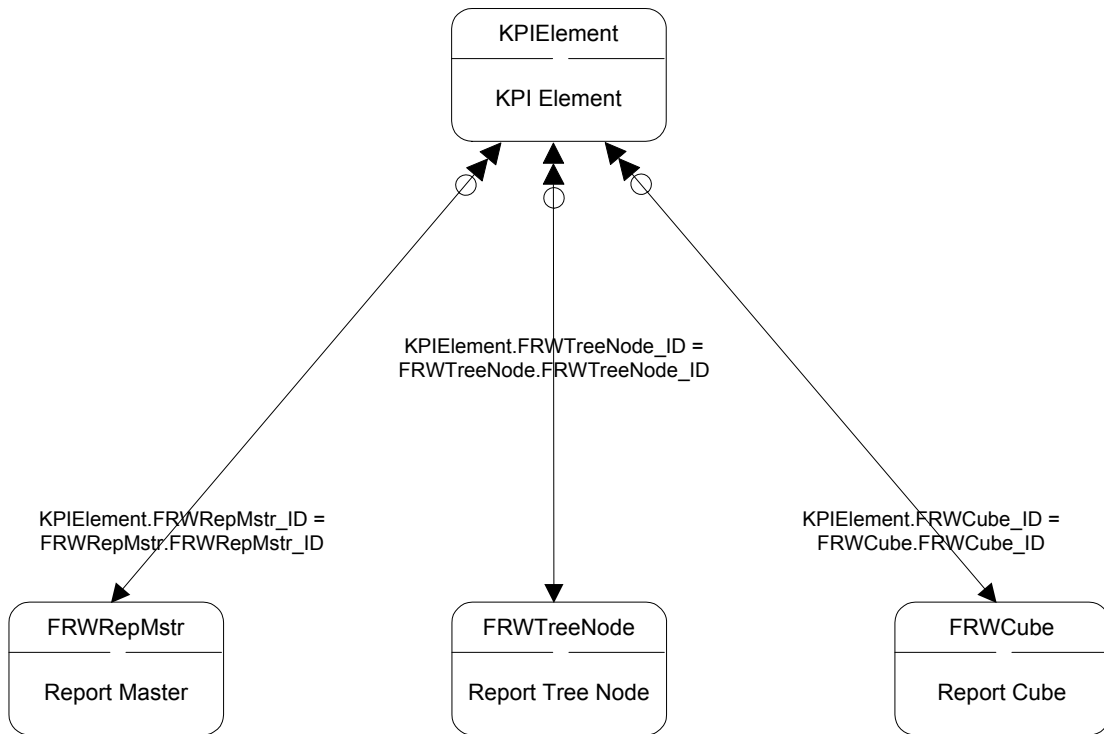
# KPI



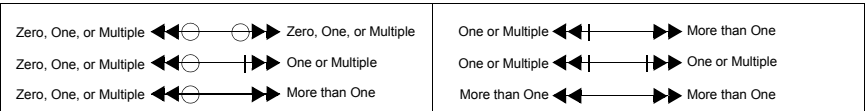
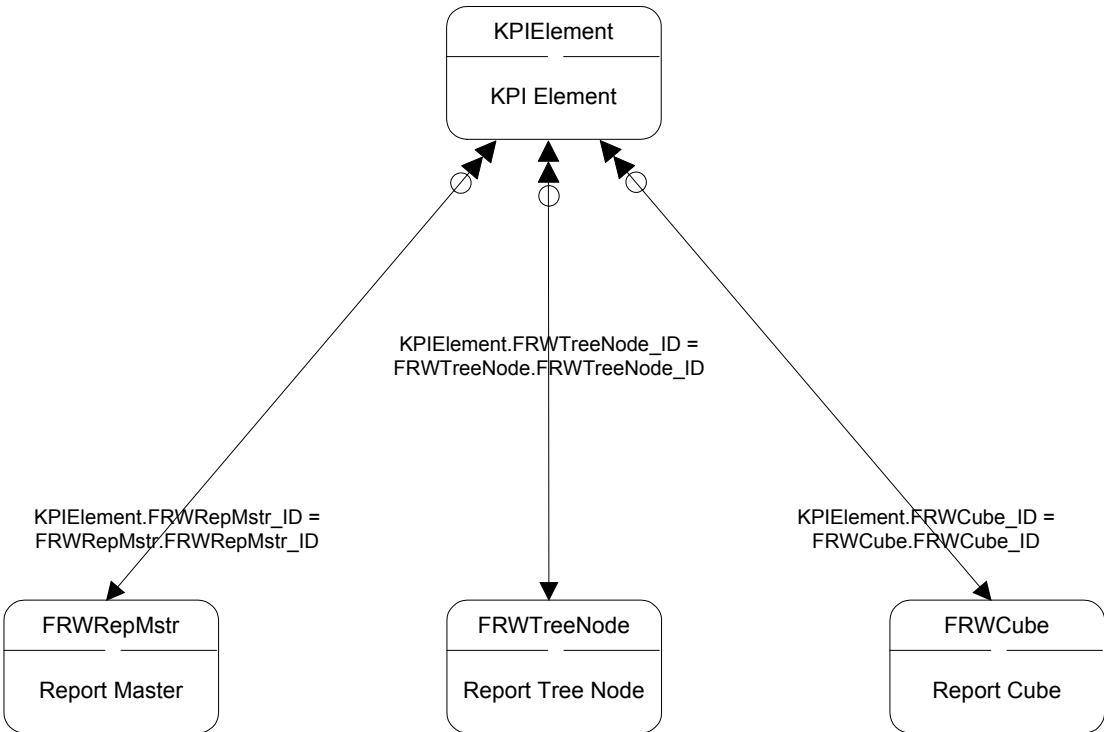
# KPI II



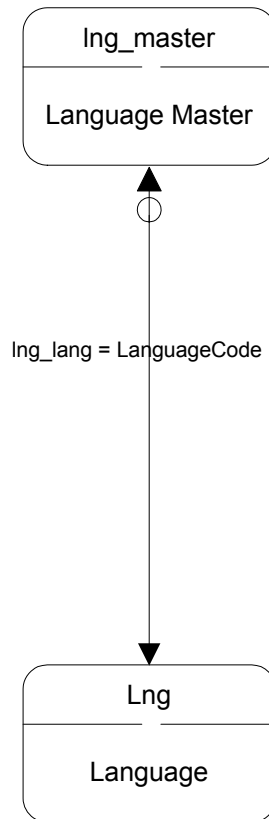
## KPI Element



# KPI Slice

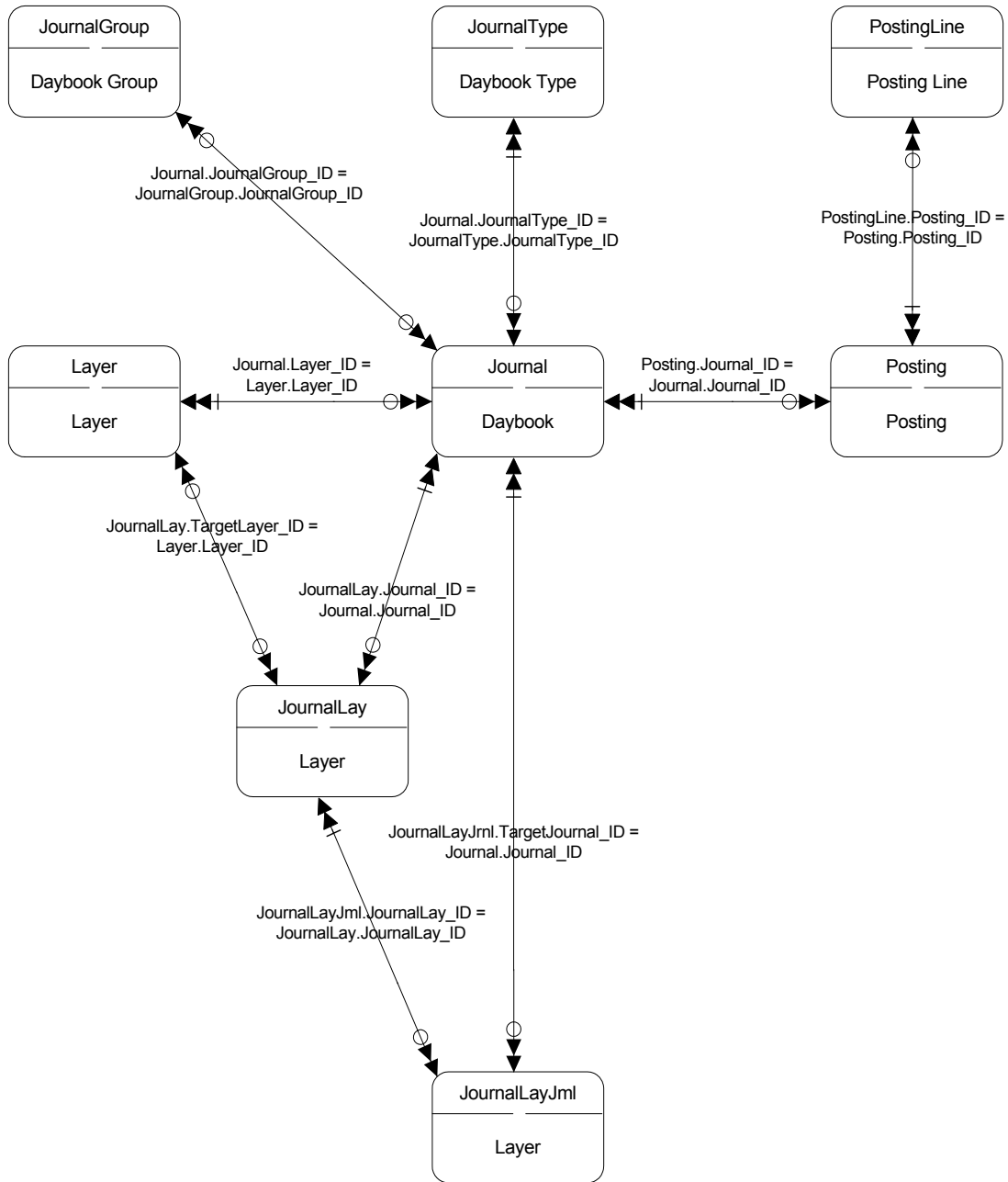


# Language



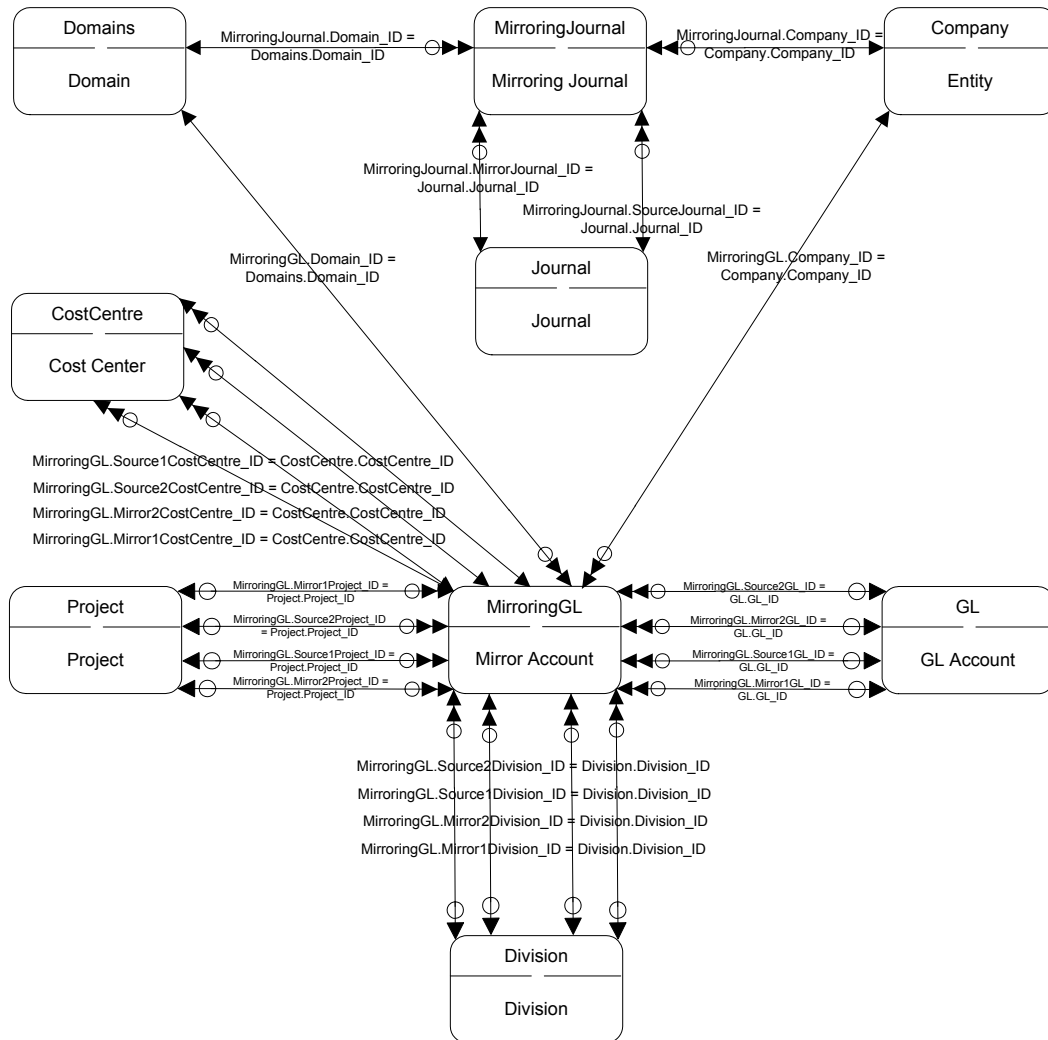
Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One Zero or One $\leftarrow \ominus \ominus \longrightarrow$ Zero or One Zero or One $\leftarrow \ominus \ominus \longrightarrow$ Zero, One, or Multiple	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple Zero or One $\leftarrow \ominus \dashv \longrightarrow$ More than One One and Only One $\leftarrow \ominus \dashv \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple One and Only One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple One and Only One $\leftarrow \ominus \dashv \longrightarrow$ More than One
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## Layer Transfer



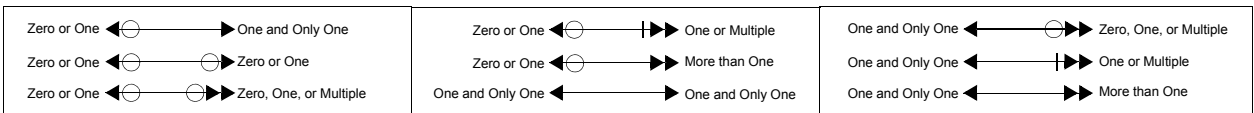
Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple	One or Multiple	◀◀	▶▶	More than One
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple	One or Multiple	◀◀	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One	More than One	◀◀	▶▶	More than One

# Mirror Accounting

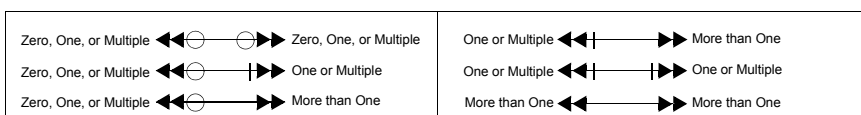
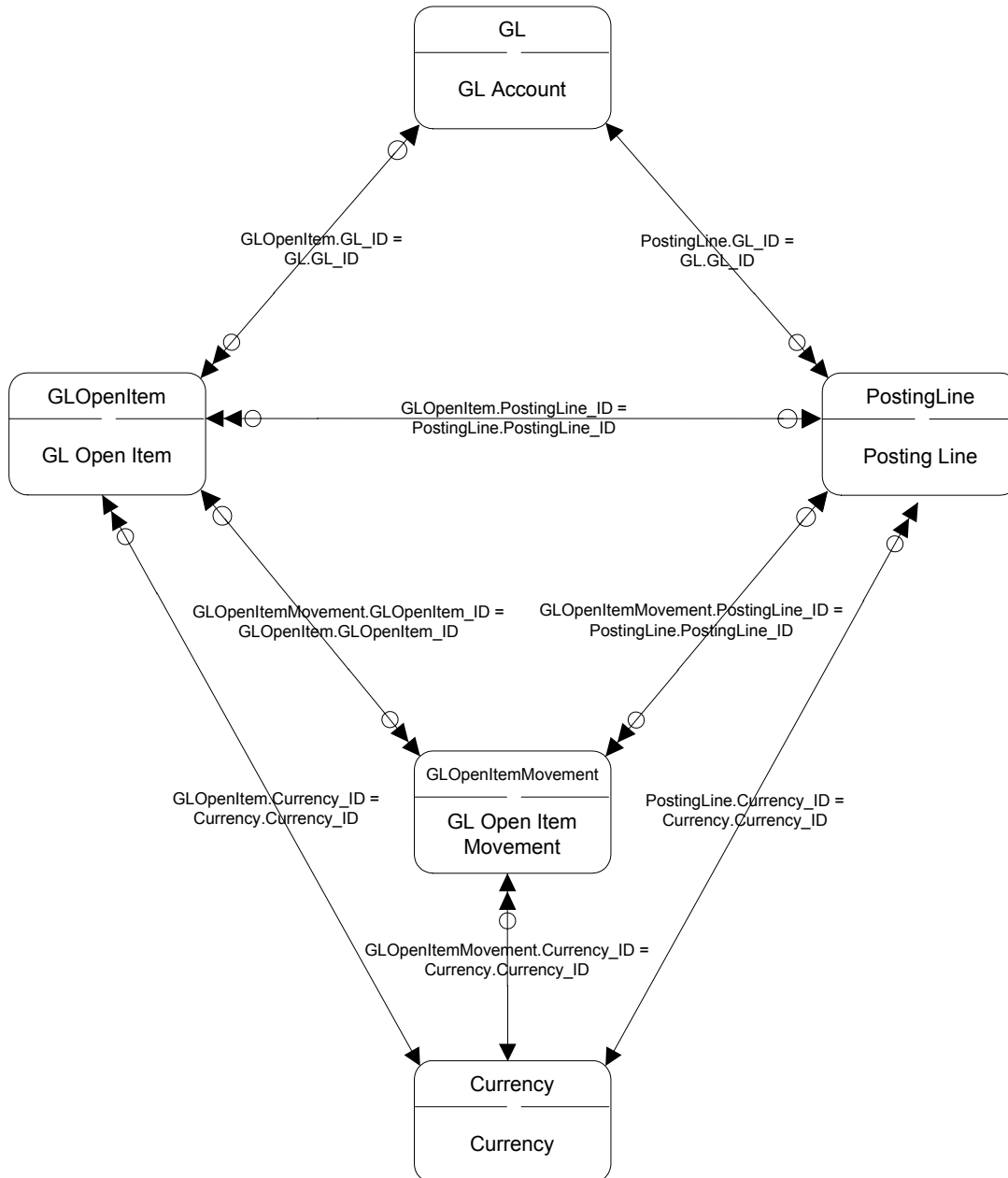


**Notes:** MirroringGL has four relationships to GL, Division, CostCentre, and Project. For Source 1, Source 2, Mirror1, and Mirror2.

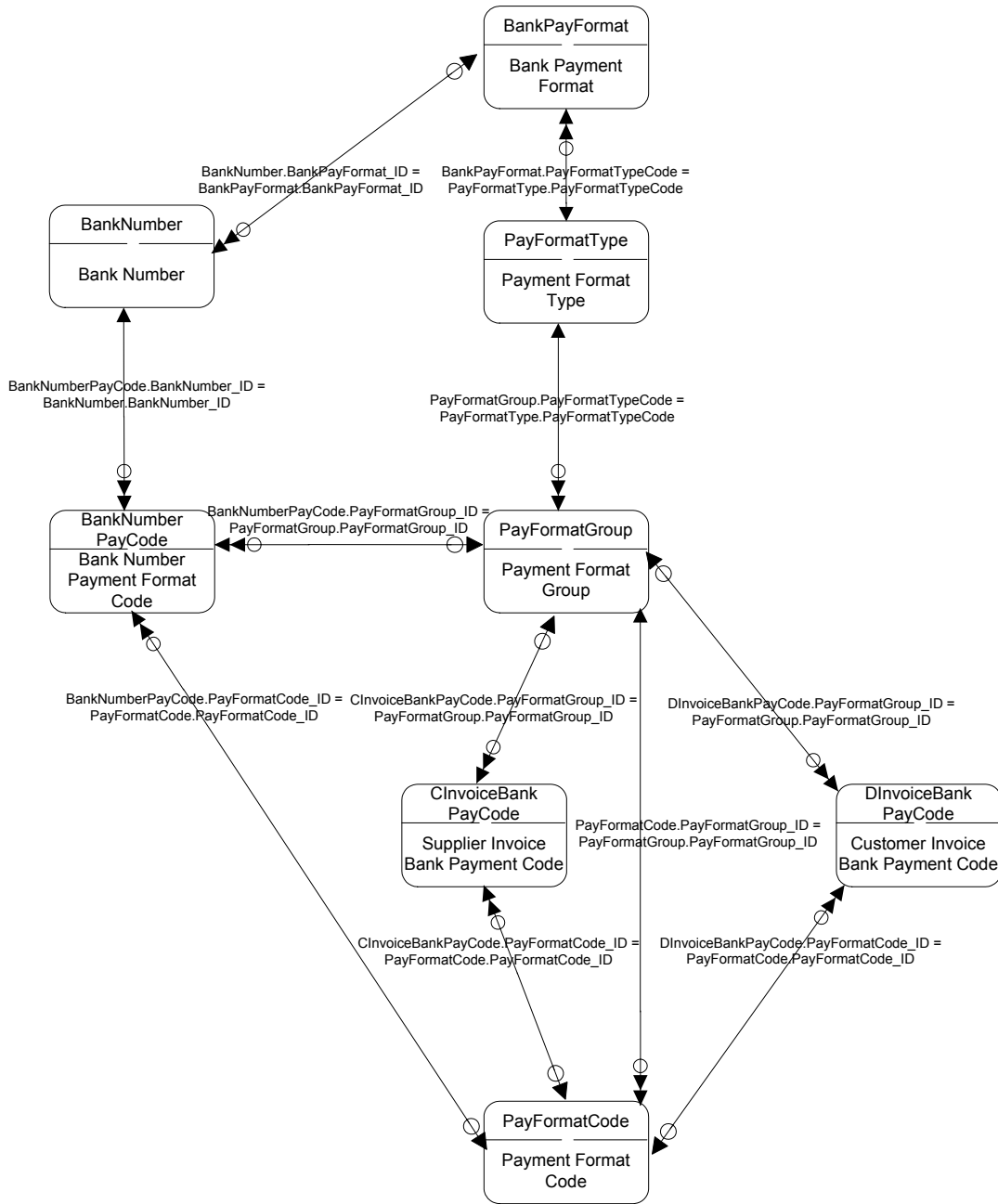
MirroringJournal has two relationships to Journal; one for SourceJournal and one for MirrorJournal.



# Open Item Adjustment

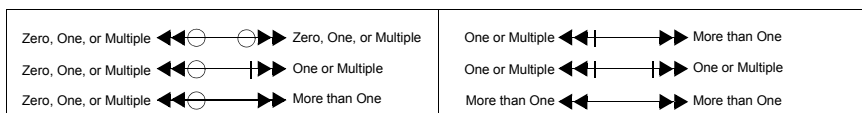
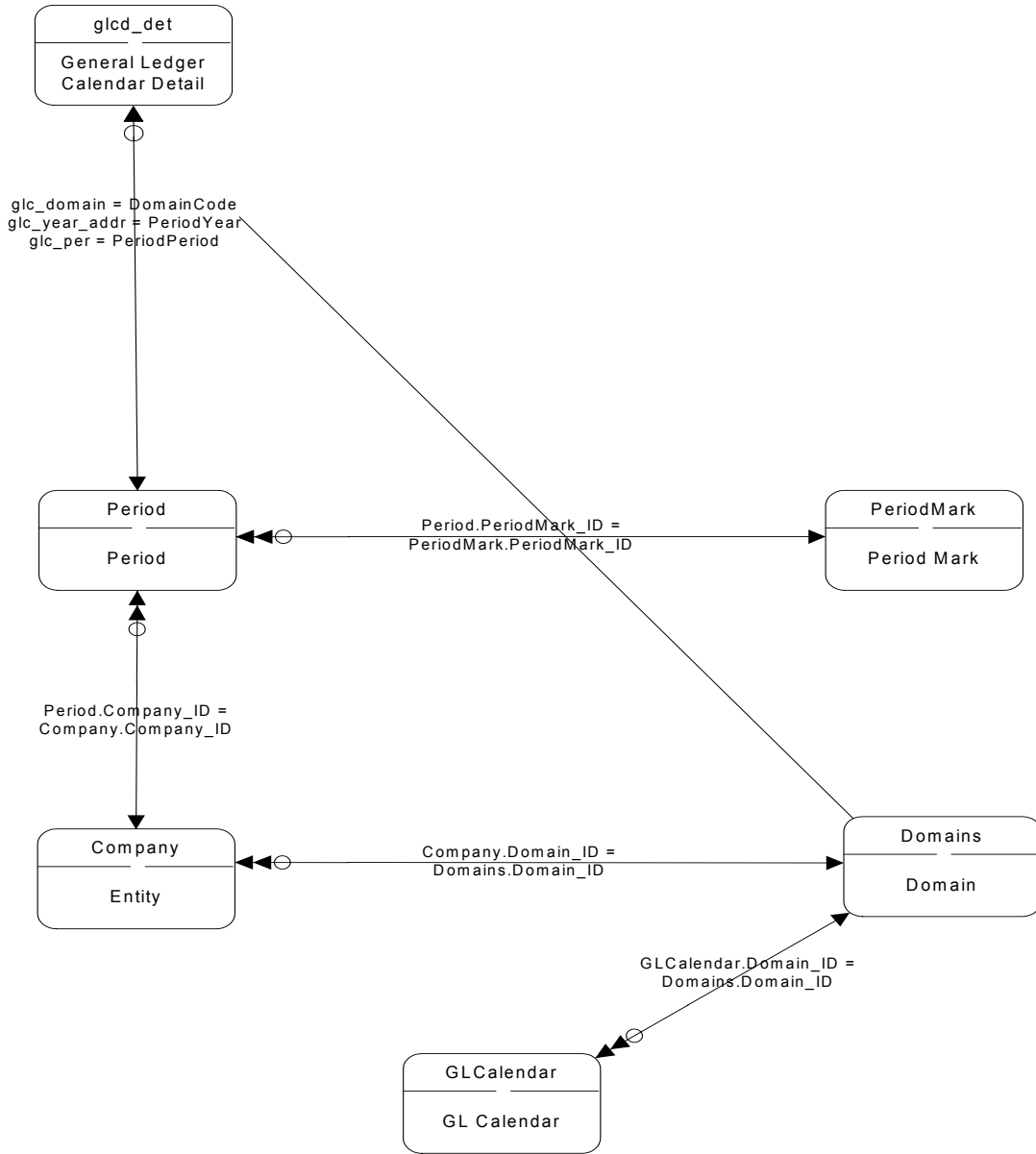


# Payment Formats

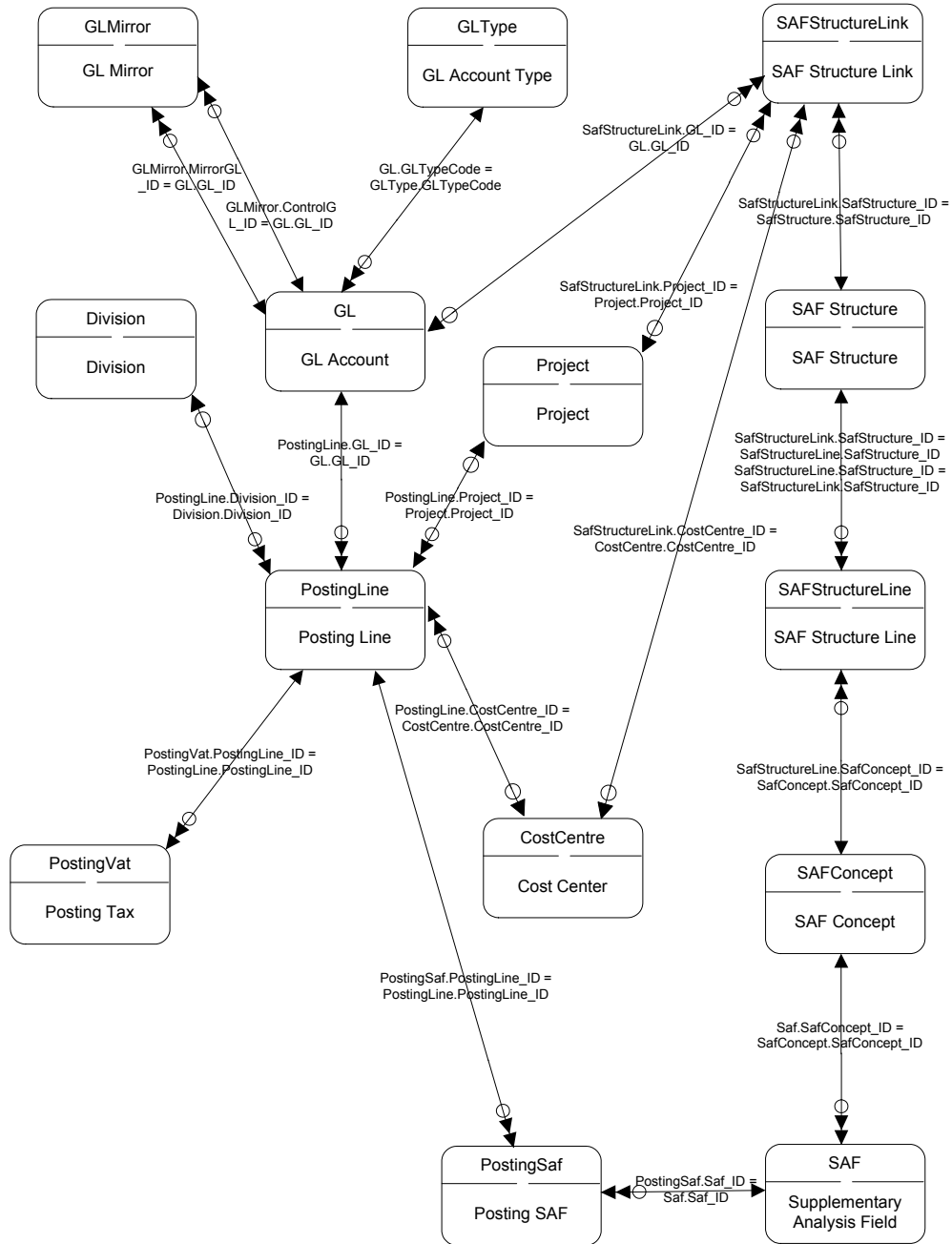


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \circ$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ More than One

# Period

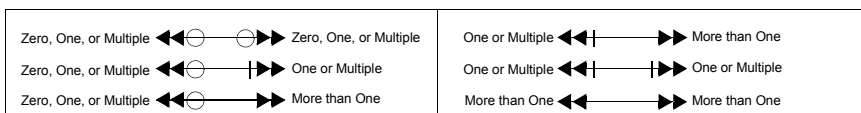
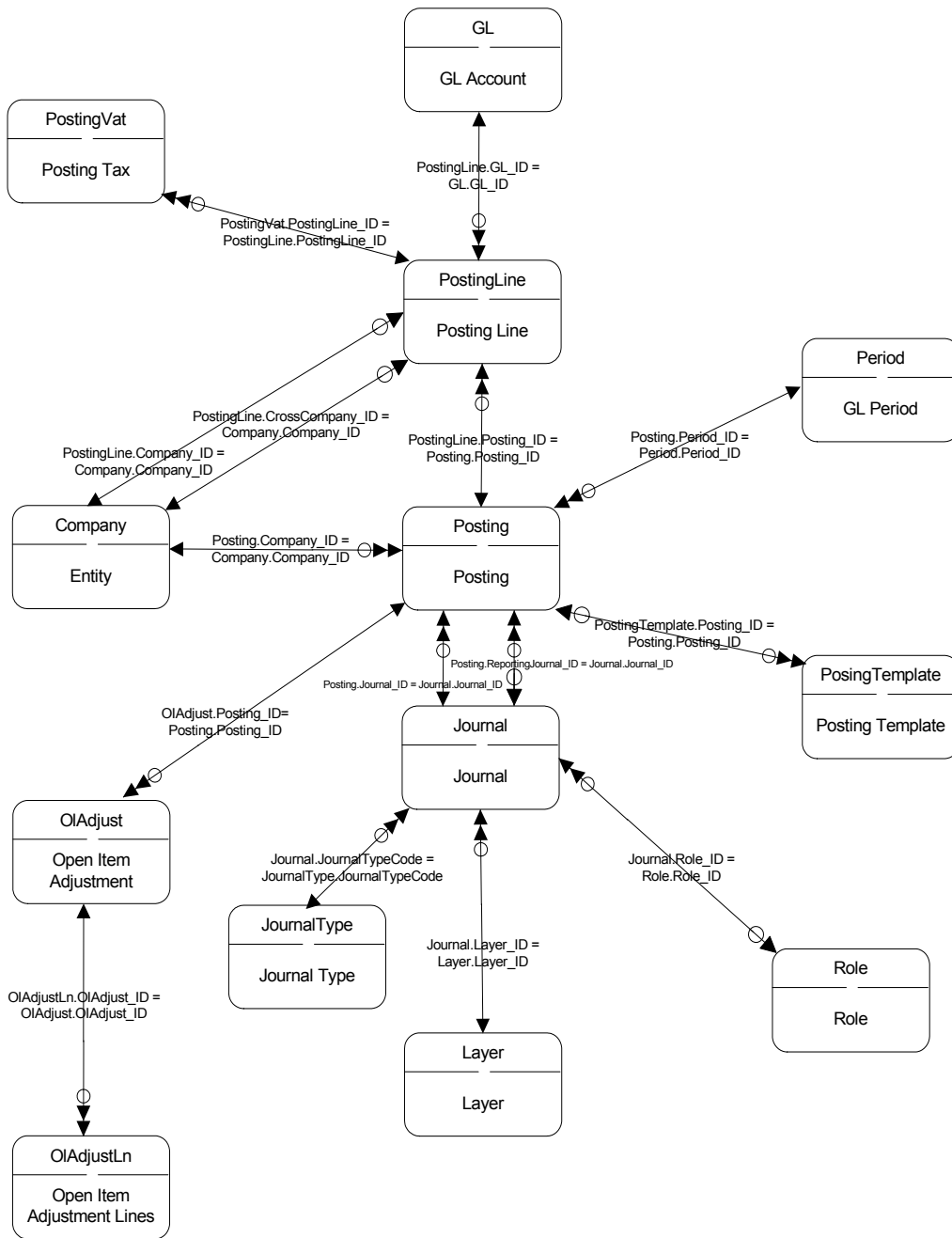


# Posting I



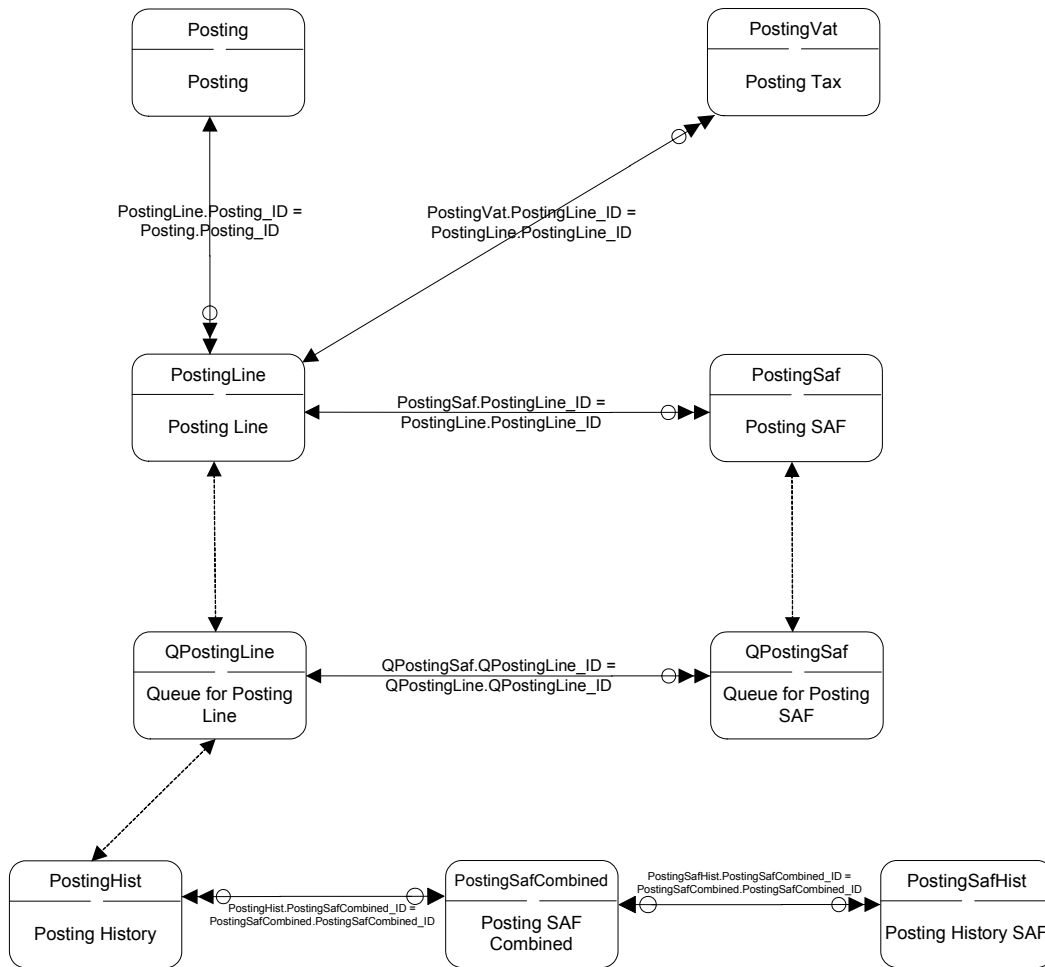
Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow \circ$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \rightarrow$ More than One

# Posting II





# Posting History

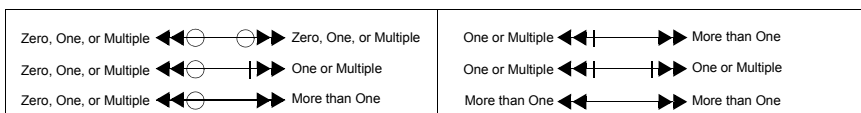


**Notes:** Every QPostingLine is directly linked to a PostingLine and every QPostingSaf is directly linked to a PostingLine although there is no physical relation between the normal tables and the q-variants (to avoid performance overhead).

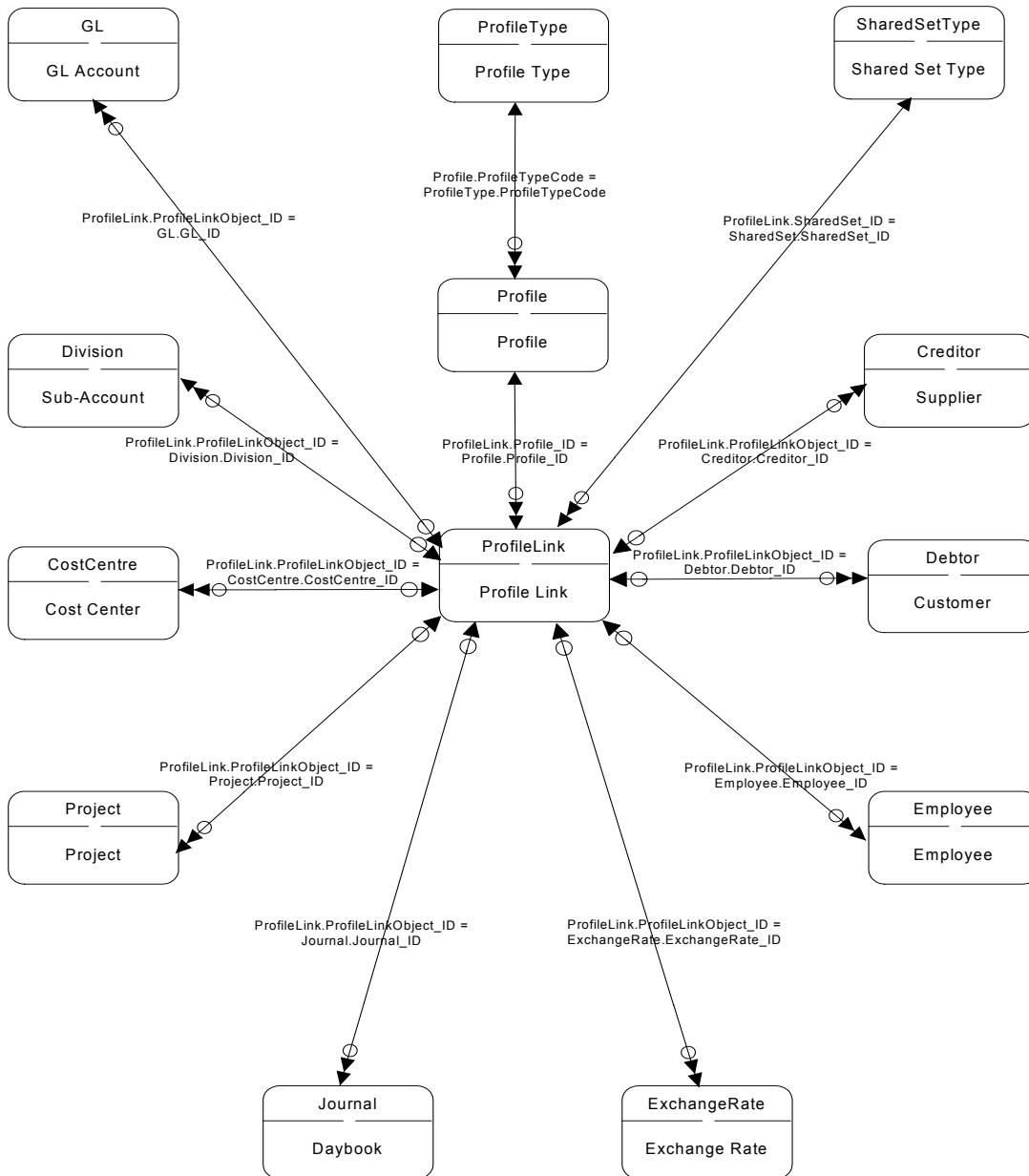
The q-records are created when a posting is created, changed, or modified and is picked up by the history daemon.

QPostingLine and QPostingSaf are created when the posting is created and hold all links to the analytical tables.

The history daemon processes the records that the system deletes once the system adds them to PosthiHist, PostingSafHist, and PostingSafCombined.

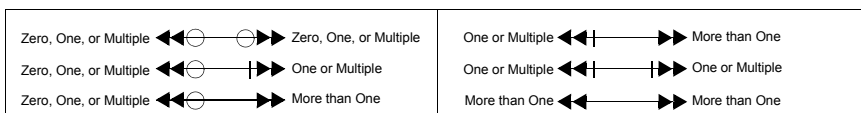
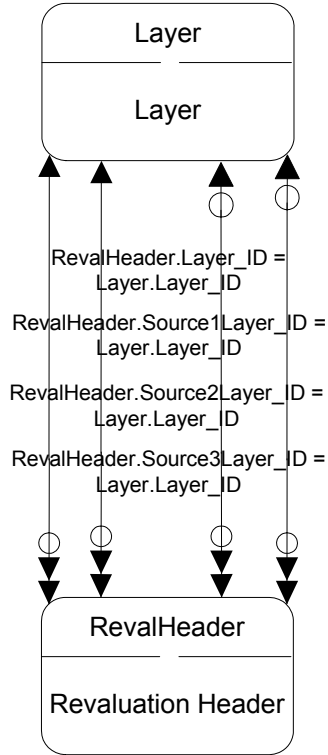


# Profiles

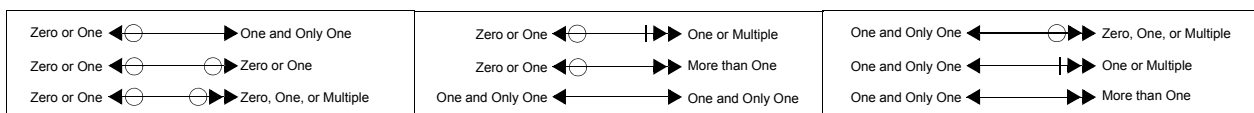
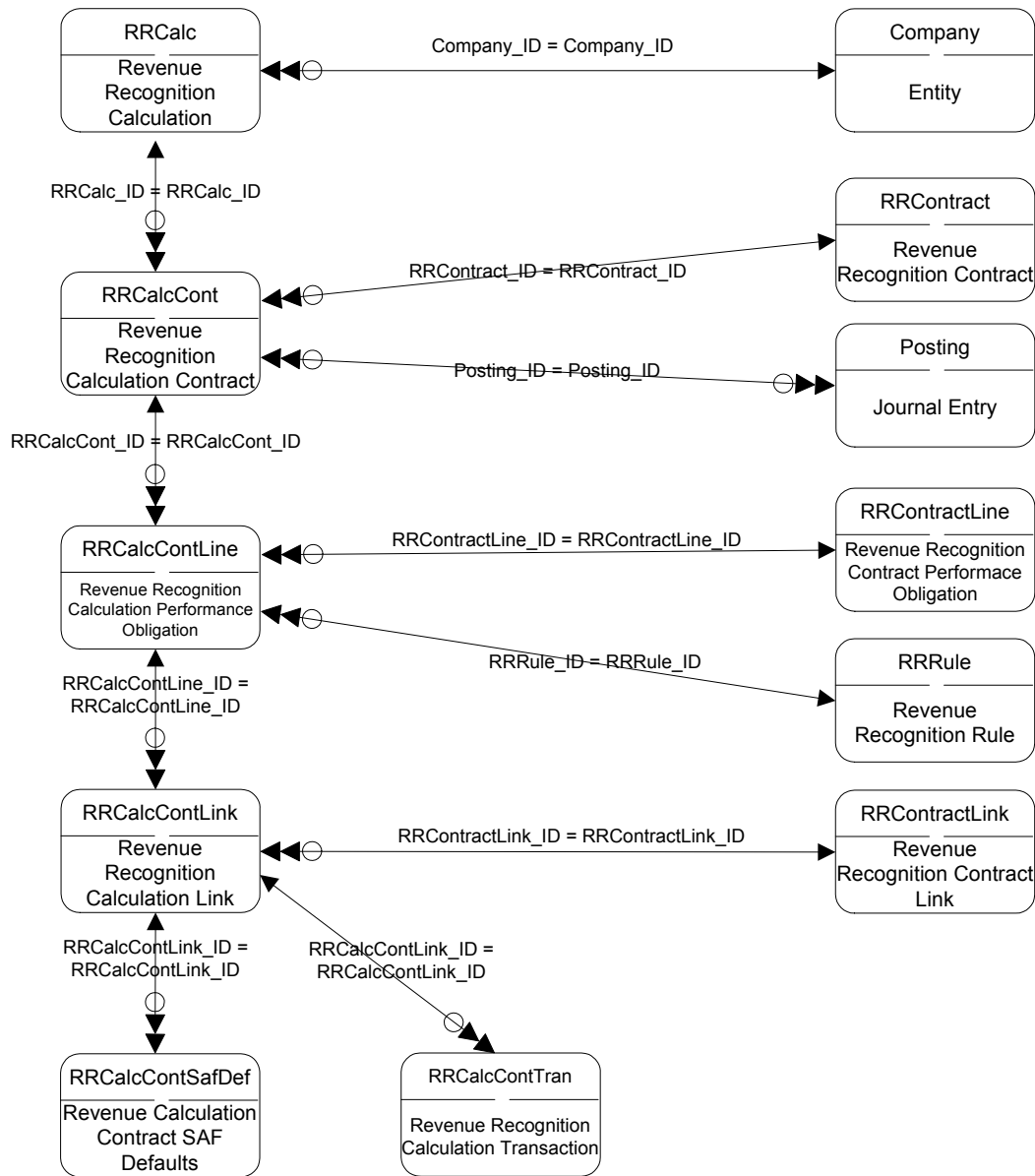


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \rightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \rightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus \dashv$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow \dashv \rightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \rightarrow \dashv \rightarrow$ More than One

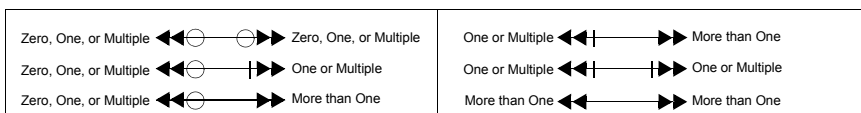
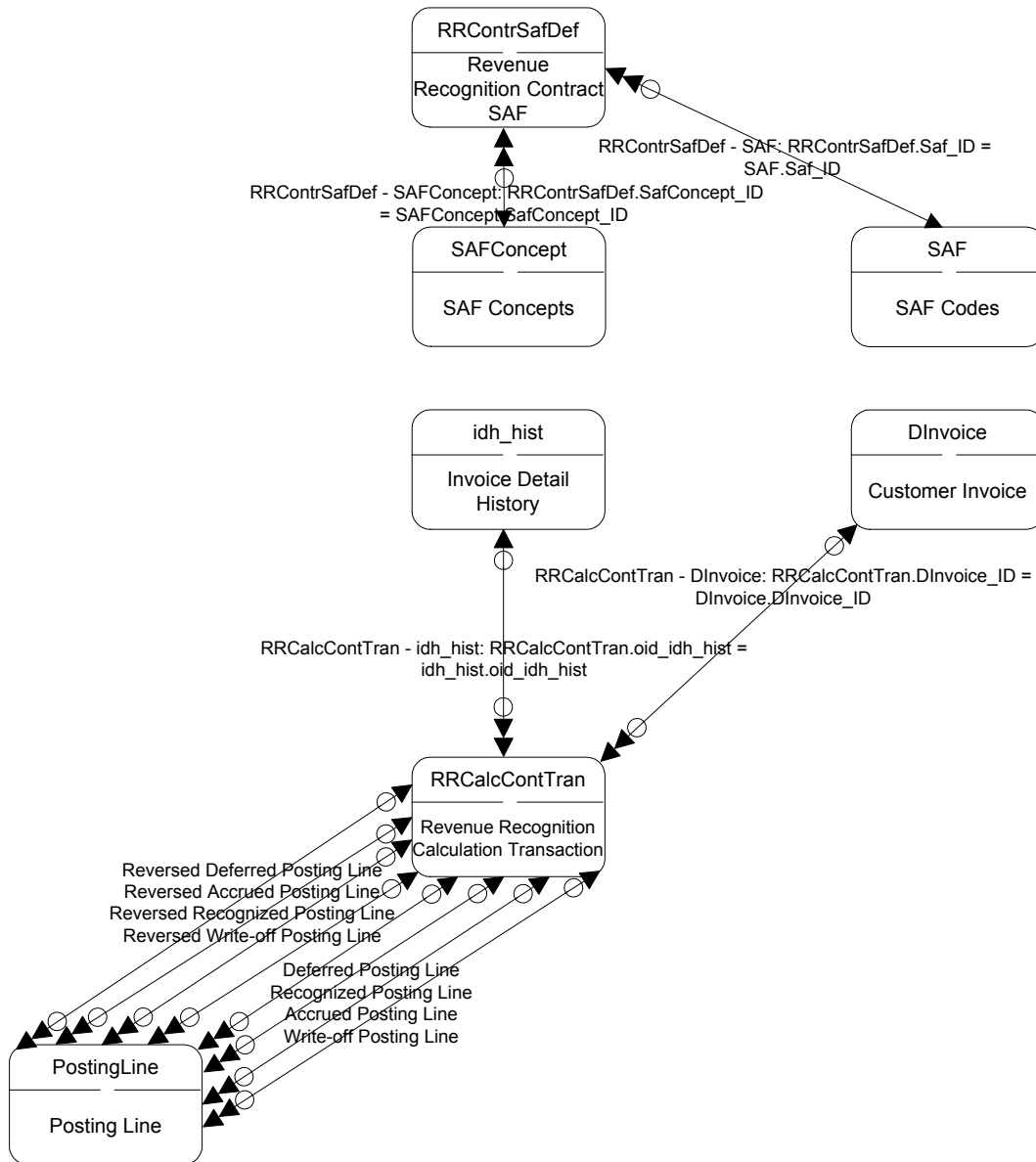
# Revaluations



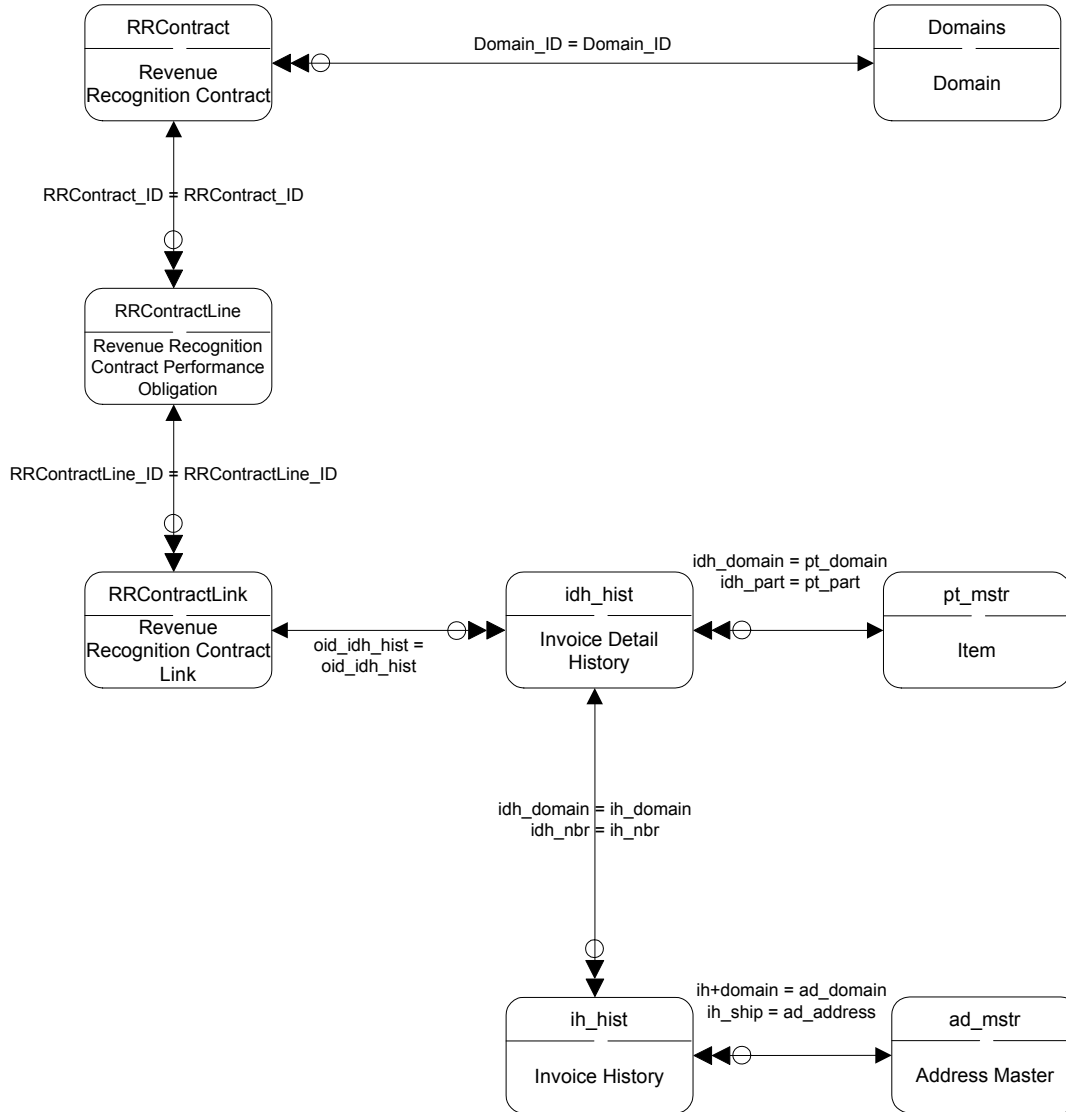
## Revenue Recognition Calculation I



# Revenue Recognition Calculation II

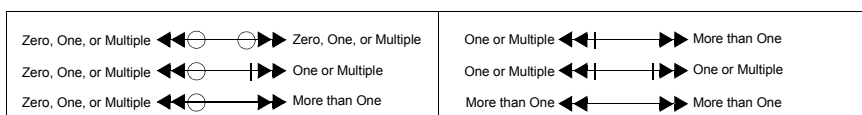
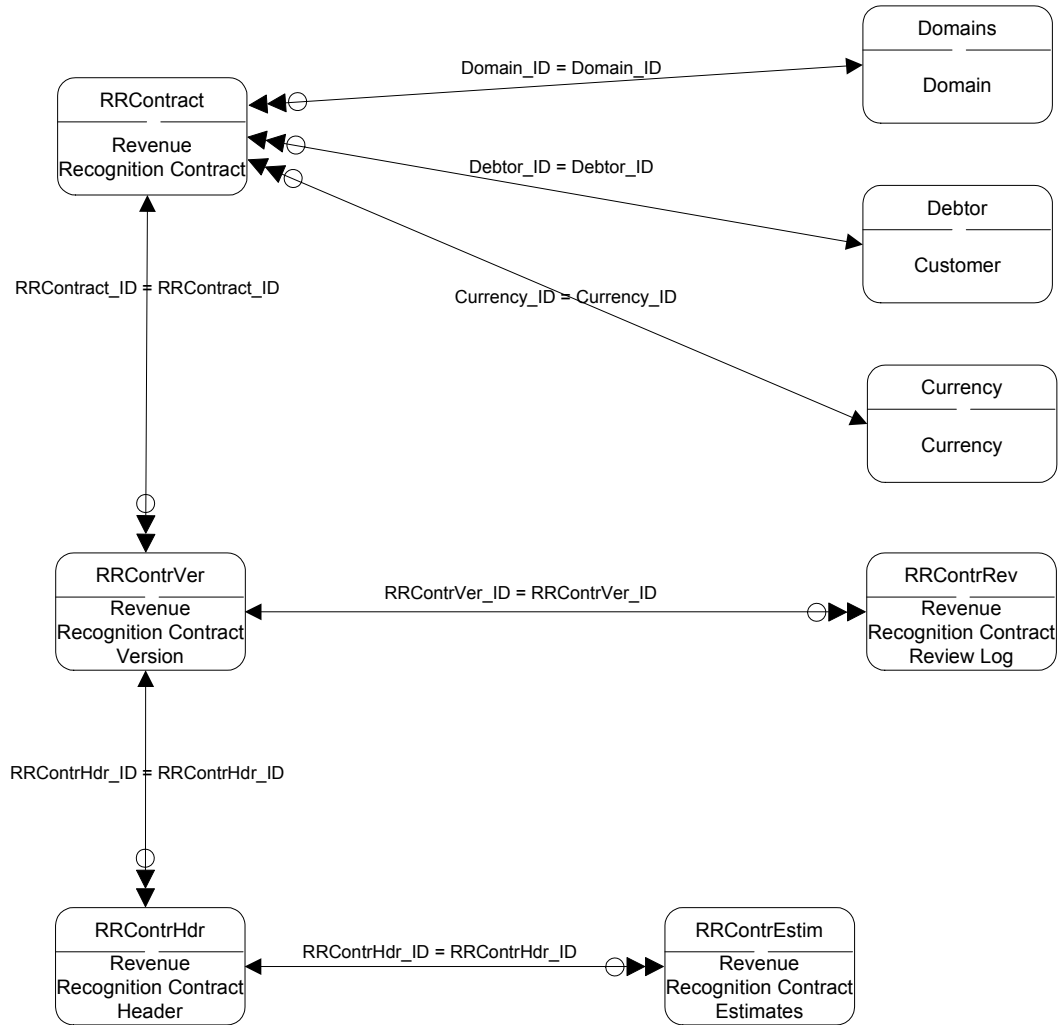


## Revenue Recognition Contract Invoice View

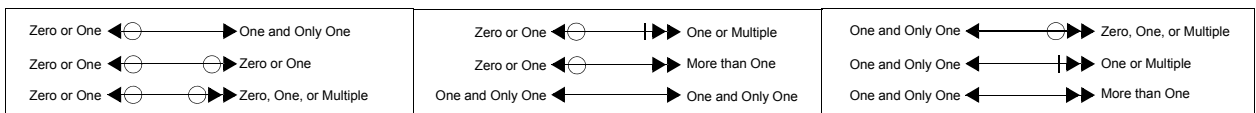
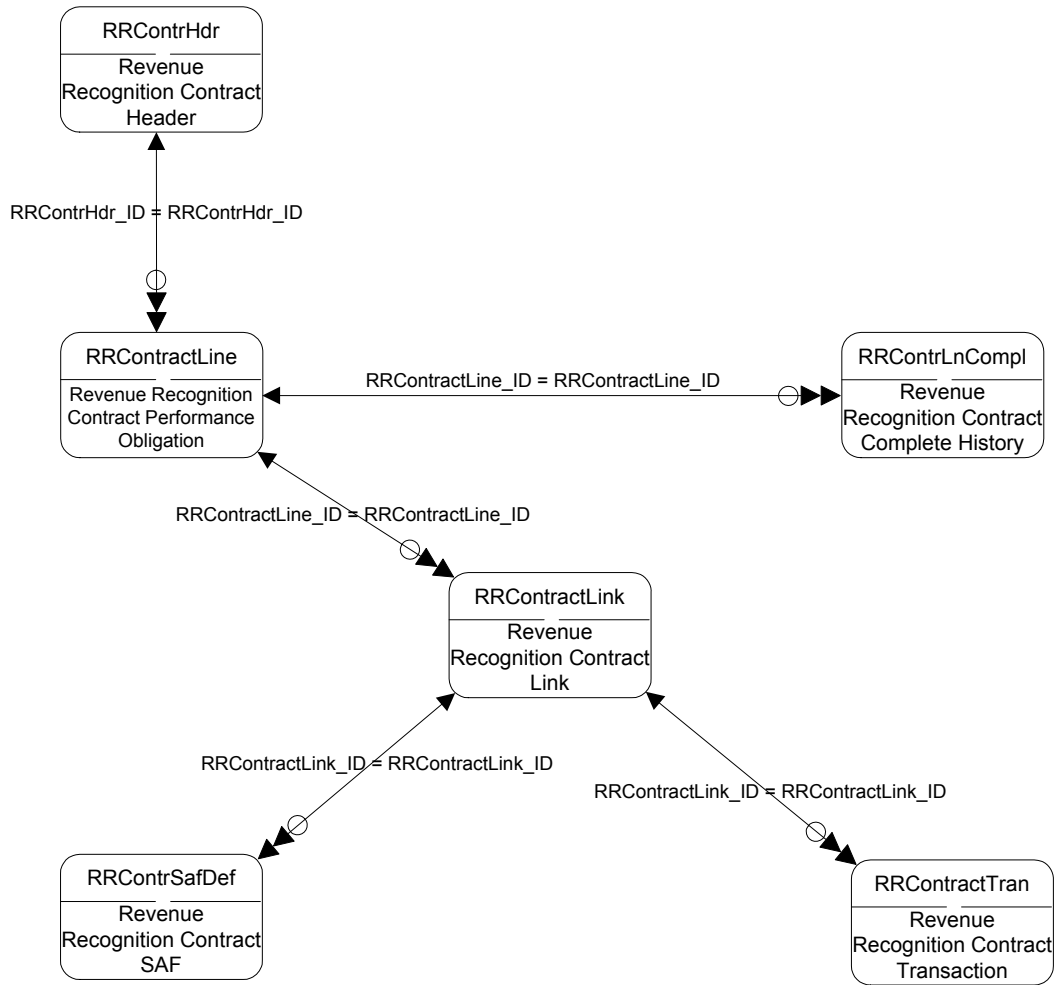


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \circ \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \ominus \longrightarrow$ Zero or One	Zero or One $\leftarrow \ominus \parallel \parallel \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \parallel \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \circ \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \parallel \parallel \longrightarrow$ More than One

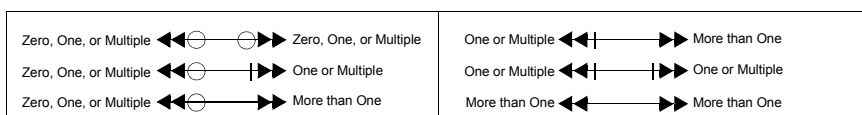
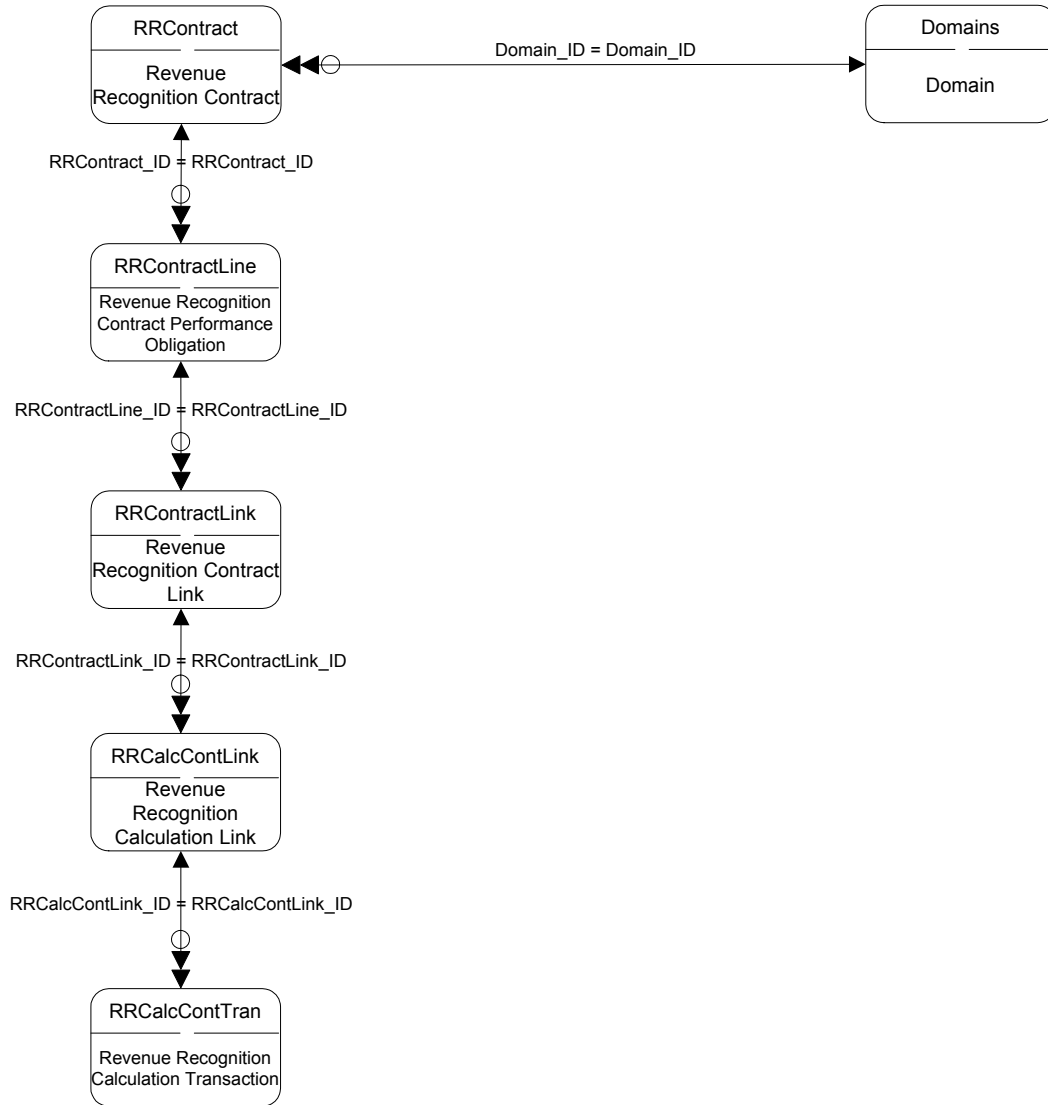
# Revenue Recognition Contract Maintenance I



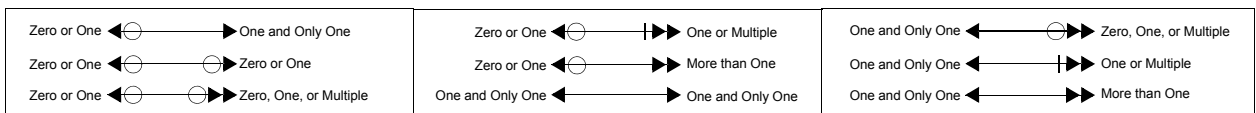
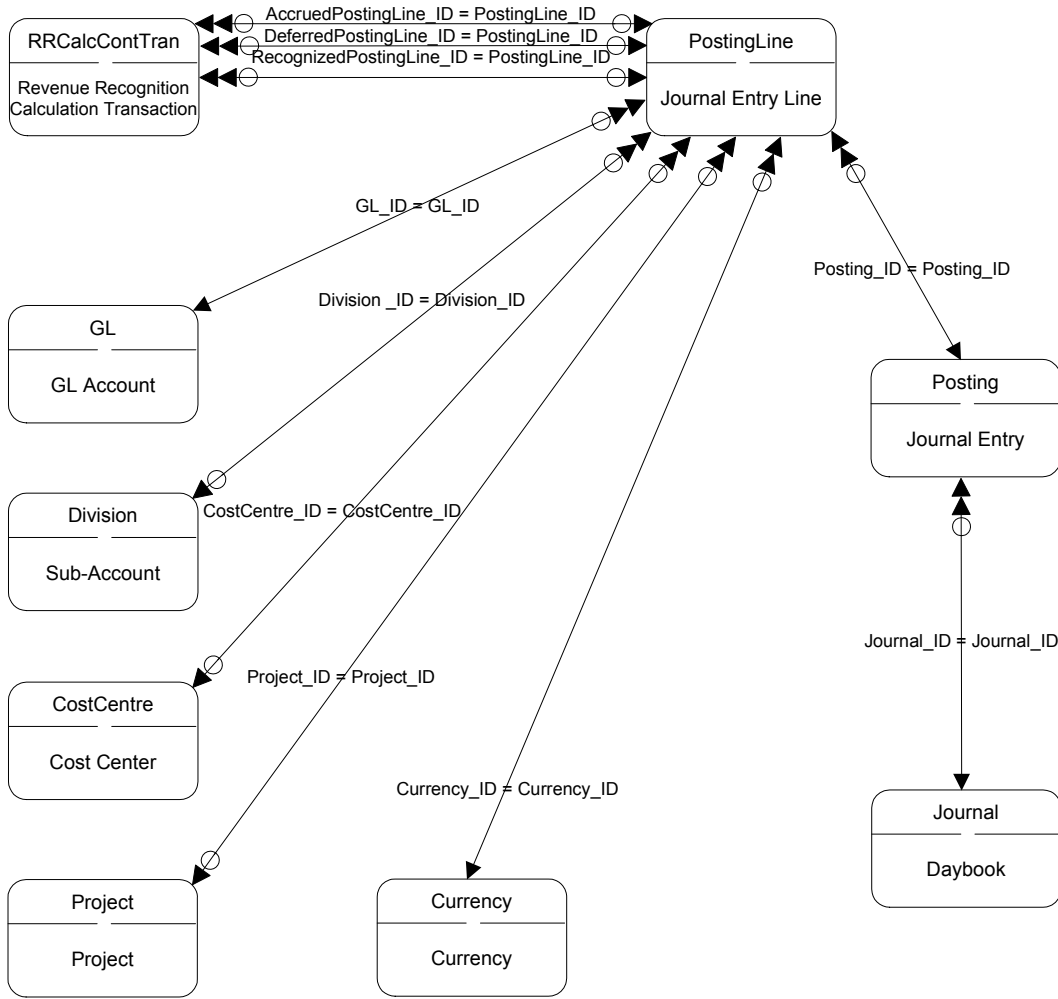
## Revenue Recognition Contract Maintenance II



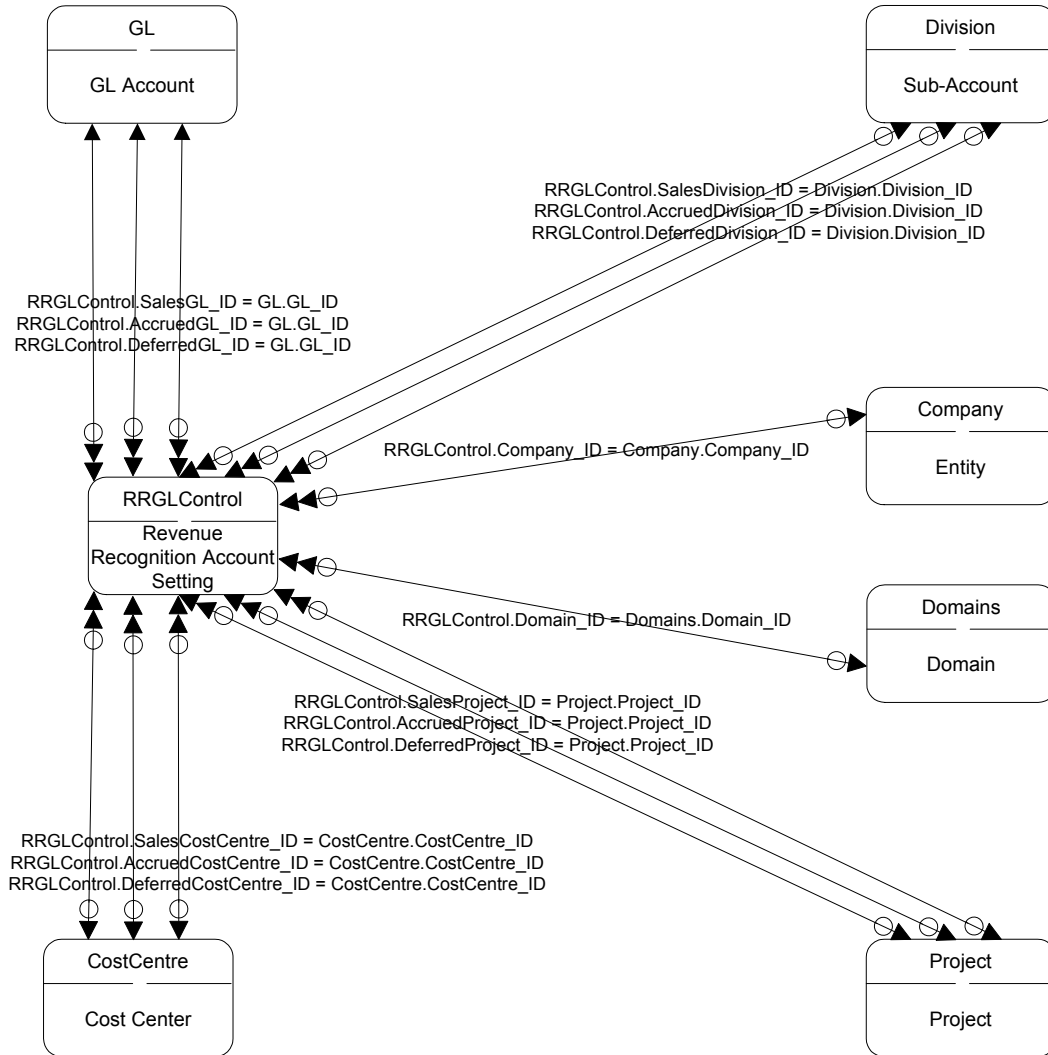
# Revenue Recognition Contract Transaction View I



## Revenue Recognition Contract Transaction View II

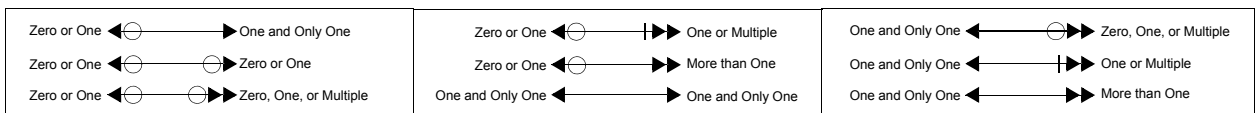
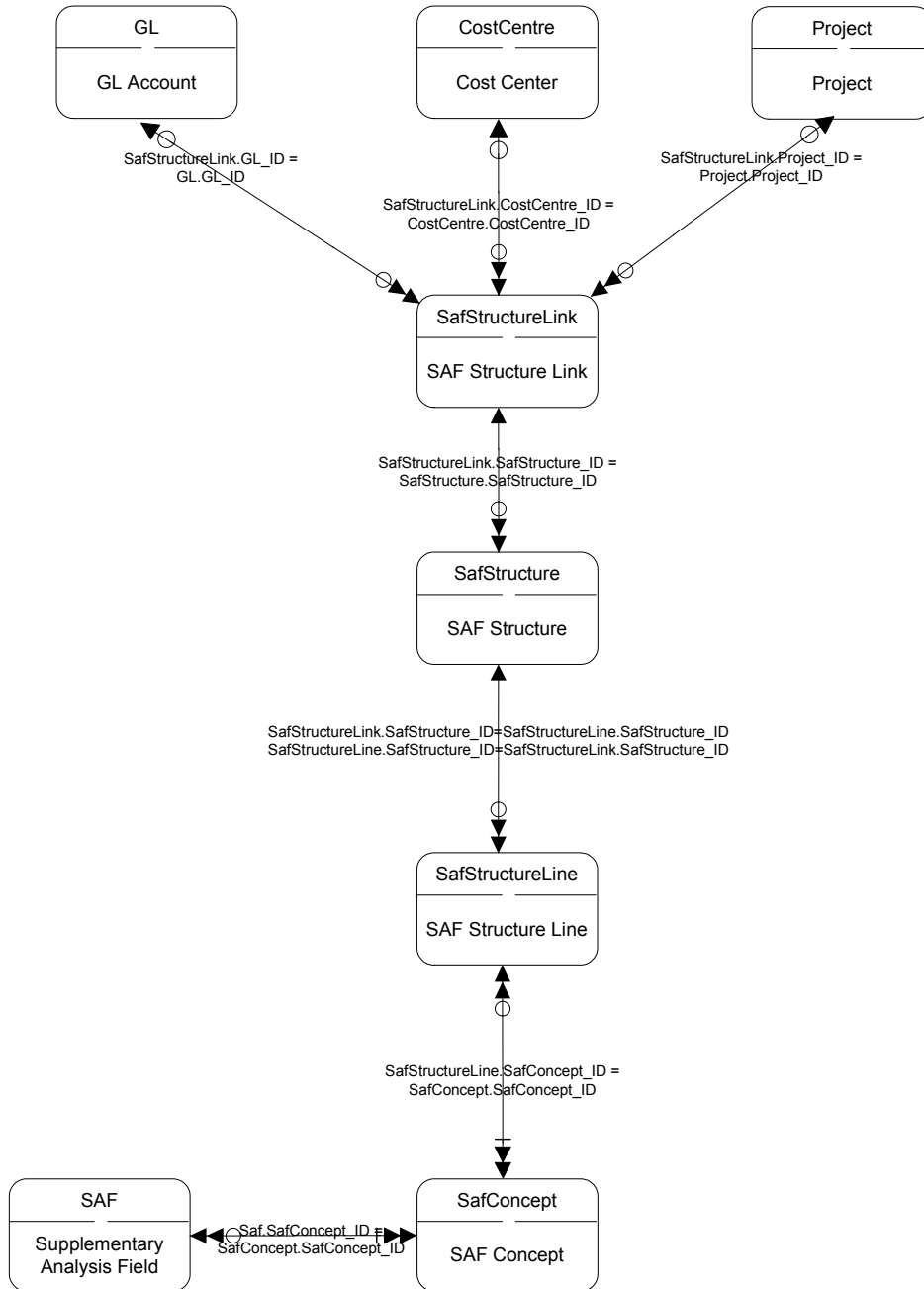


# Revenue Recognition GL Account Mapping

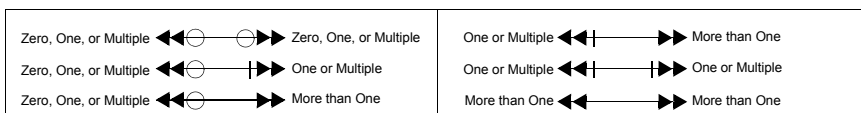
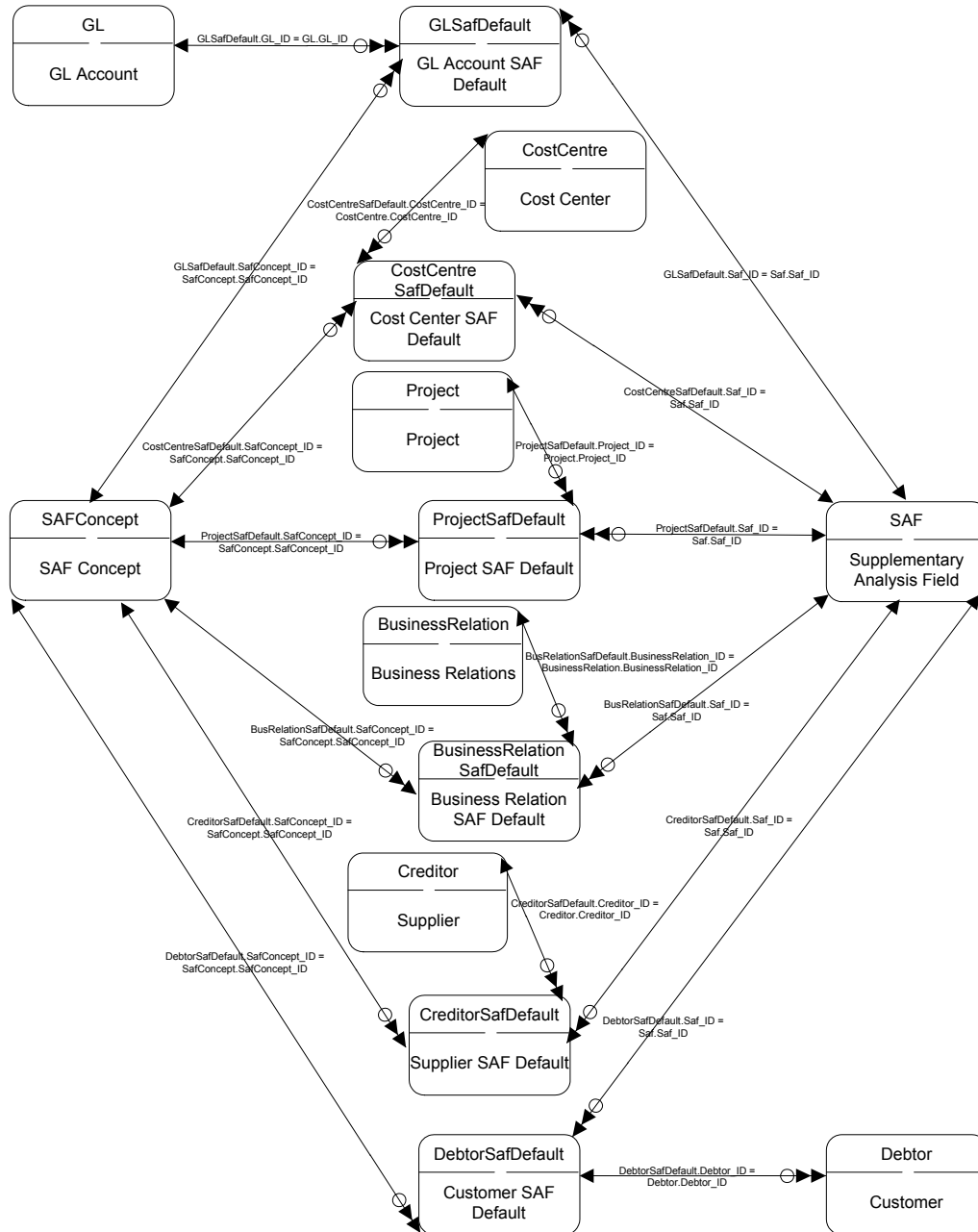


Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple	One or Multiple	◀◀	▶▶	More than One
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple	One or Multiple	◀◀	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One	More than One	◀◀	▶▶	More than One

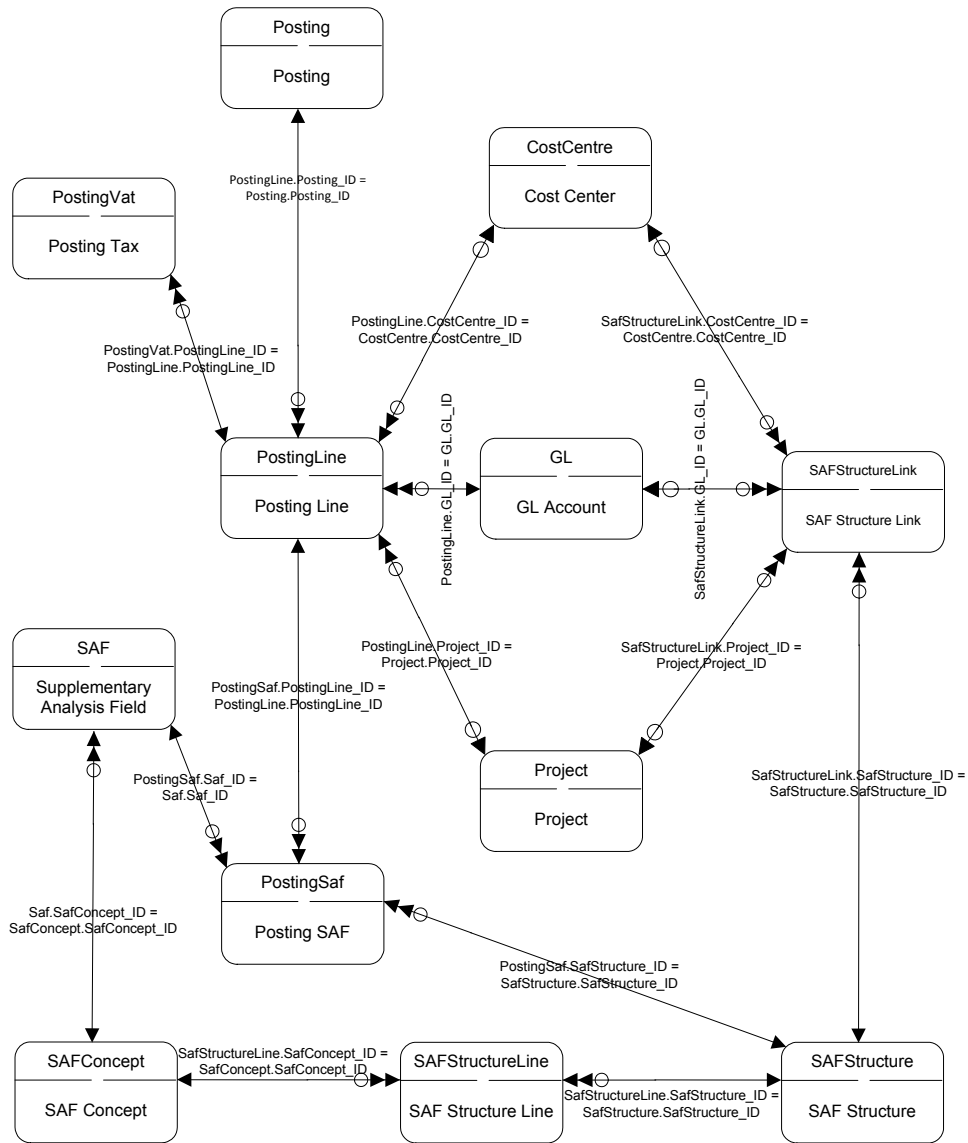
# SAF



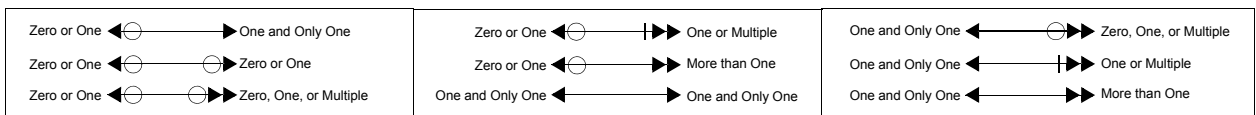
# SAF Defaulting



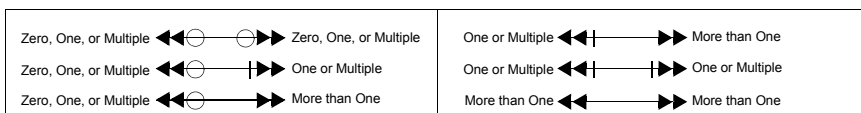
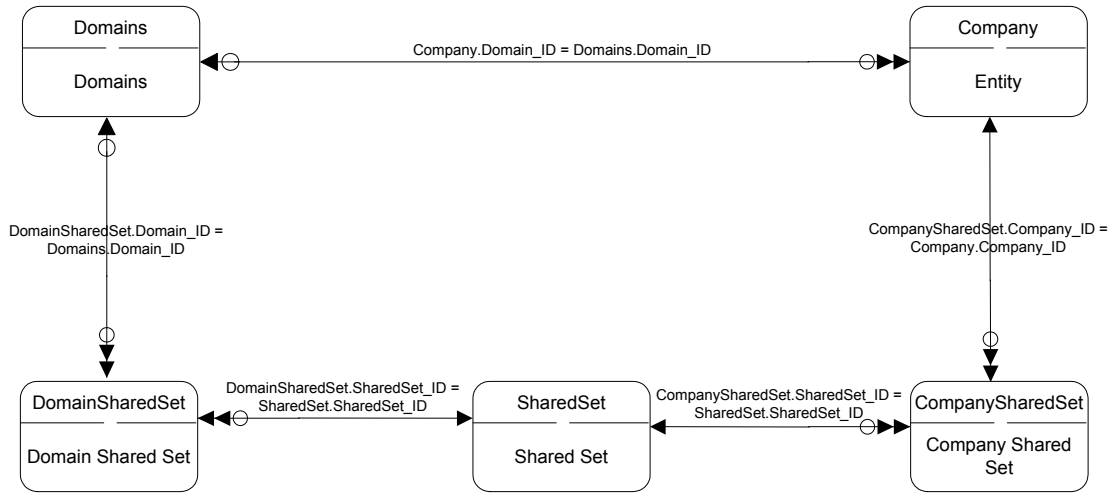
## SAF In Posting



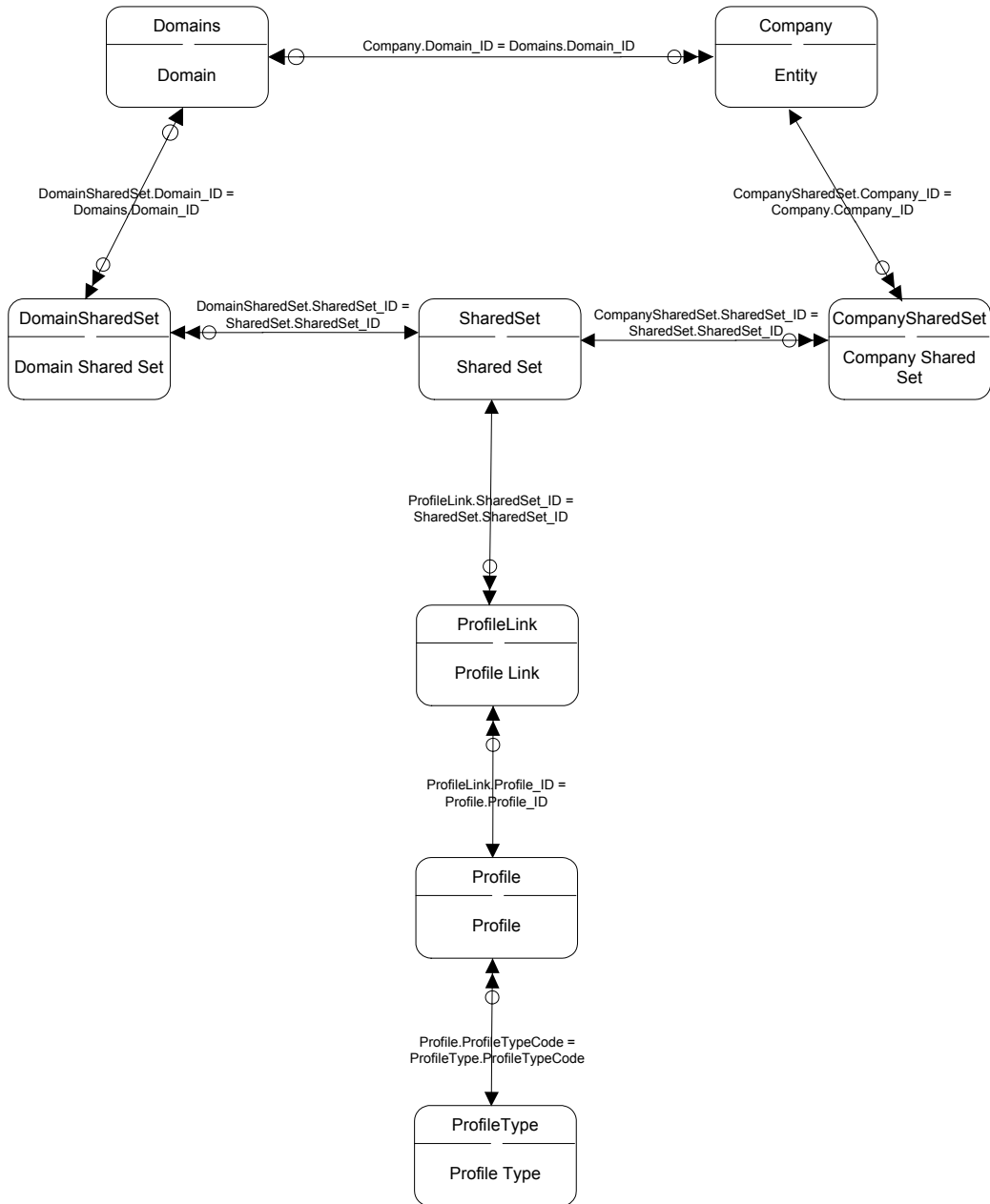
**Notes:** Saf is in the BSaf class. SafConcept is in the BSafConcept class. SafStructureLine and SafStructure are in the BSafStructure class.



# Shared Sets

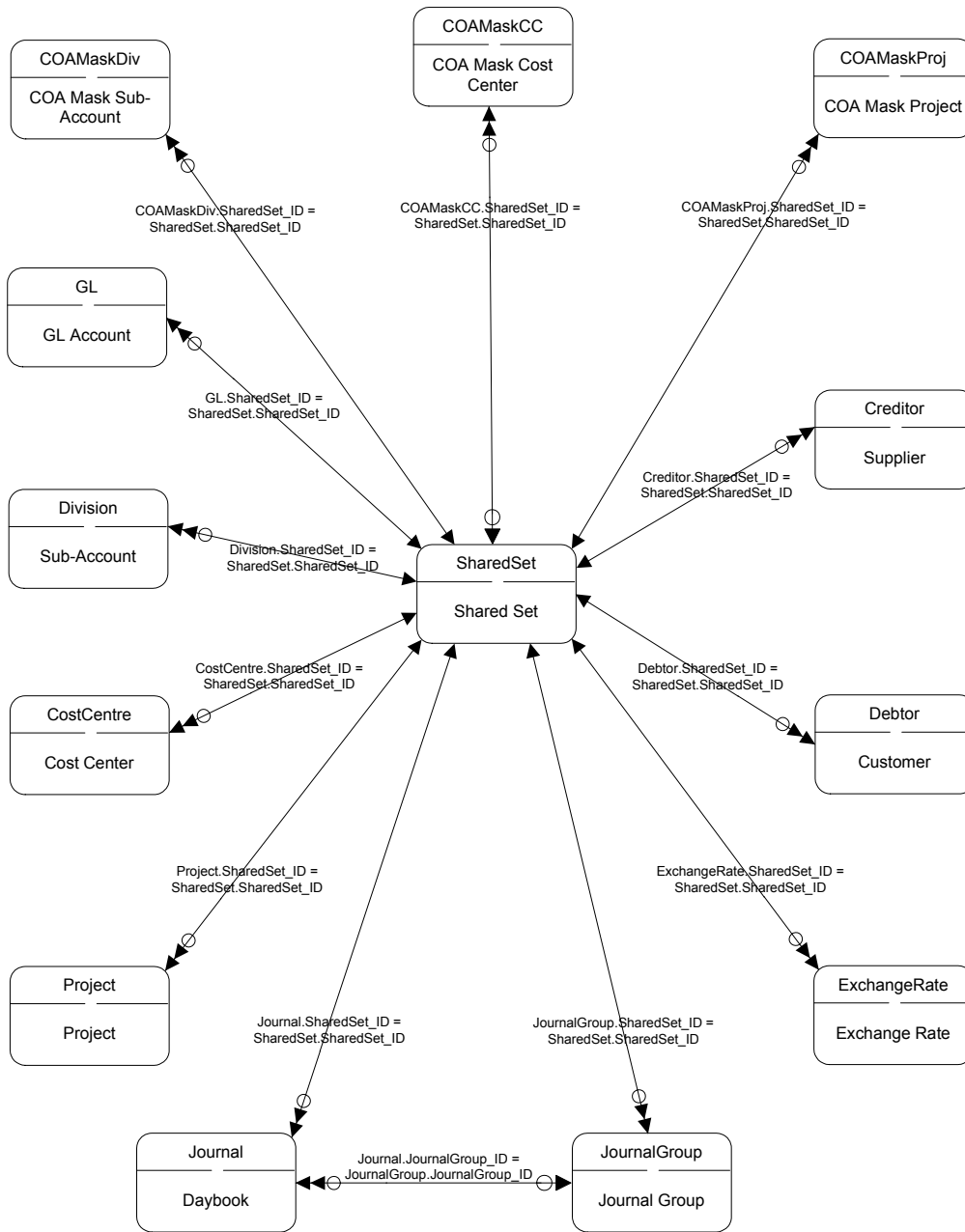


## Shared Sets Profiles



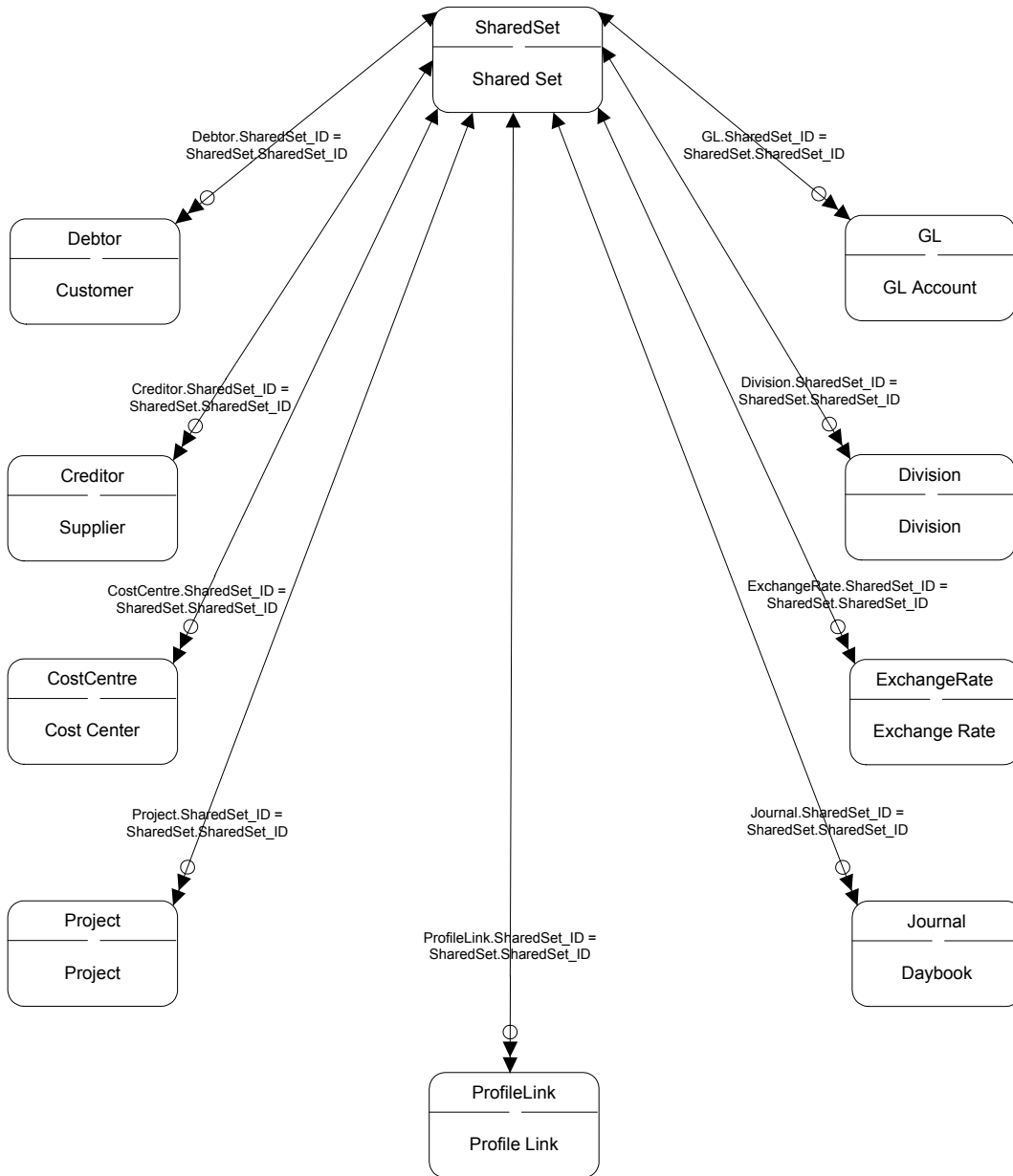
Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv \dashv$ More than One

# Shared Sets Type



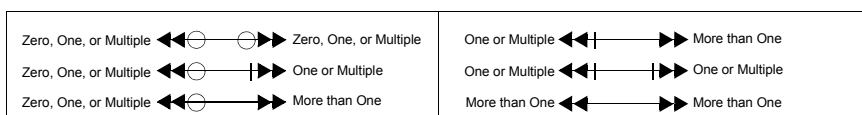
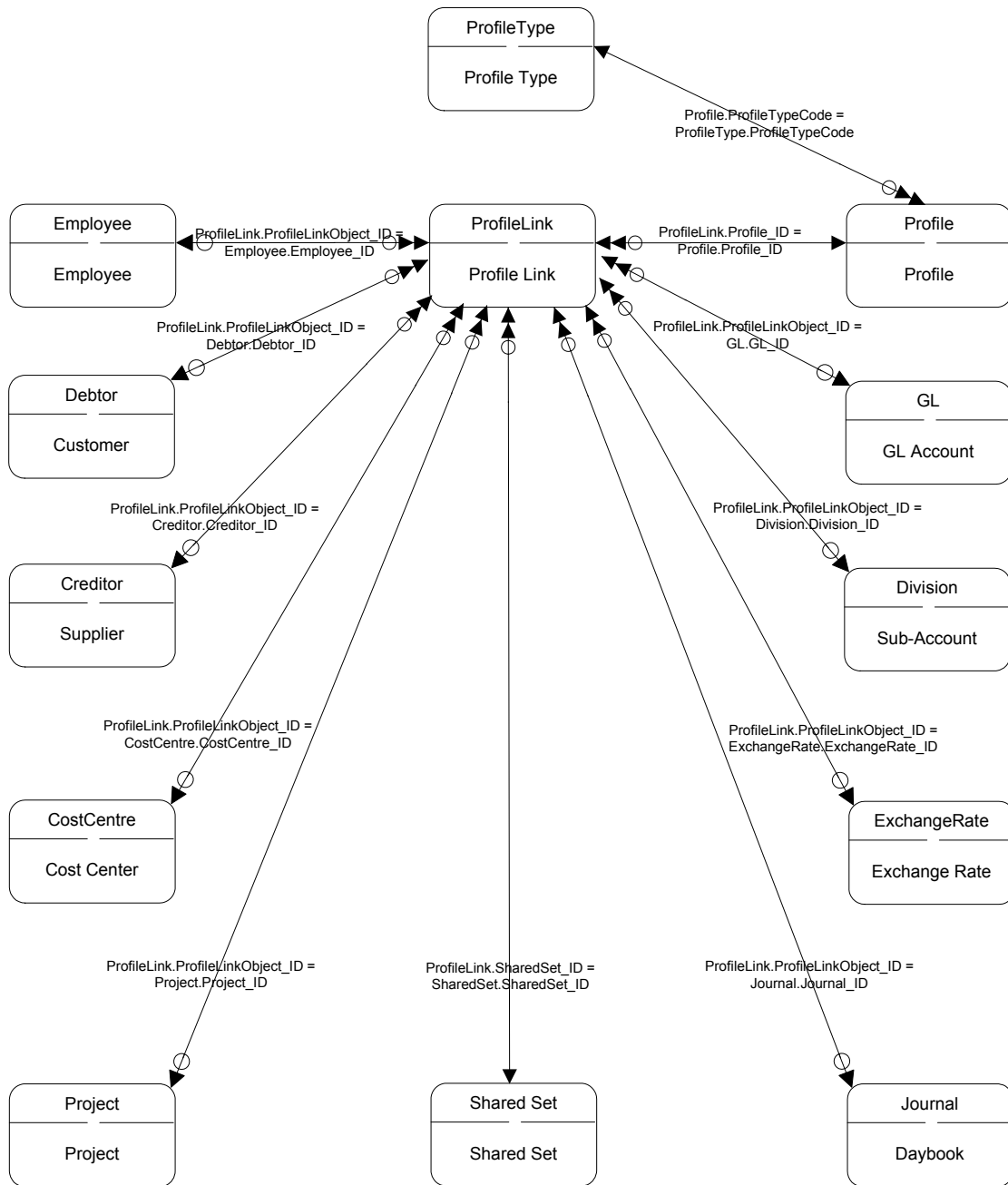
Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple	One or Multiple	◀◀	▶▶	More than One
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple	One or Multiple	◀◀	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One	More than One	◀◀	▶▶	More than One

## Shared Sets Type Profile I

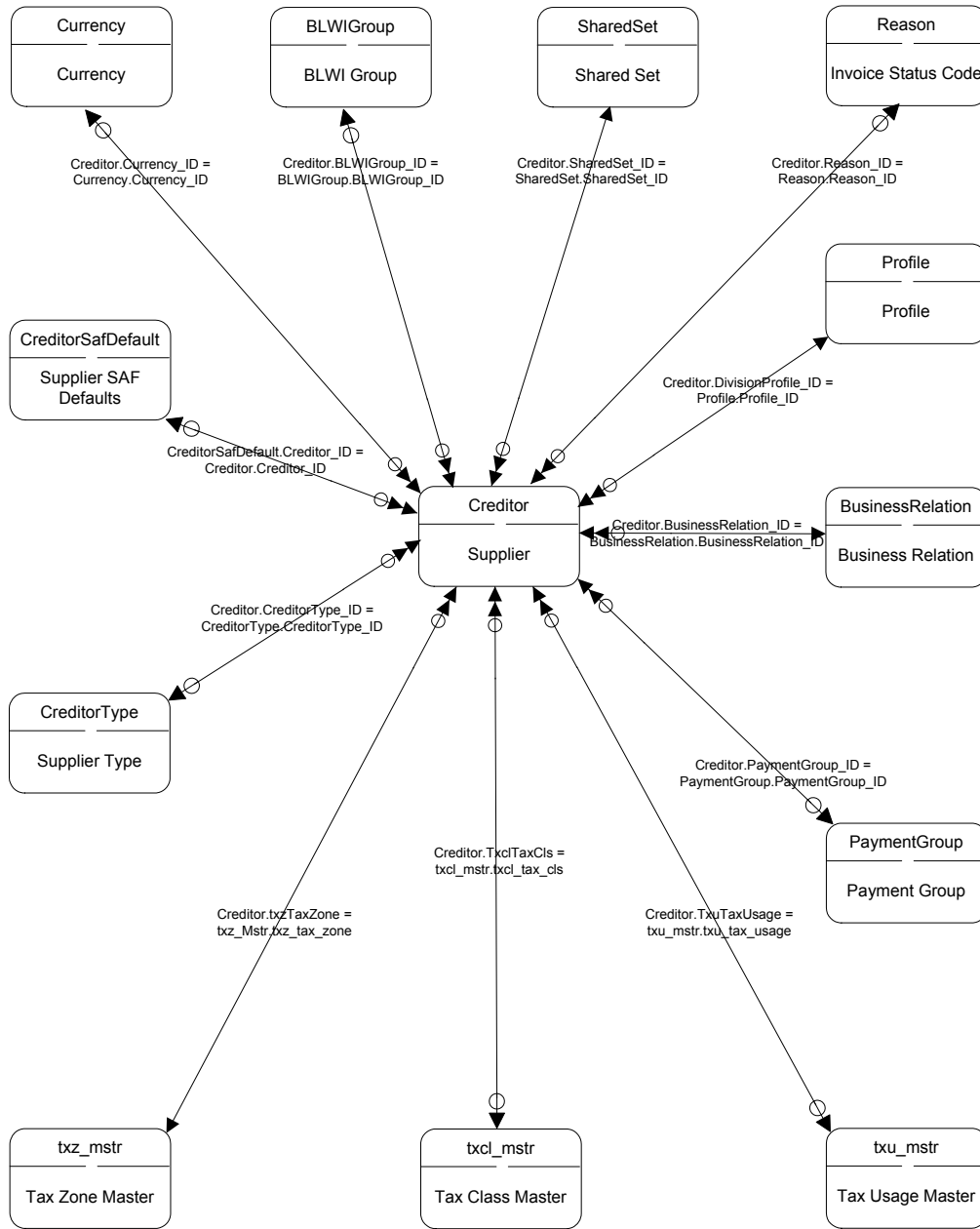


Zero or One ← ⊕ → One and Only One	Zero or One ← ⊕ ⊥ → One or Multiple	One and Only One ← ⊕ ⊥ → Zero, One, or Multiple
Zero or One ← ⊕ ⊙ → Zero or One	Zero or One ← ⊕ ⊥ ⊥ → More than One	One and Only One ← ⊕ ⊥ ⊥ → One or Multiple
Zero or One ← ⊕ ⊙ ⊙ → Zero, One, or Multiple	One and Only One ← ⊕ ⊥ ⊥ ⊥ → One and Only One	One and Only One ← ⊕ ⊥ ⊥ ⊥ → More than One

## Shared Sets Type Profile II

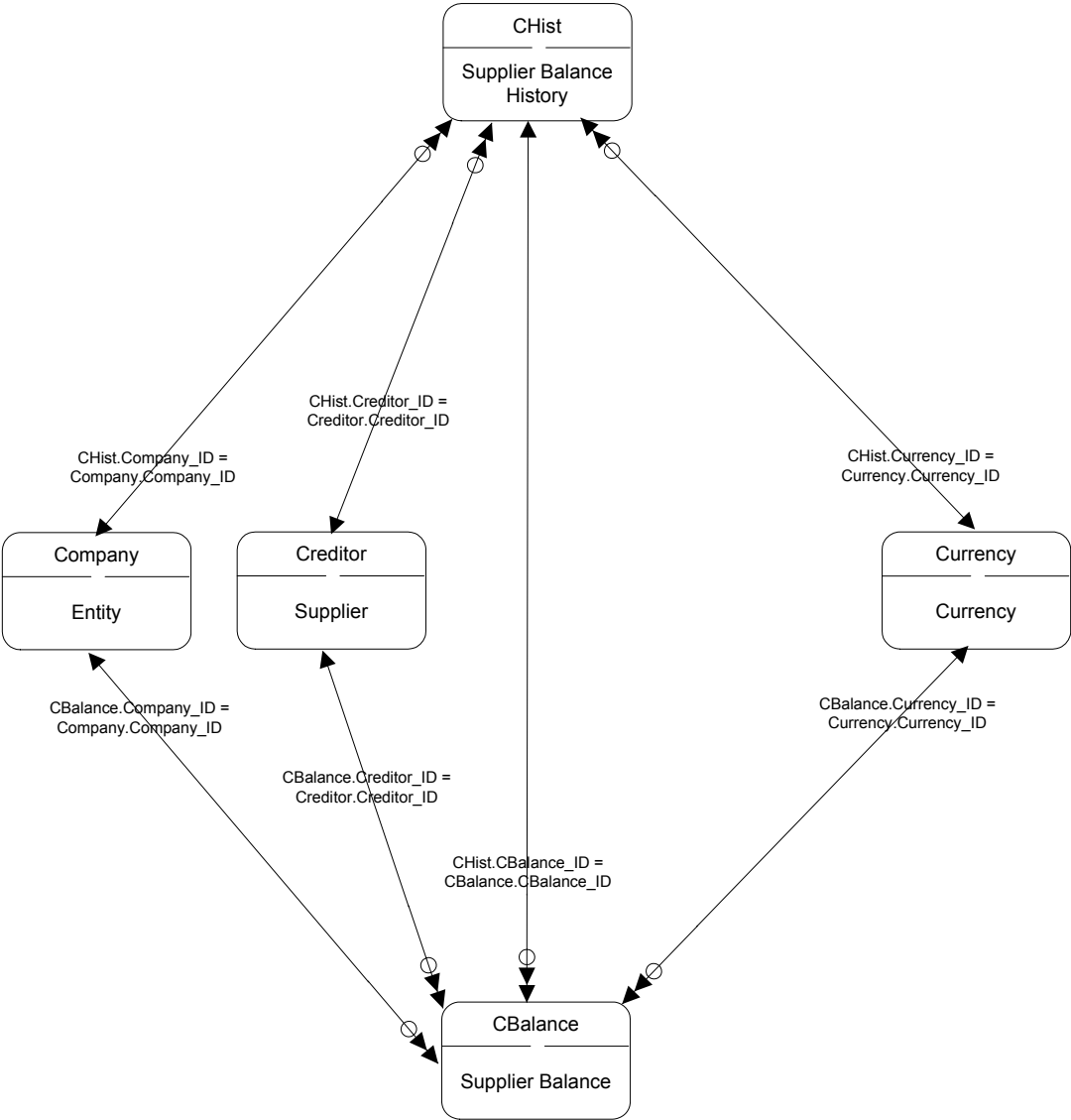


# Supplier



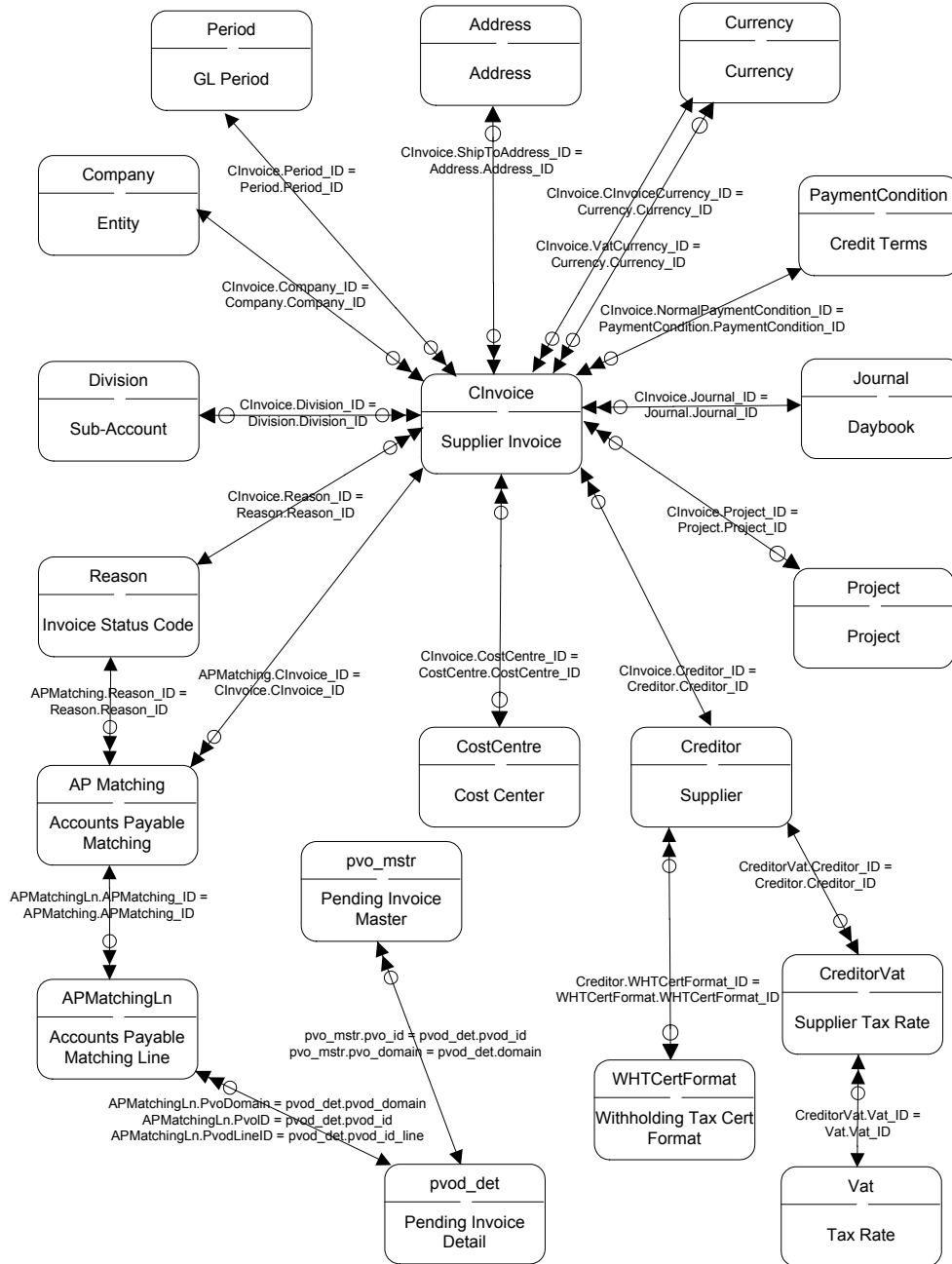
Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv \dashv$ More than One

# Supplier Balance



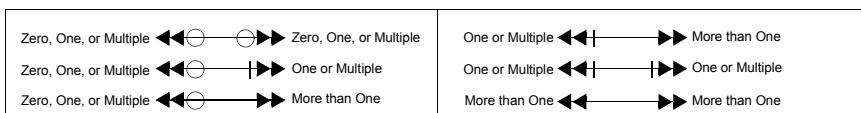
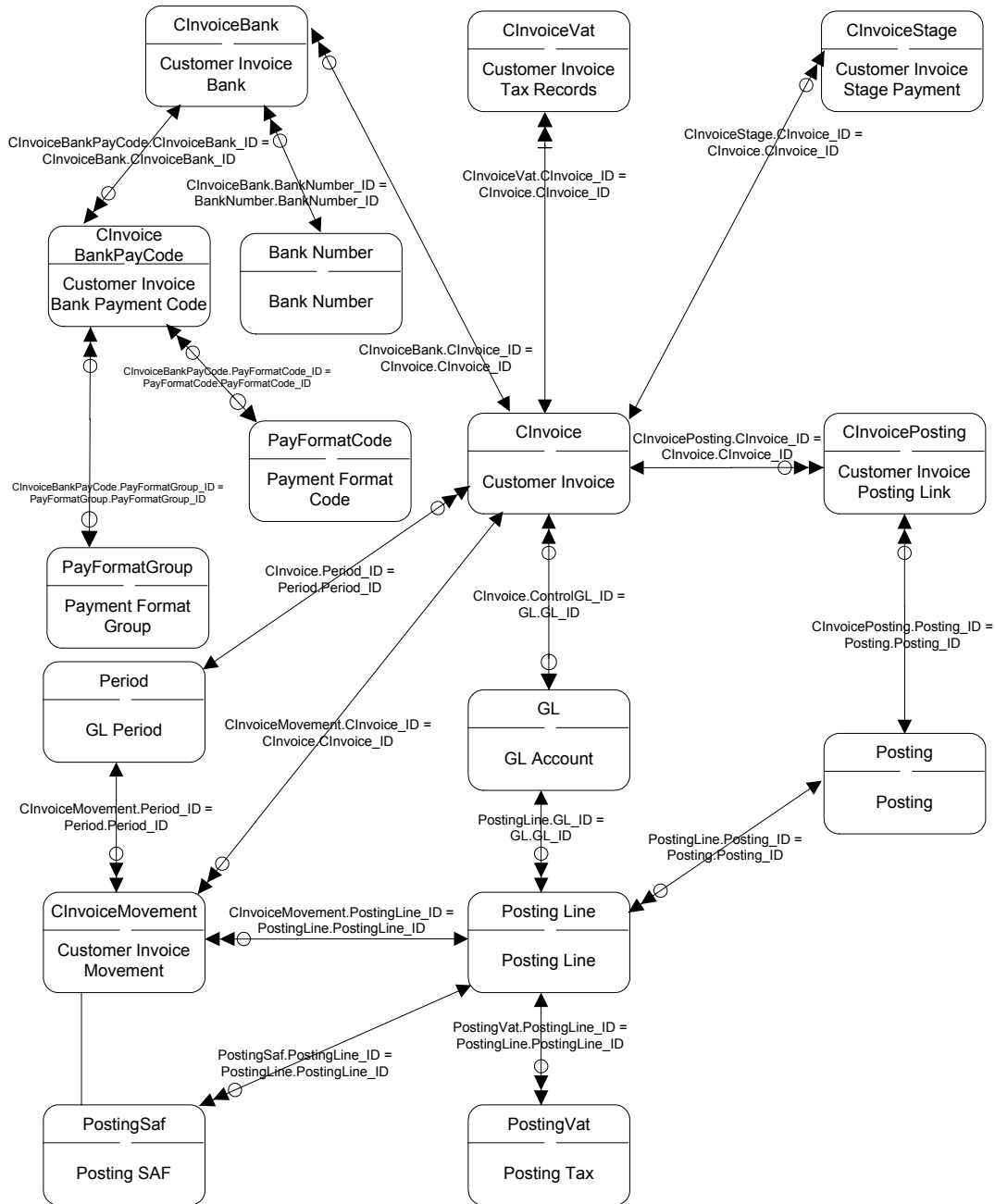
Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple	One or Multiple	◀◀	▶▶	More than One
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple	One or Multiple	◀◀	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One	More than One	◀◀	▶▶	More than One

# Supplier Invoice I

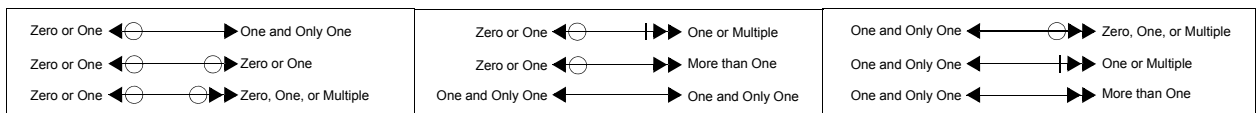
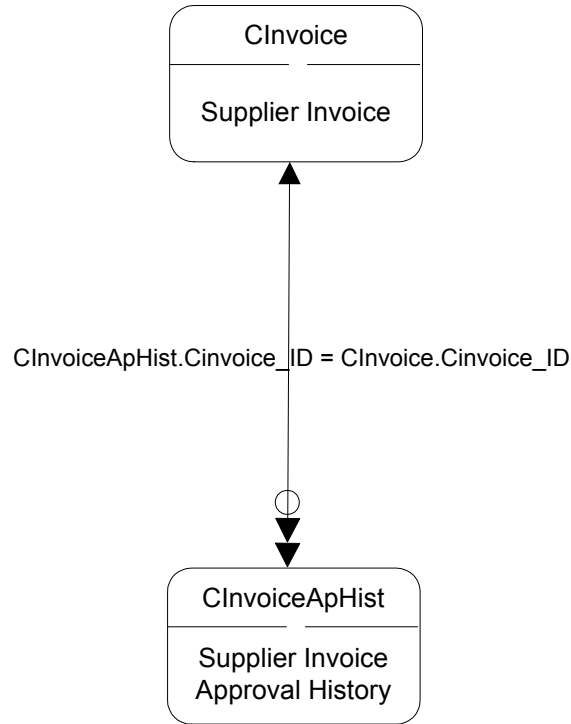


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow$ Zero or One	Zero or One $\leftarrow \ominus \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \dashrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashrightarrow$ More than One

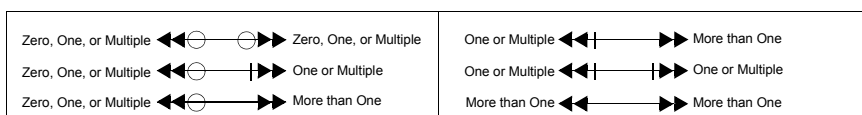
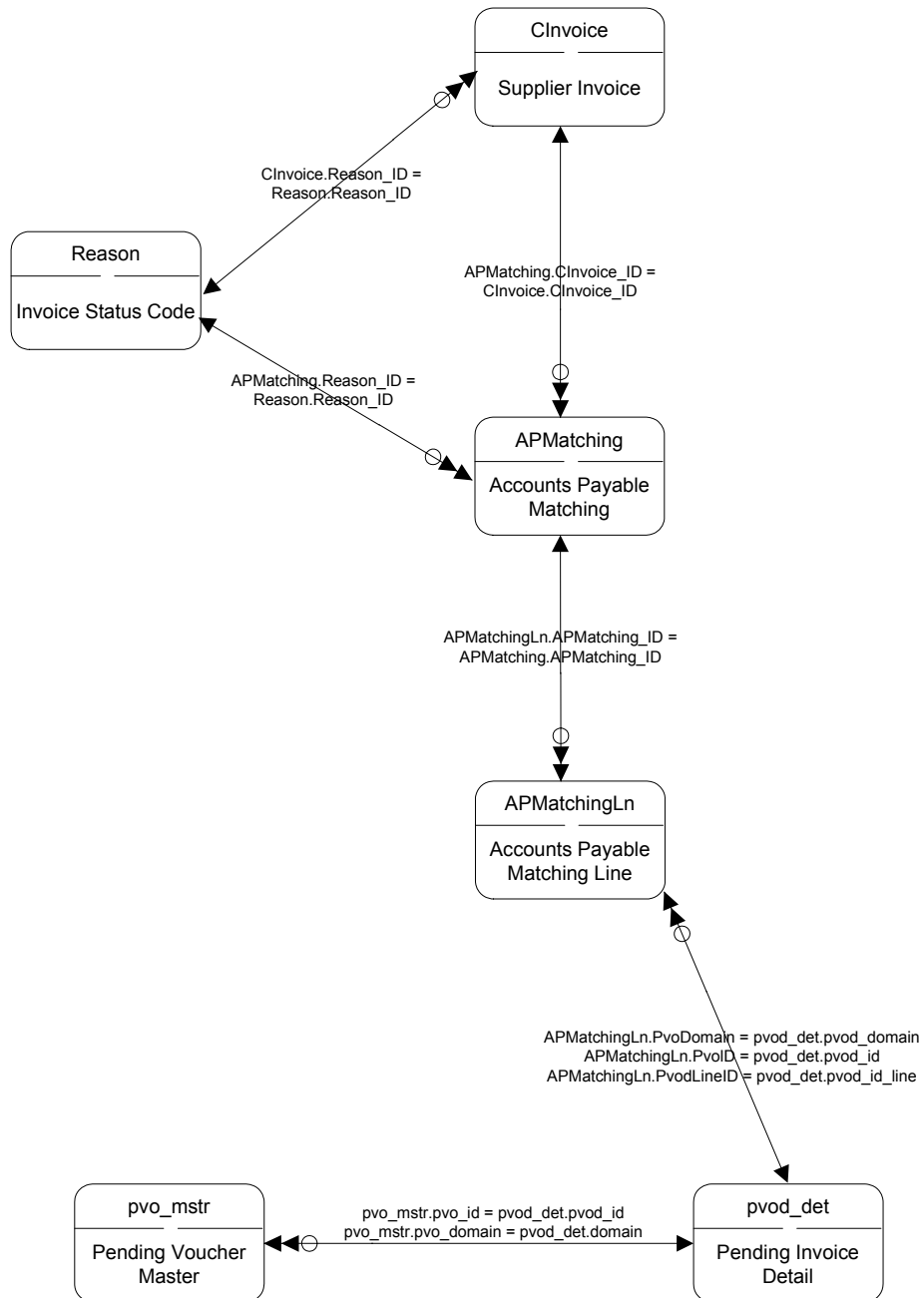
# Supplier Invoice II



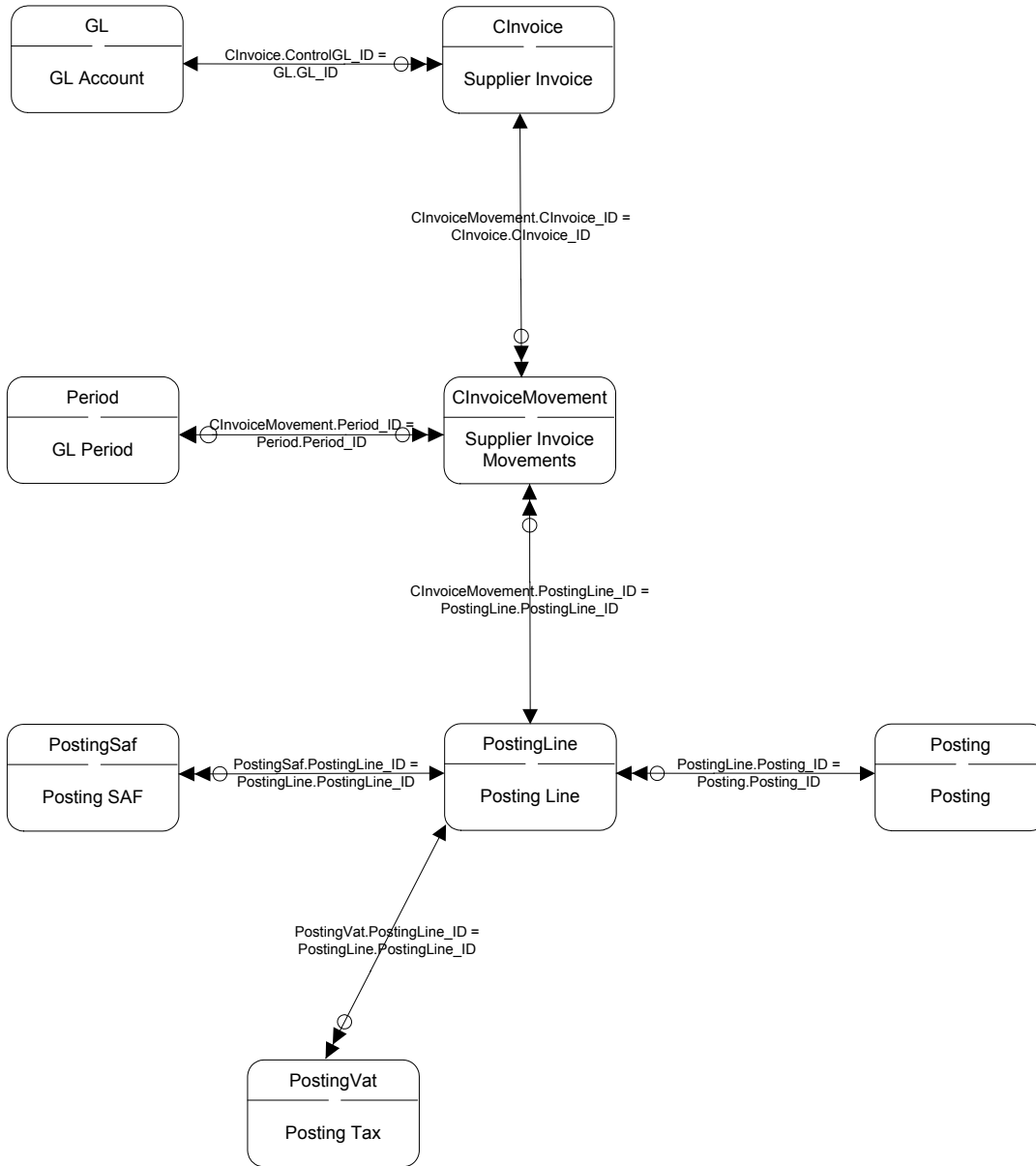
## Supplier Invoice Approval Workflow History



# Supplier Invoice Matching

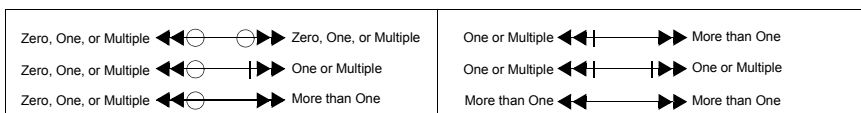
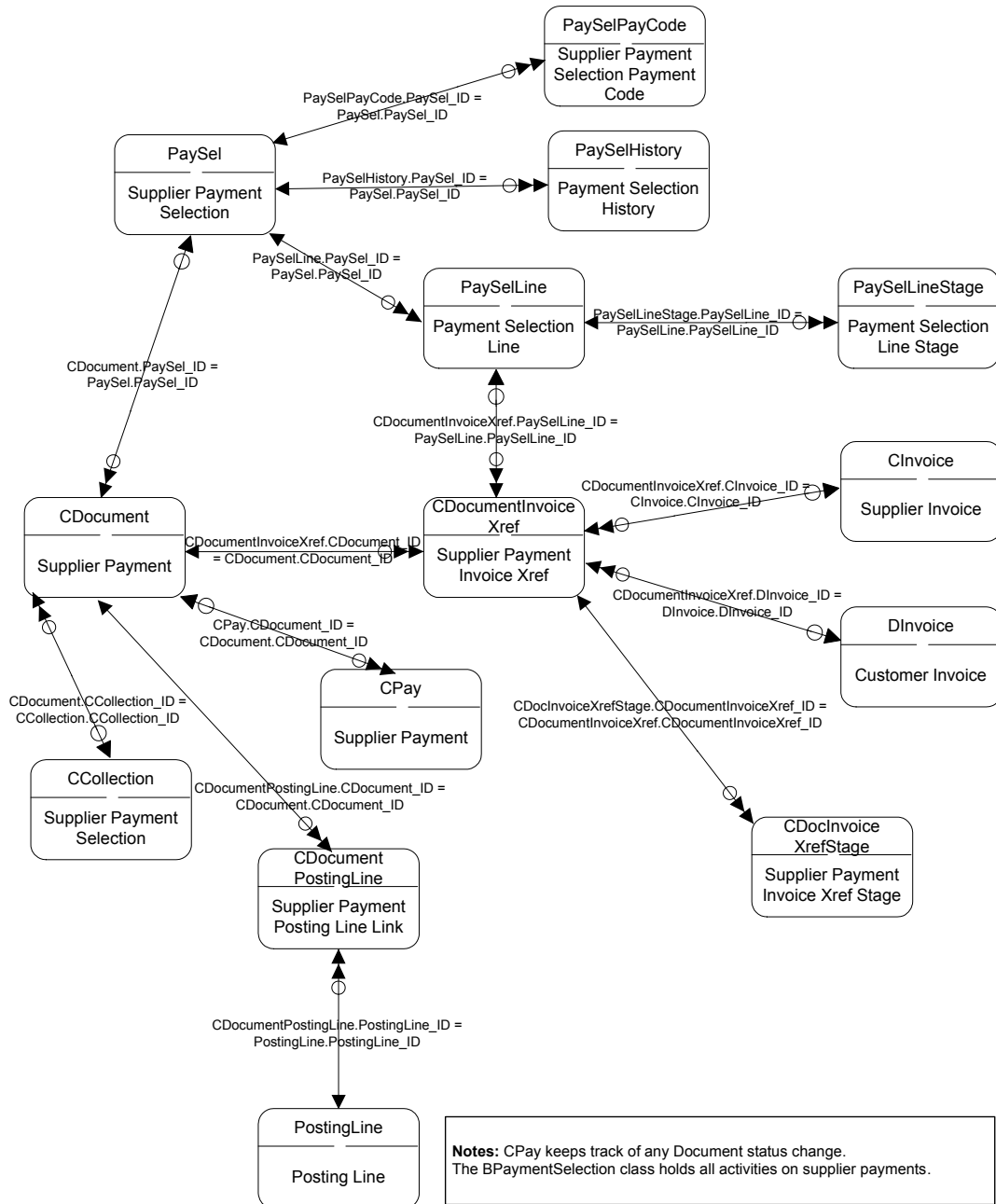


## Supplier Invoice Movement

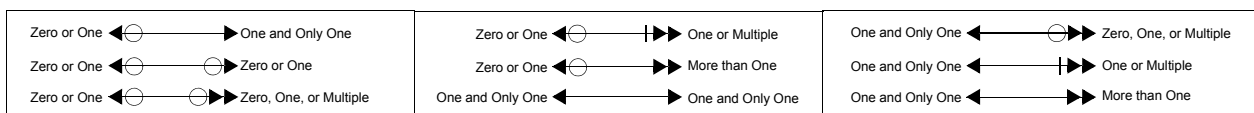
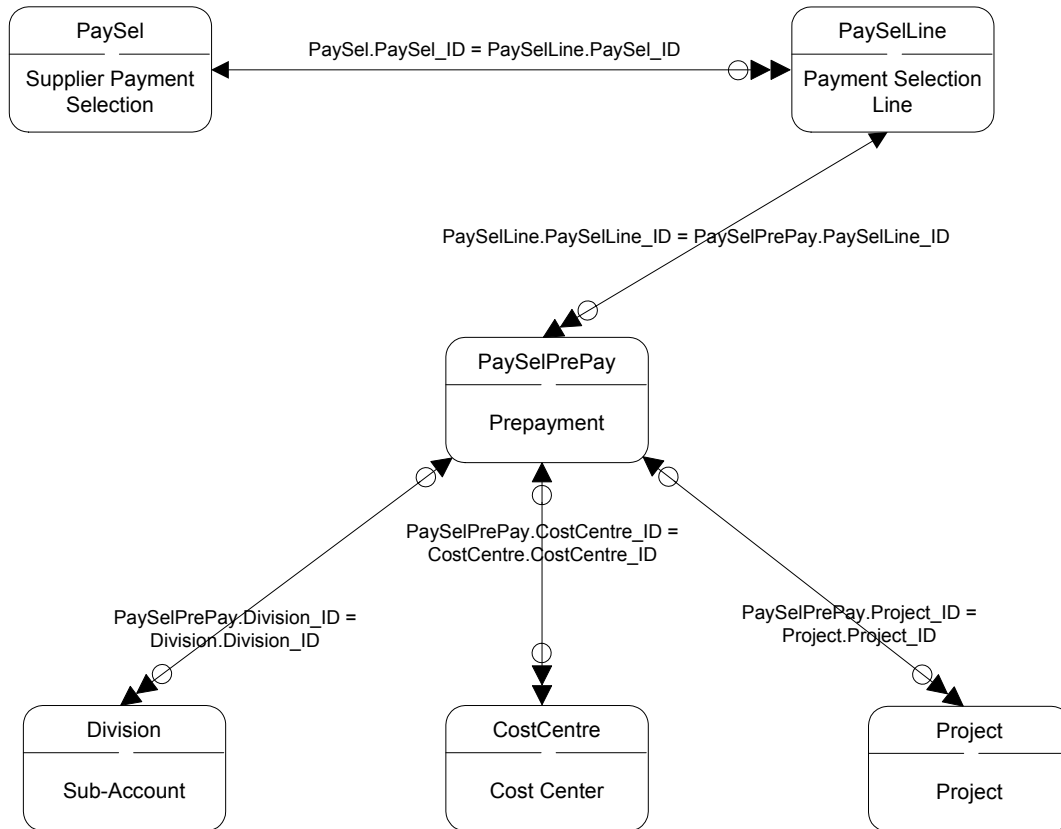


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \dashv \longrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \dashv \longrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \dashv \dashv \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \dashv \dashv \longrightarrow$ More than One

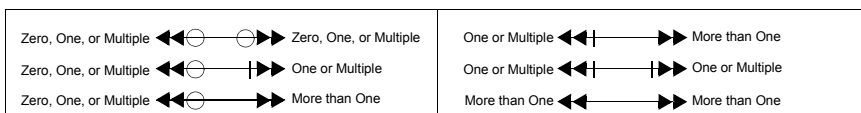
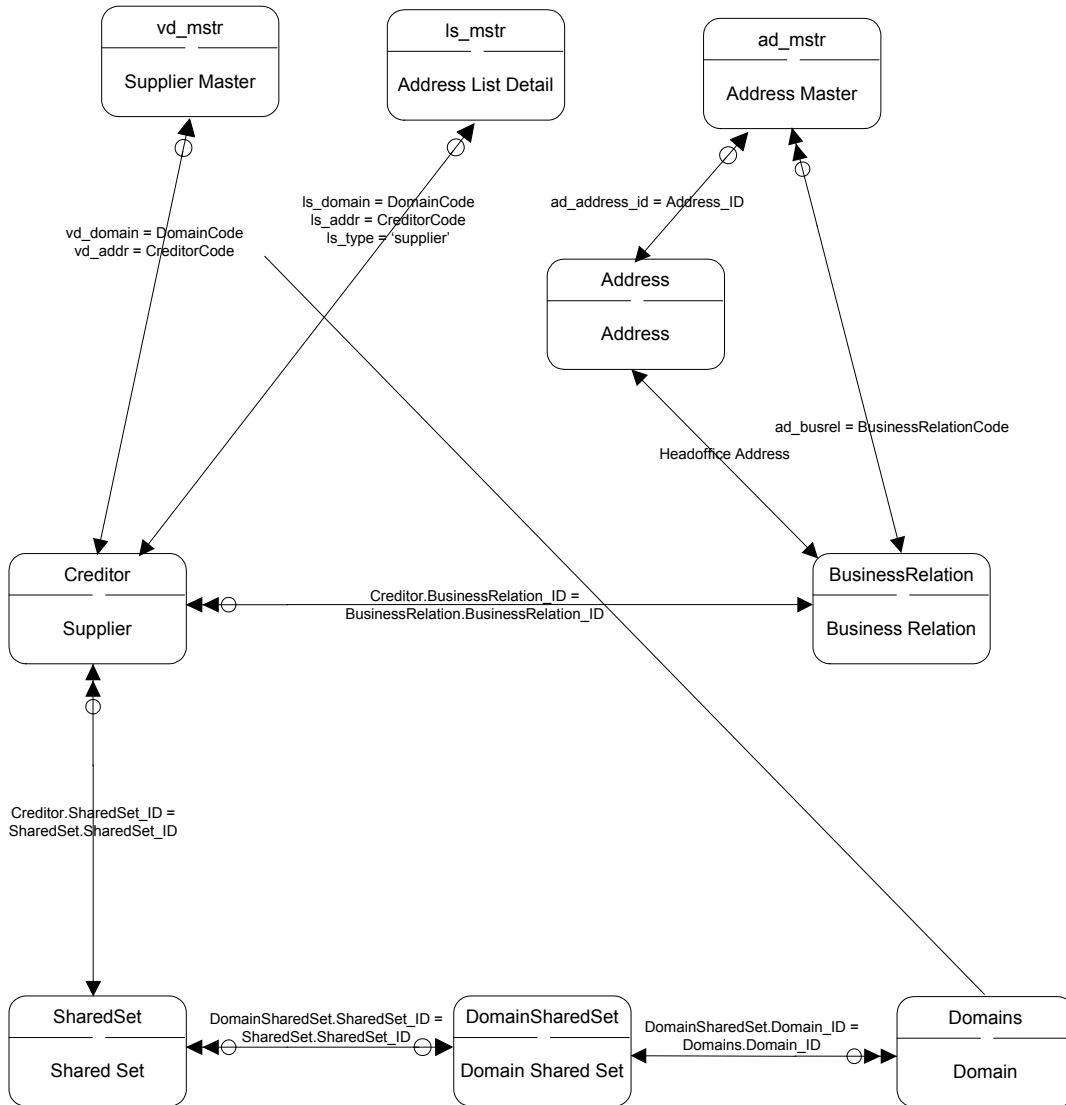
# Supplier Payments



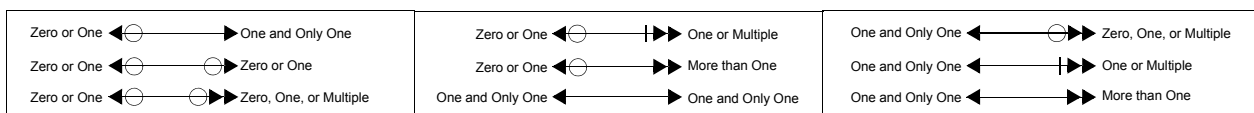
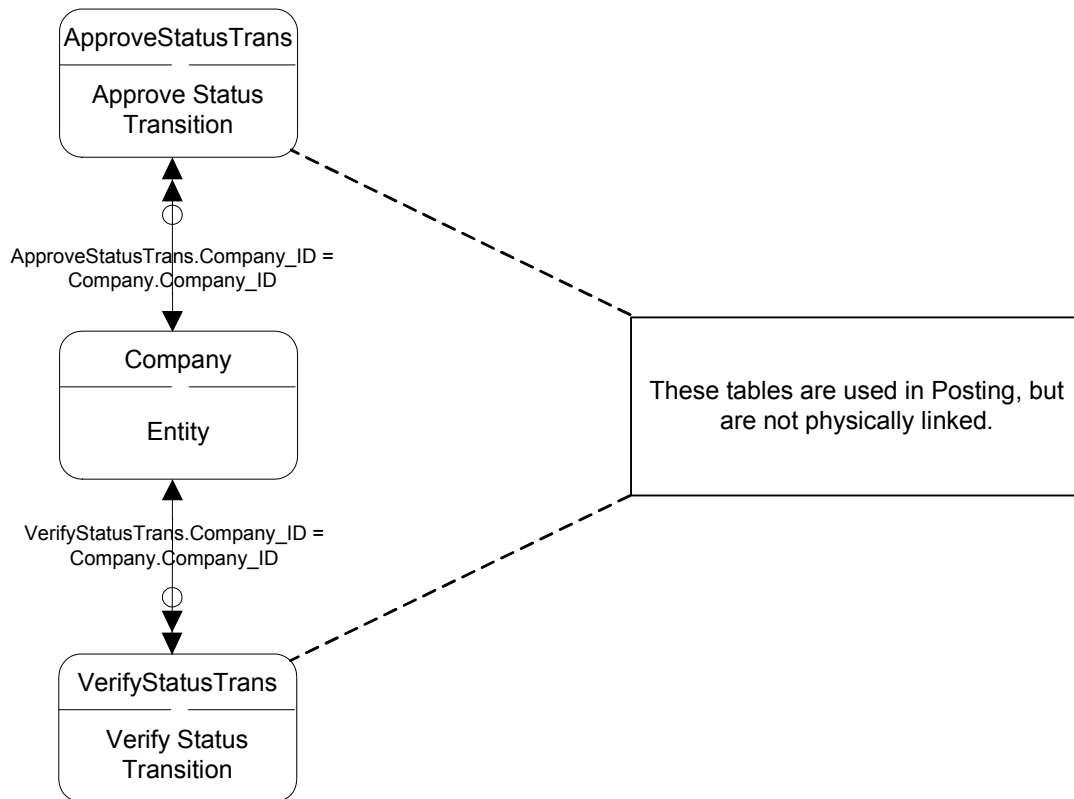
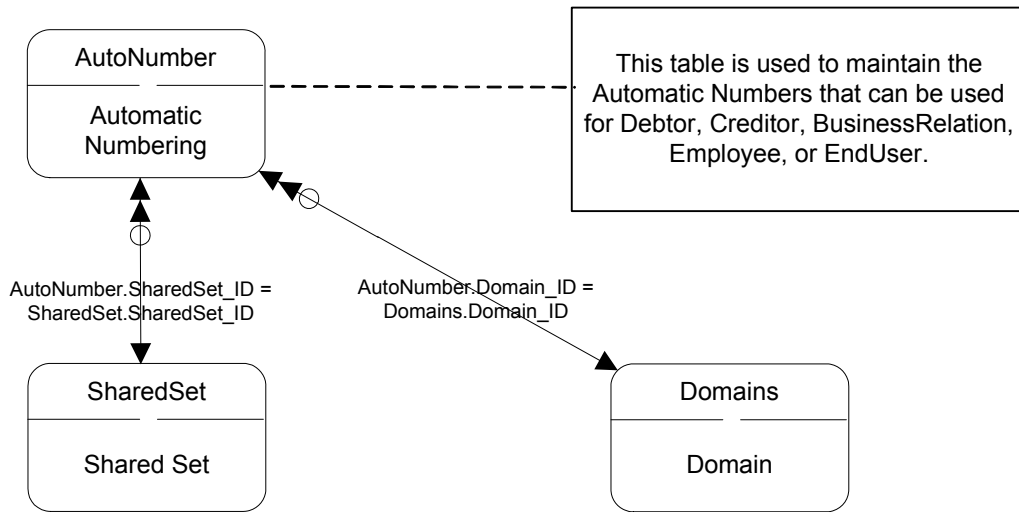
## Supplier Payments - Prepayments



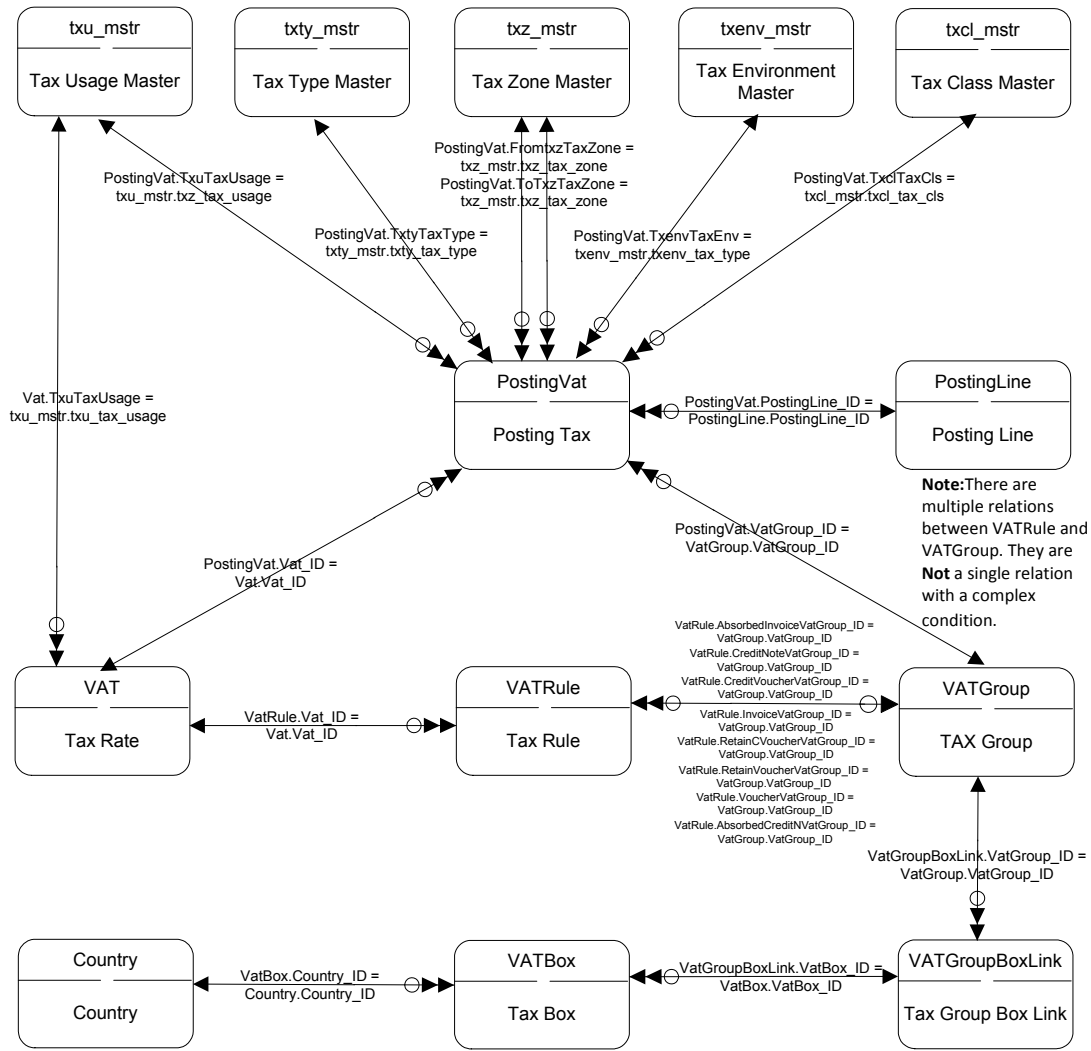
# Supplier Replication



## Supportive Tables

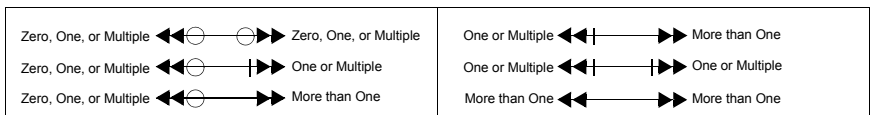


# Tax Master

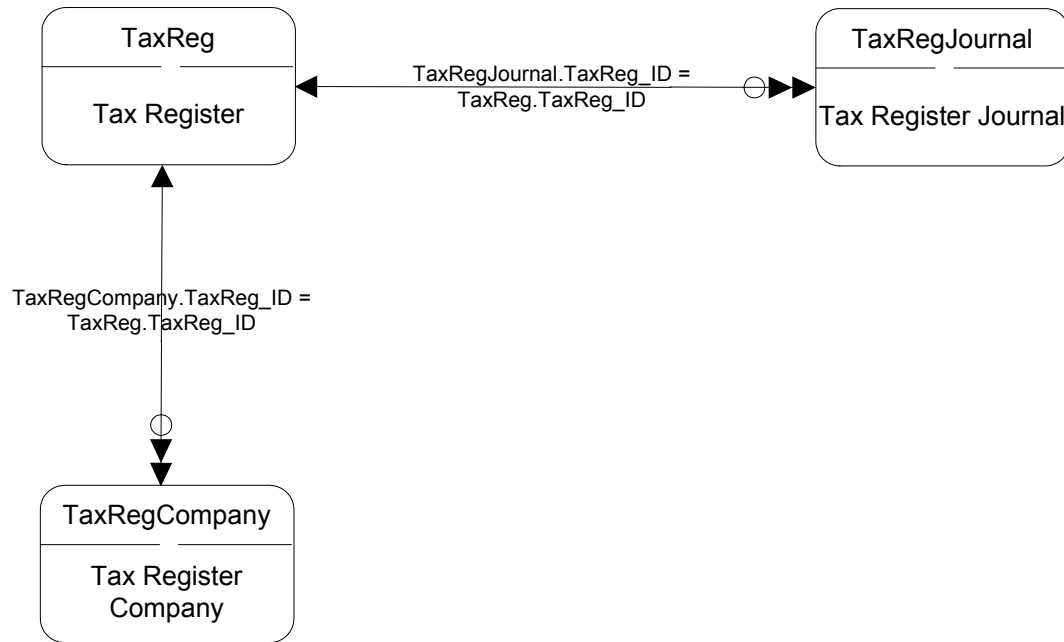


**Note:** There are multiple relations between VATRule and VATGroup. They are **Not** a single relation with a complex condition.

**Notes:** The relationship among the five tax setup tables that are defined in the operation side of the application and the PostingVat and Vat tables of the financials are in the repository, even though the five tax setup tables are not in the finance database.

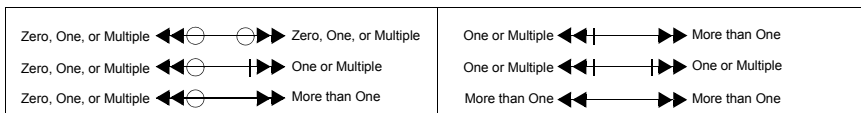
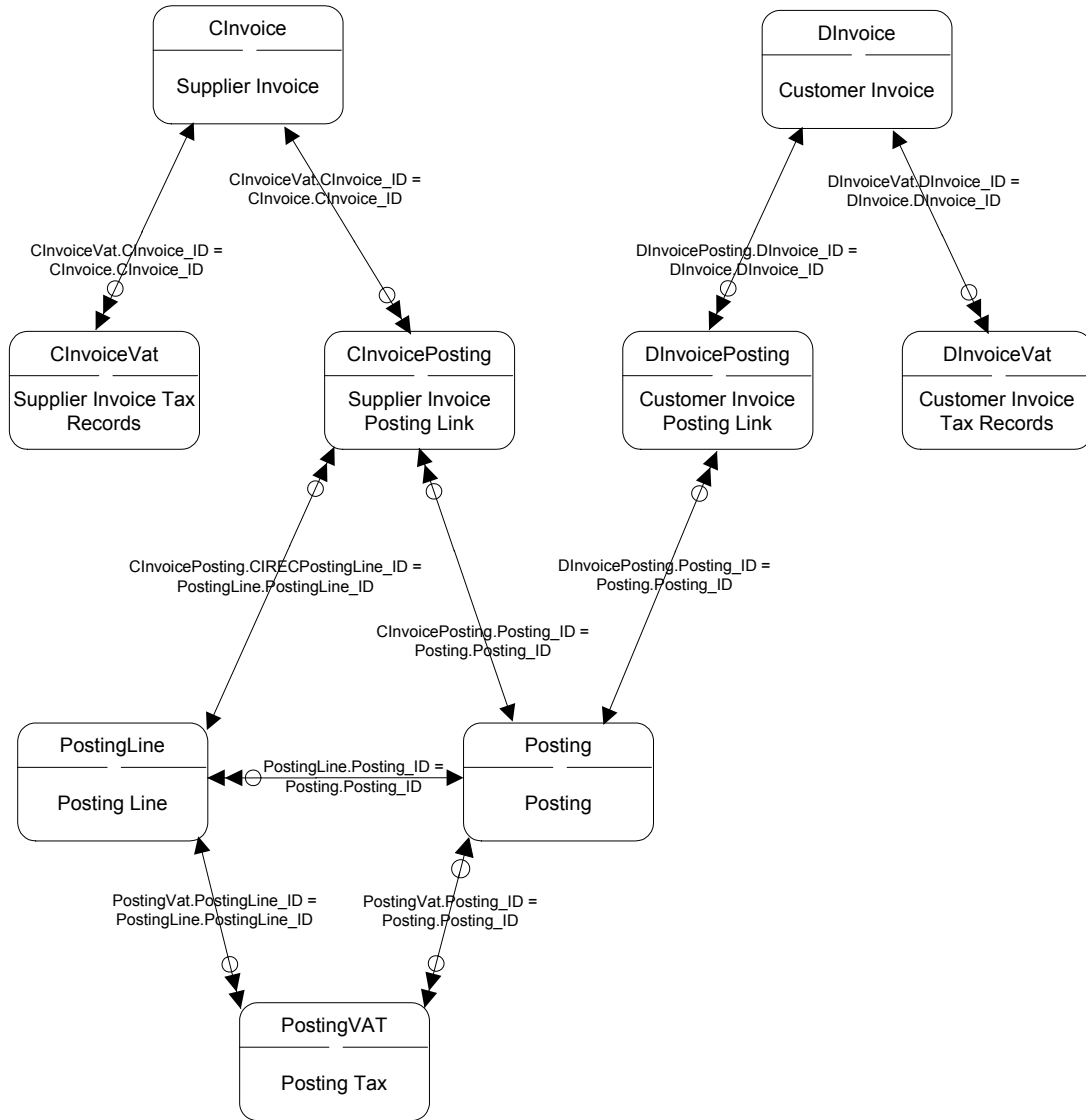


# Tax Register

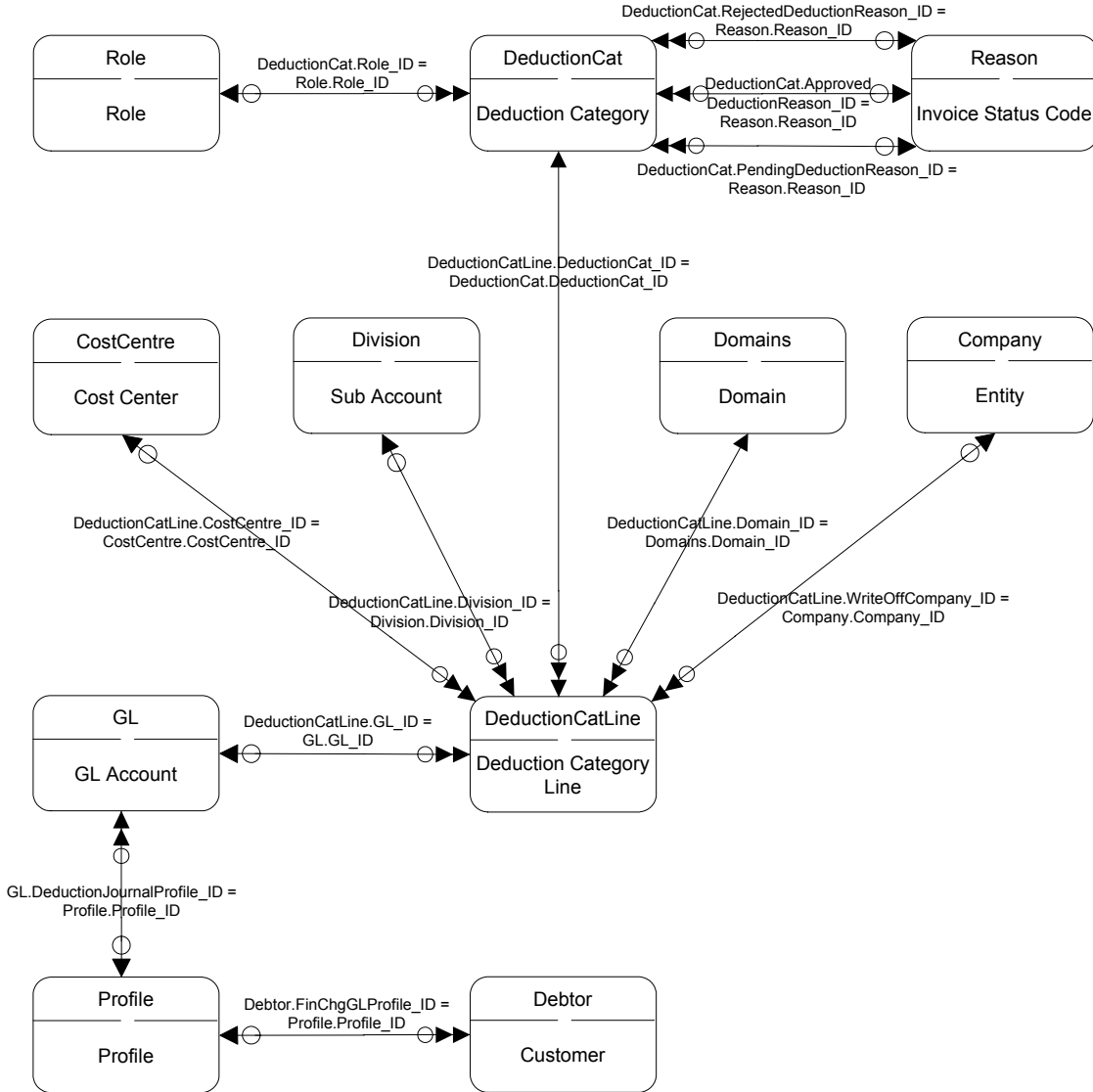


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero, One, or Multiple	Zero or One $\leftarrow \ominus \longrightarrow \text{  }$ One or Multiple Zero or One $\leftarrow \ominus \longrightarrow \text{  }$ More than One One and Only One $\leftarrow \ominus \longrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \longrightarrow \text{  }$ Zero, One, or Multiple One and Only One $\leftarrow \ominus \longrightarrow \text{  }$ One or Multiple One and Only One $\leftarrow \ominus \longrightarrow \text{  }$ More than One
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# Tax Transactions

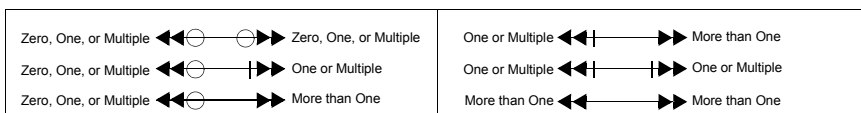
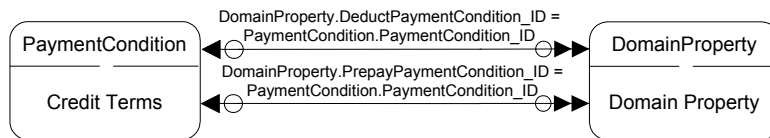
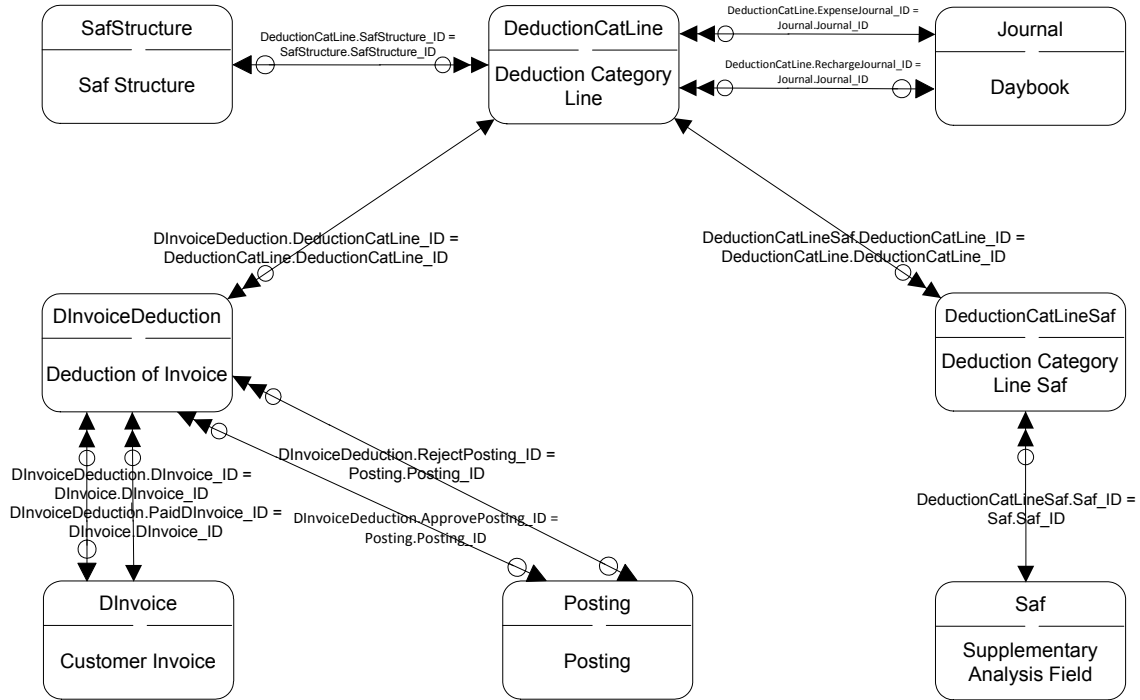


# TPM Deductions I

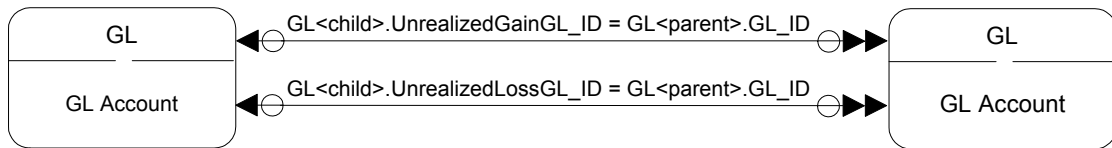


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \rightarrow$ More than One	One and Only One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \rightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashv \rightarrow$ More than One

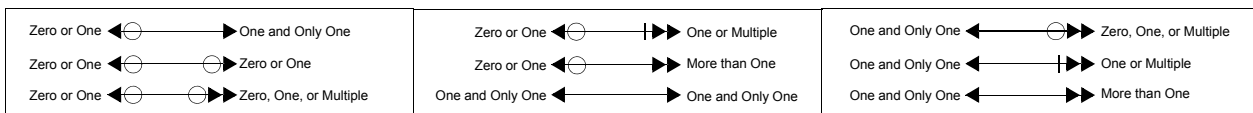
## TPM Deductions II



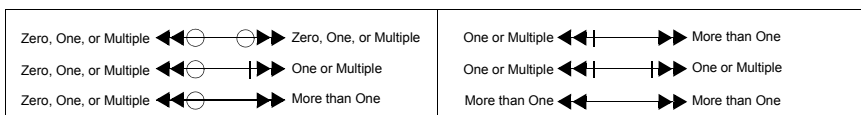
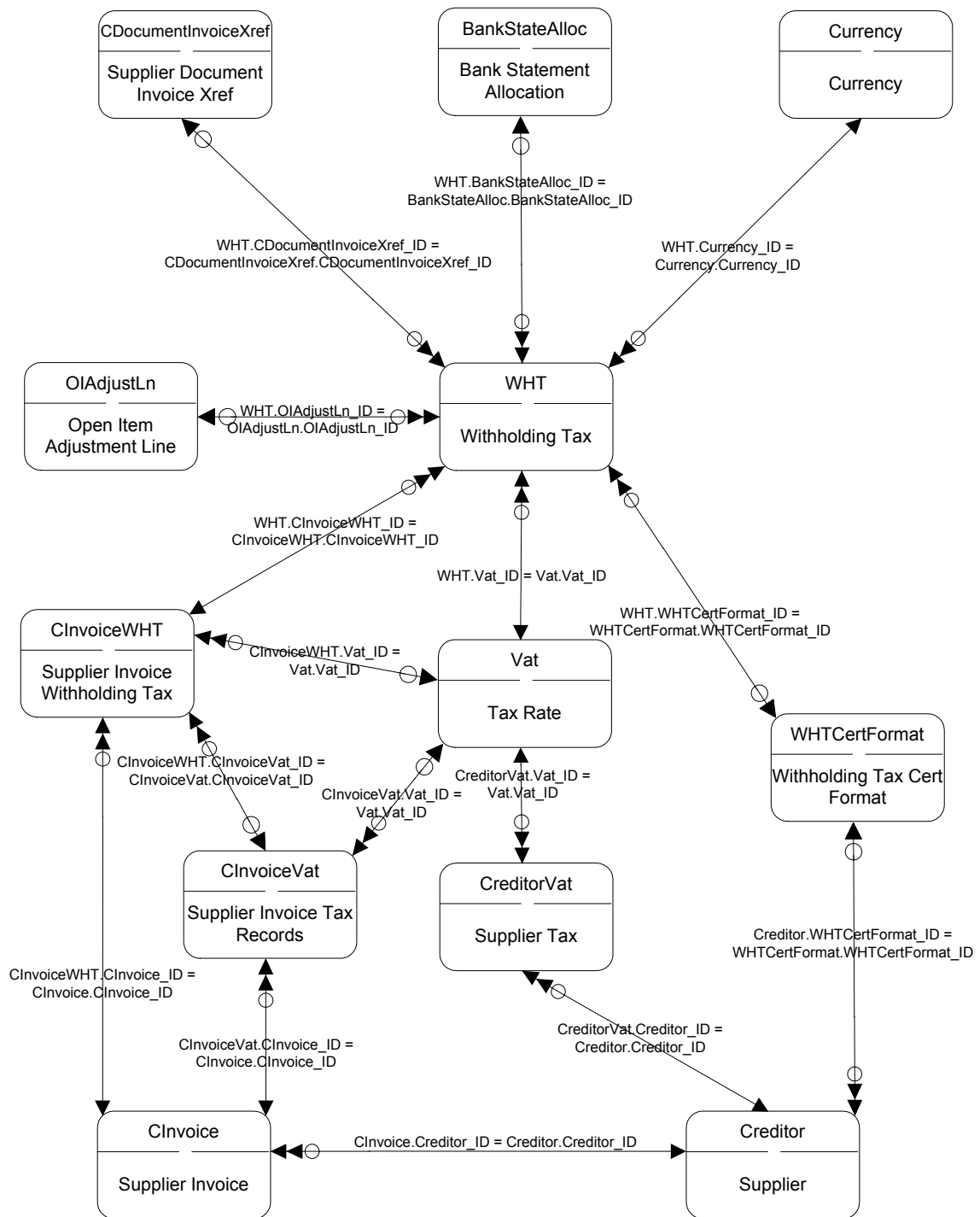
## Unrealized Gain/Loss



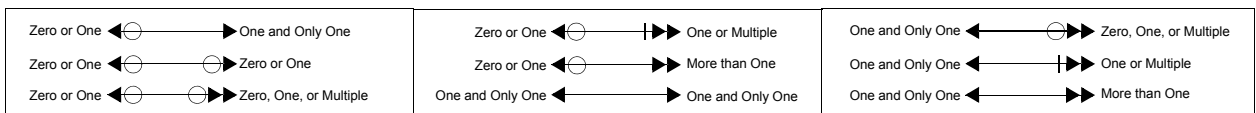
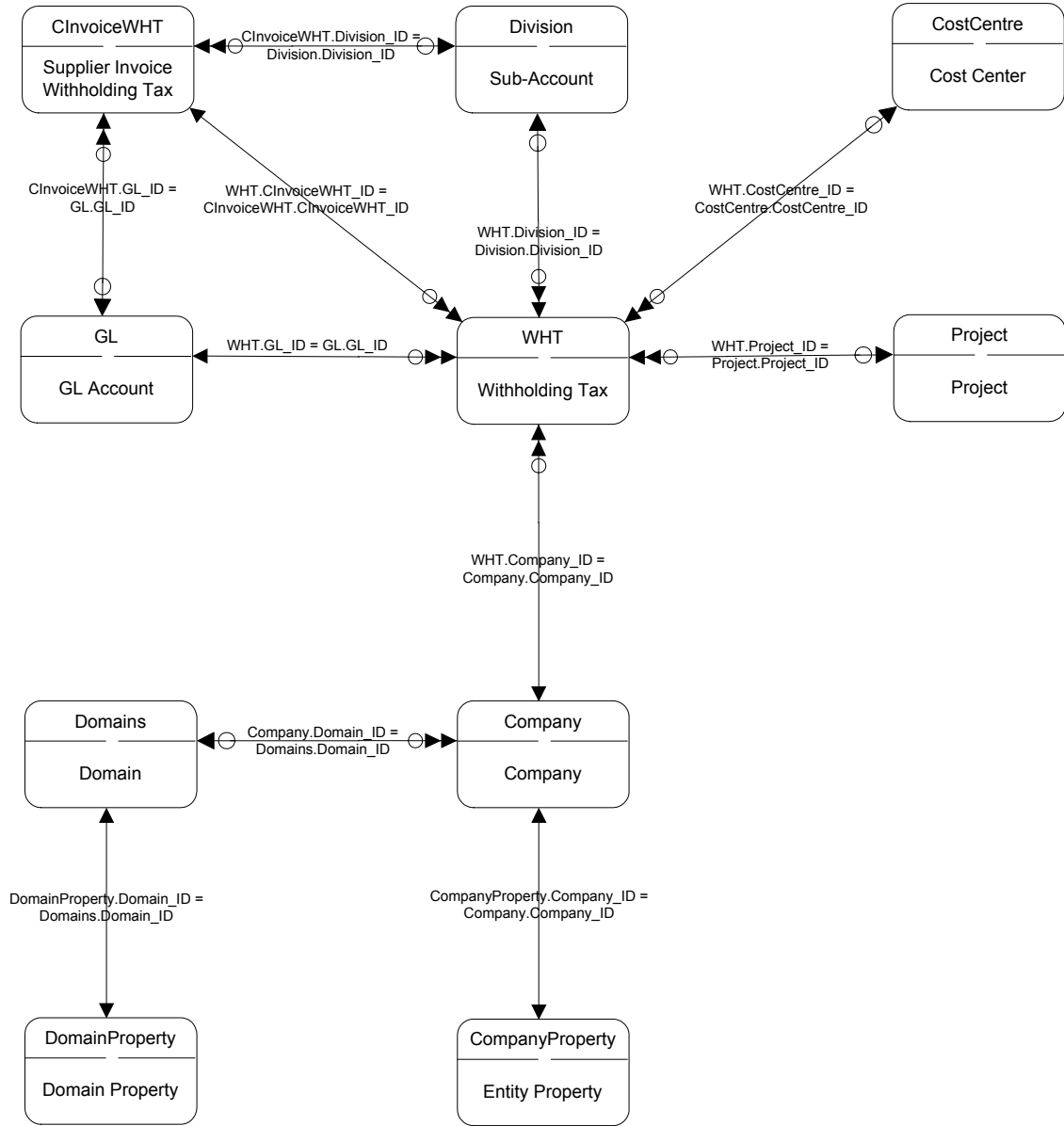
**Note:** The table on the left and the one on the right are in fact the same table.



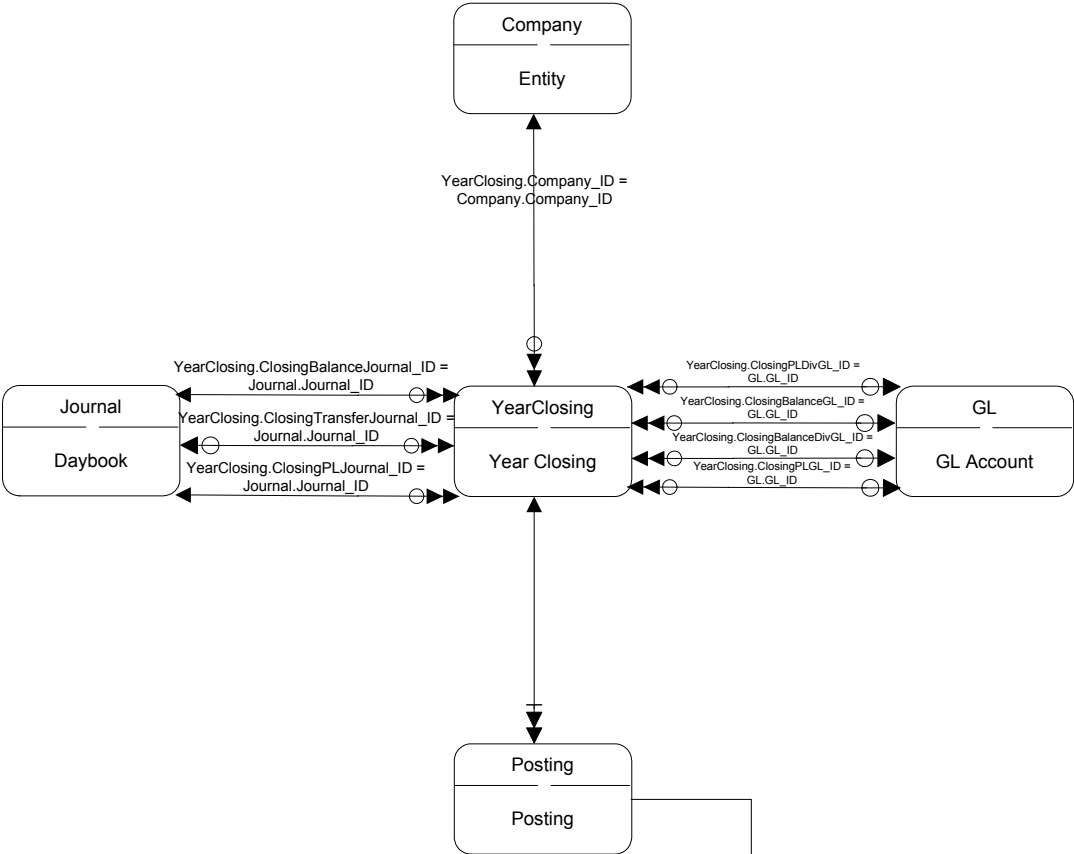
# Withholding Taxes I



## Withholding Taxes II

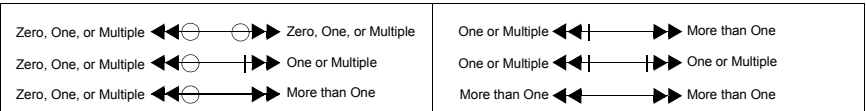


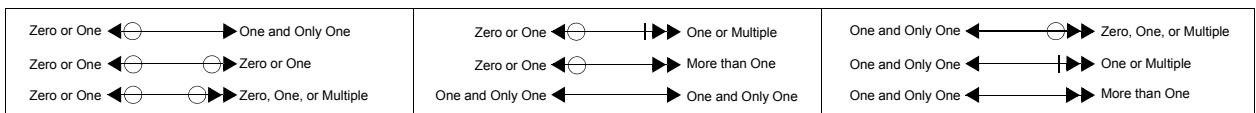
# Year End Close



**Notes:** The links between YearClosing and Posting (up to six different links) that are the result of executing the yearly closing are not stored in the database table; therefore, YearClosing has no fields named <prefix>Posting\_ID.

There is a logical relationship among these postings and the yearly closing; the postings are in the journal-type yearly closing.





## Section 3

# Add-ons Table Relationships

This section includes entity diagrams for Financial functions.

***Add-ons Entity Diagrams*** 311

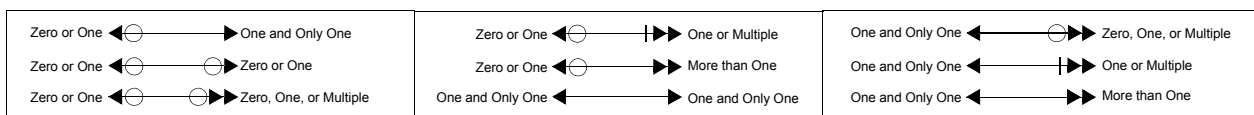
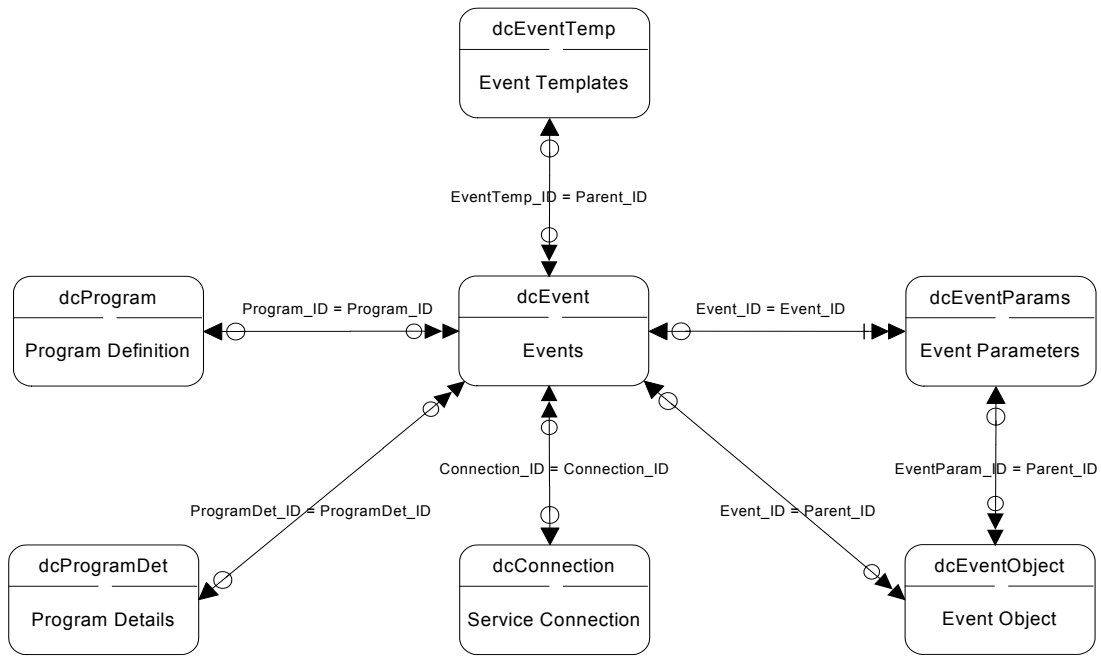


## **Add-ons Entity Diagrams**

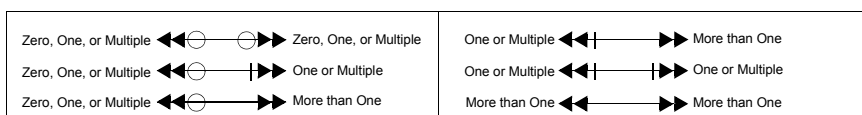
The entity diagrams are in alphabetical order by product name starting on the next page.

Table 7.1 on page 400 lists each table included in the diagrams and indicates the title of the diagram where the table appears.

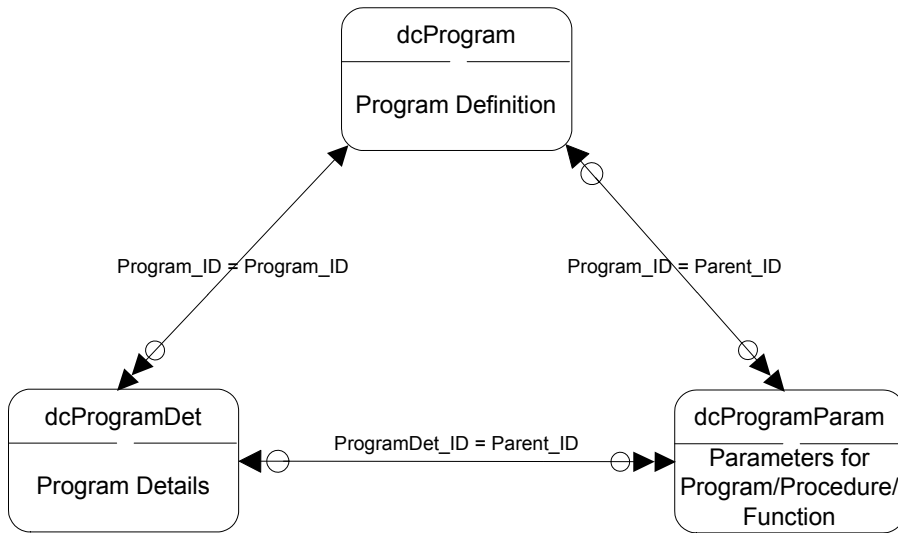
## Data Collection 3.1 Event Template



## Data Collection 3.1 Lookup Template

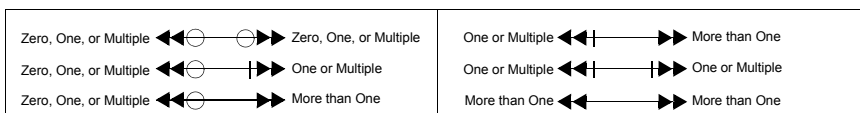
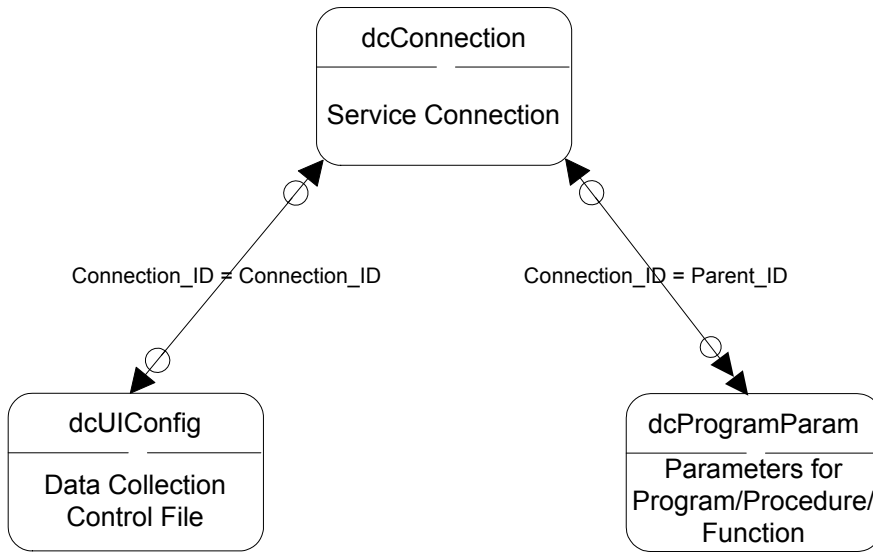


## Data Collection 3.1 Program Definition

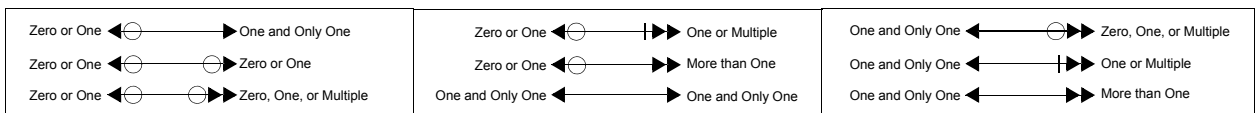
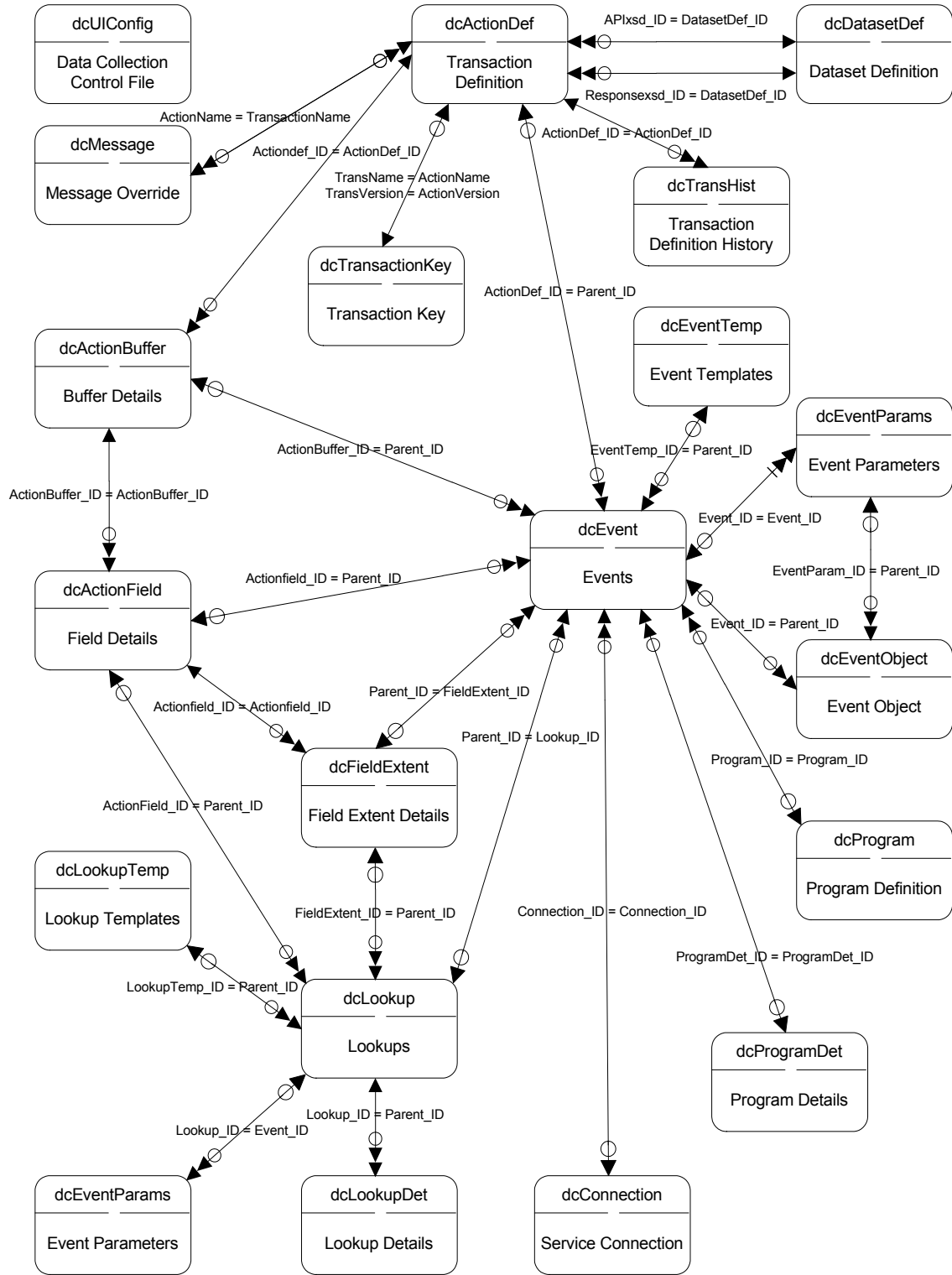


Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashrightarrow \dashrightarrow$ More than One	One and Only One $\leftarrow \ominus \dashrightarrow \dashrightarrow$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashrightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashrightarrow \dashrightarrow$ One and Only One	One and Only One $\leftarrow \ominus \dashrightarrow \dashrightarrow \dashrightarrow$ More than One

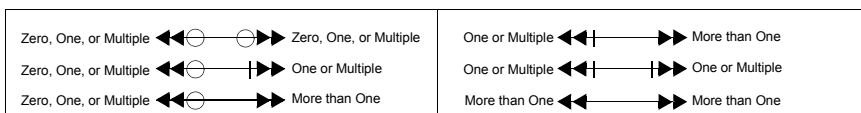
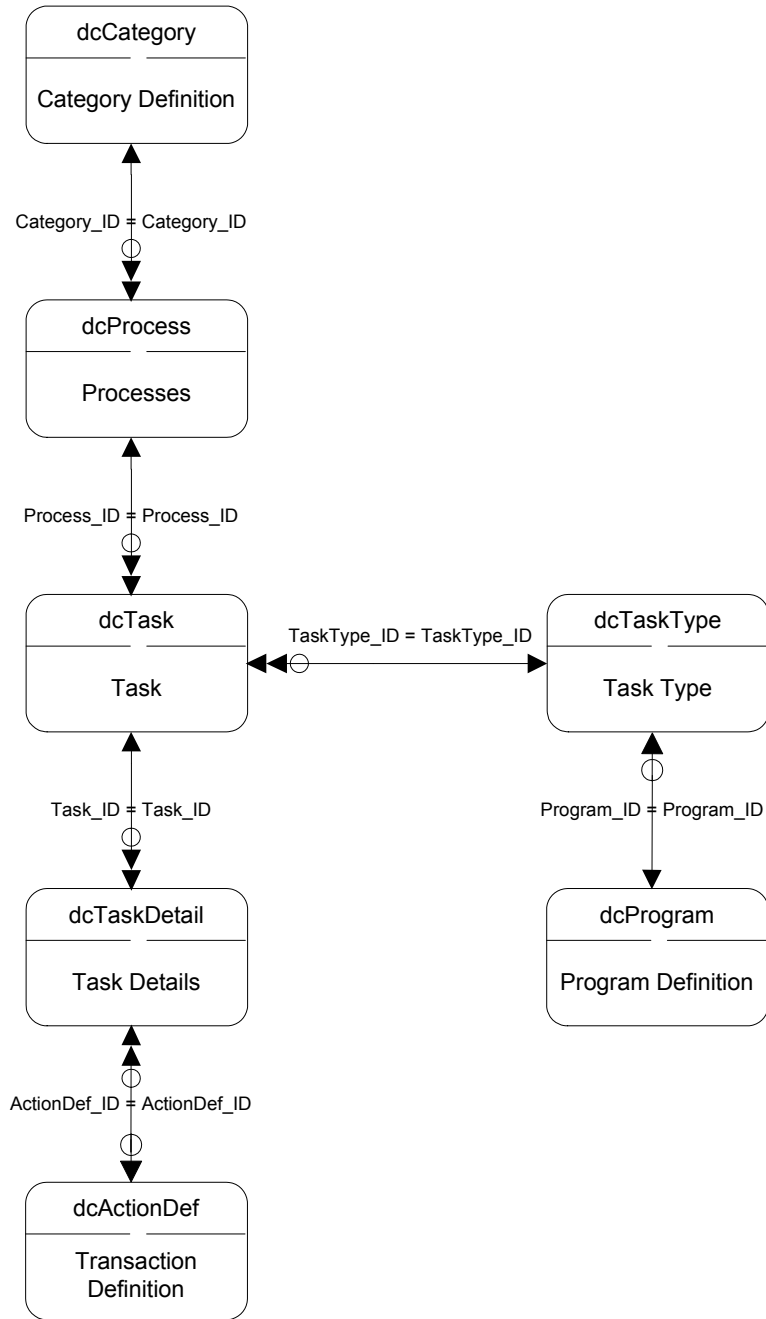
## Data Collection 3.1 Service Connection



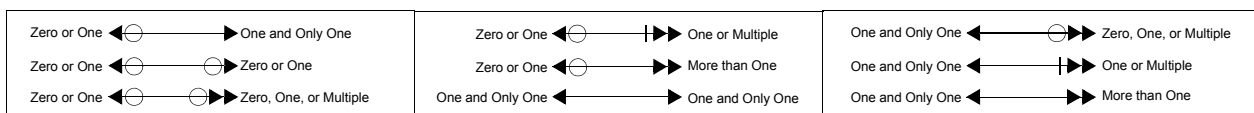
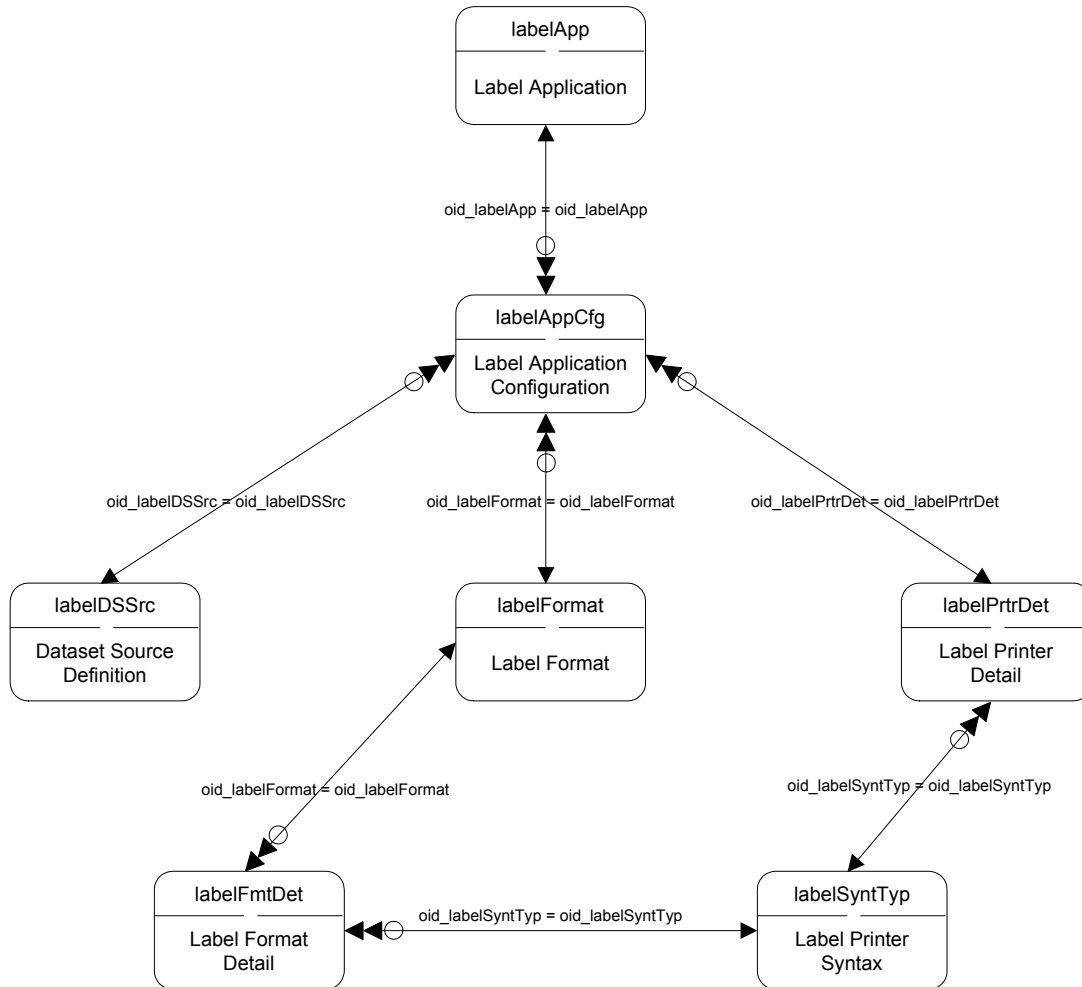
## Data Collection 3.1 Transaction Definition



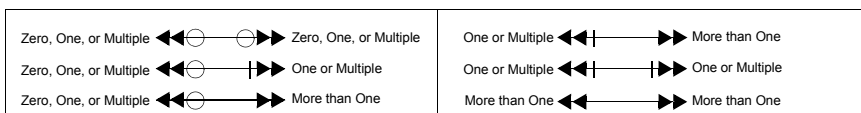
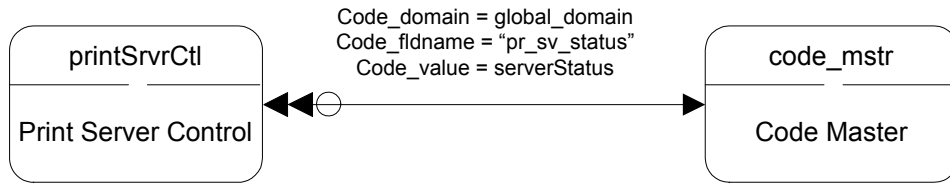
## Data Collection 3.1 Transaction Menu



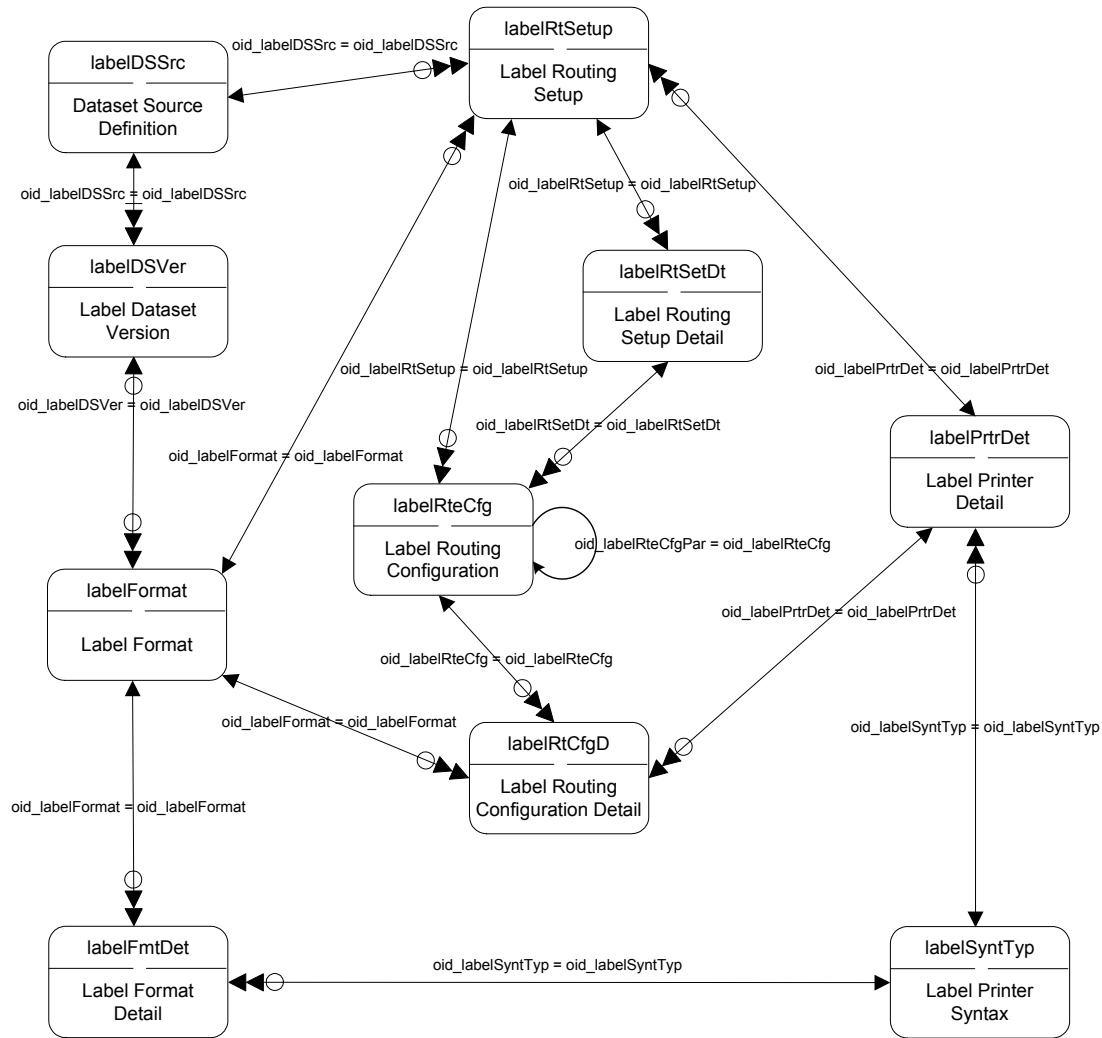
## Label Printing Service 3.1 Application Configuration



## Label Printing Service 3.1 Auto Release Startup

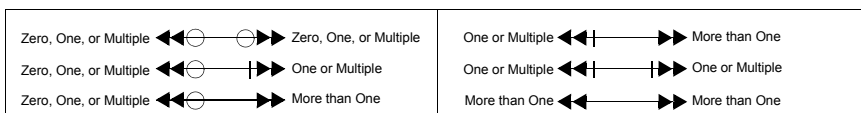
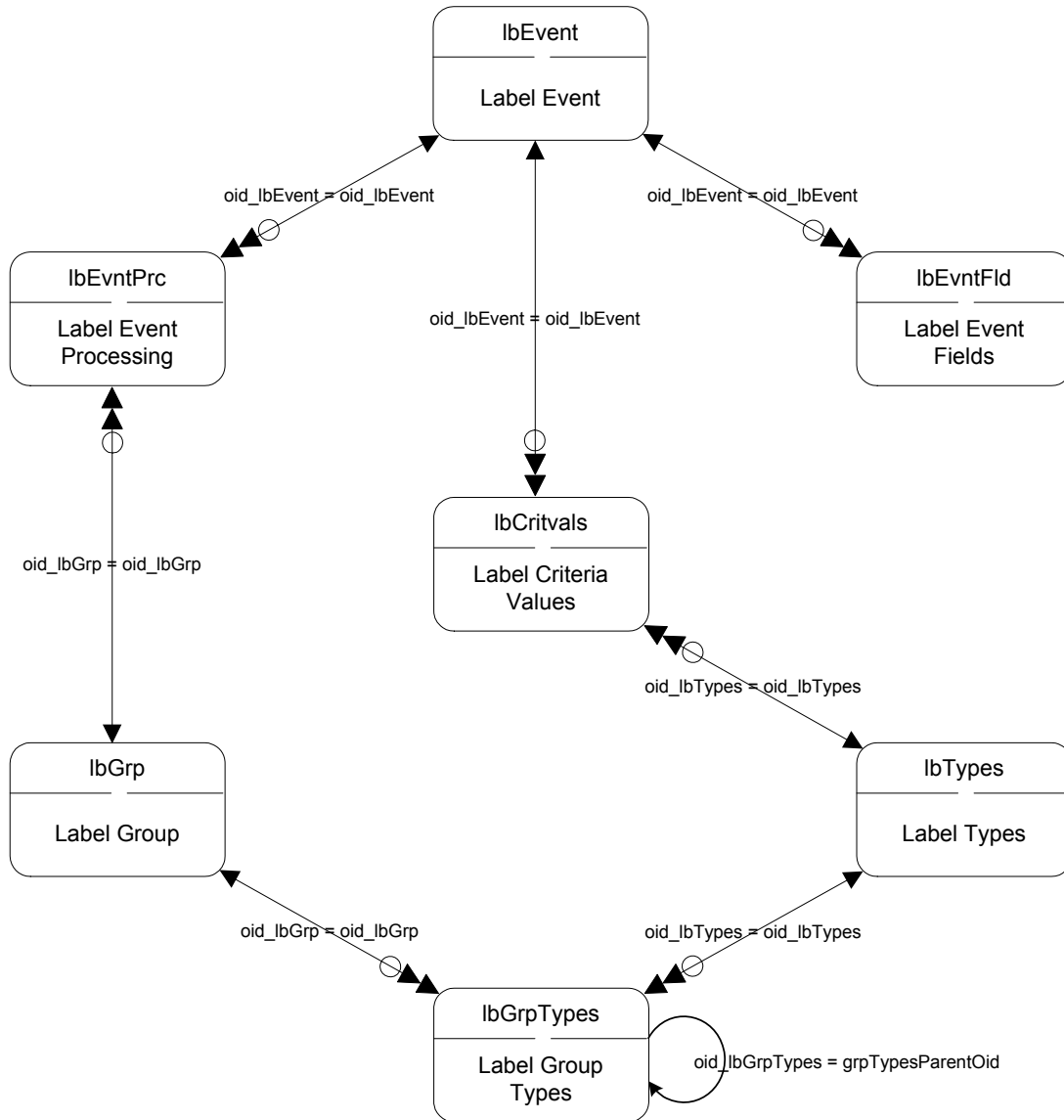


## Label Printing Service 3.1 Label Content Routing



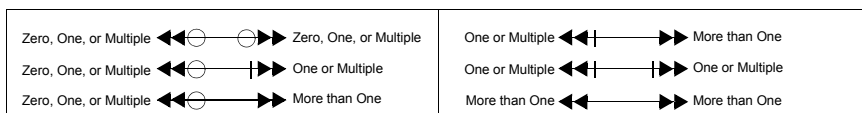
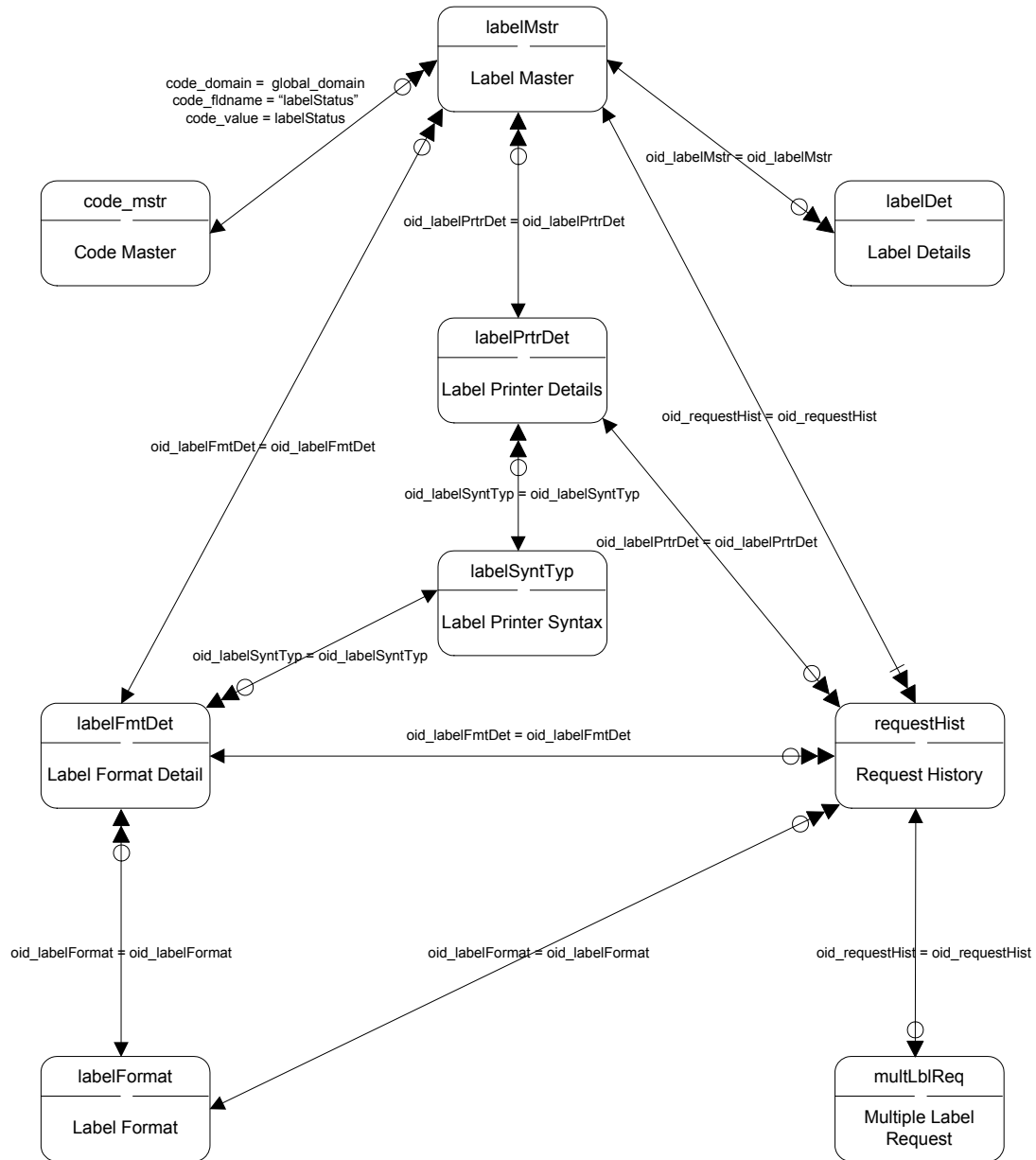
Zero or One $\leftarrow \ominus \longrightarrow$ One and Only One	Zero or One $\leftarrow \ominus \dashv \longrightarrow$ One or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus$ Zero or One	Zero or One $\leftarrow \ominus \dashv \longrightarrow \dashv$ More than One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One or Multiple
Zero or One $\leftarrow \ominus \longrightarrow \ominus \dashv$ Zero, One, or Multiple	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv$ One and Only One	One and Only One $\leftarrow \ominus \dashv \longrightarrow \dashv \dashv$ More than One

## Label Printing Service 3.1 Label Extract Configuration

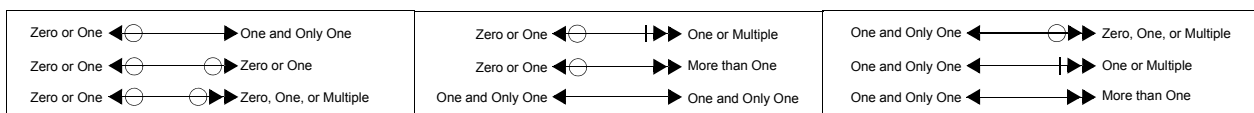
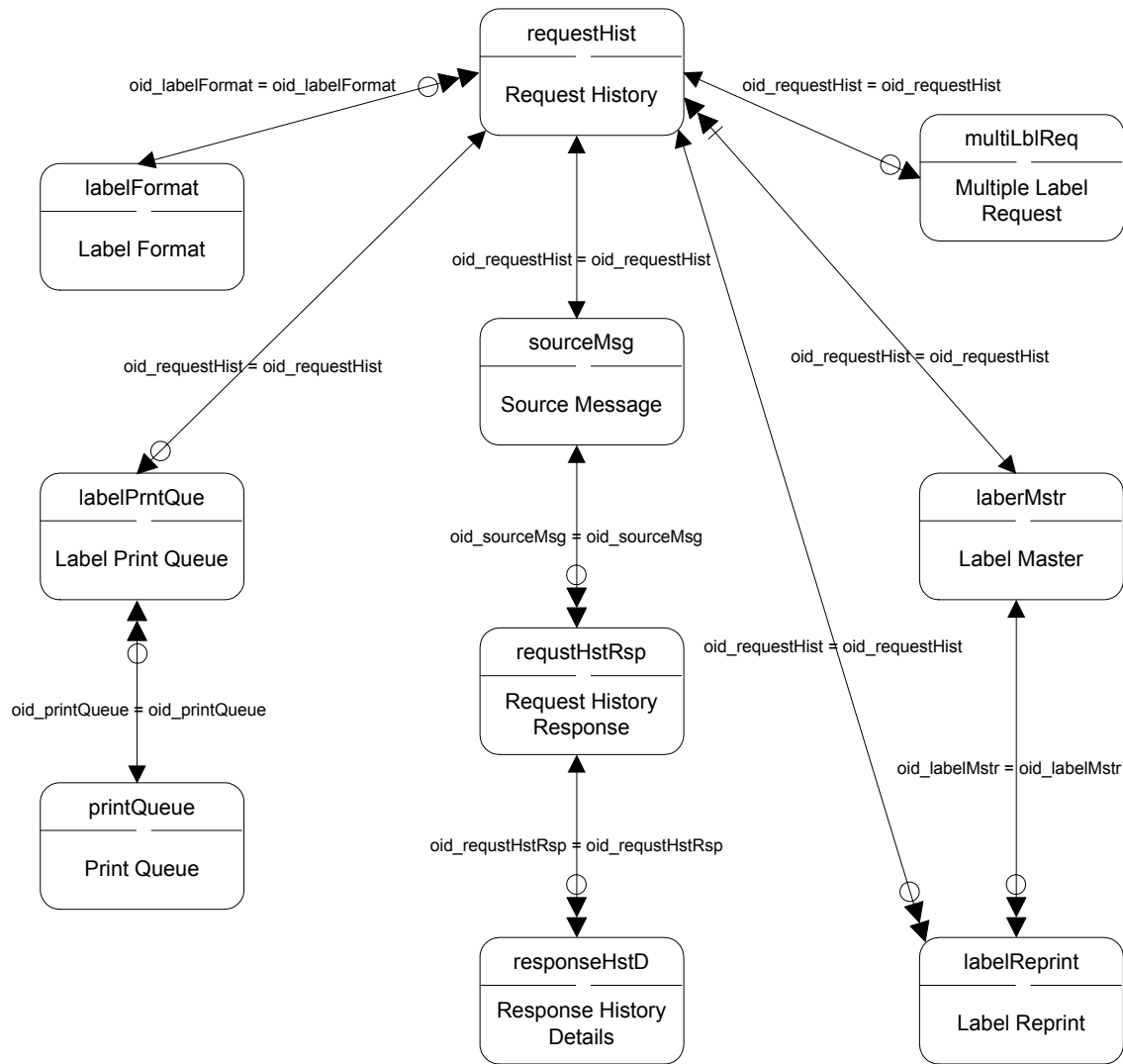




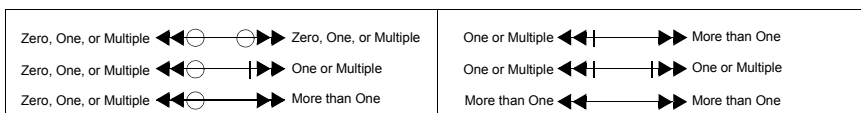
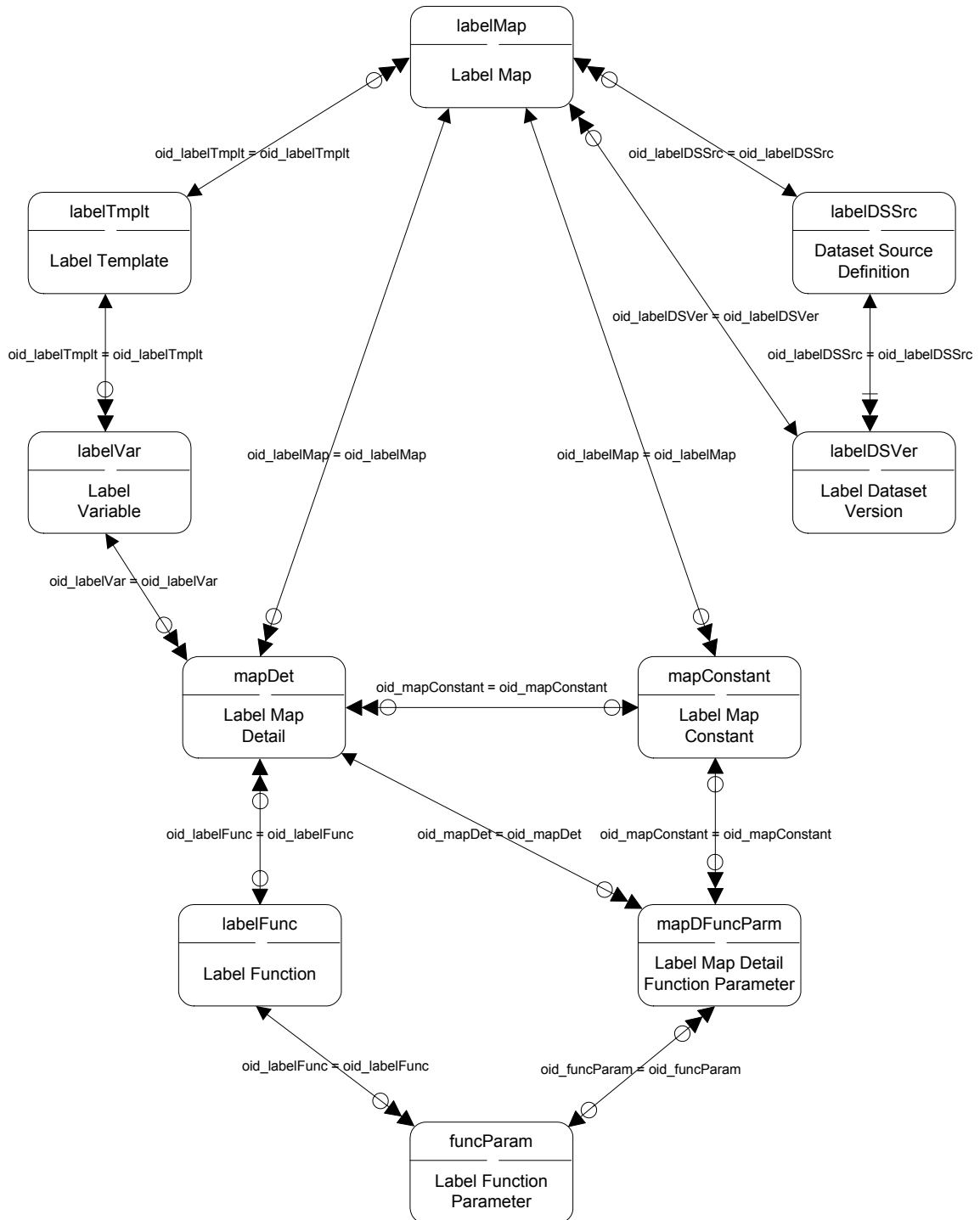
## Label Printing Service 3.1 Label Maintenance



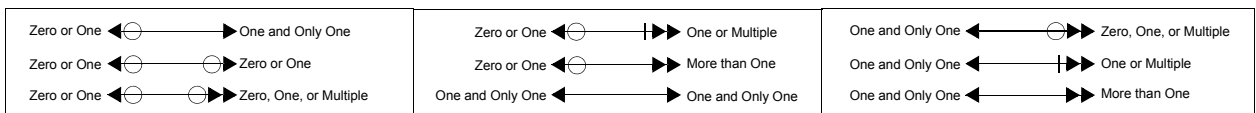
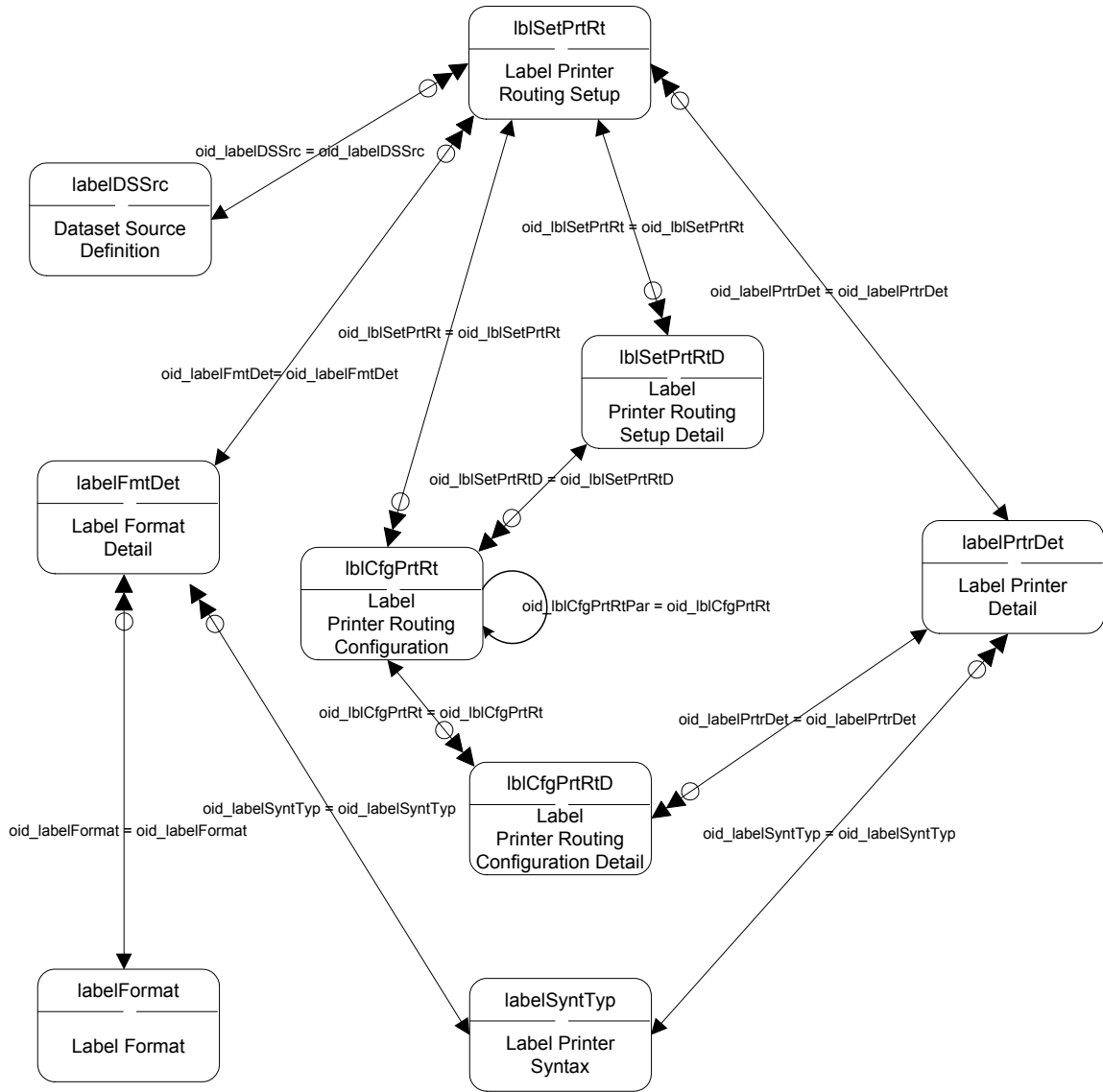
## Label Printing Service 3.1 Label Manual Release



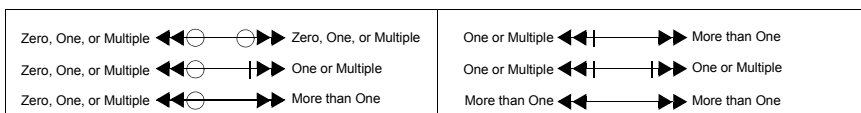
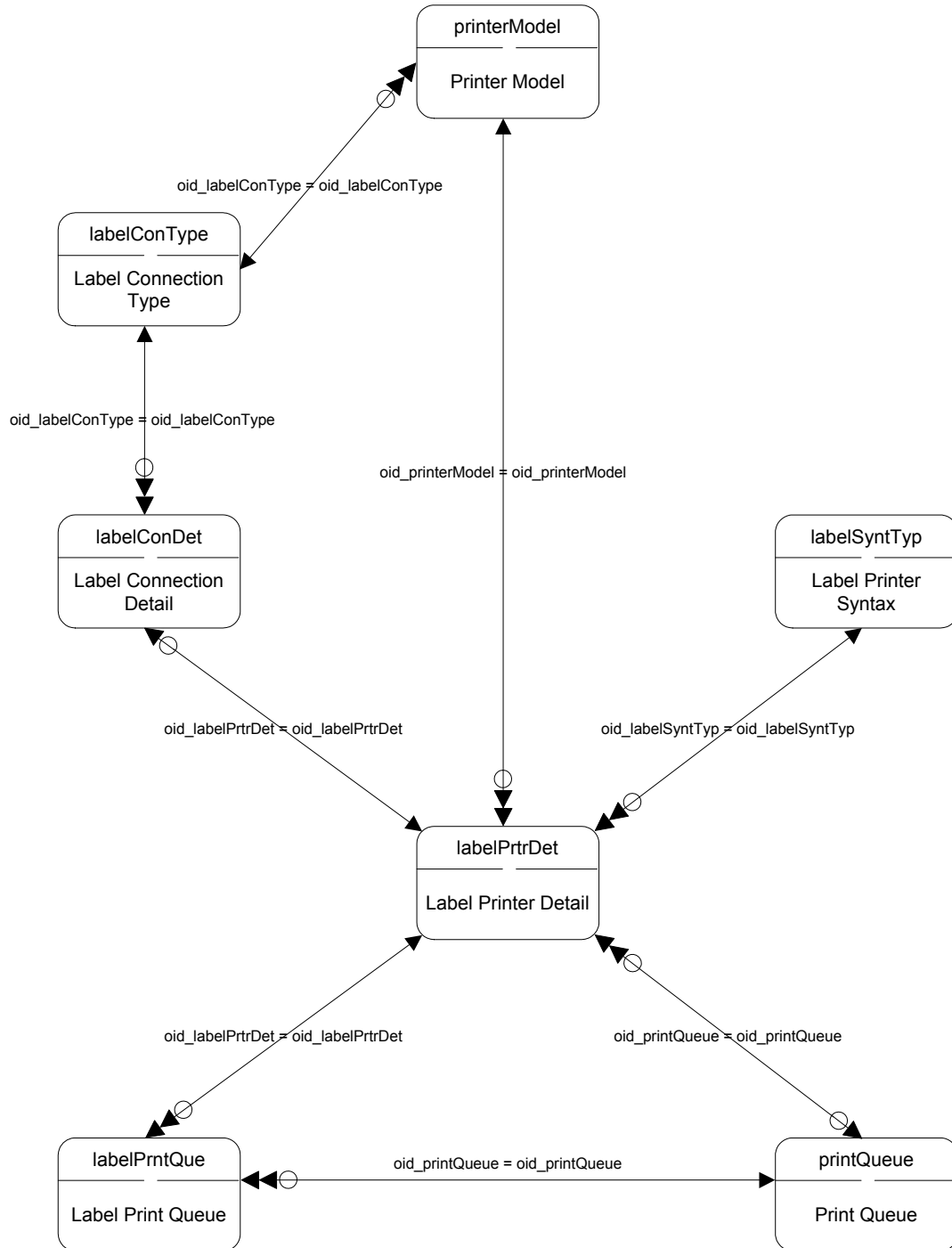
## Label Printing Service 3.1 Label Mapping



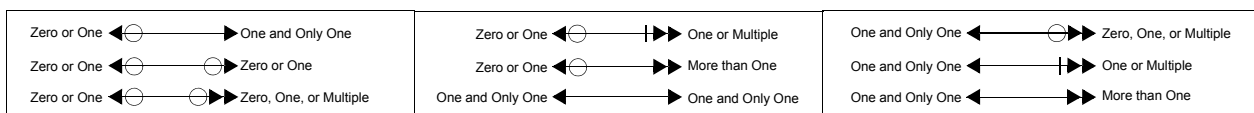
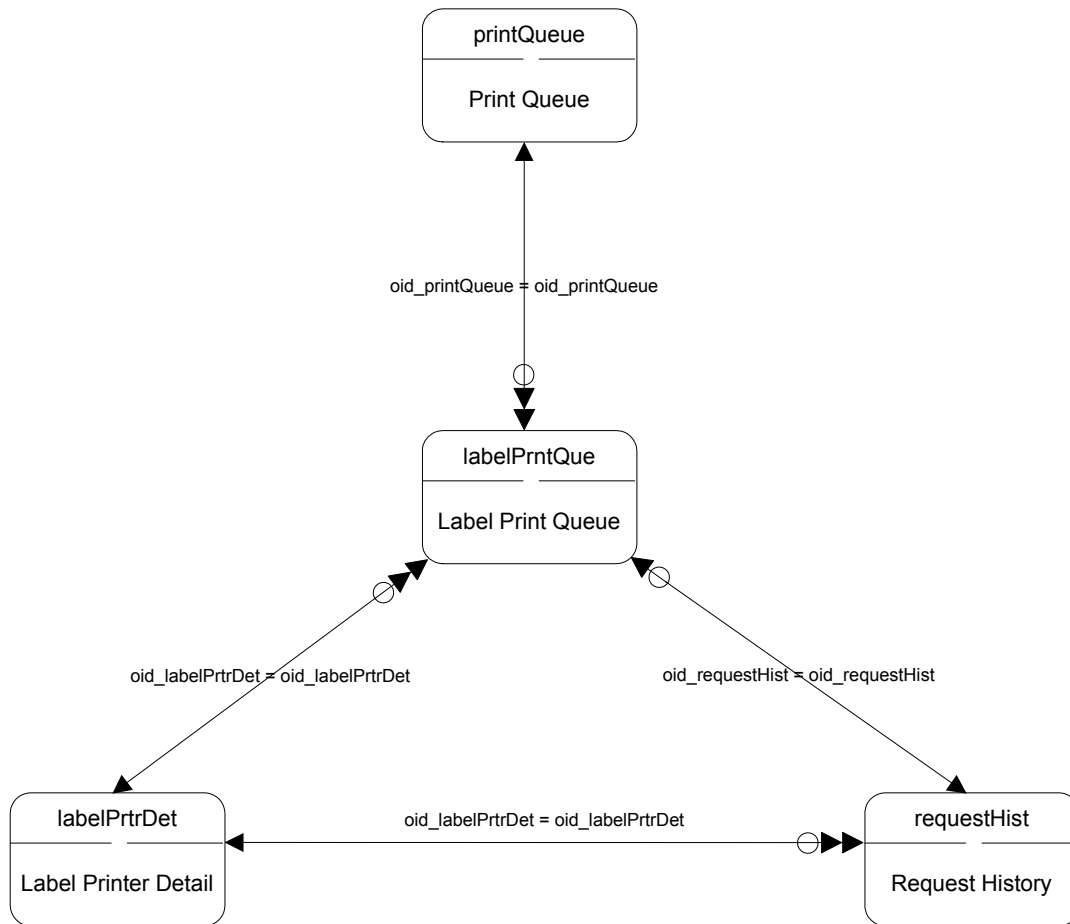
## Label Printing Service 3.1 Label Printer Routing



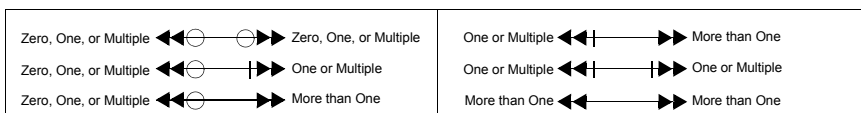
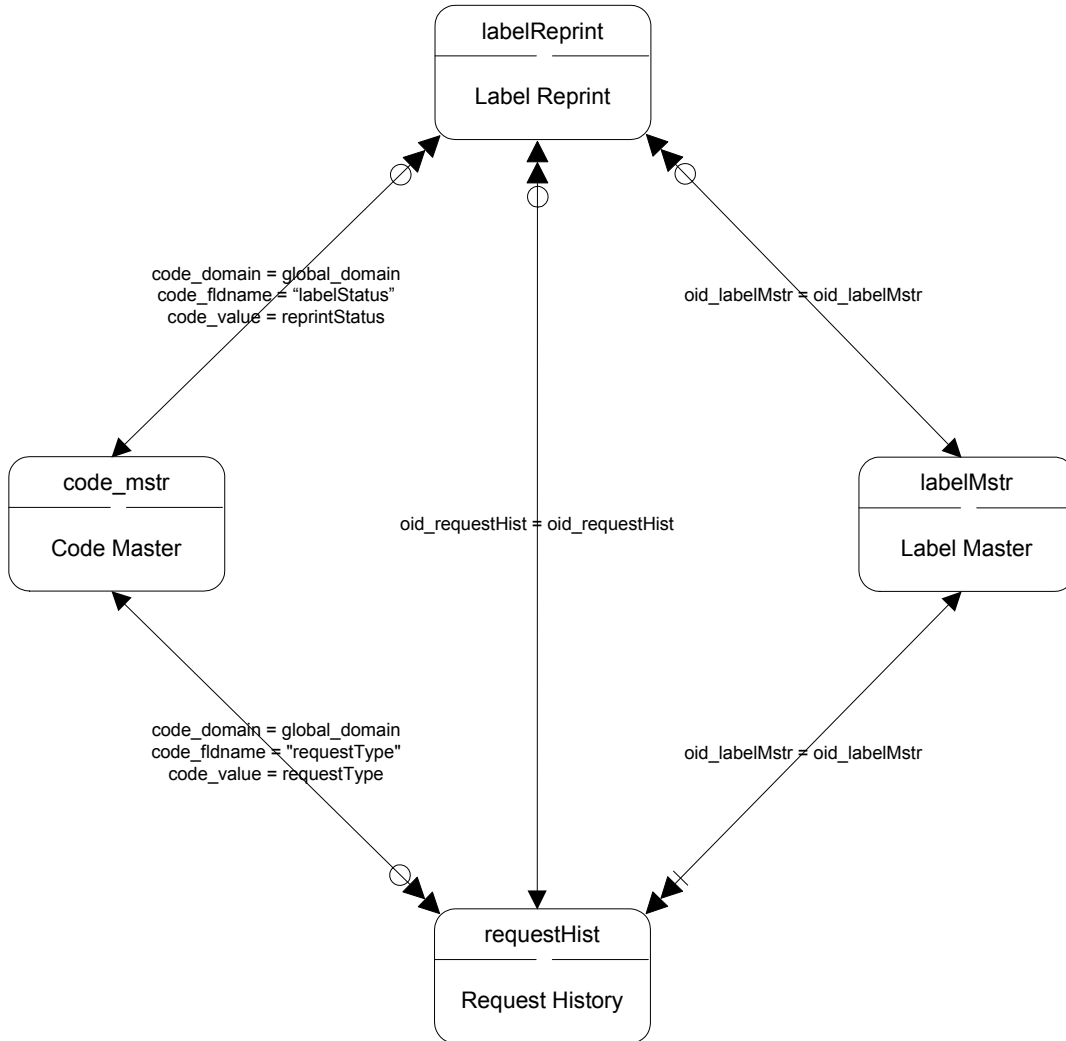
## Label Printing Service 3.1 Label Printer Setup



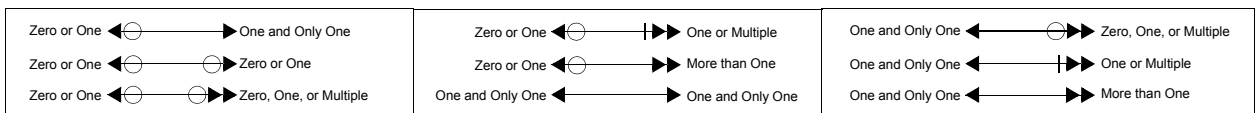
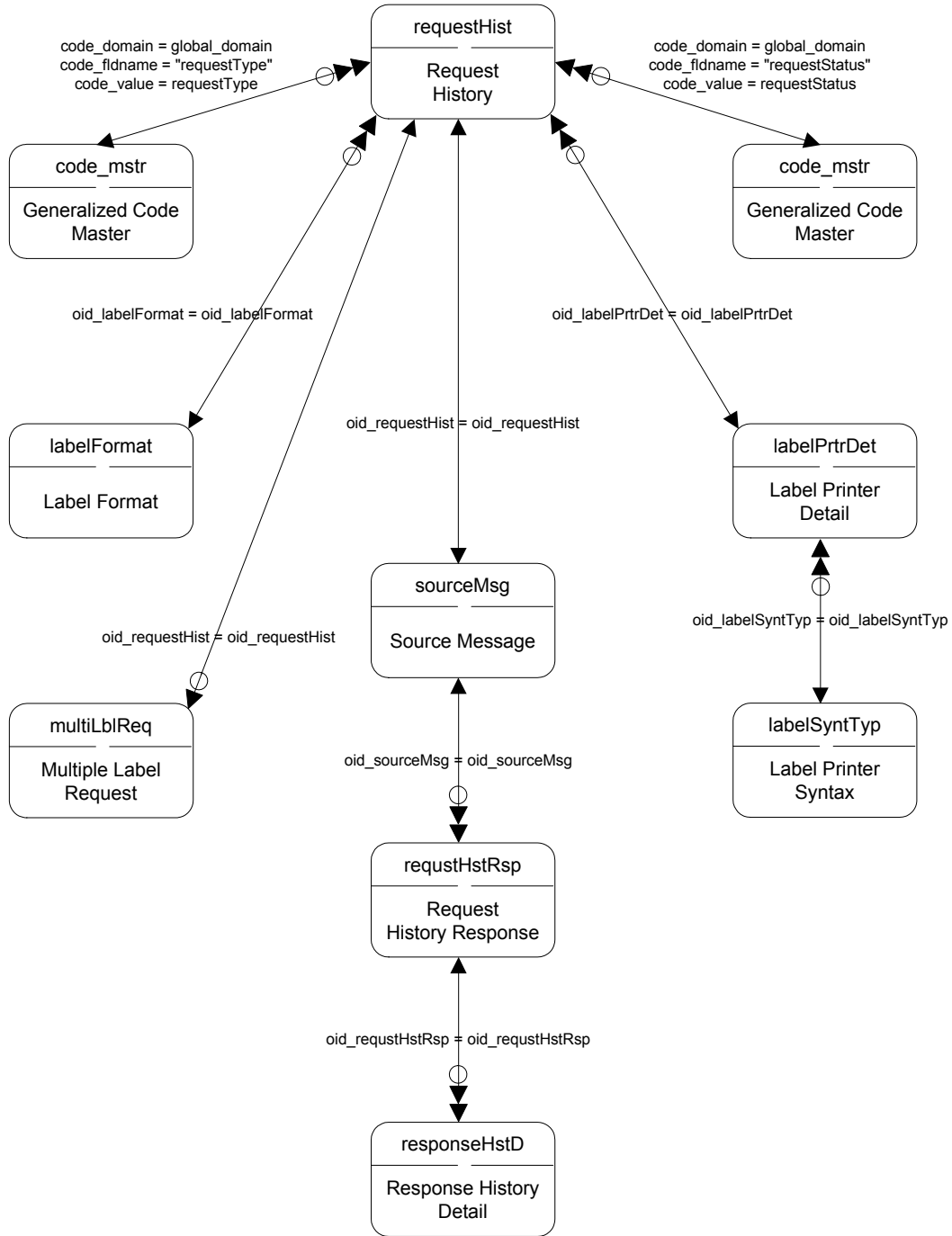
## Label Printing Service 3.1 Label Queue Monitor



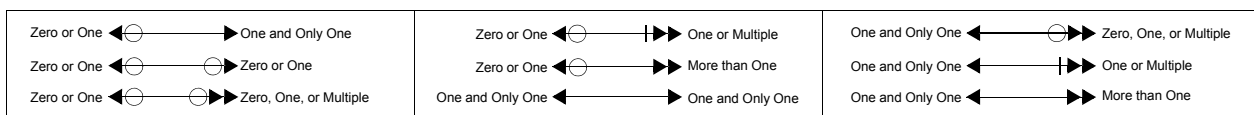
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## Label Printing Service 3.1 Label Request History







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