



QAD Adaptive Applications
Enterprise Edition

Technical Reference Entity Diagrams

70-3160-2022EE
QAD Enterprise Edition 2022
September 2022

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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 2022/v2022 EE	Made corrections to Financials Customer Replication diagram	page 231
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

Date/Version	Description	Reference
	Added Label Printing Service 3.1 Label Extract Configuration	page 321
	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
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	Revenue Recognition Calculation I	page 272
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	Revenue Recognition Contract Invoice View	page 274
	Revenue Recognition Contract Maintenance I	page 275
	Revenue Recognition Contract Maintenance II	page 276
	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

Date/Version	Description	Reference
	Unrealized Gain/Loss	page 304
	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

Date/Version	Description	Reference
	Added new diagram: Financials vs Operations Replication II	page 248
	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 OlAdjustLn 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:

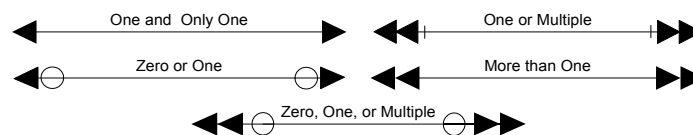
- Original Entity Diagrams
- 2020+ Entity Diagrams

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.

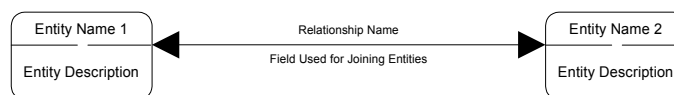
The five relationship lines are displayed in Figure 1.1

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

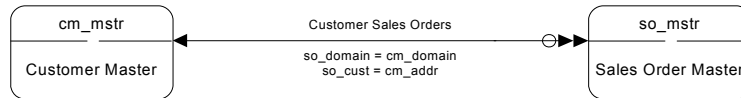


A bar symbol (|) indicates an OR relationship when more than one field can be used for joining.

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



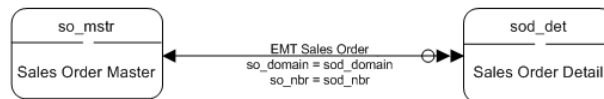
To join these two tables within Progress, you would set so_cust equal to cm_addr or vice versa.

```

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.

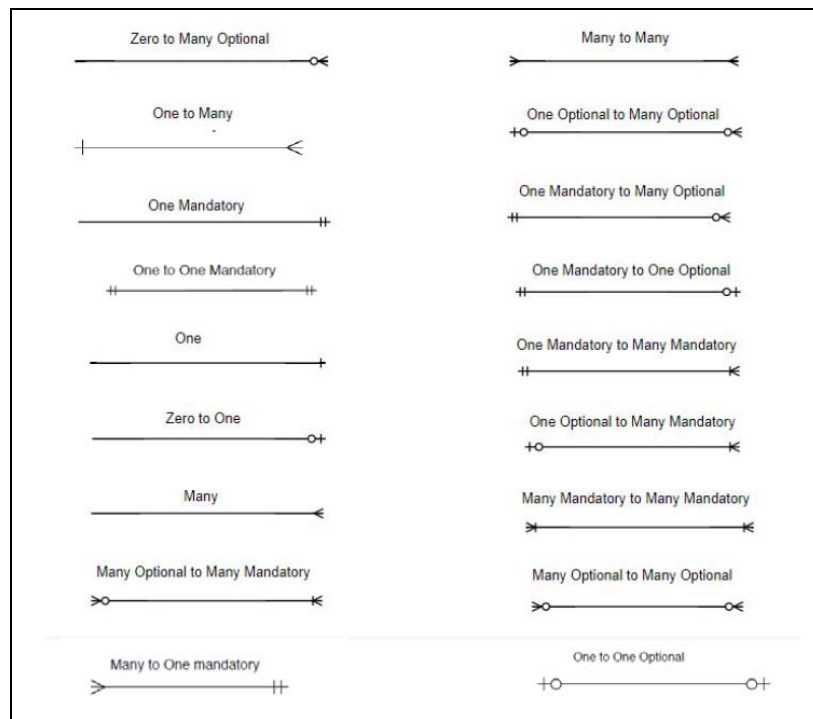
```

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:

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.

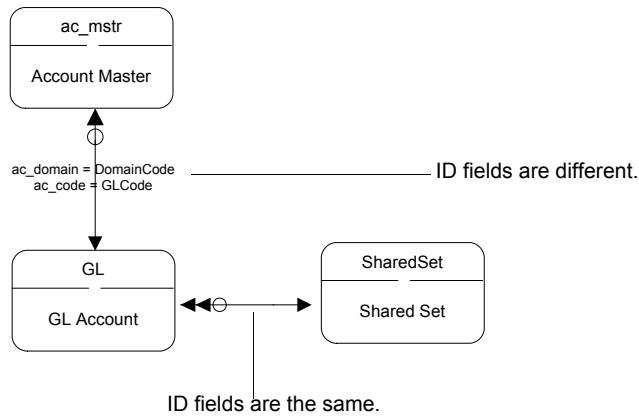
Example The repetitive production schedule (`rps_mstr`) table includes fields named `rps_part` and `rps_record`.

Financial Tables

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

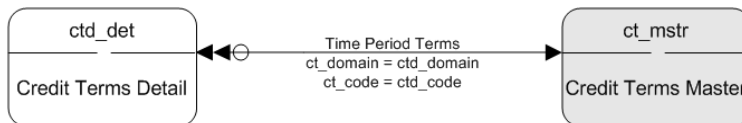
- The key to most relationships between financial tables is an ID field. In most cases, the ID field is the same for both tables. When they are the same, the ID field is not included in the financial entity diagrams. When the ID field is not the same, it is included; see Figure 1.6 on page 6.
- Some 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.

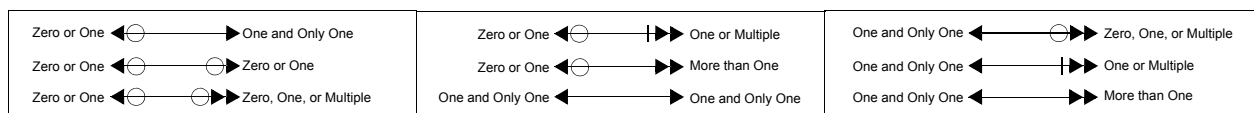
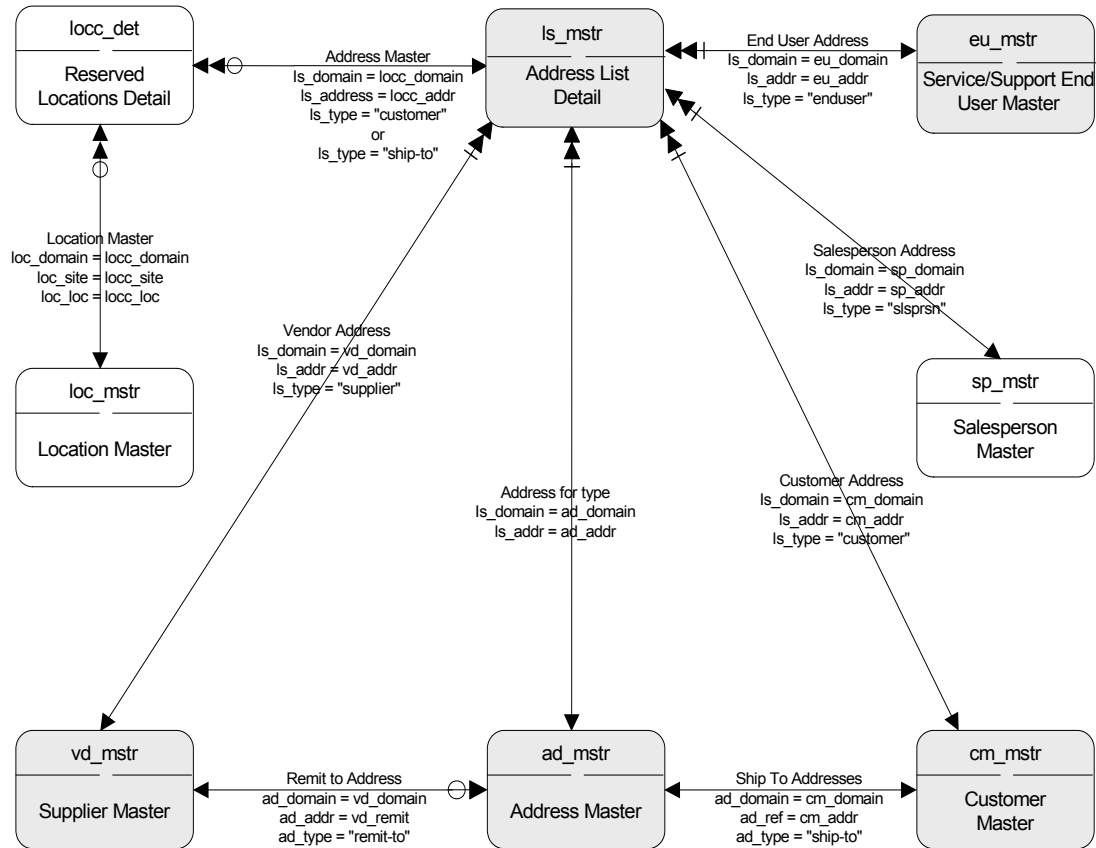
Operational Entity Diagrams **9**

Operational Entity Diagrams

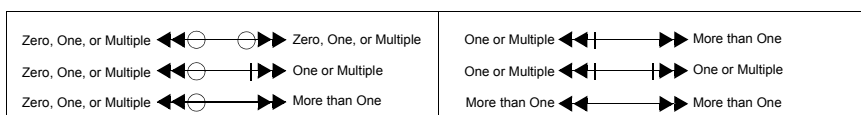
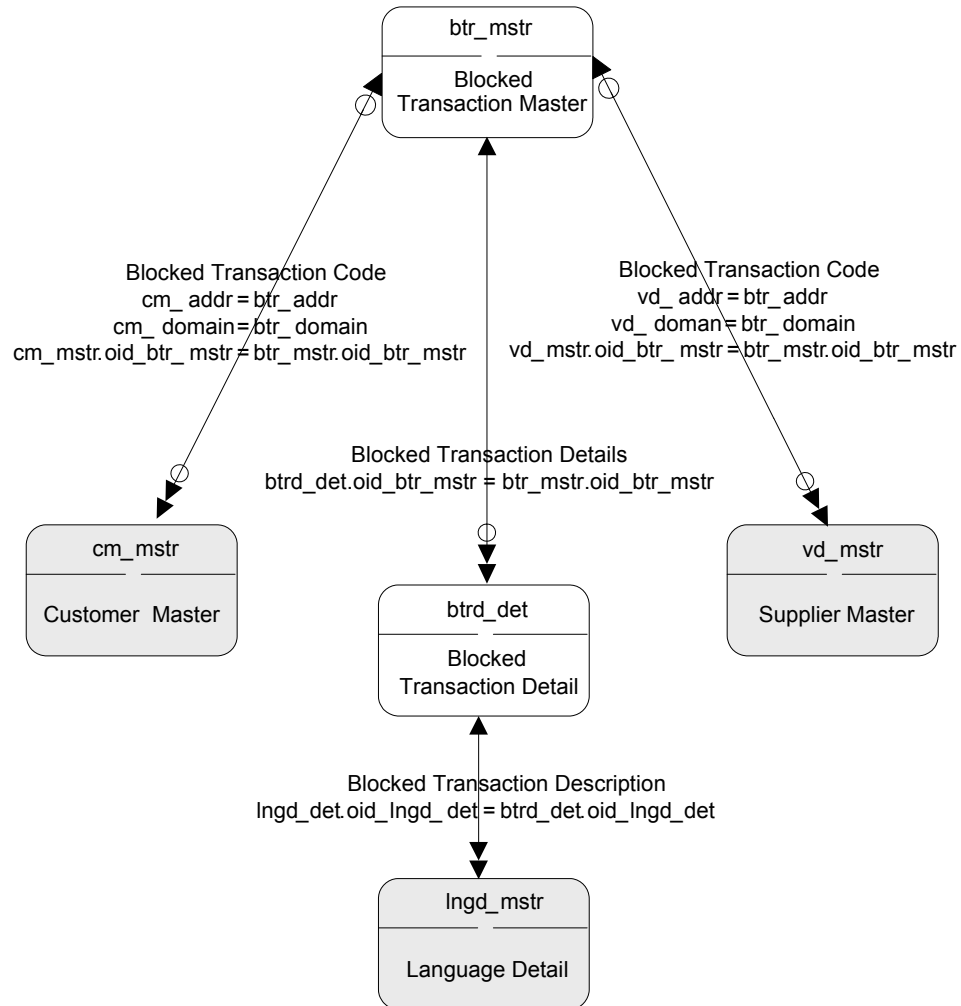
The entity diagrams are in alphabetical order starting on the next page.

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

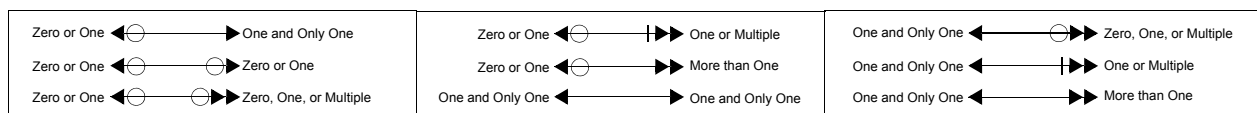
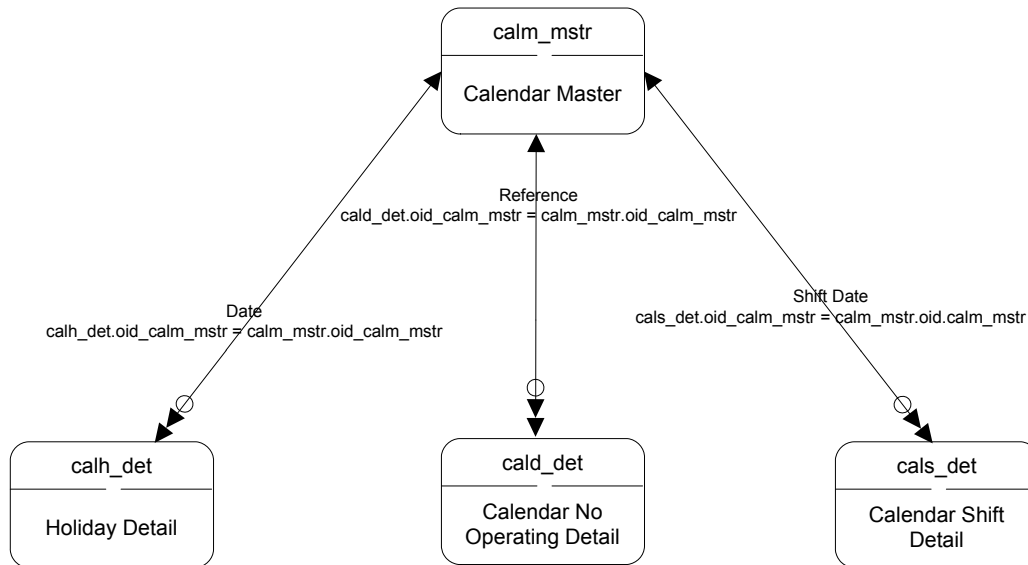
Addresses



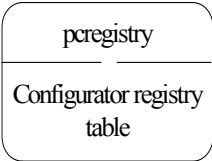
Blocking Transaction



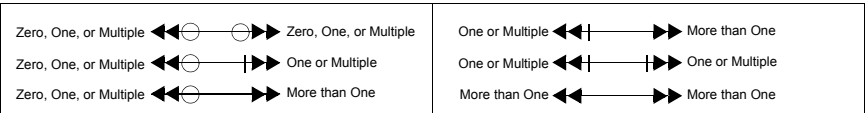
Calendars



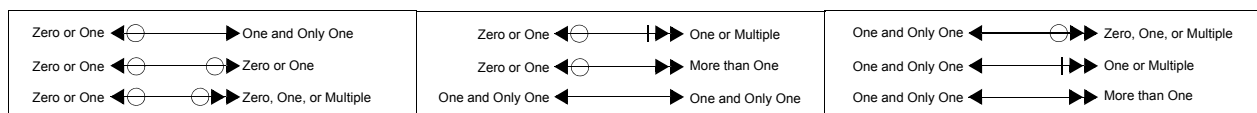
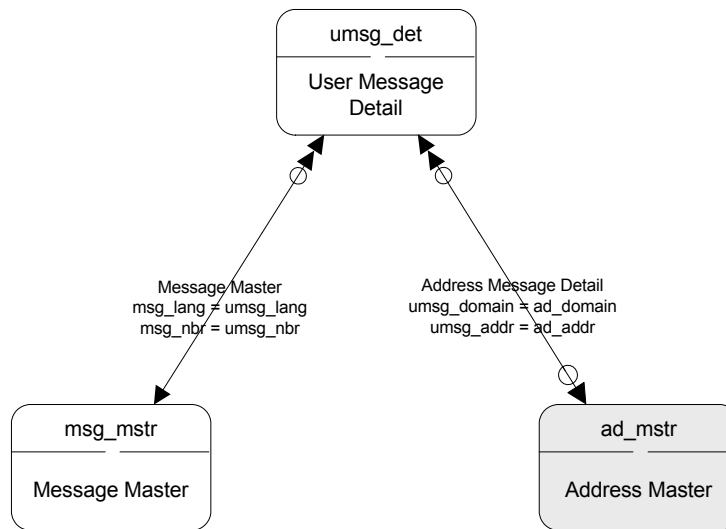
Configurator - PC Registry



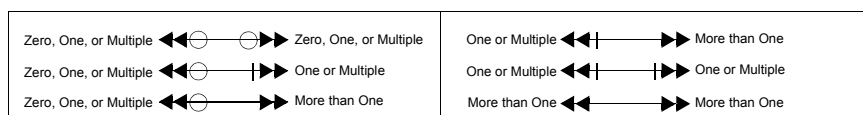
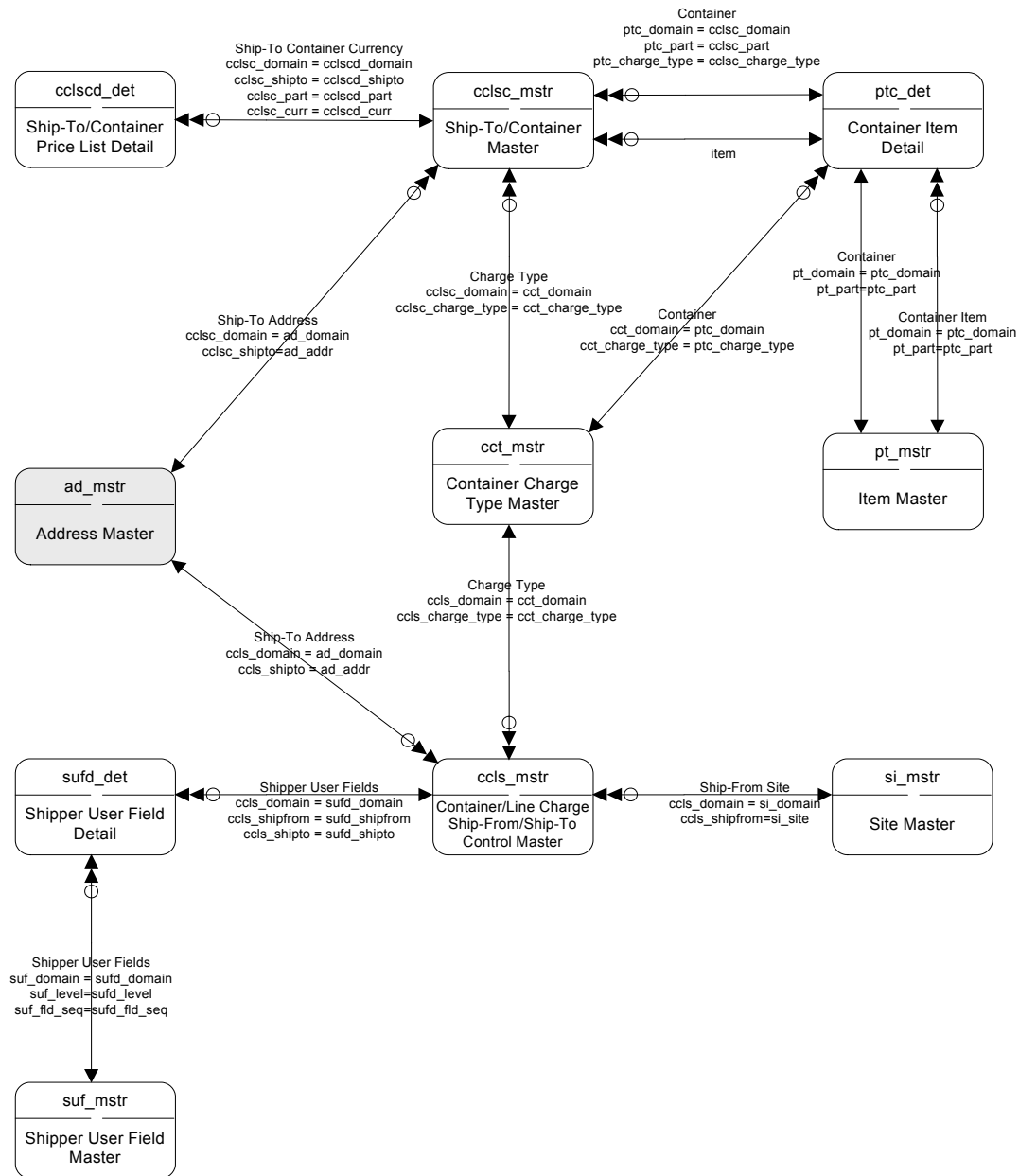
Note: This table stores some Configurator control settings. It does not link to any other tables.



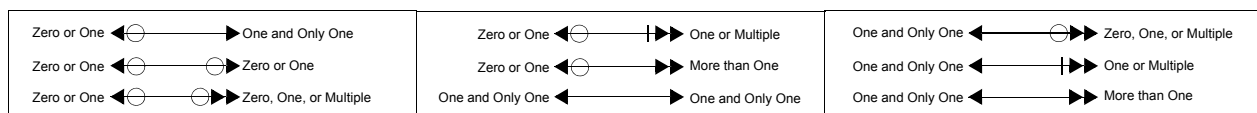
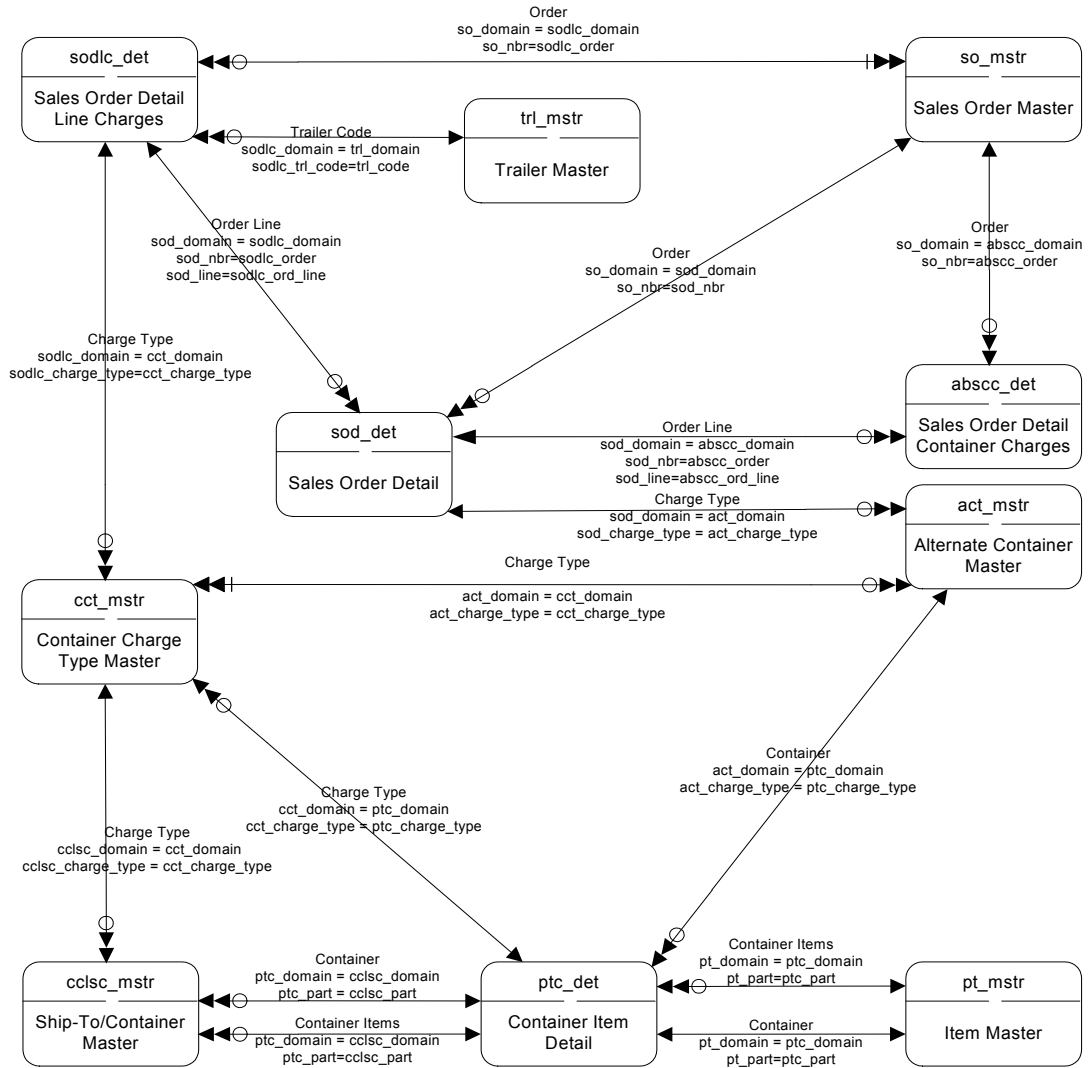
Configured Messages



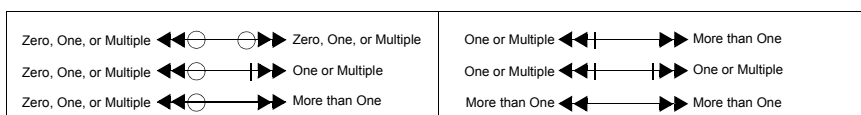
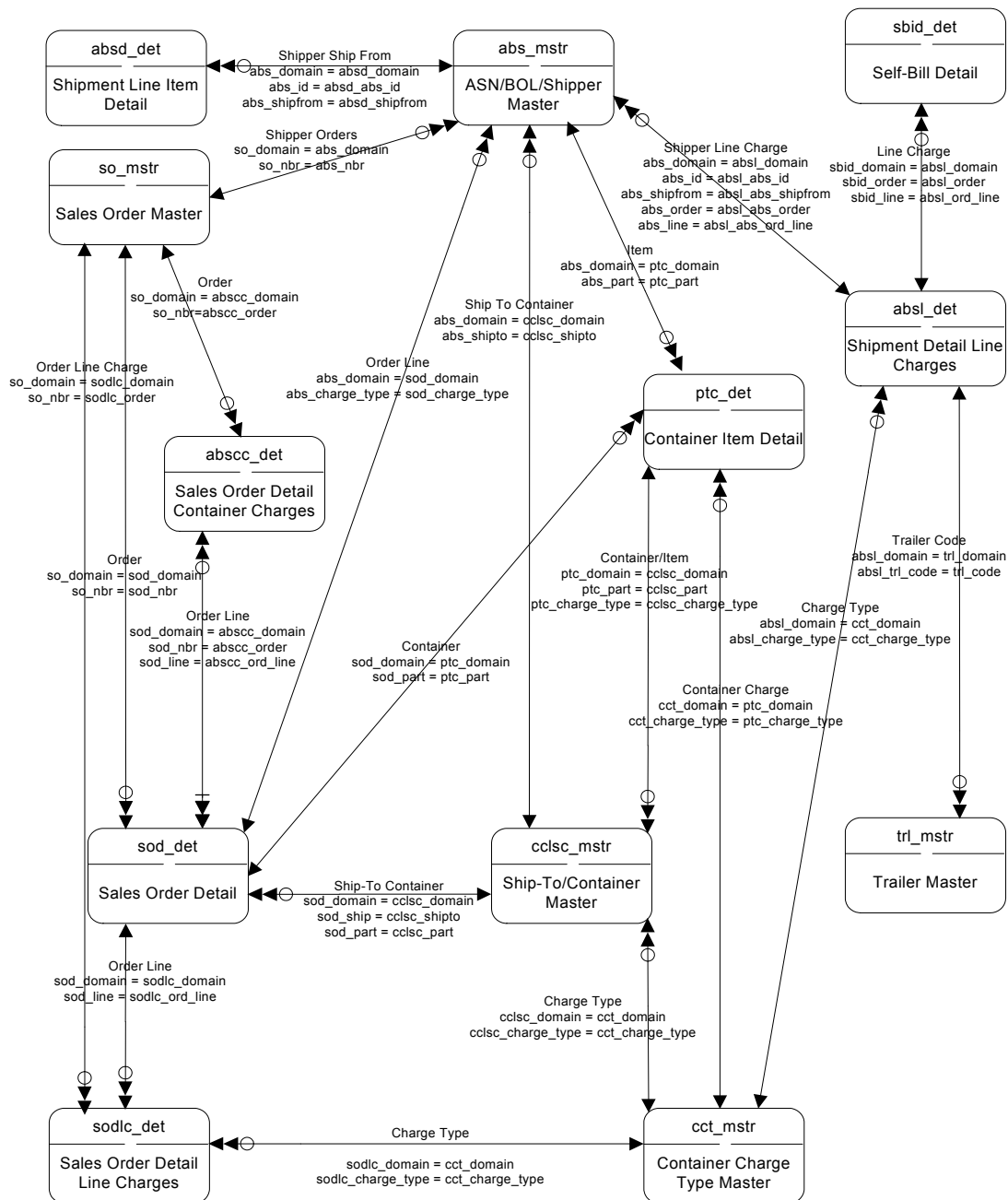
Container and Line Charges I



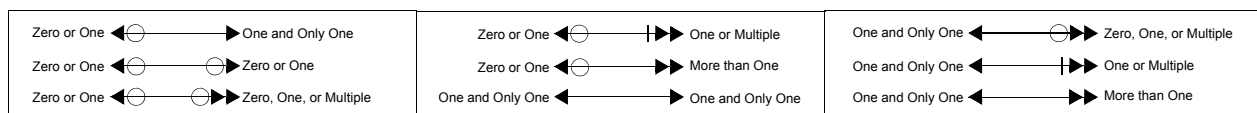
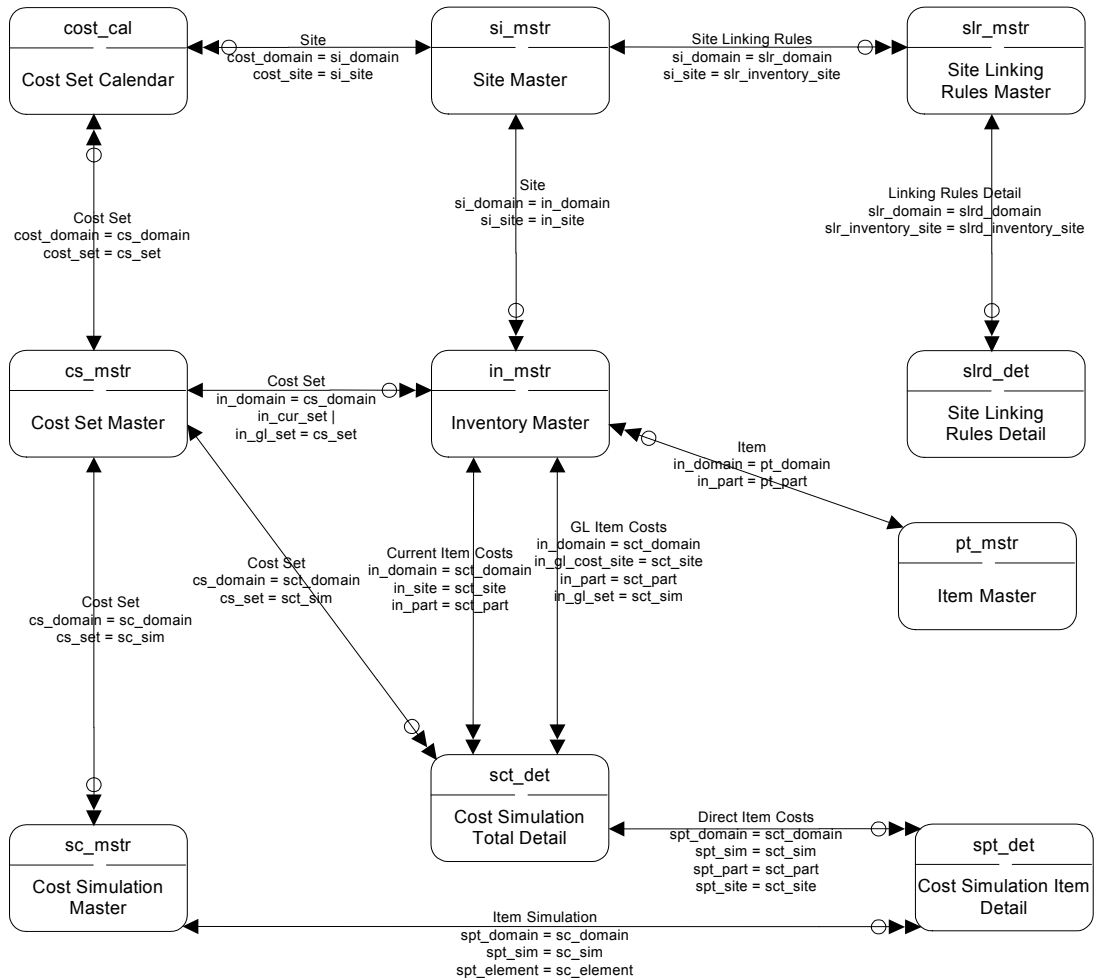
Container and Line Charges II



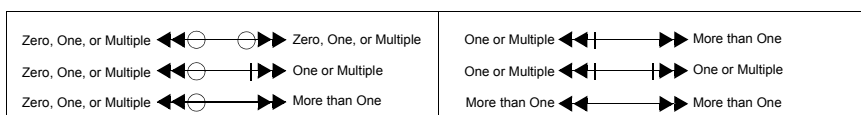
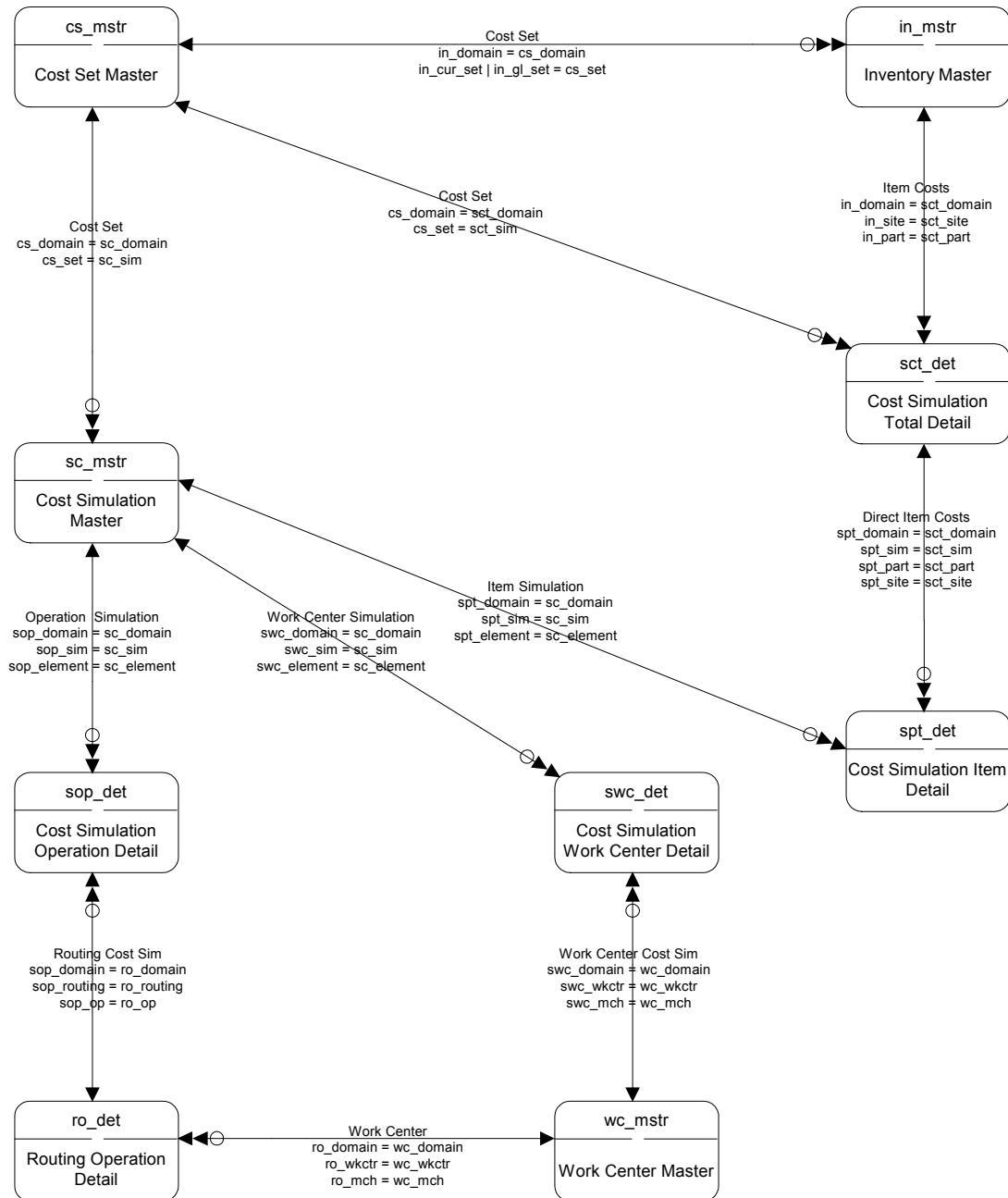
Container and Line Charges III



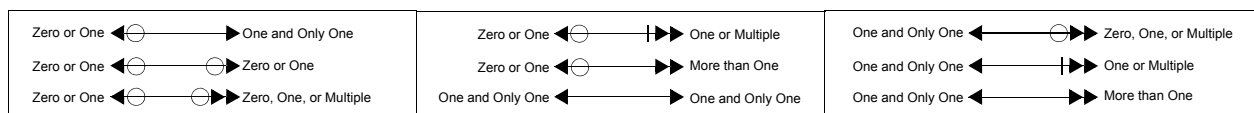
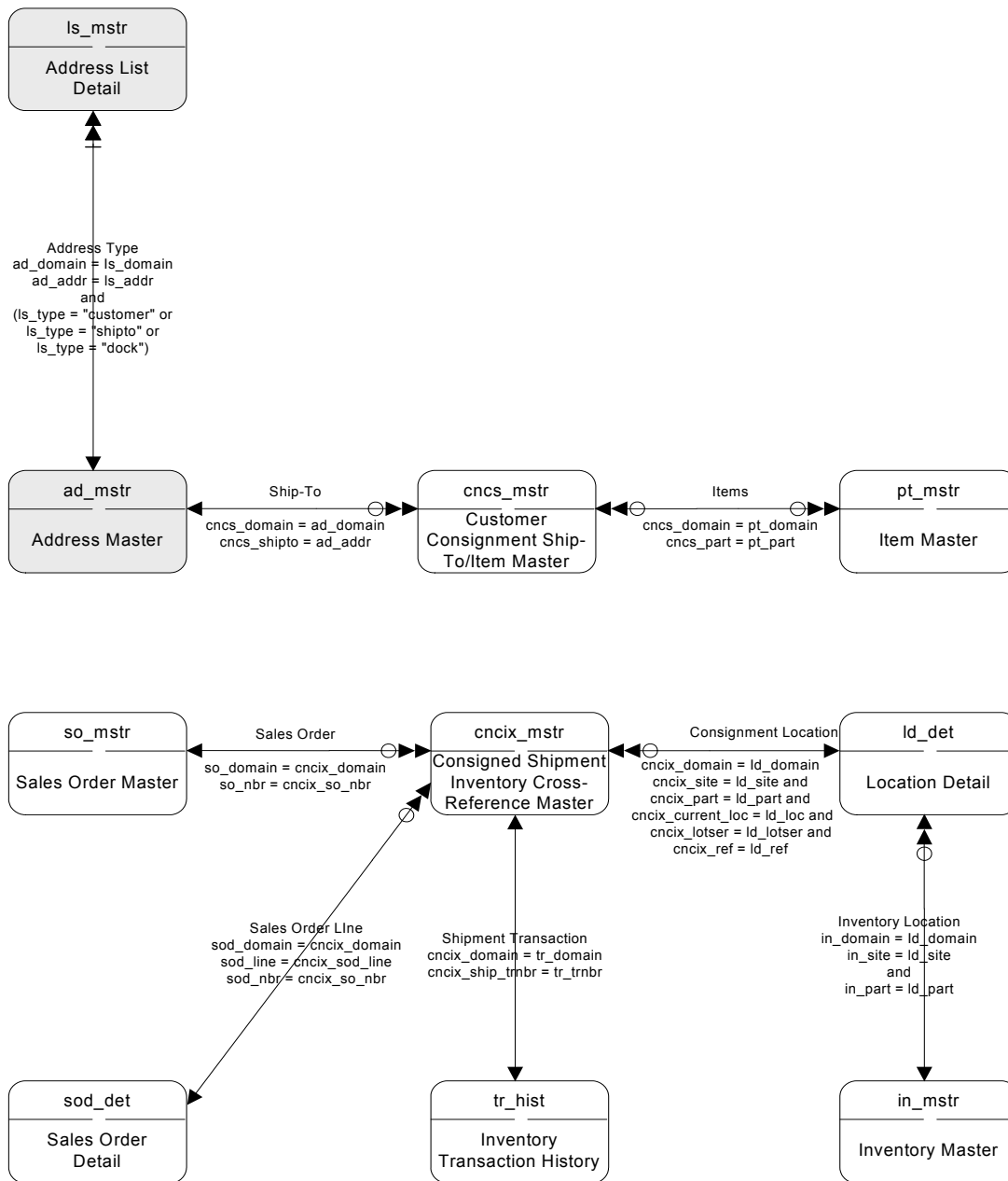
Cost Management I



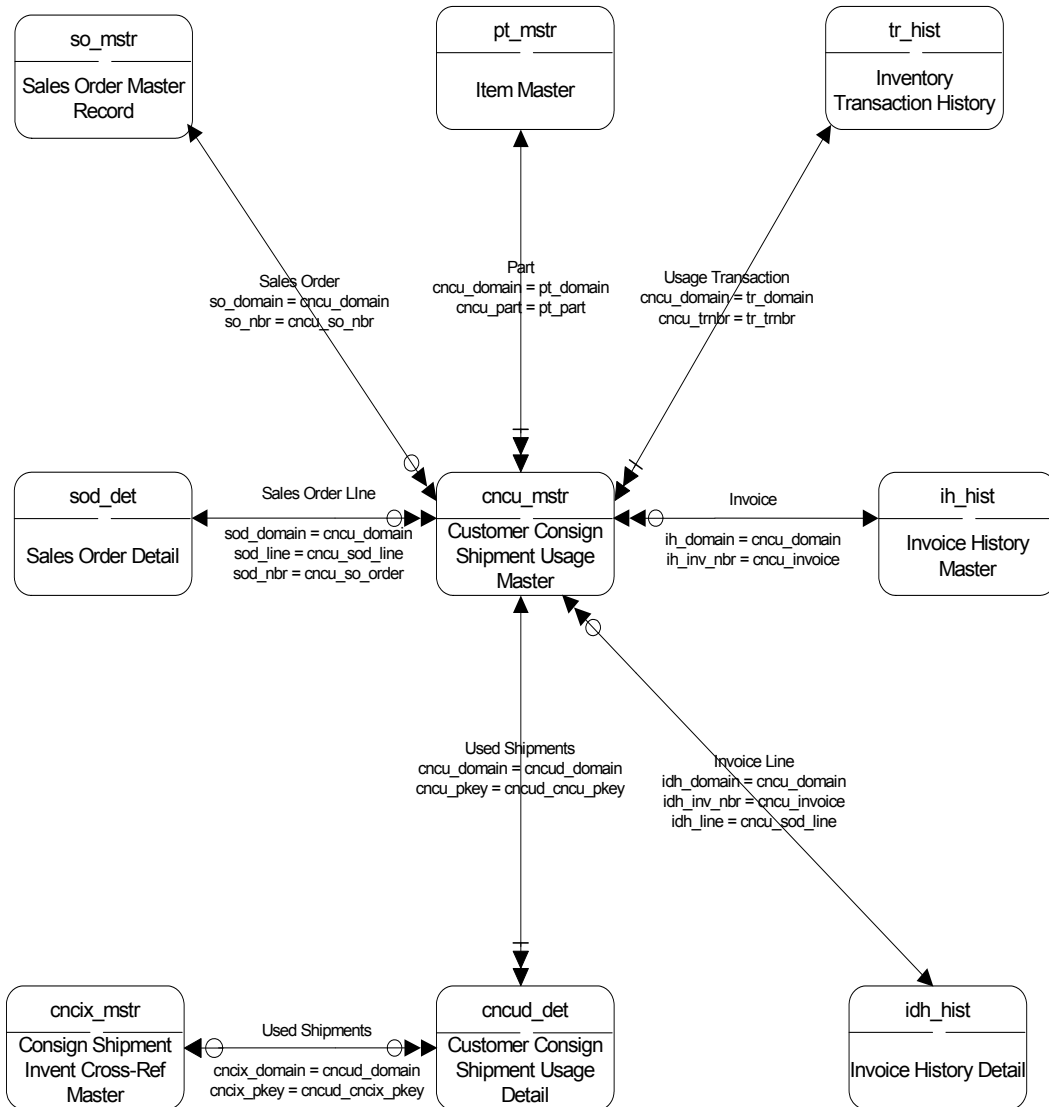
Cost Management II



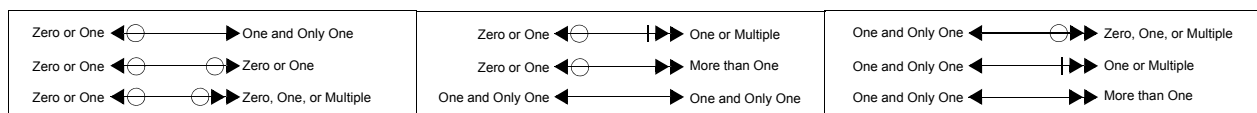
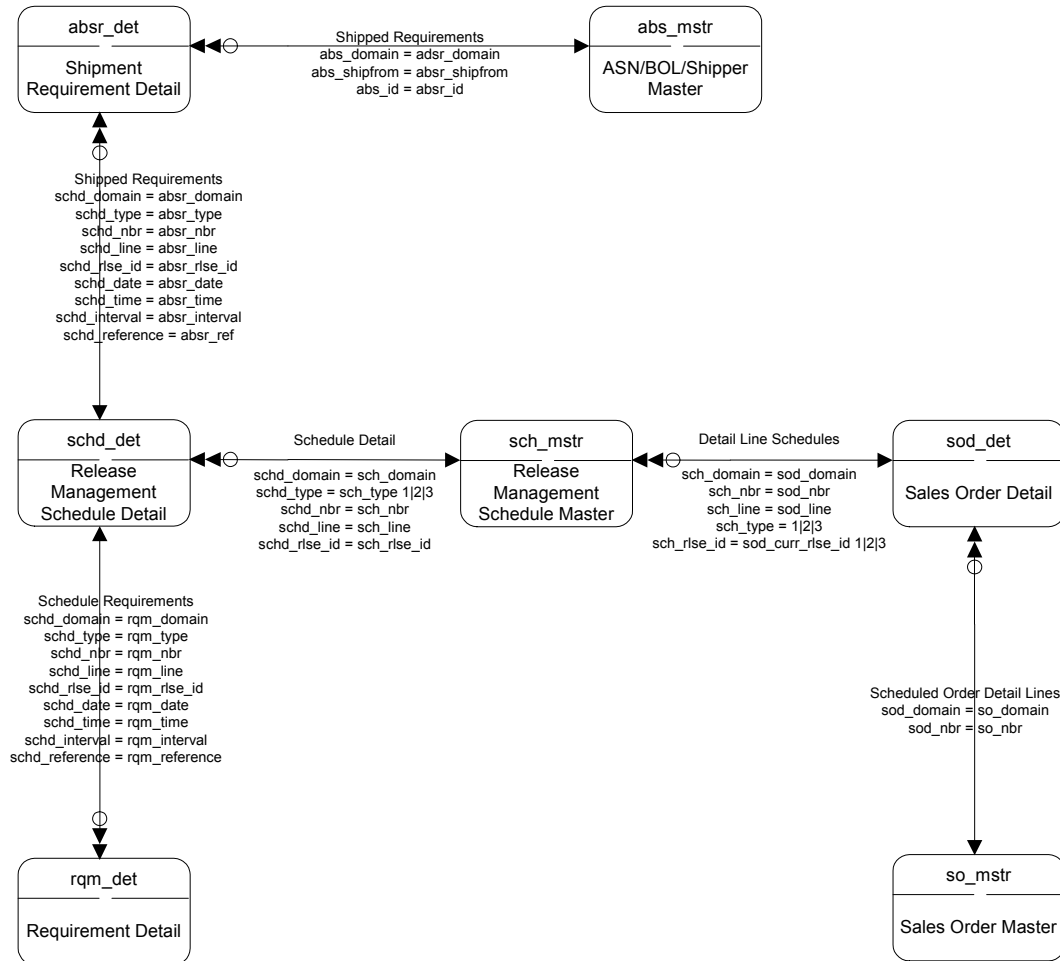
Customer Consignment I



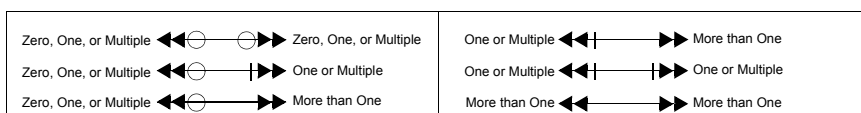
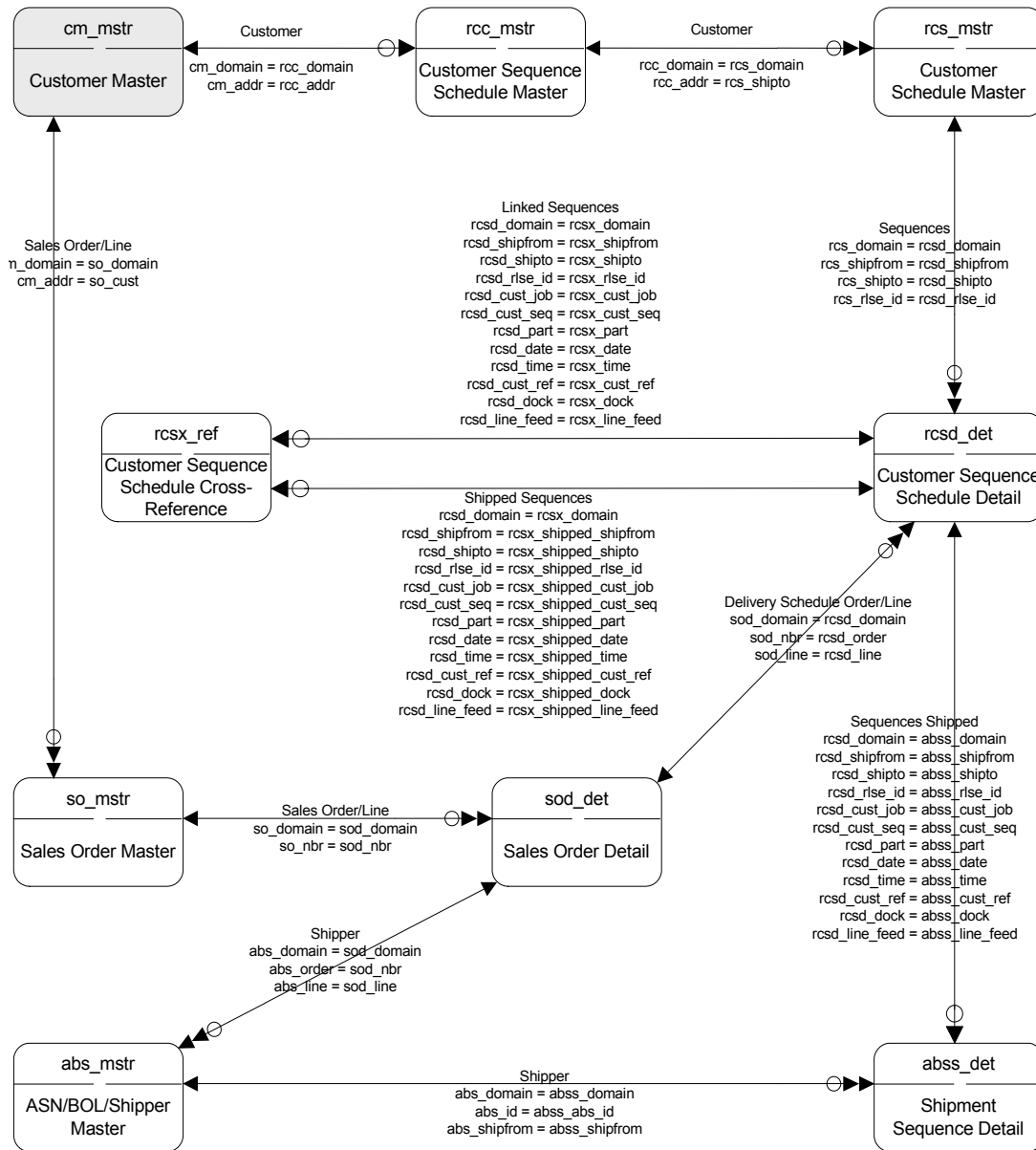
Customer Consignment II



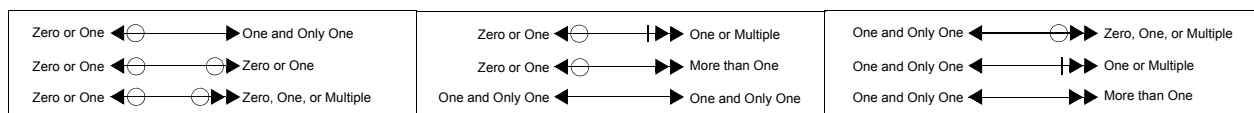
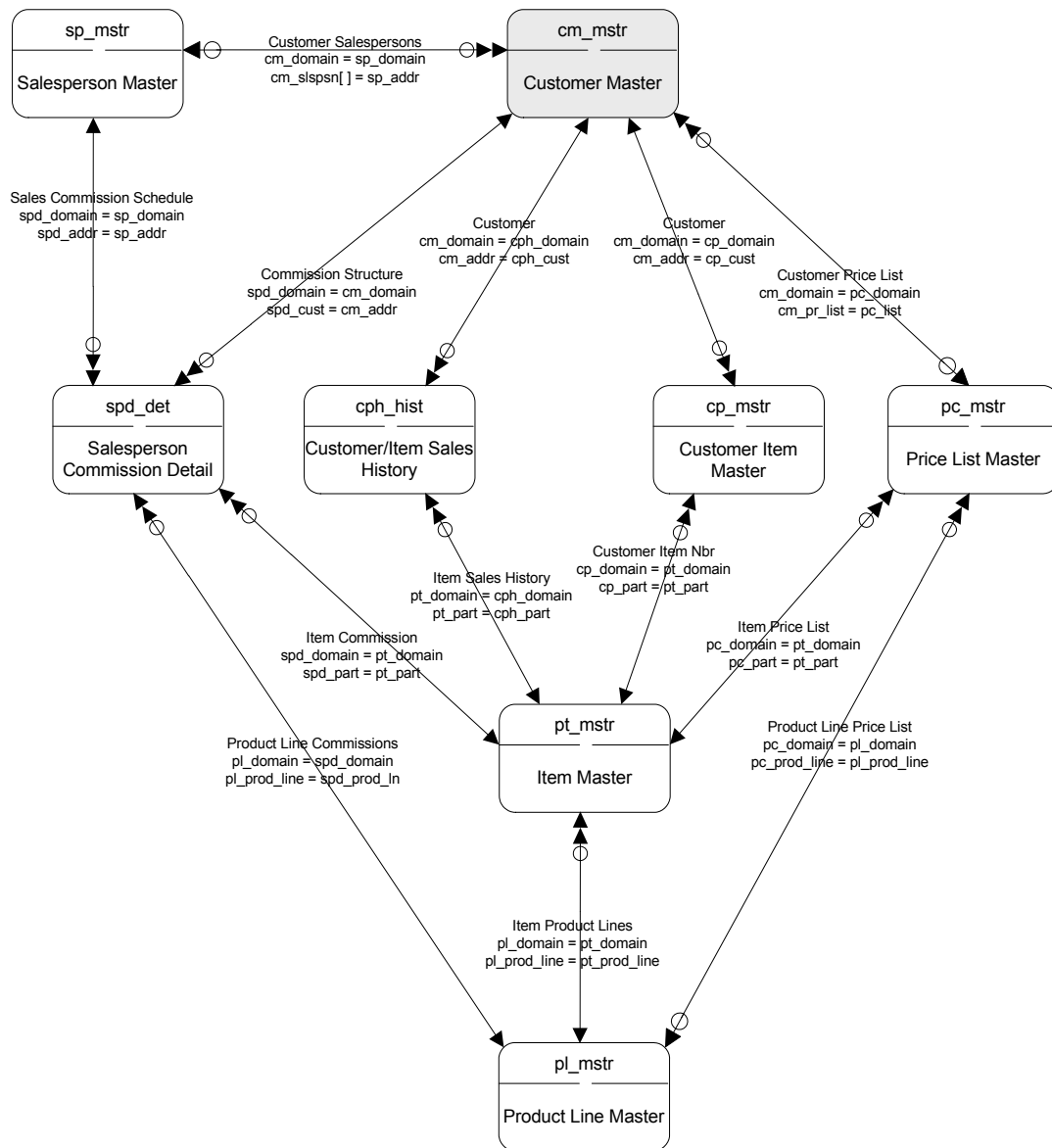
Customer Scheduled Orders



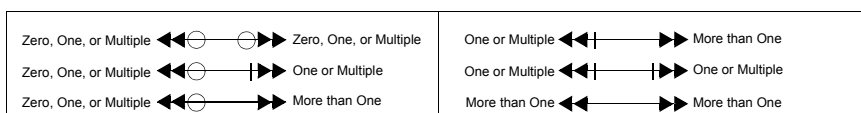
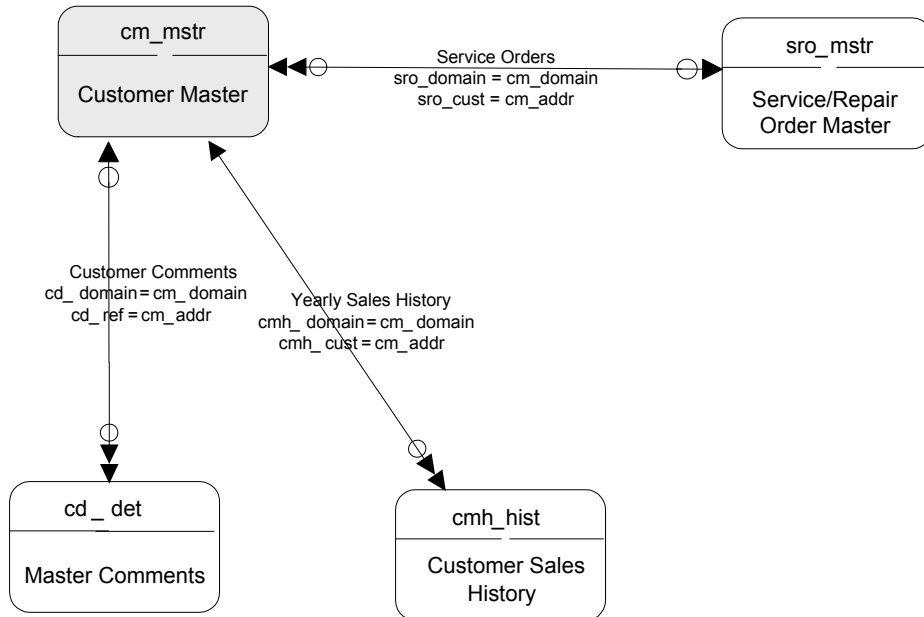
Customer Sequenced Schedules



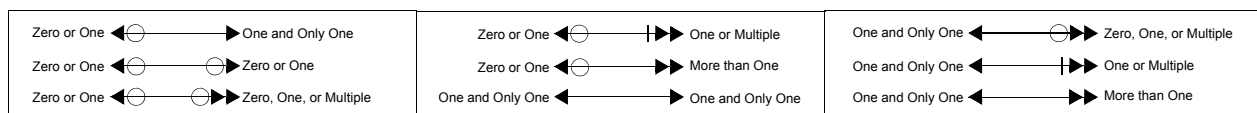
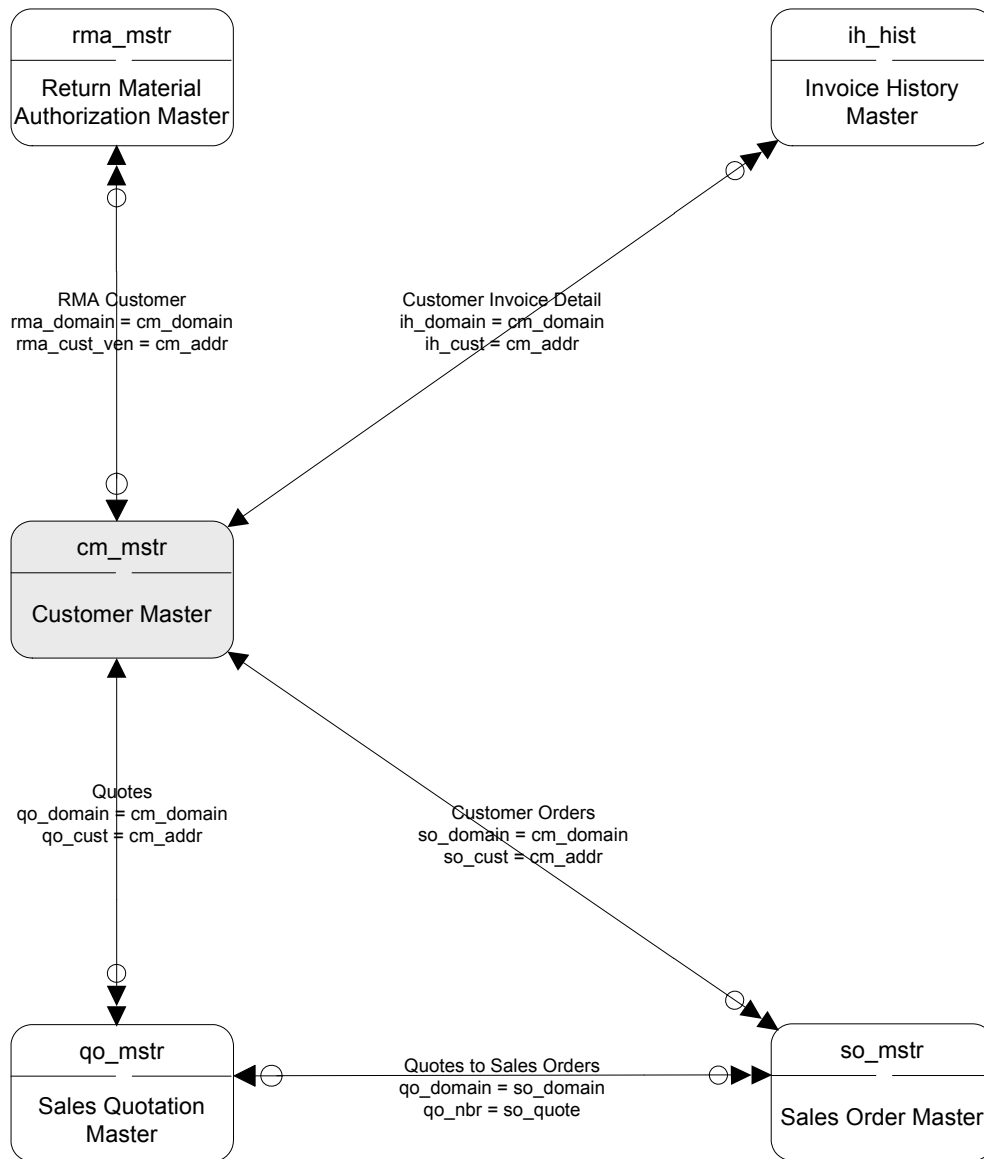
Customers I



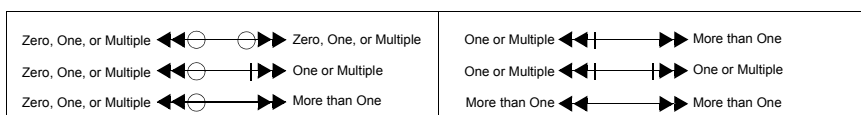
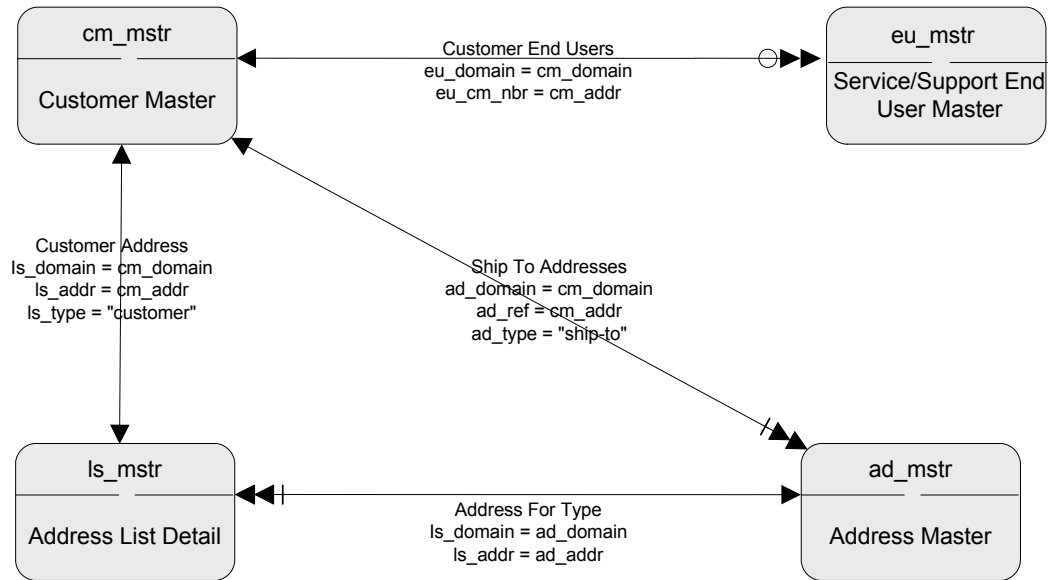
Customers II



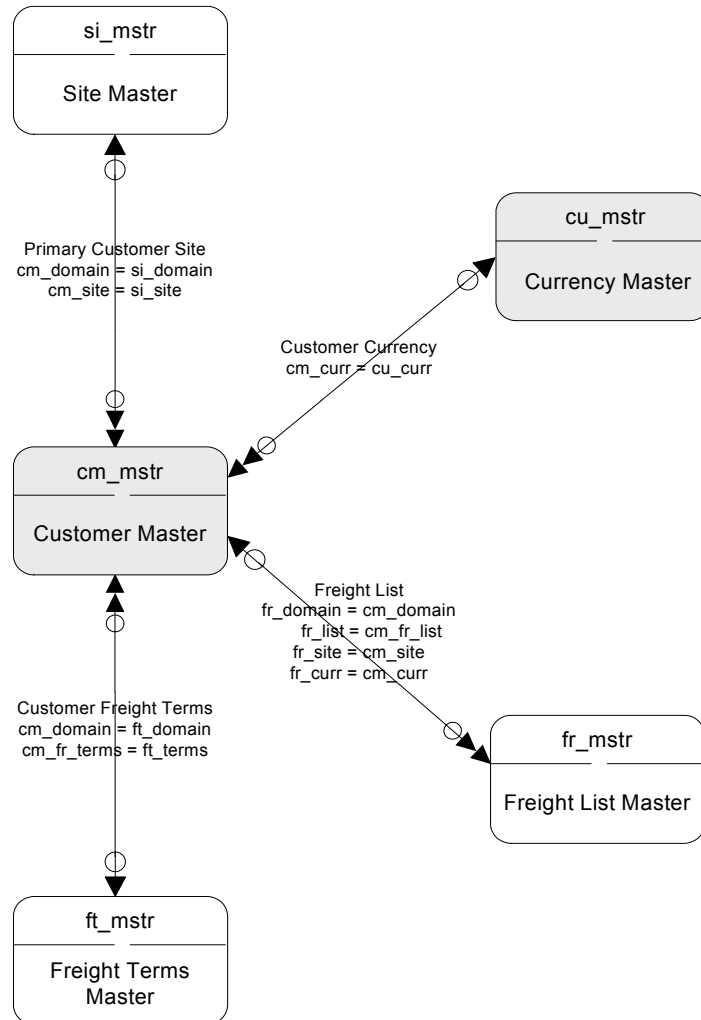
Customers III















Customers IV









Customers V

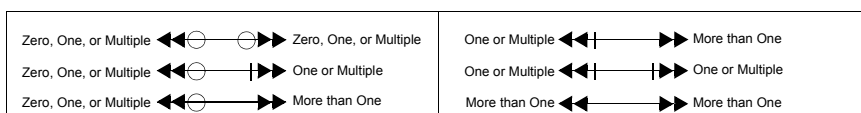
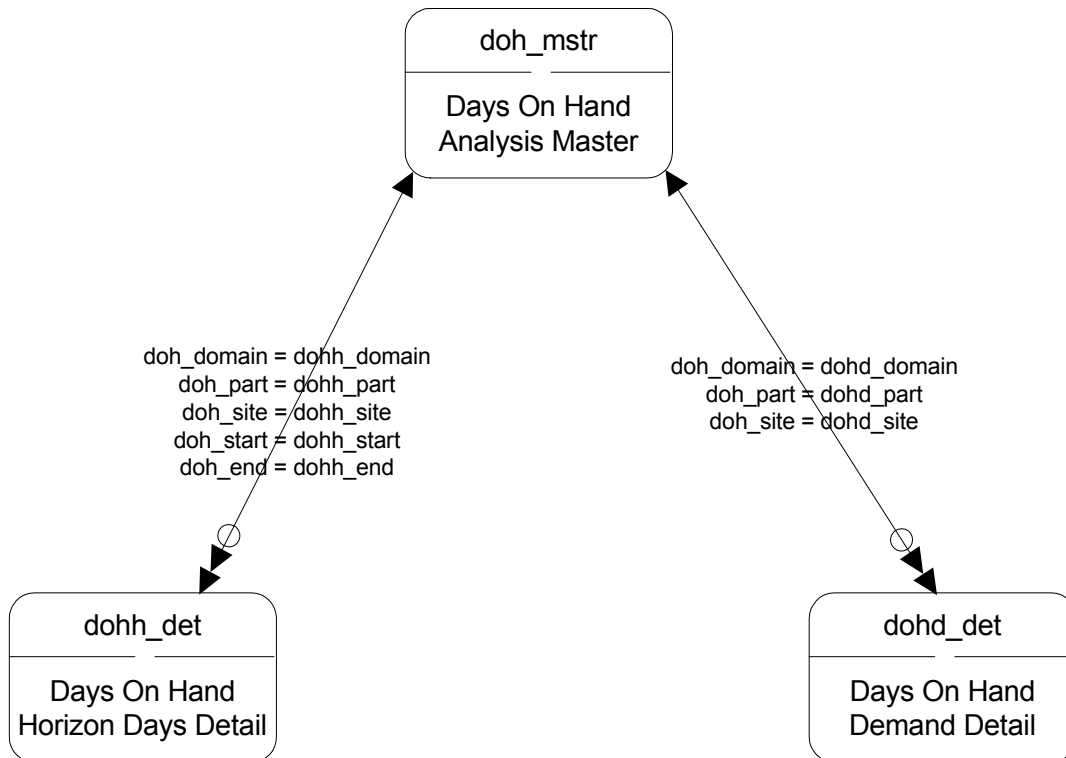


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

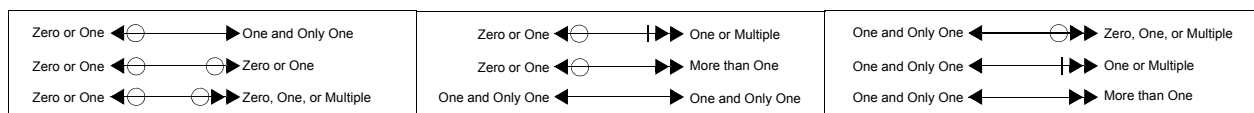
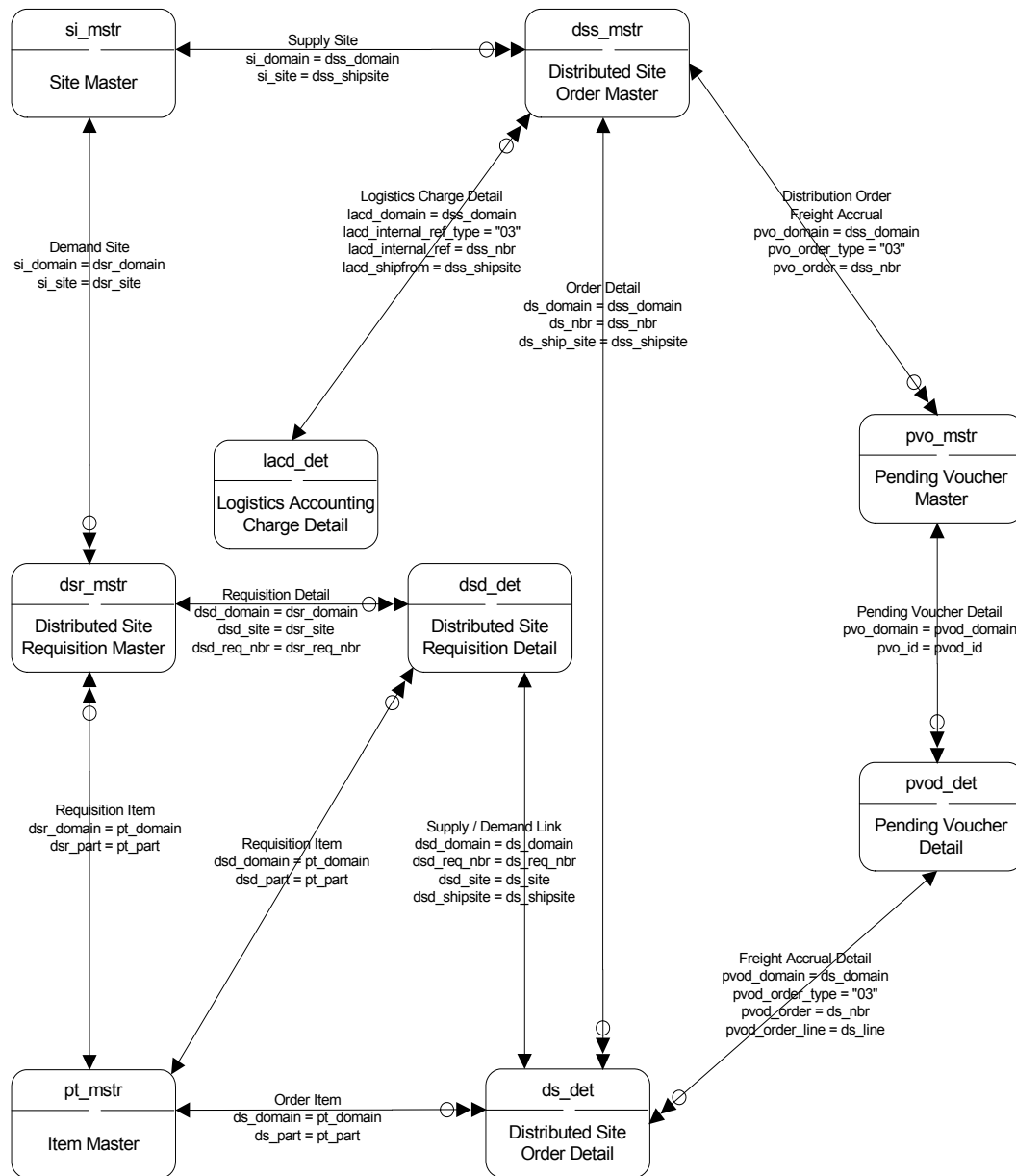
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

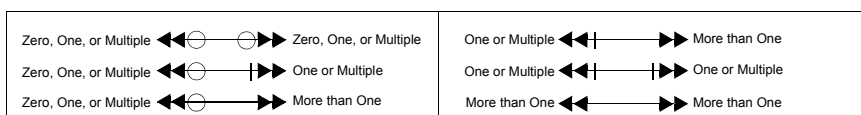
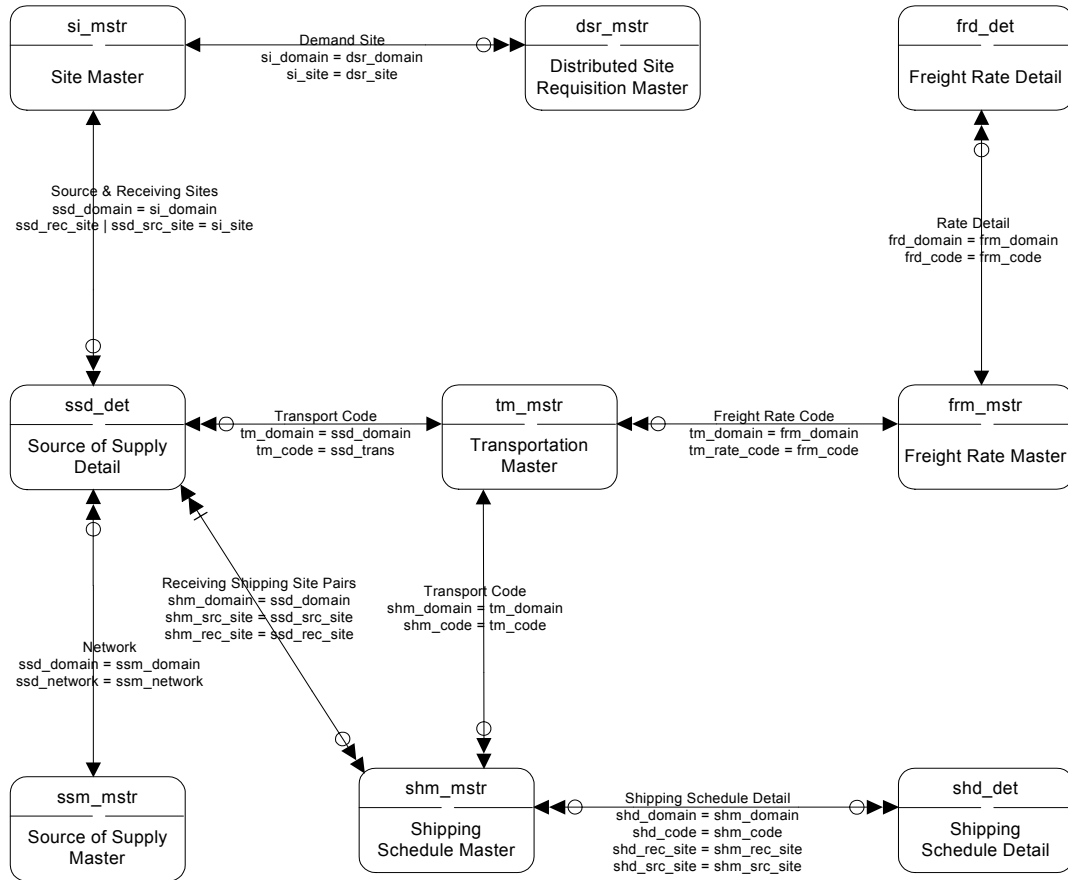
Days On Hand



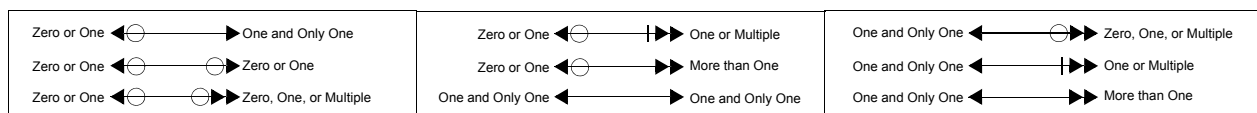
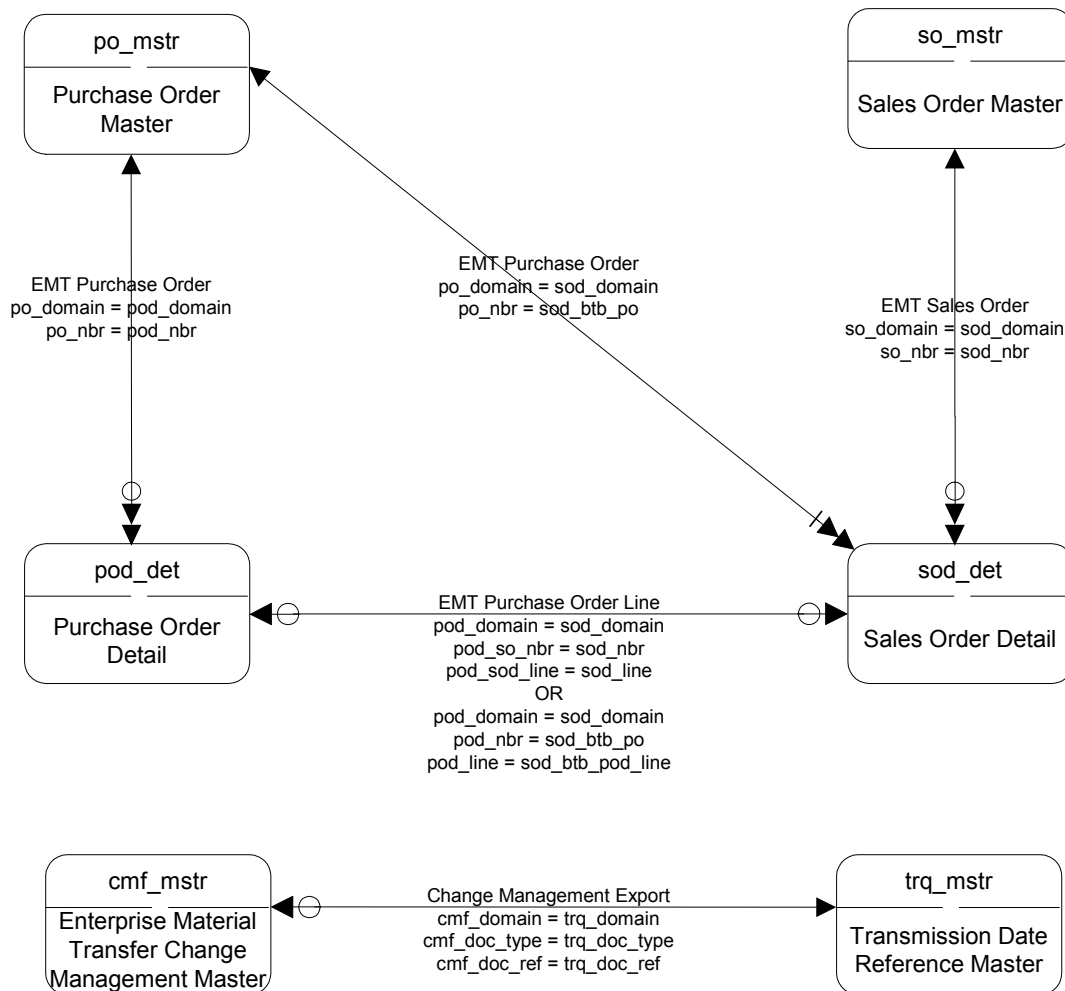
DRP I



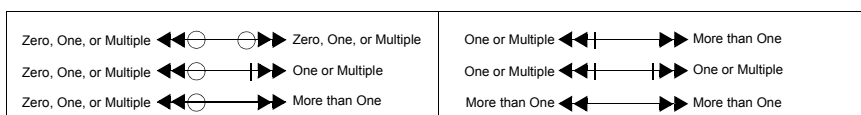
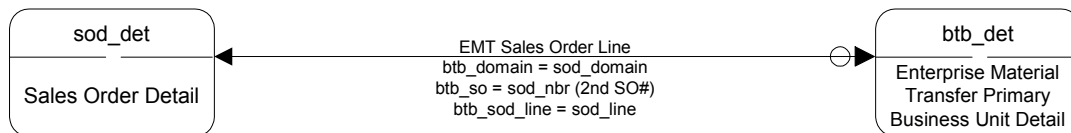
DRP II



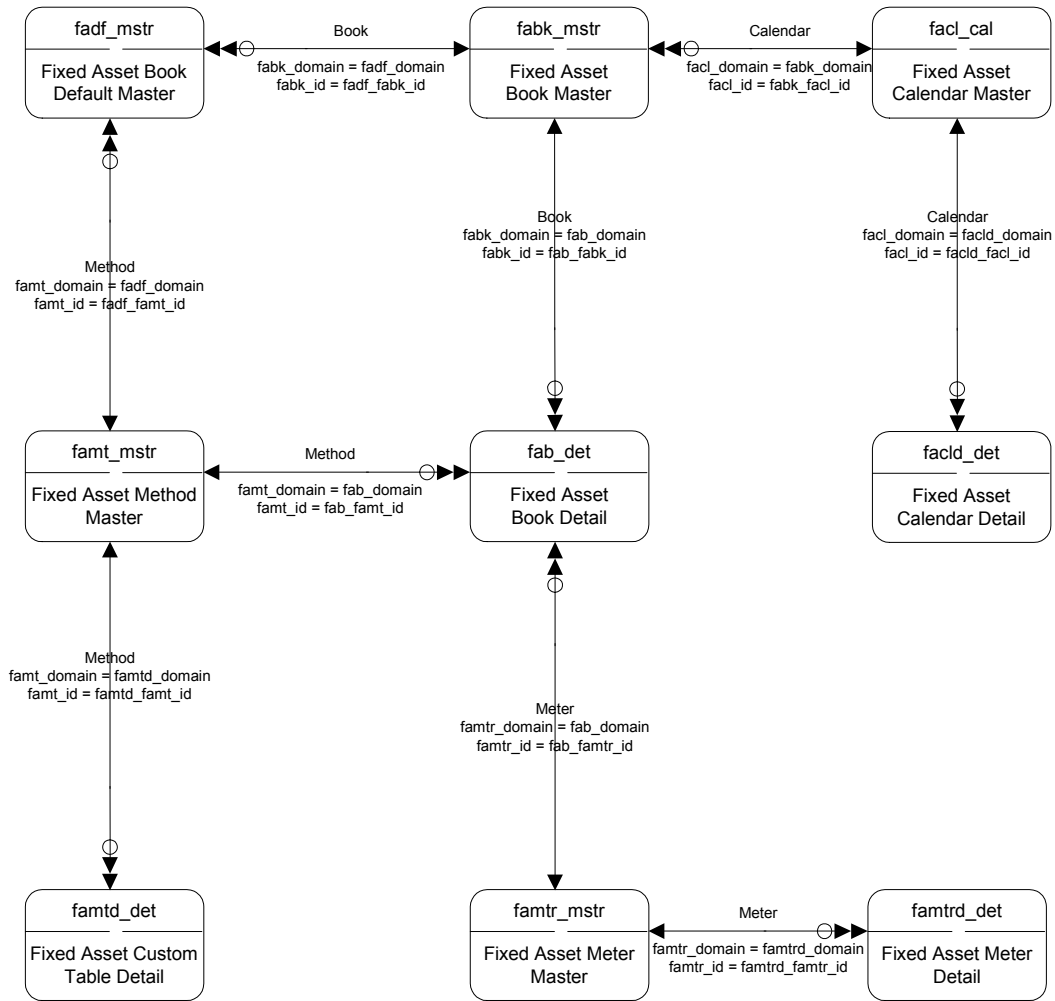
EMT – Primary Business Unit



EMT – Secondary Business Unit



Fixed Assets I

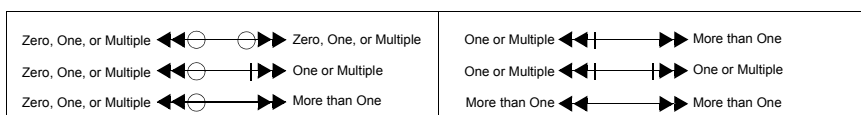
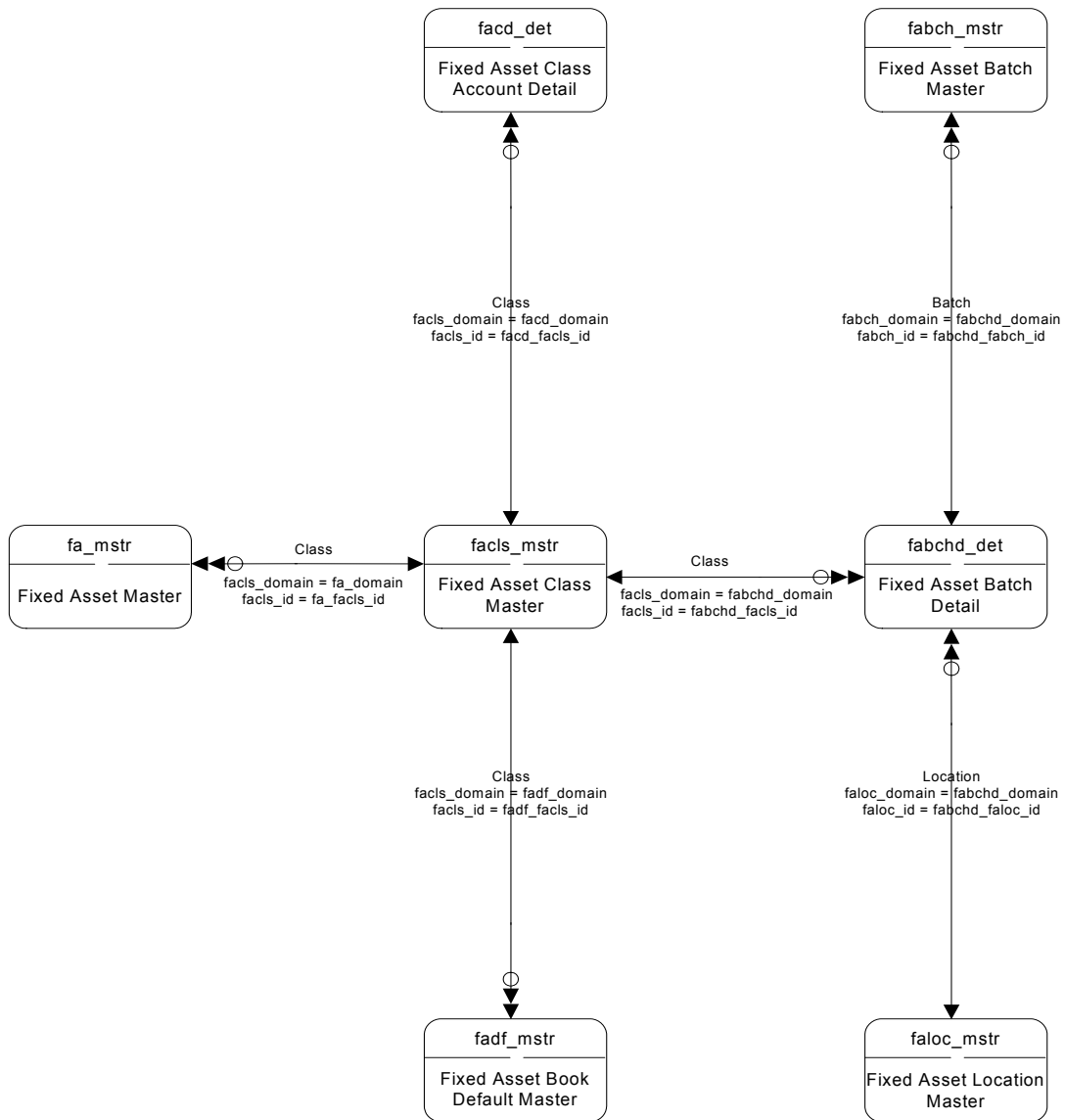


Zero or One	One and Only One
Zero or One	Zero or One
Zero or One	Zero, One, or Multiple

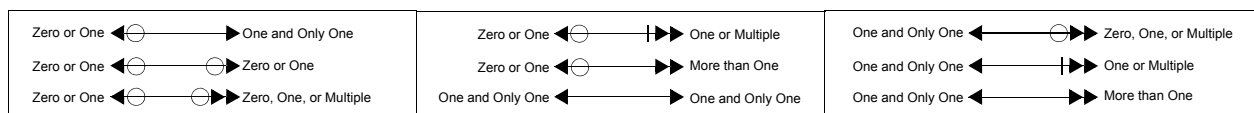
Zero or One	One or Multiple
Zero or One	More than One
One and Only One	One and Only One

One and Only One	Zero, One, or Multiple
One and Only One	One or Multiple
One and Only One	More than One

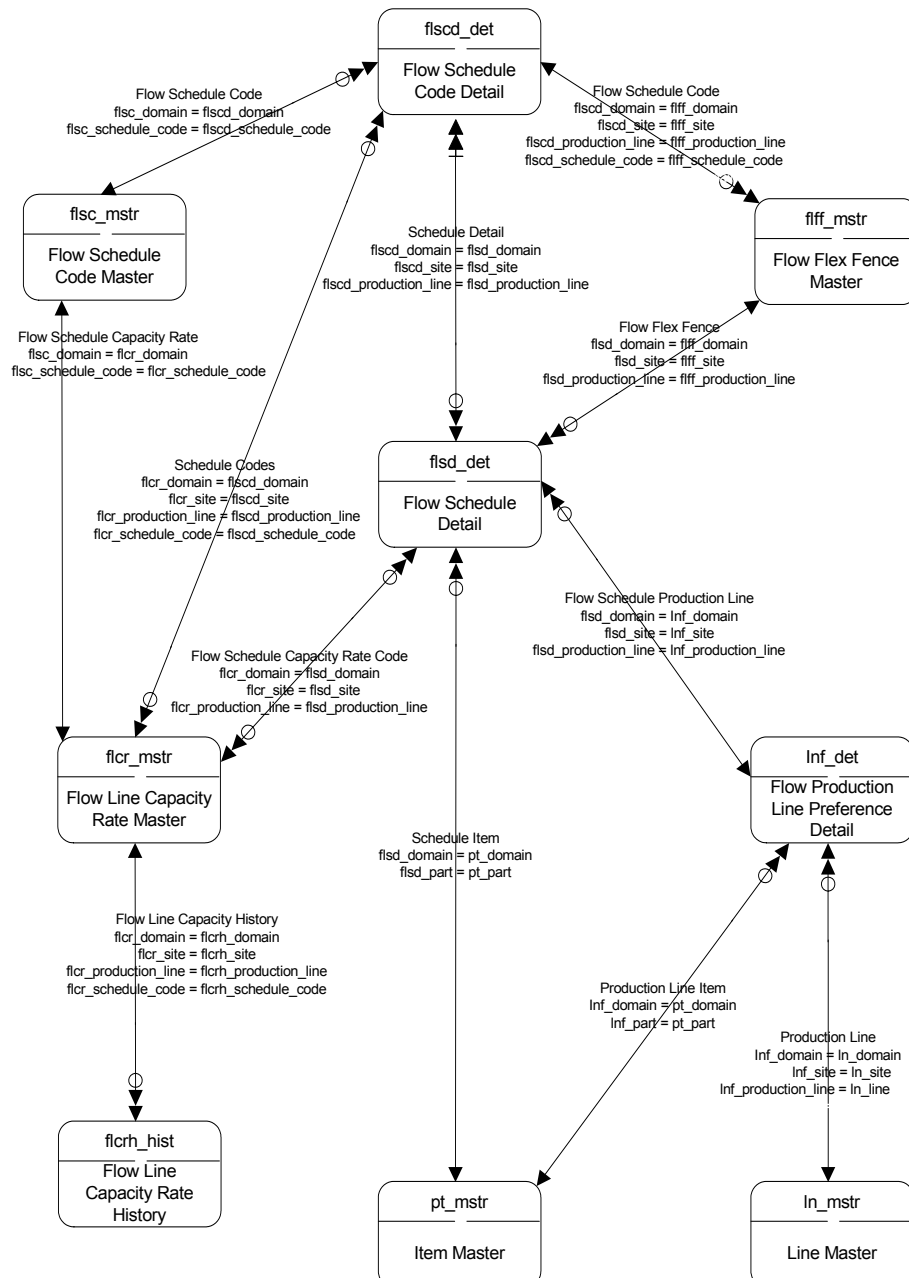
Fixed Assets II



Fixed Assets III

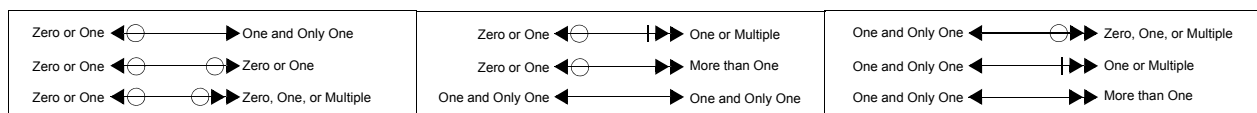
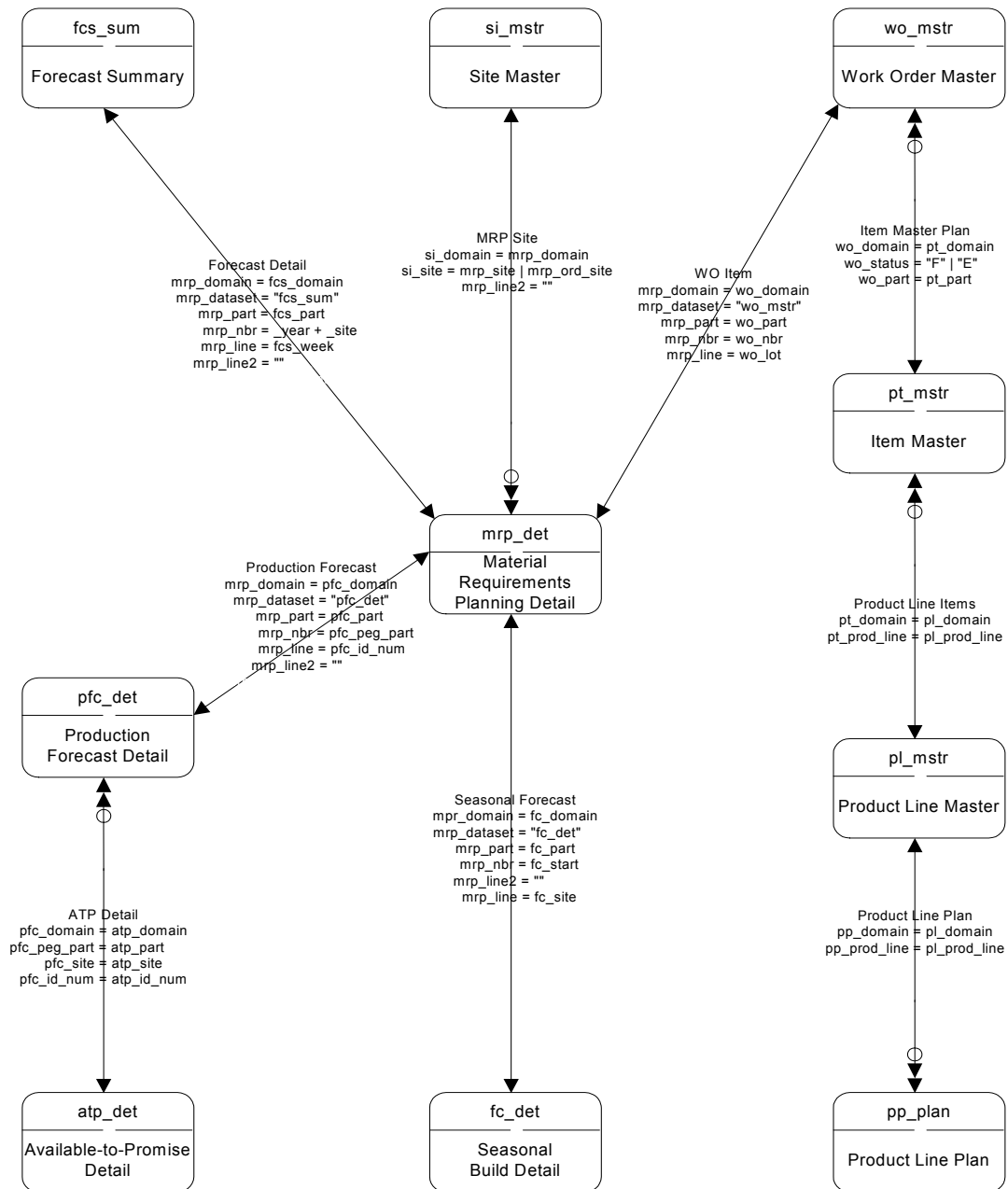


Flow Scheduling

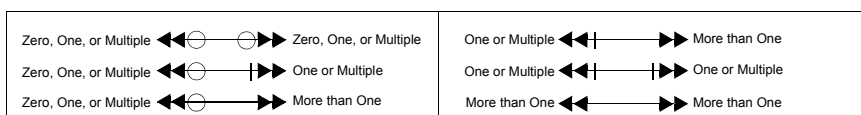
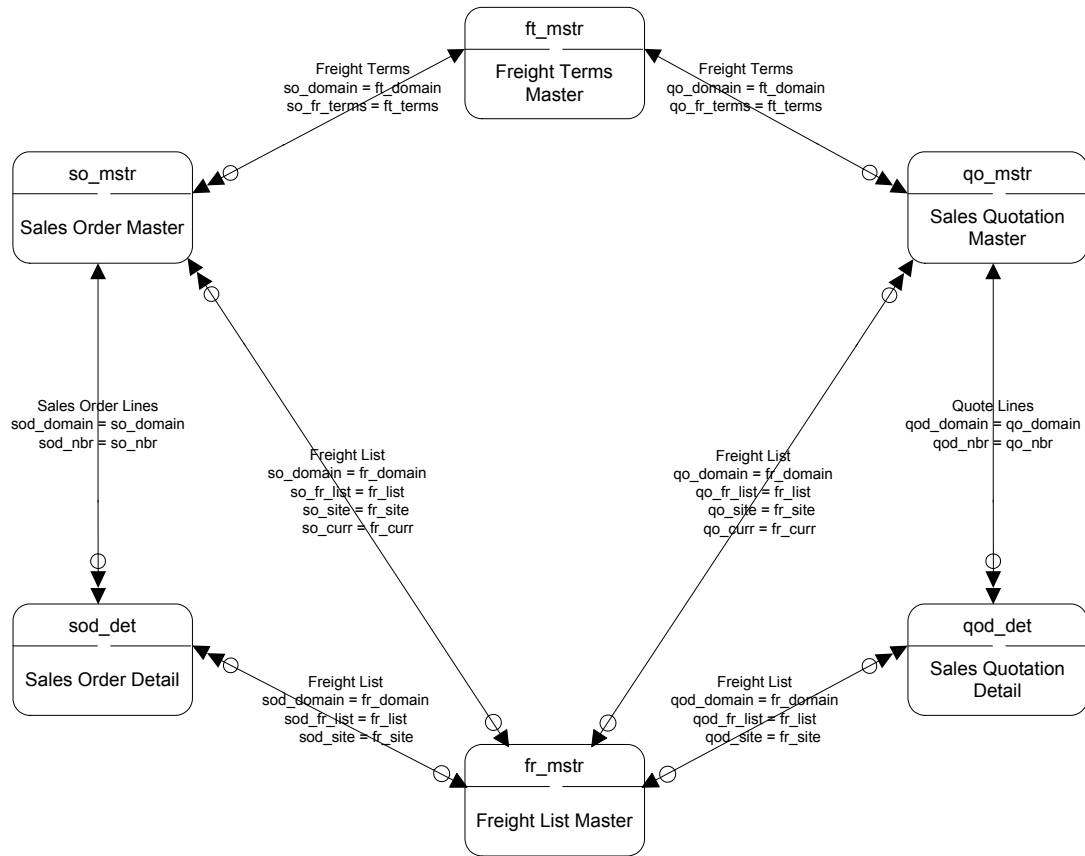


Zero, One, or Multiple	One or Multiple	Zero, One, or Multiple	One or Multiple
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

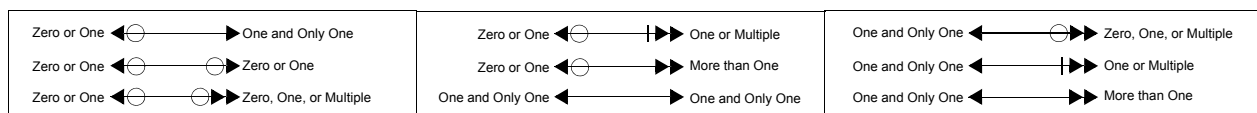
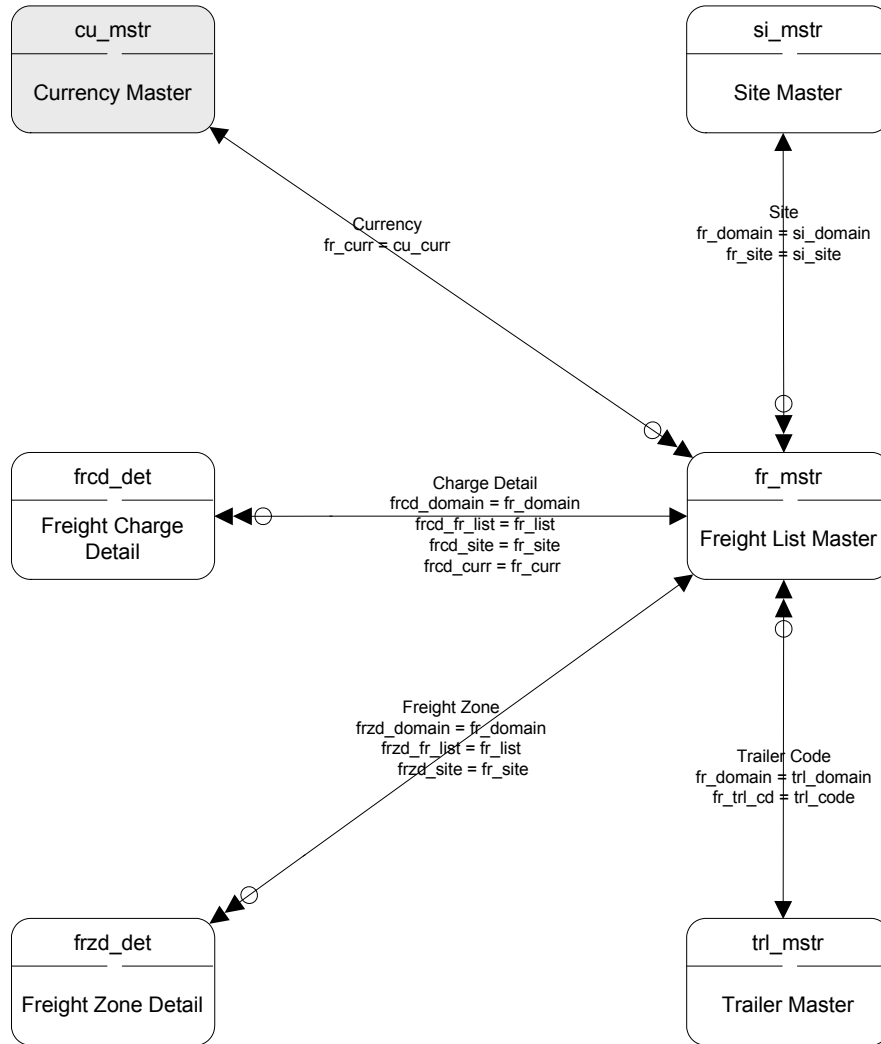
Forecasting/Planning



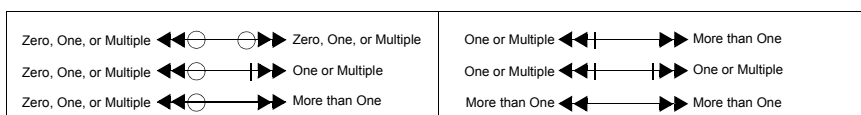
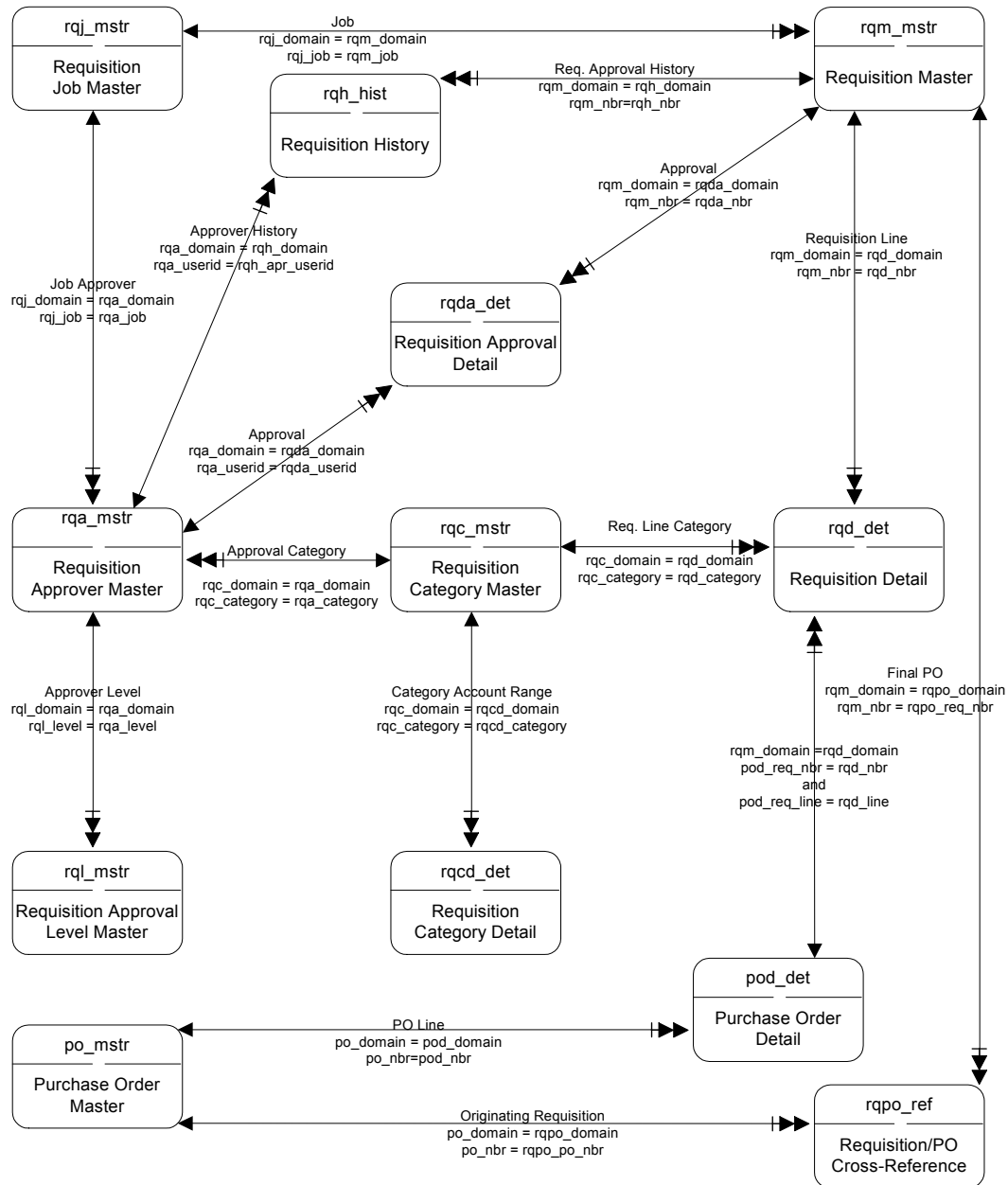
Freight Charges I



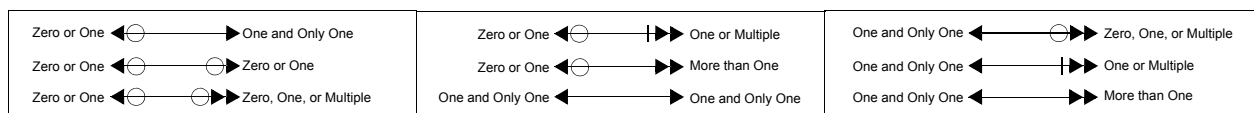
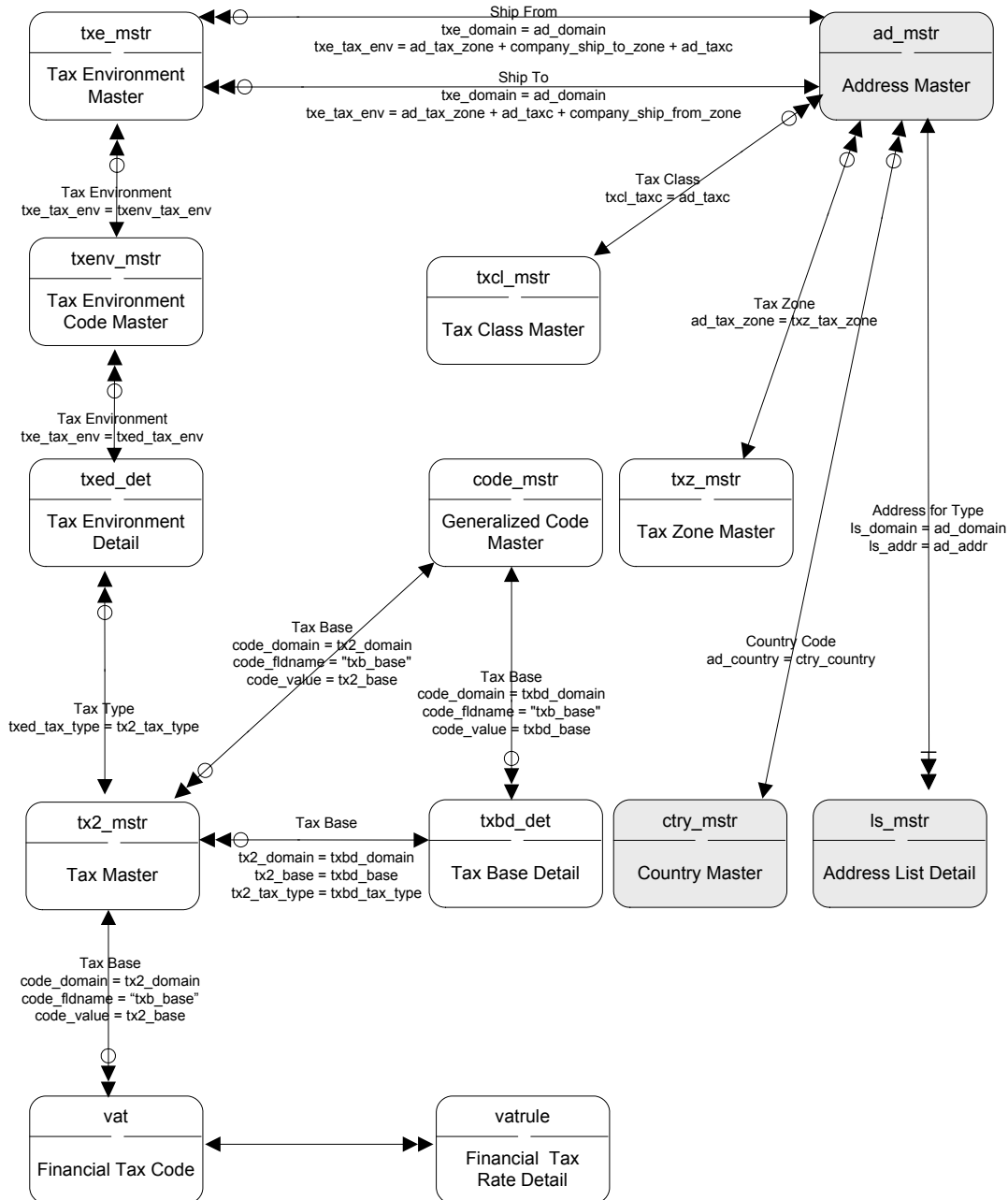
Freight Charges II



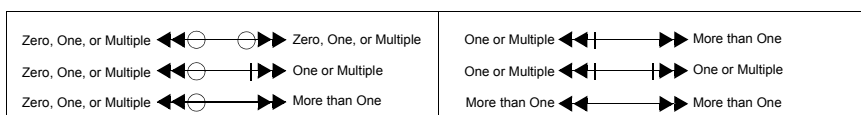
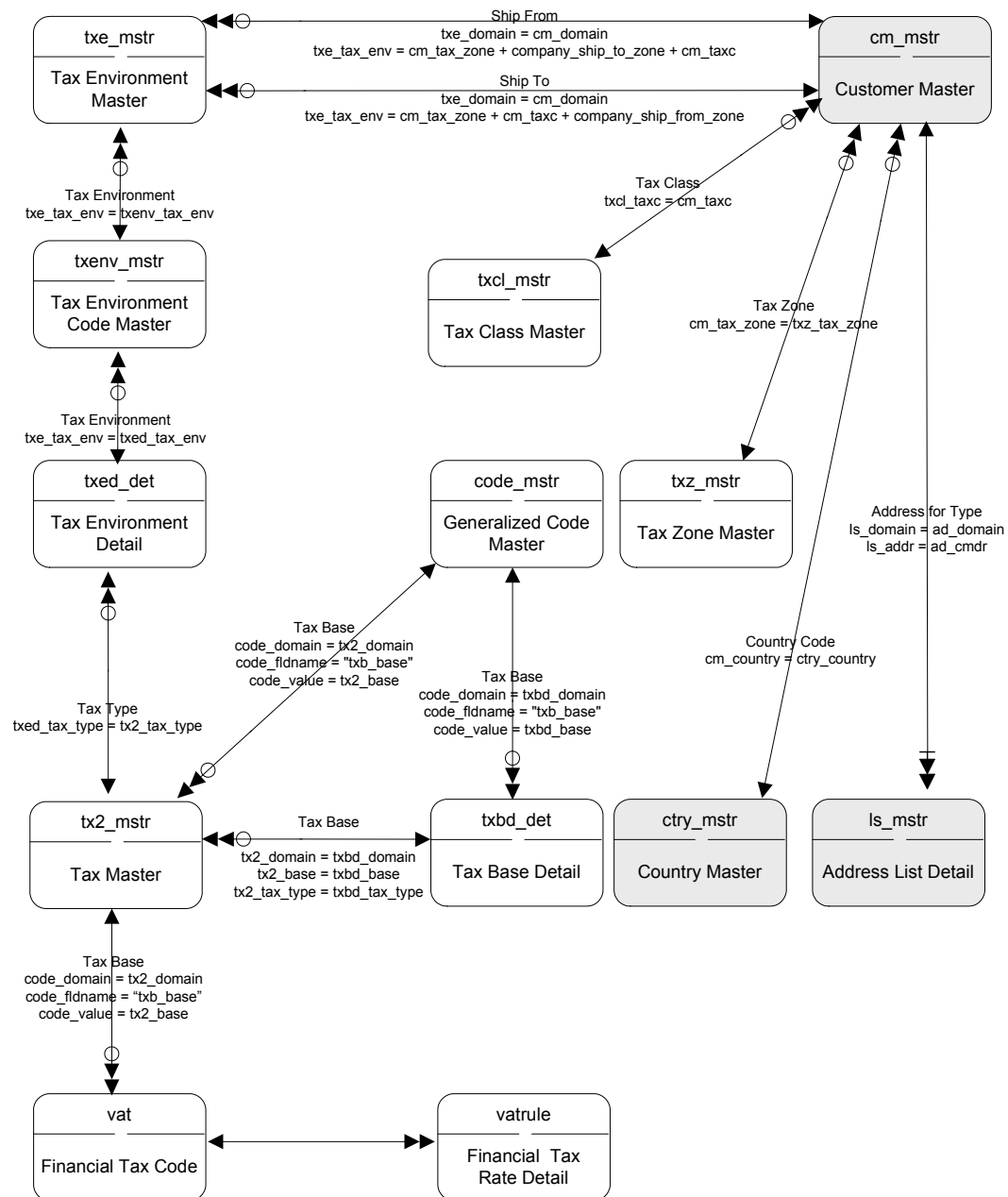
Global Requisition System



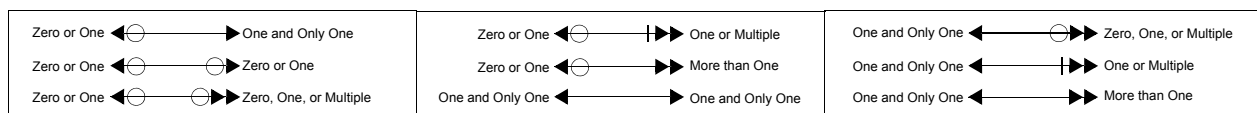
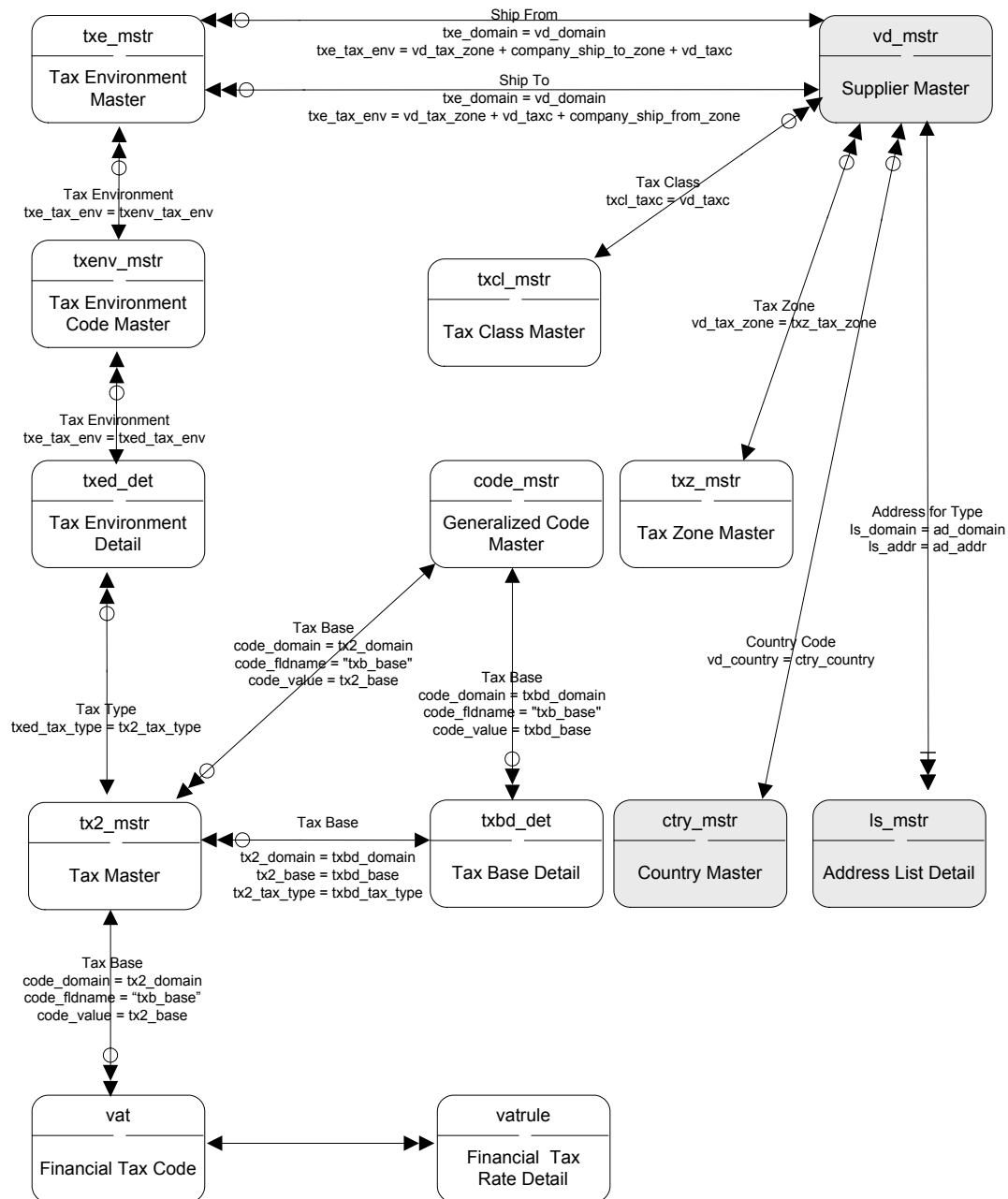
GTM Address Master Data



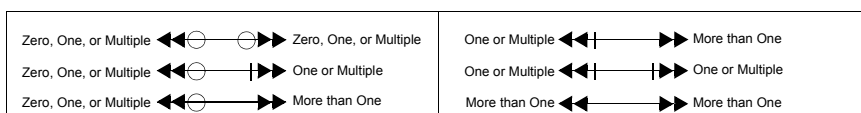
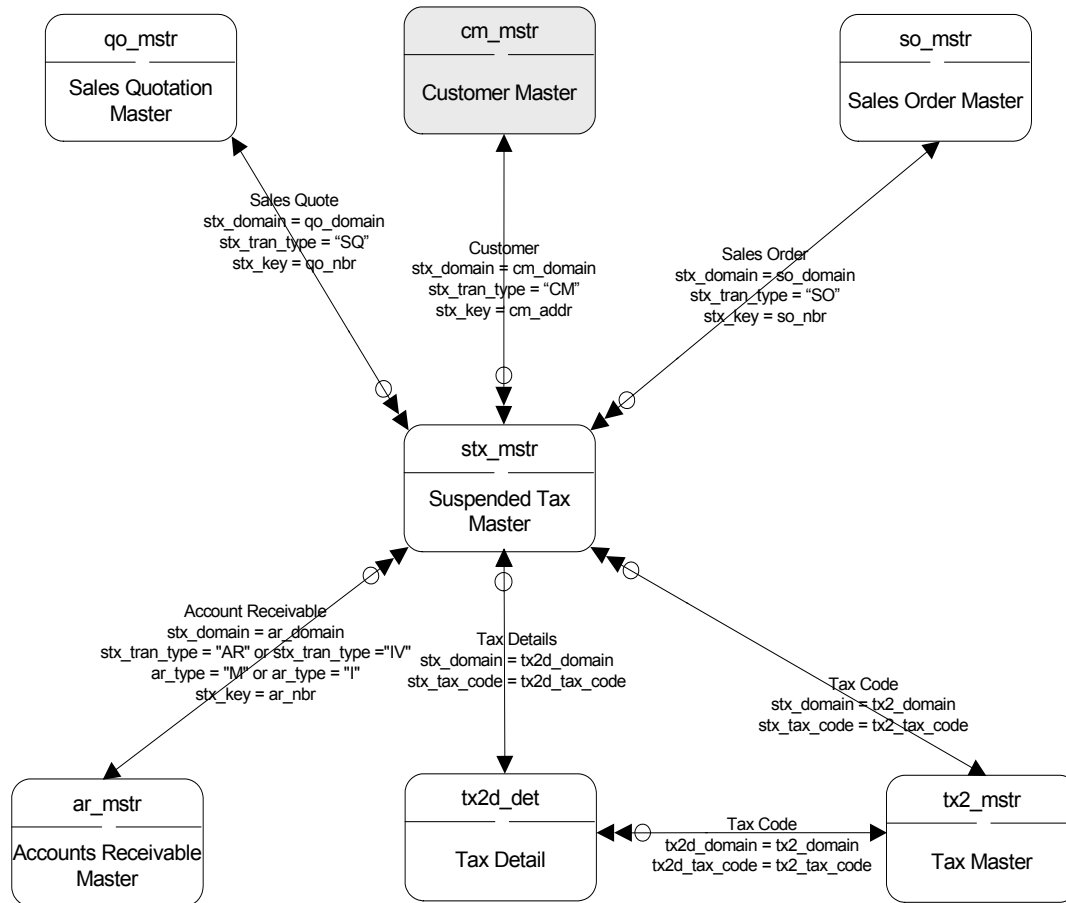
GTM Customer Master Data



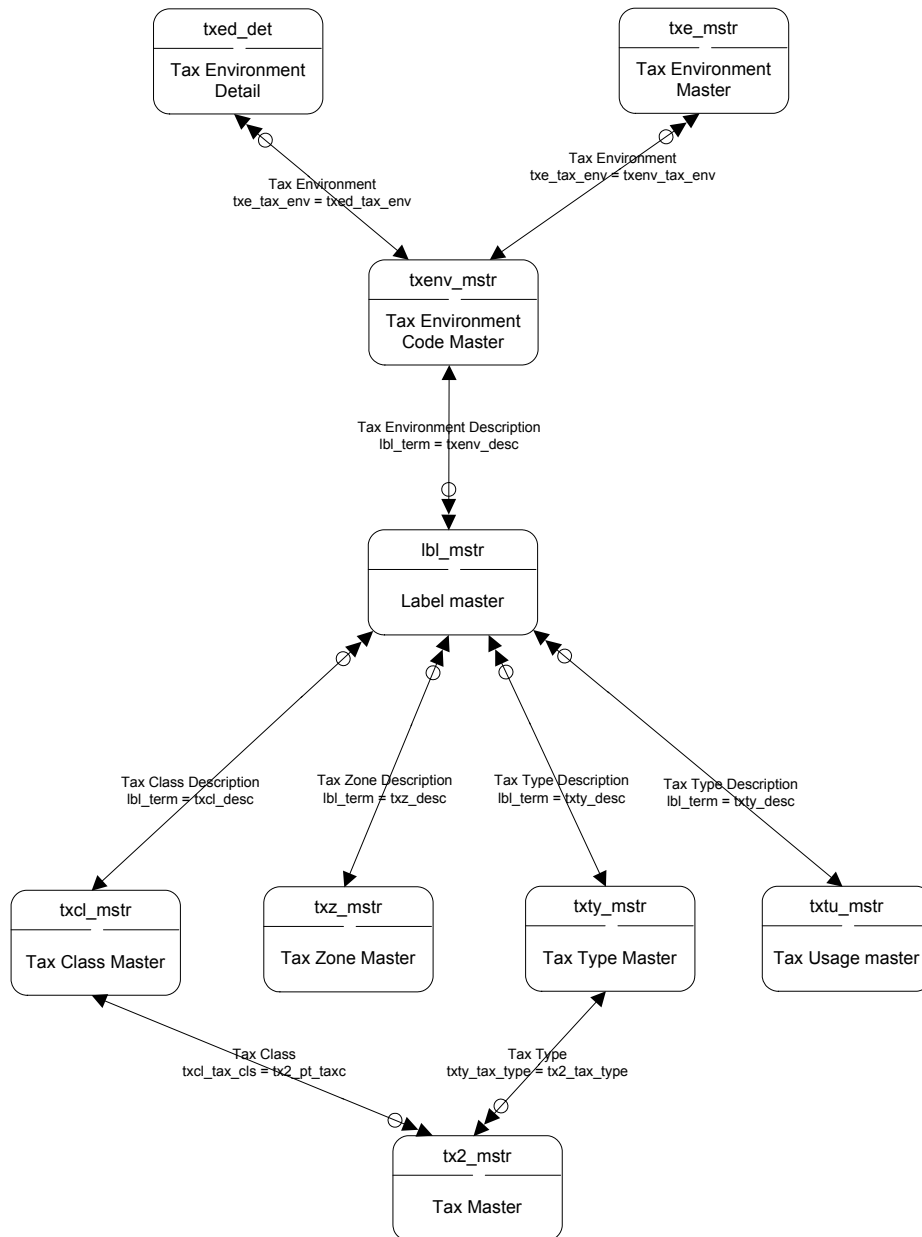
GTM Supplier Master Data





















GTM Suspended Tax

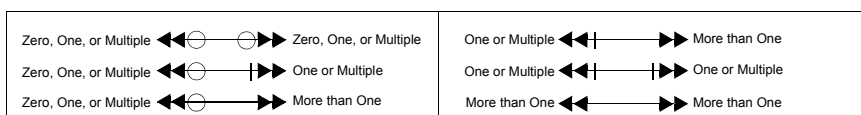
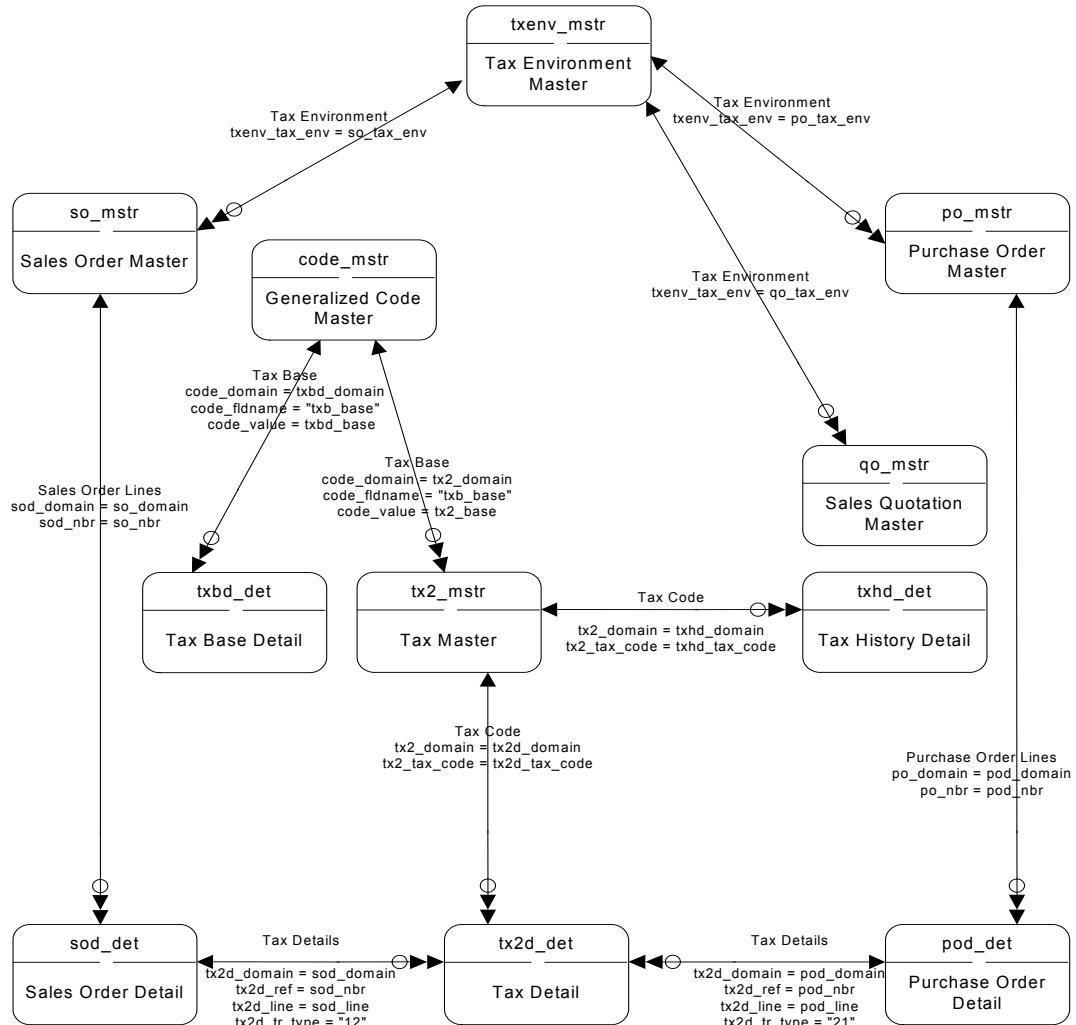


GTM Tax Master Data

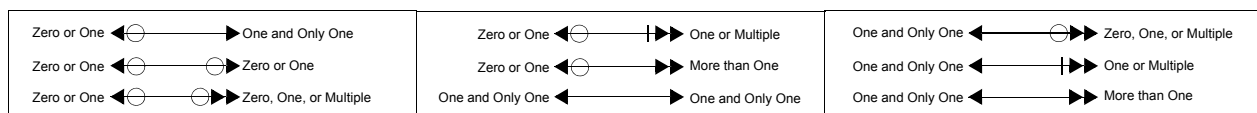
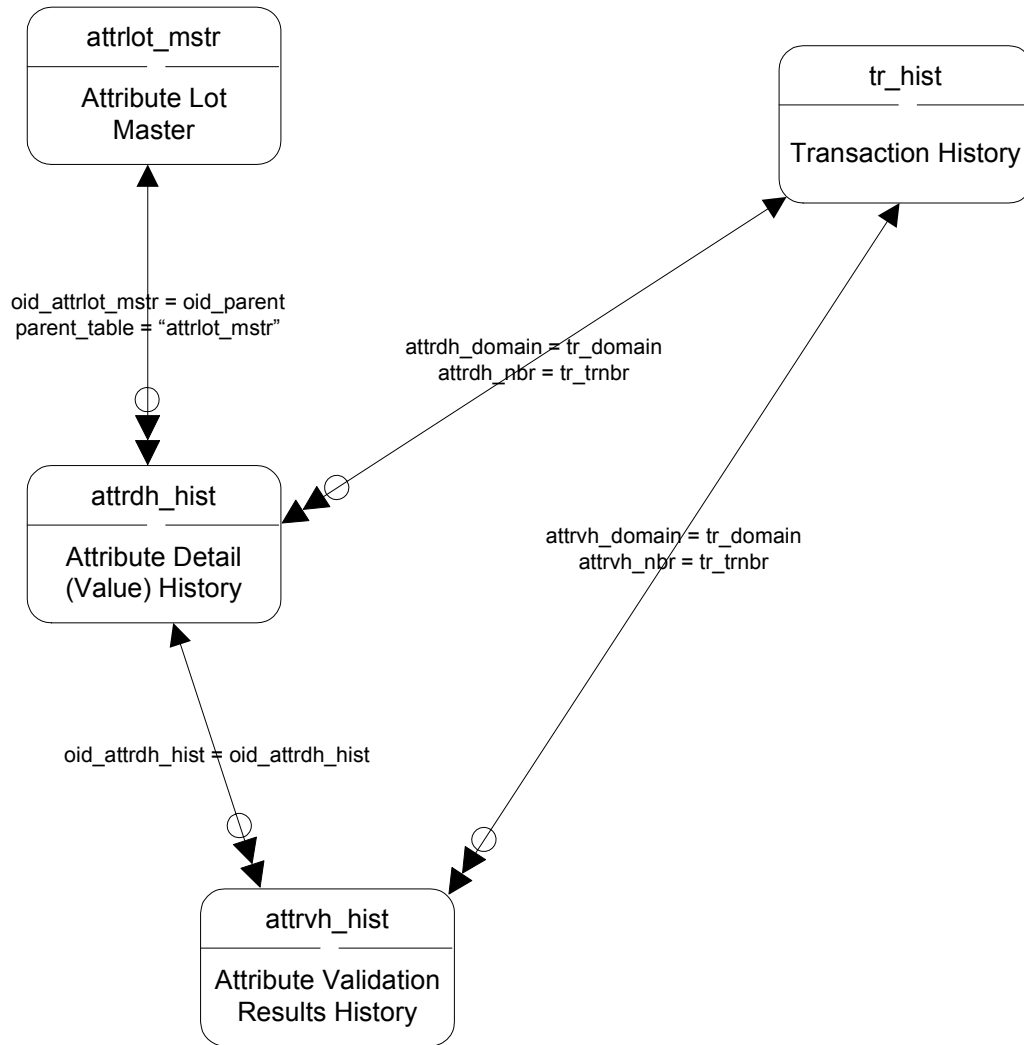


Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 

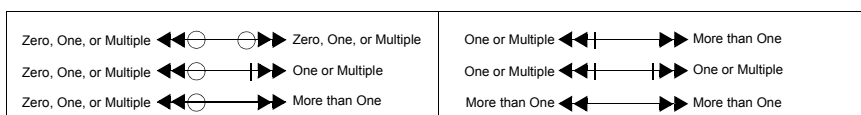
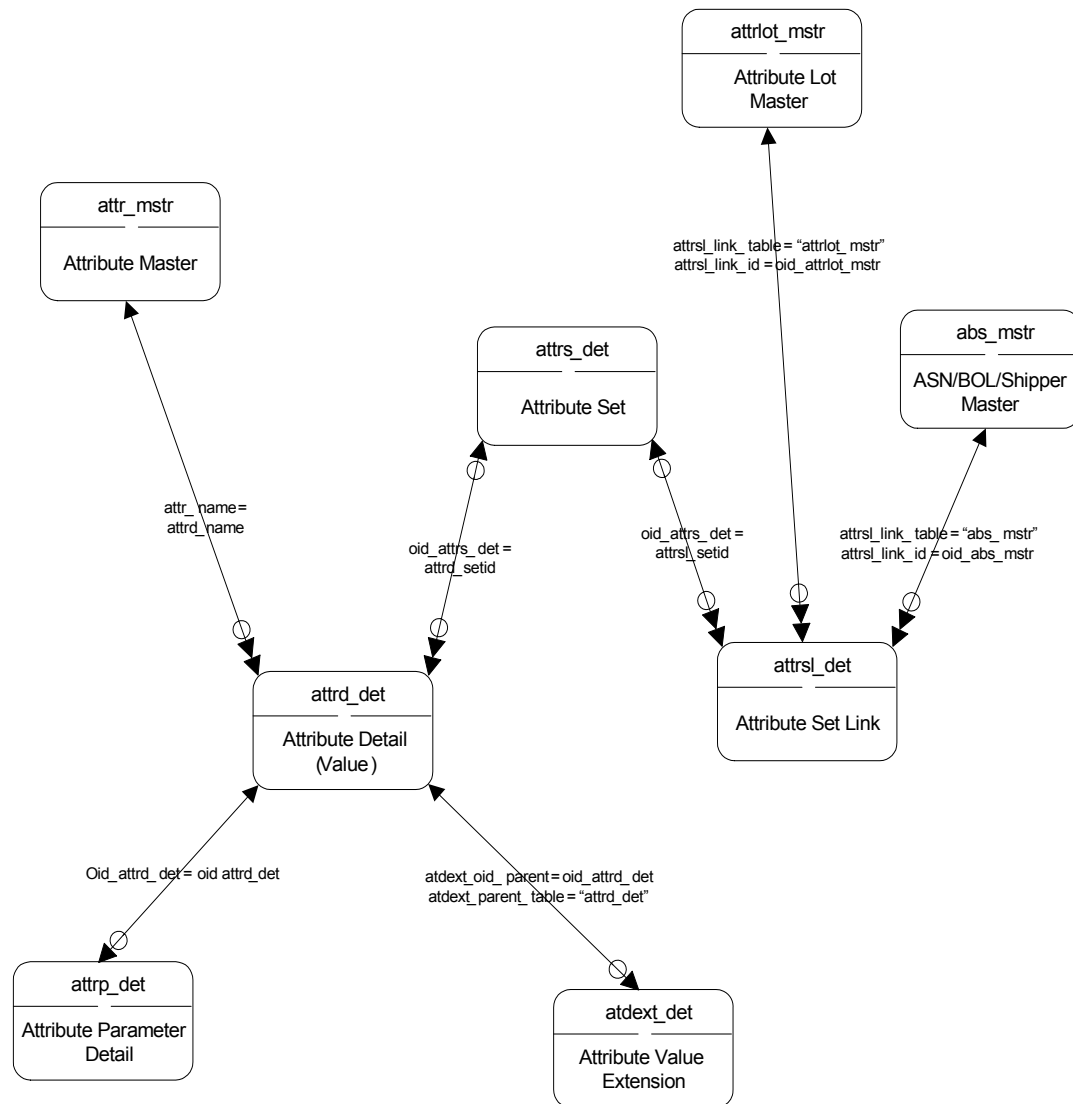
GTM Transactions



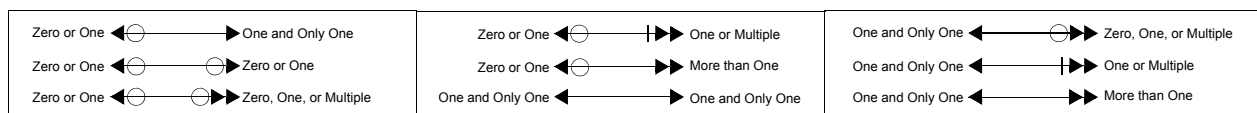
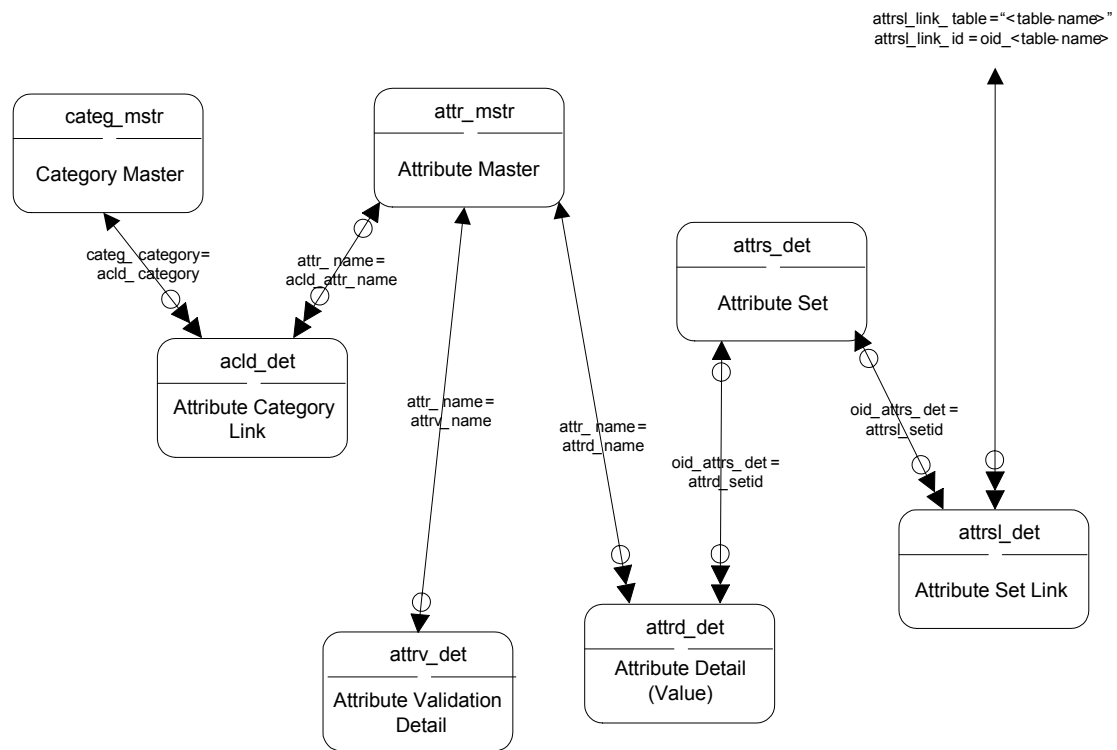
IAQ - Attribute Value History



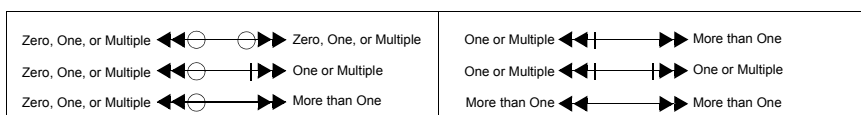
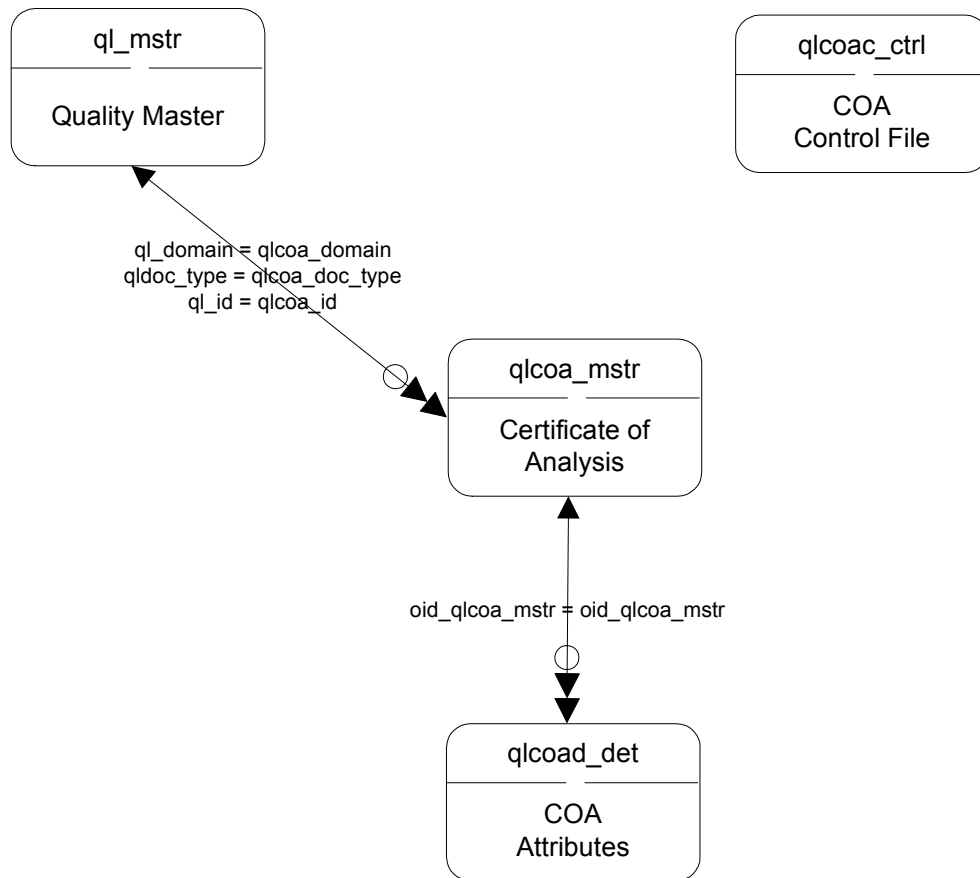
IAQ - Attribute Values



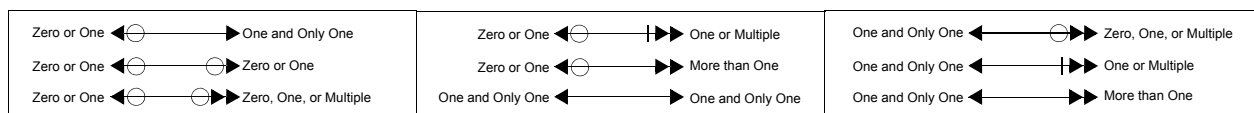
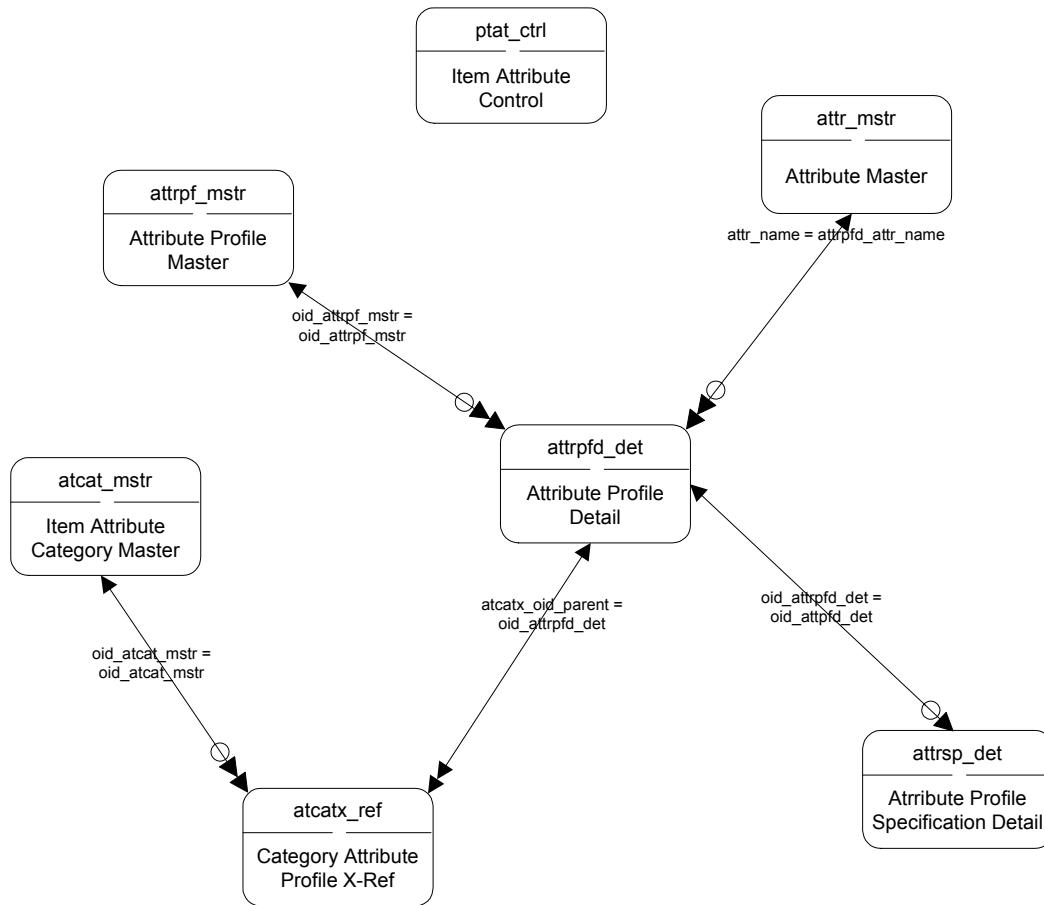
IAQ - Attributes Business Service



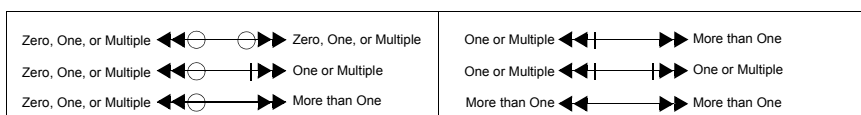
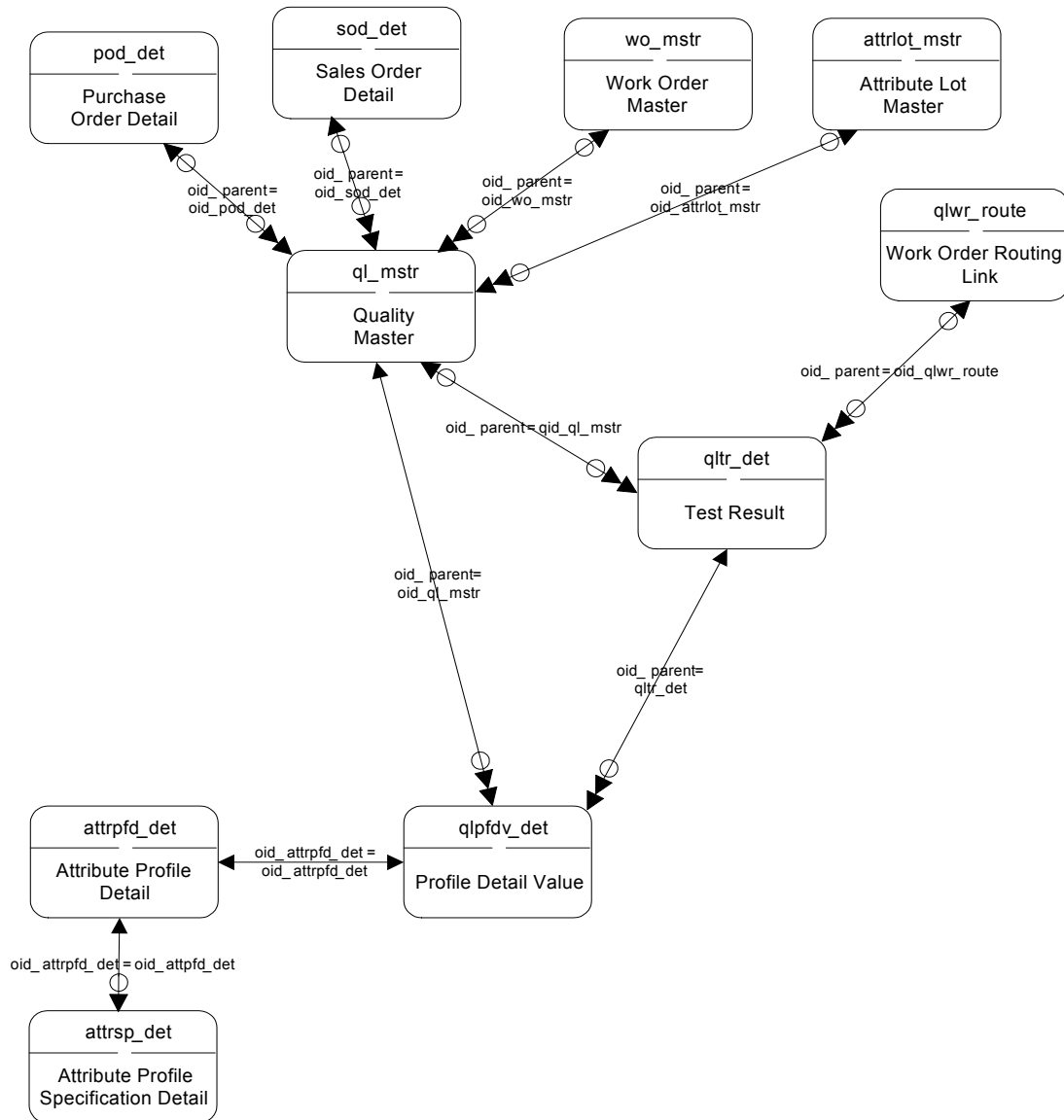
IAQ - Certificate of Analysis



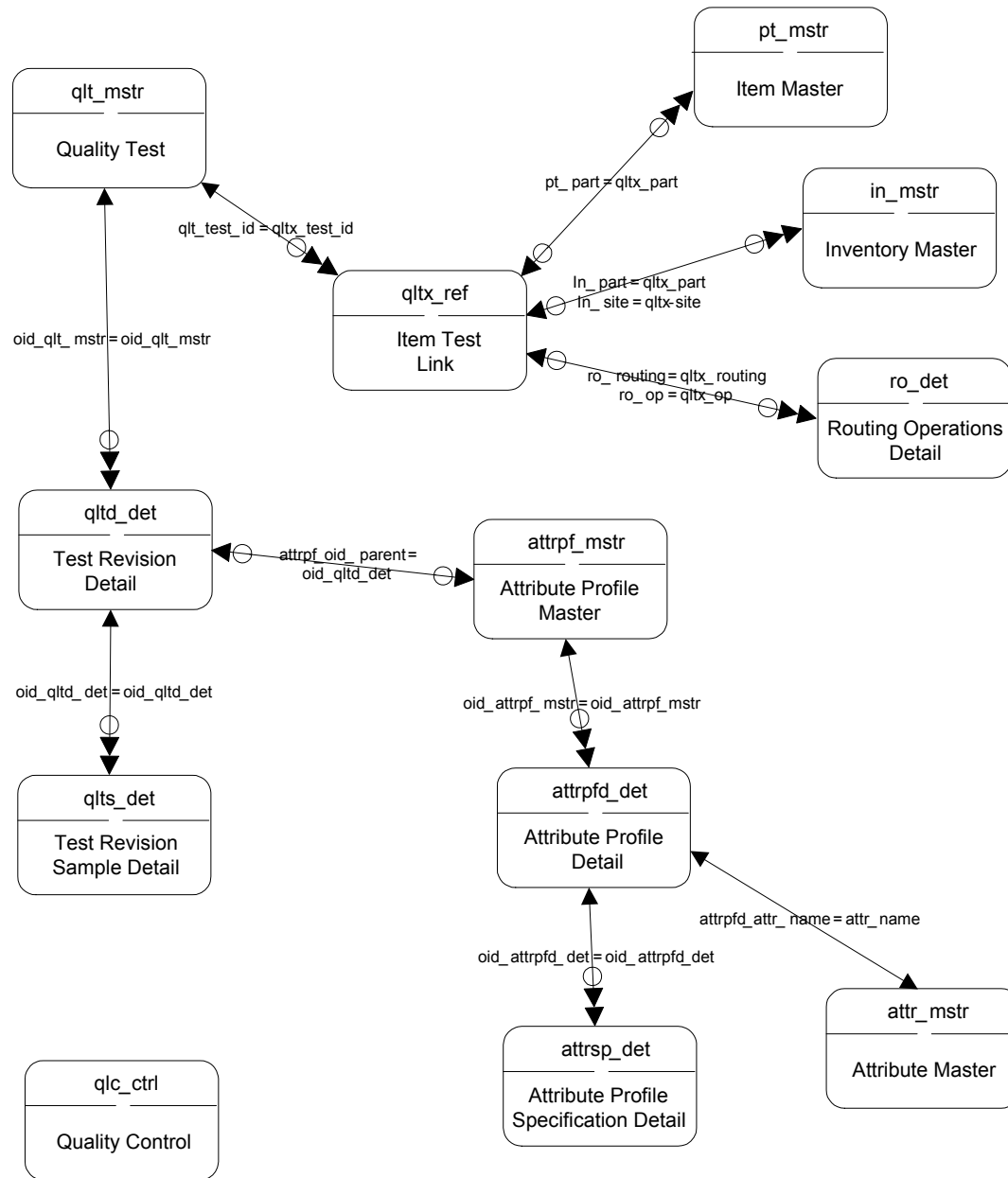
IAQ - Item Attribute Profiles



IAQ - Quality Orders



IAQ - Quality Setup



Zero or One One and Only One

Zero or One Zero or One

Zero or One Zero, One, or Multiple

Zero or One One or Multiple

Zero or One More than One

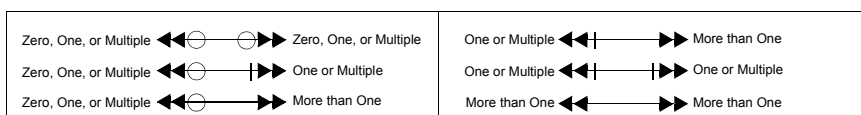
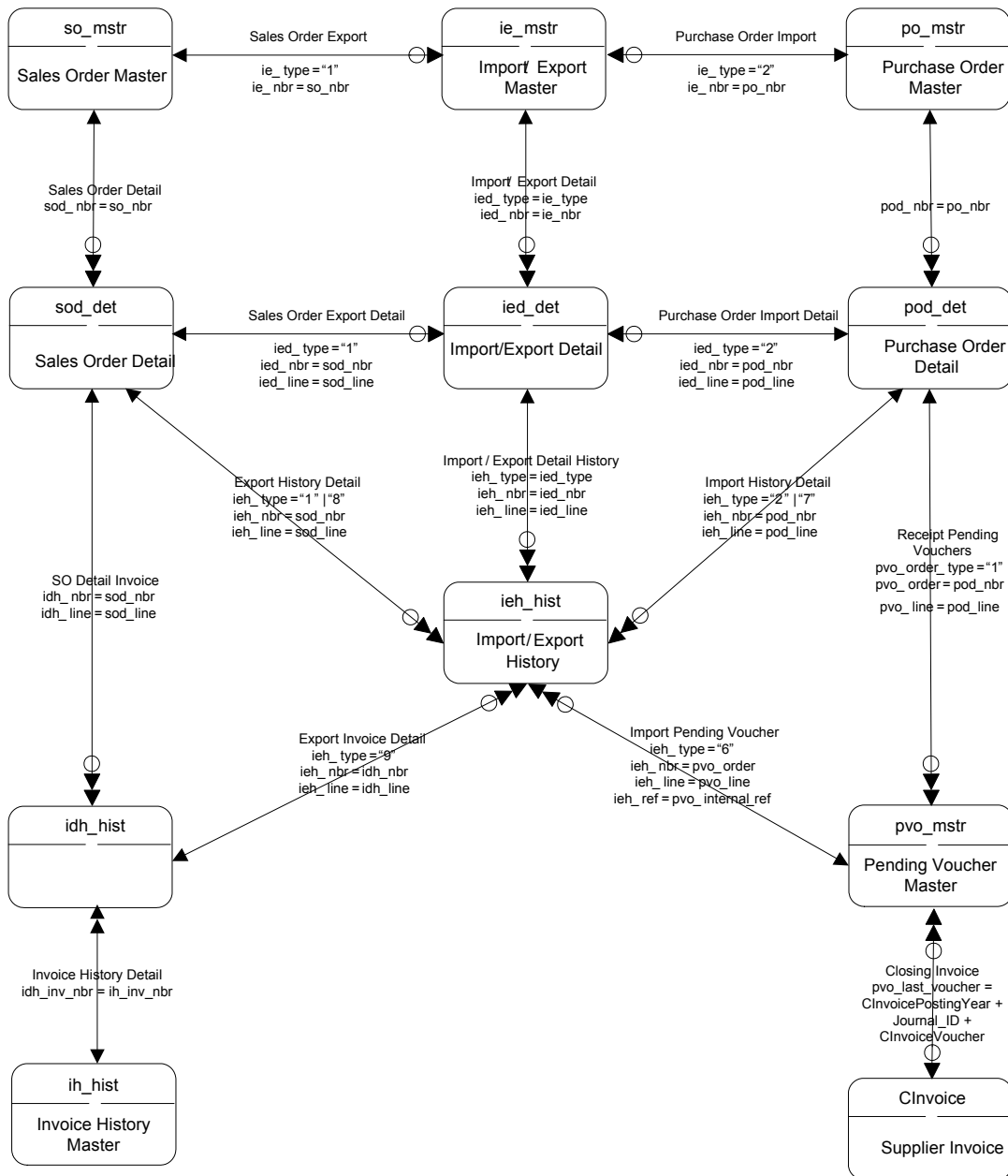
One and Only One One and Only One

One and Only One Zero, One, or Multiple

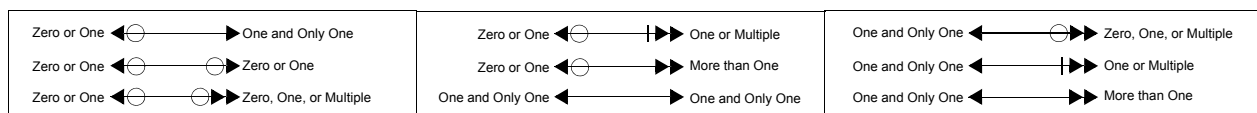
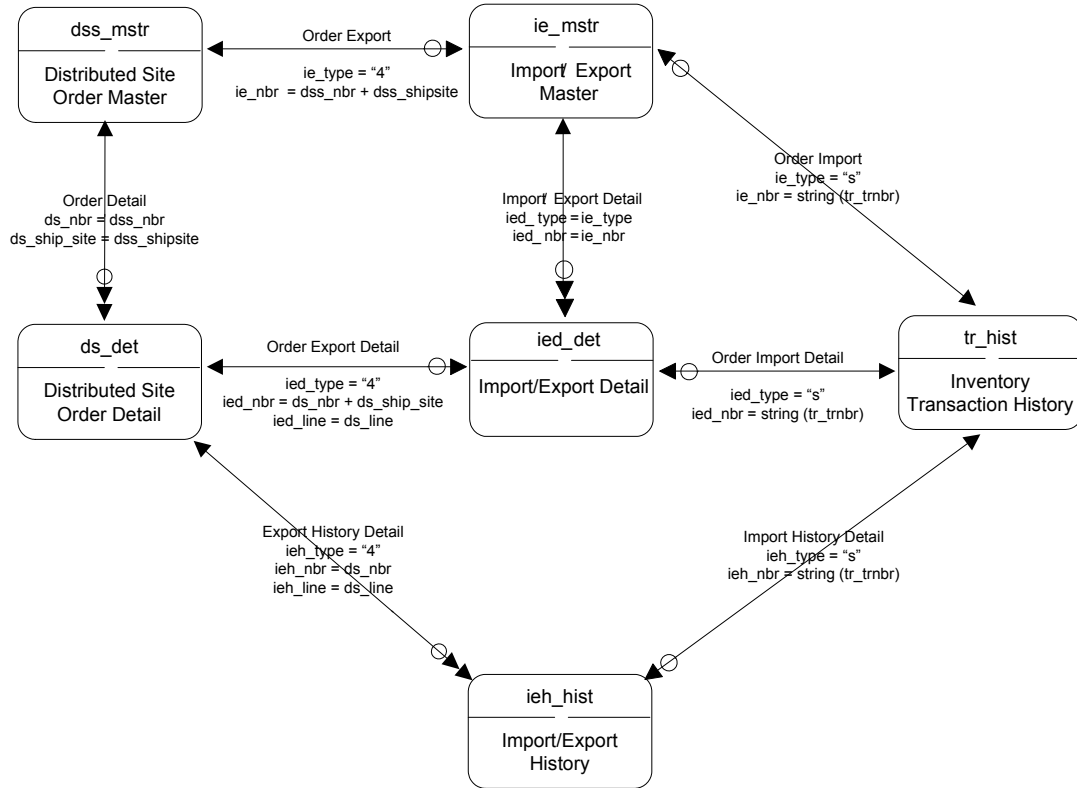
One and Only One One or Multiple

One and Only One More than One

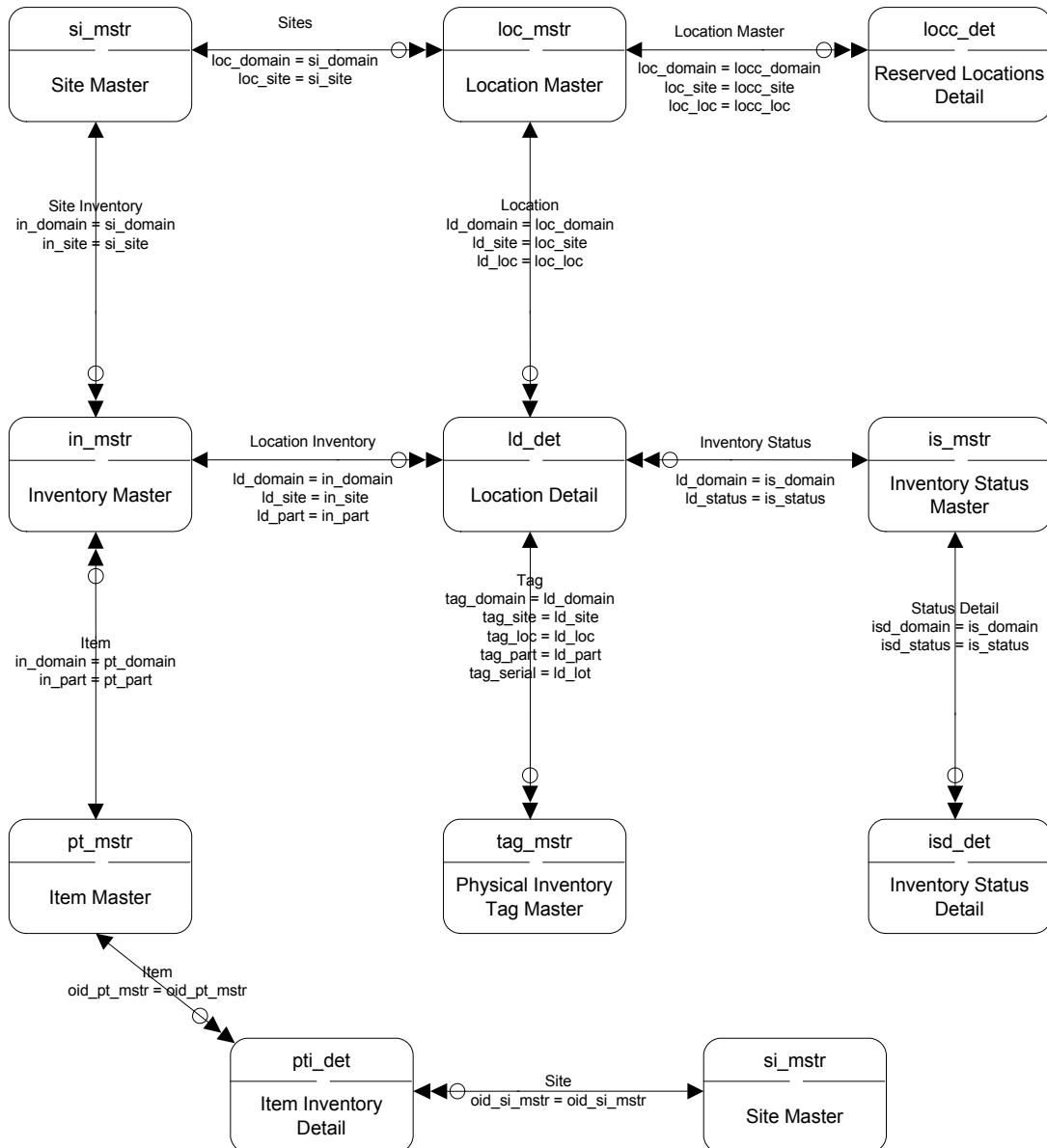
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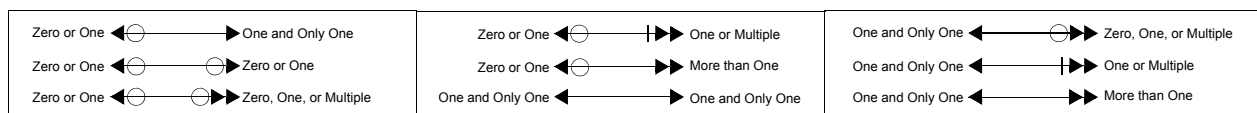
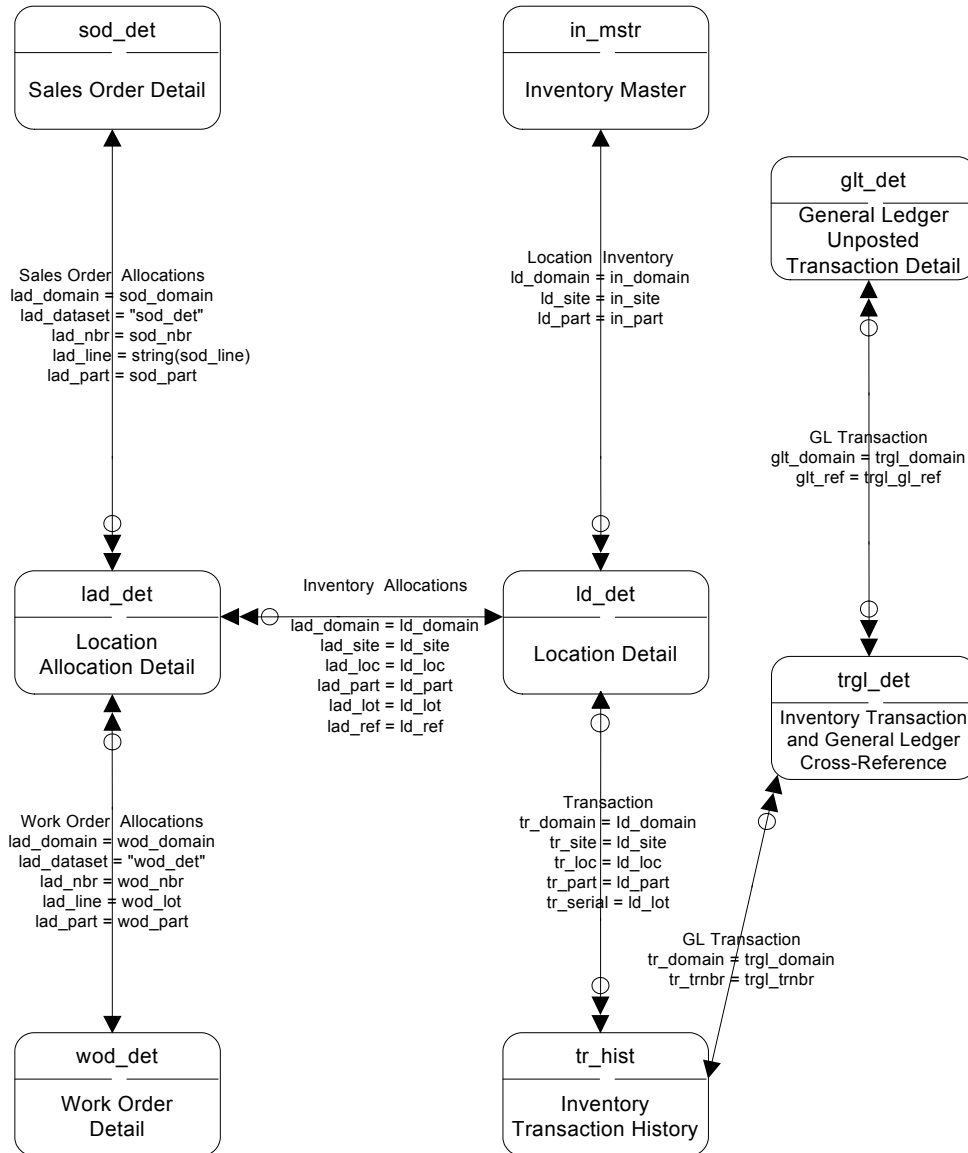
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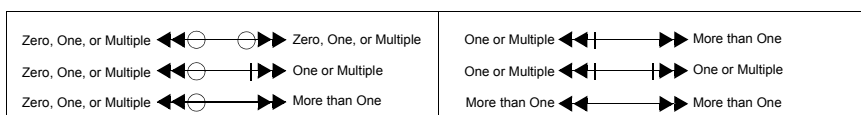
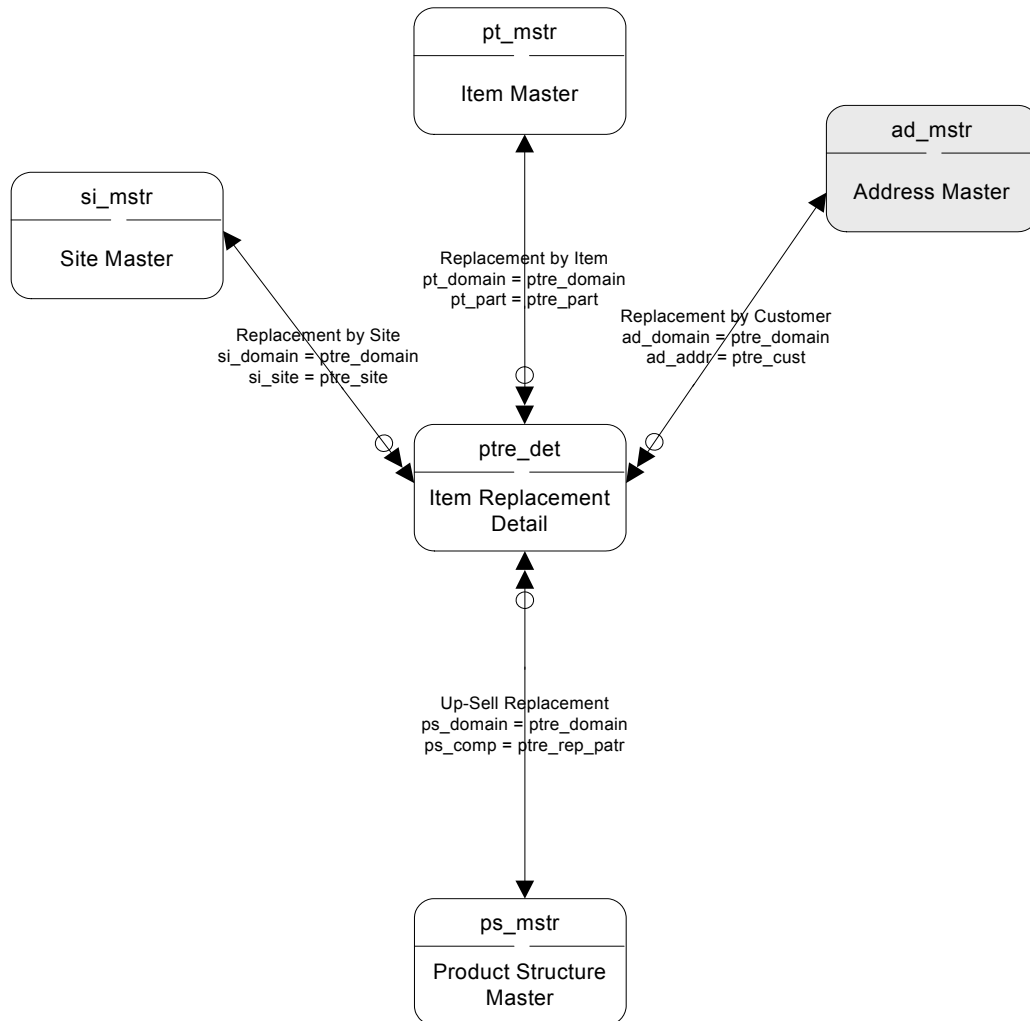
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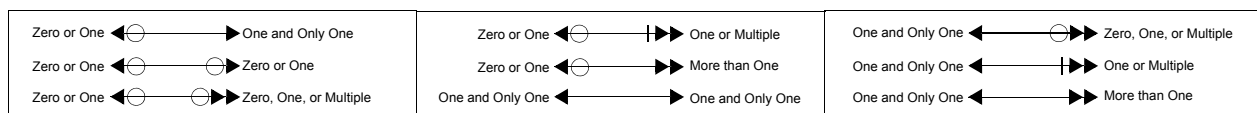
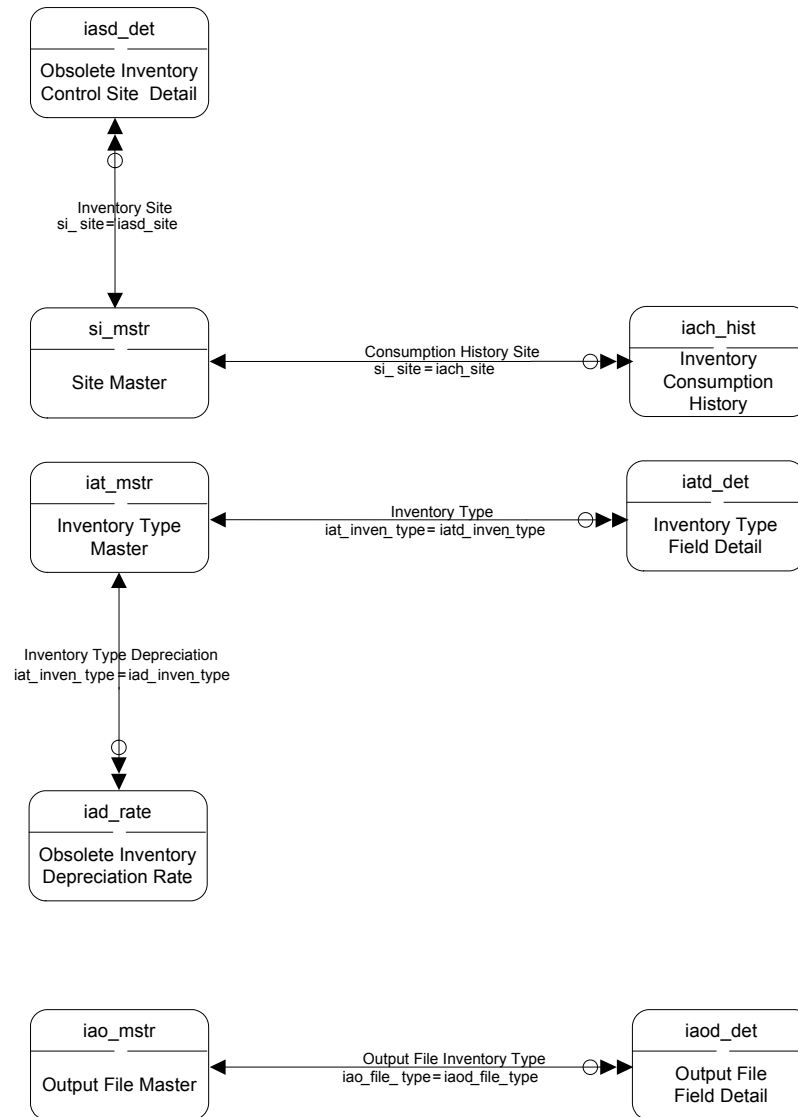
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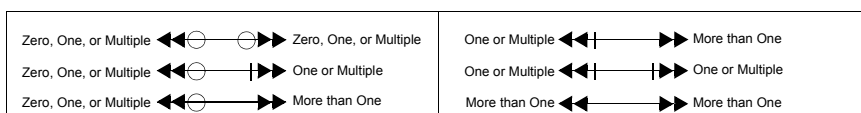
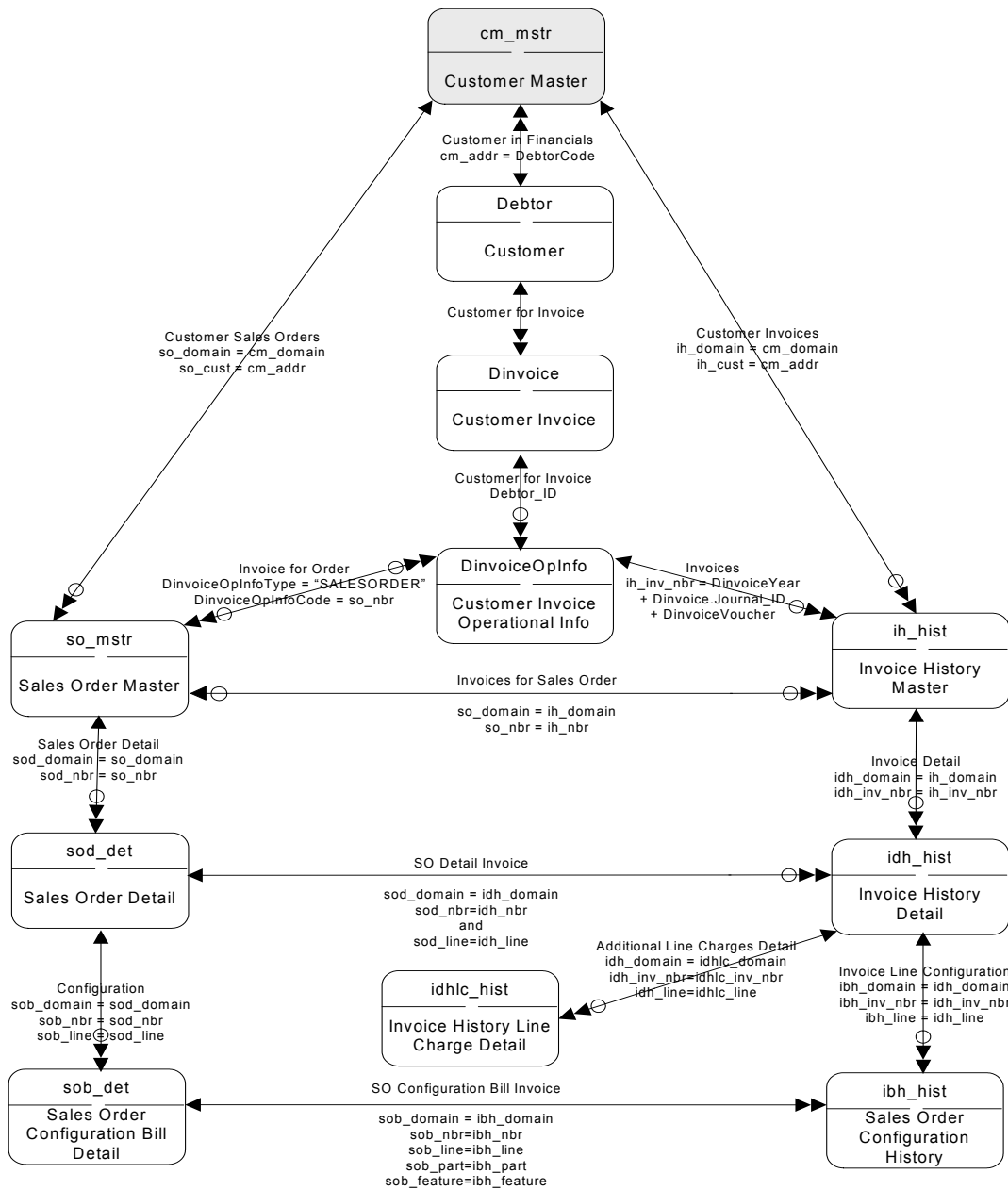
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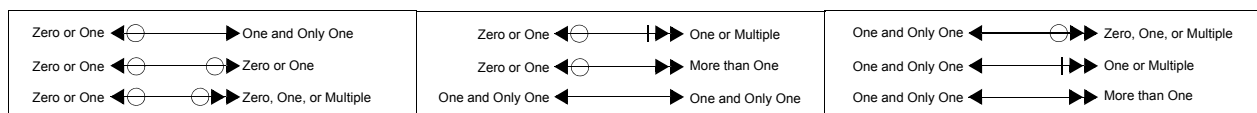
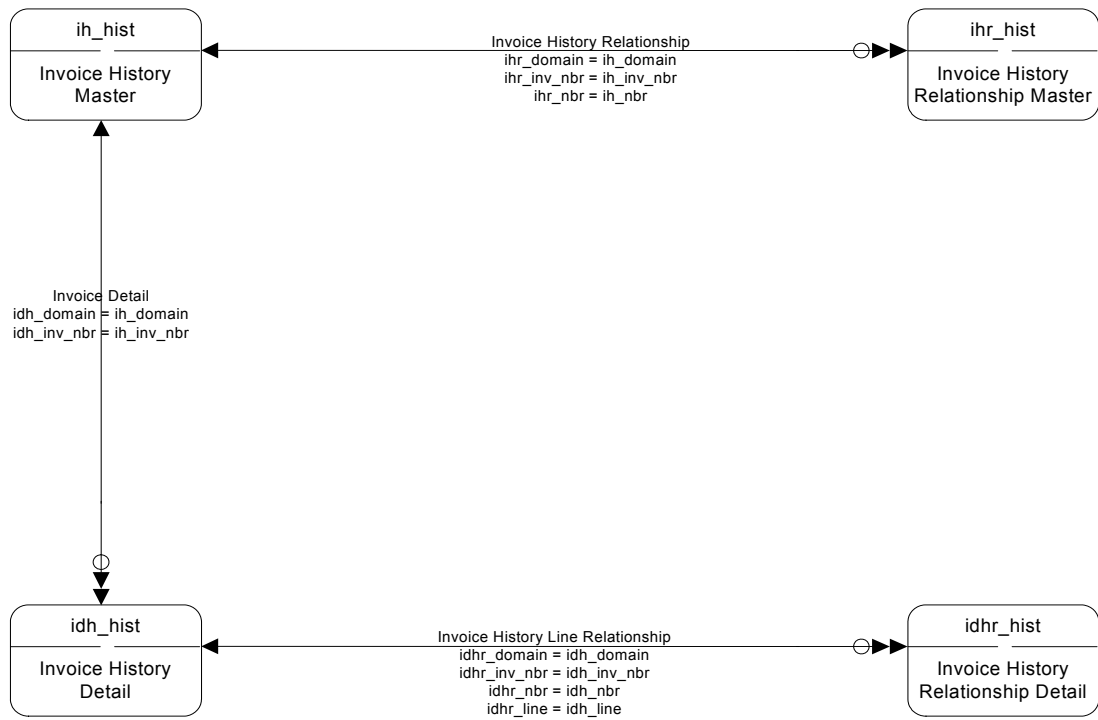
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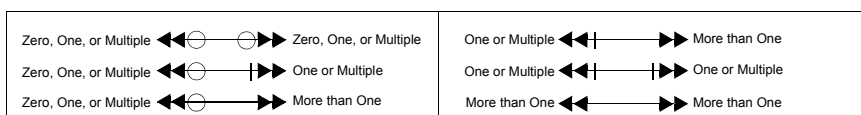
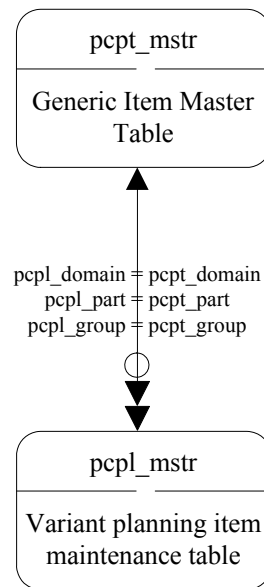
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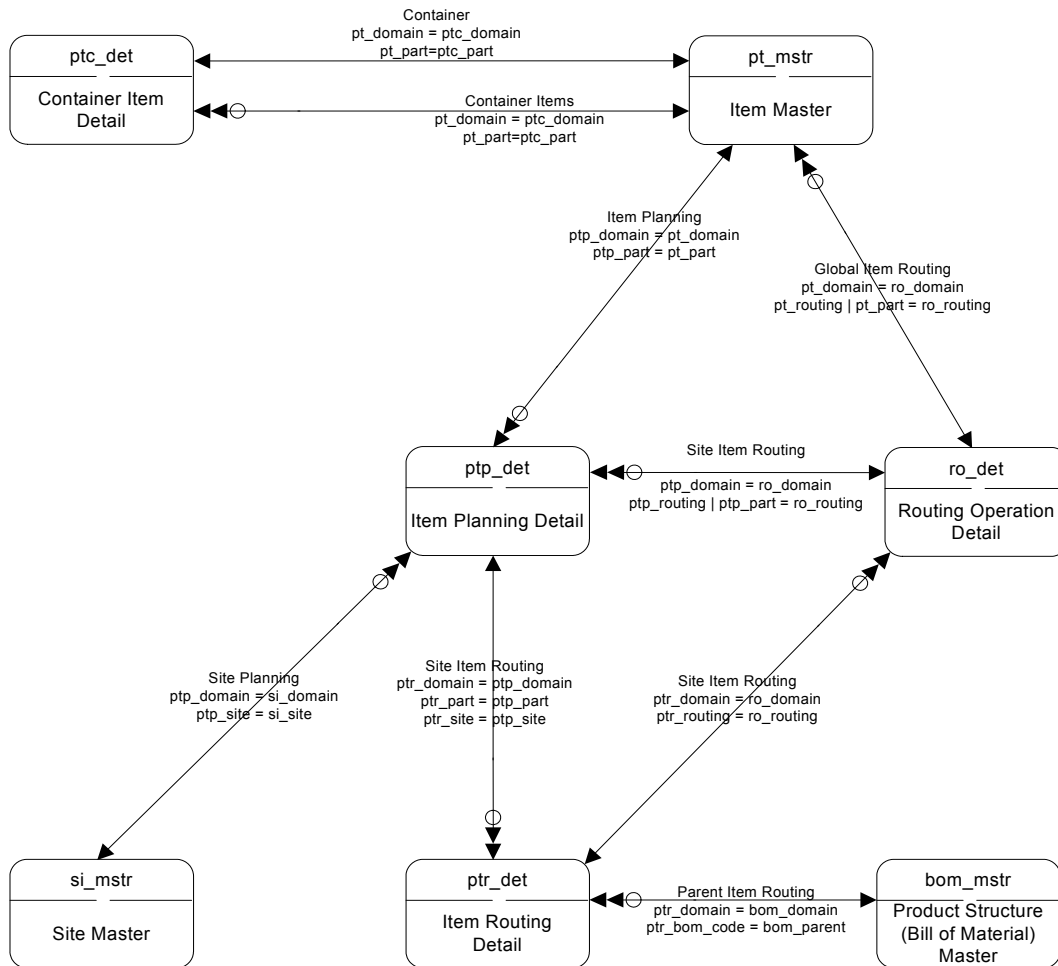
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



















Item Planning

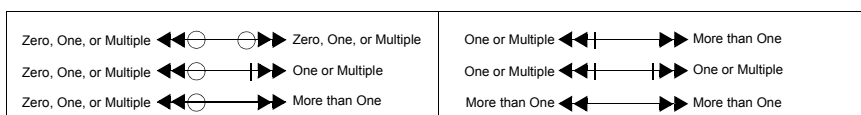
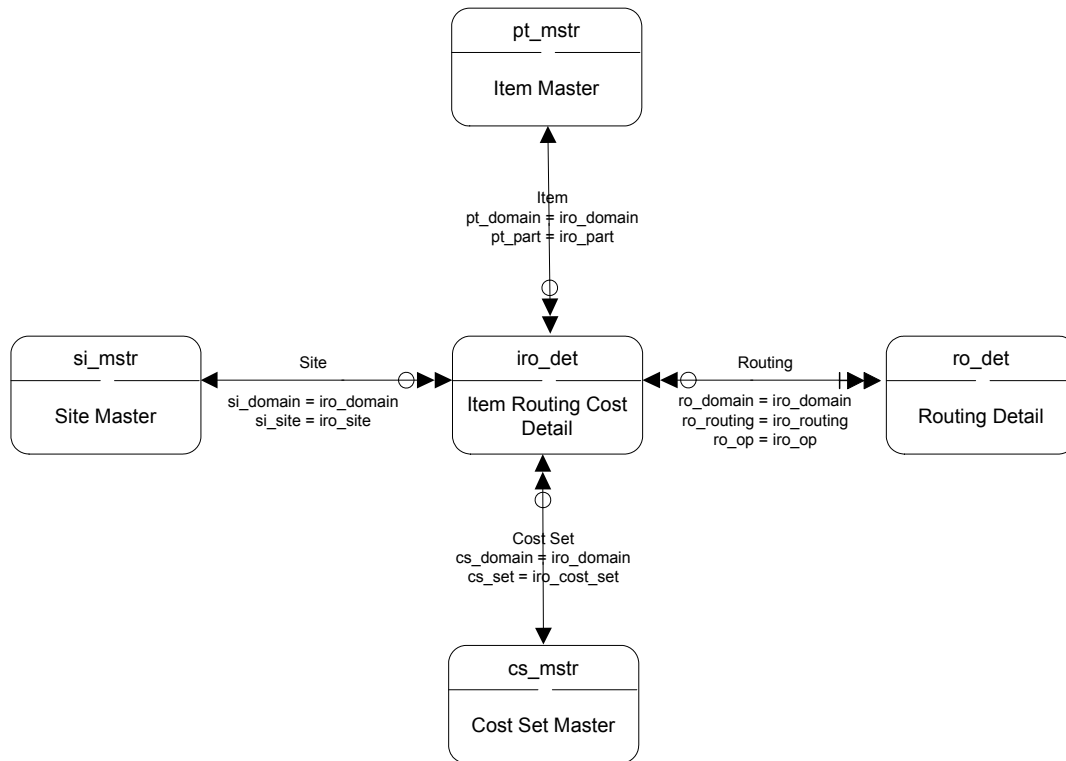


Item Routing I

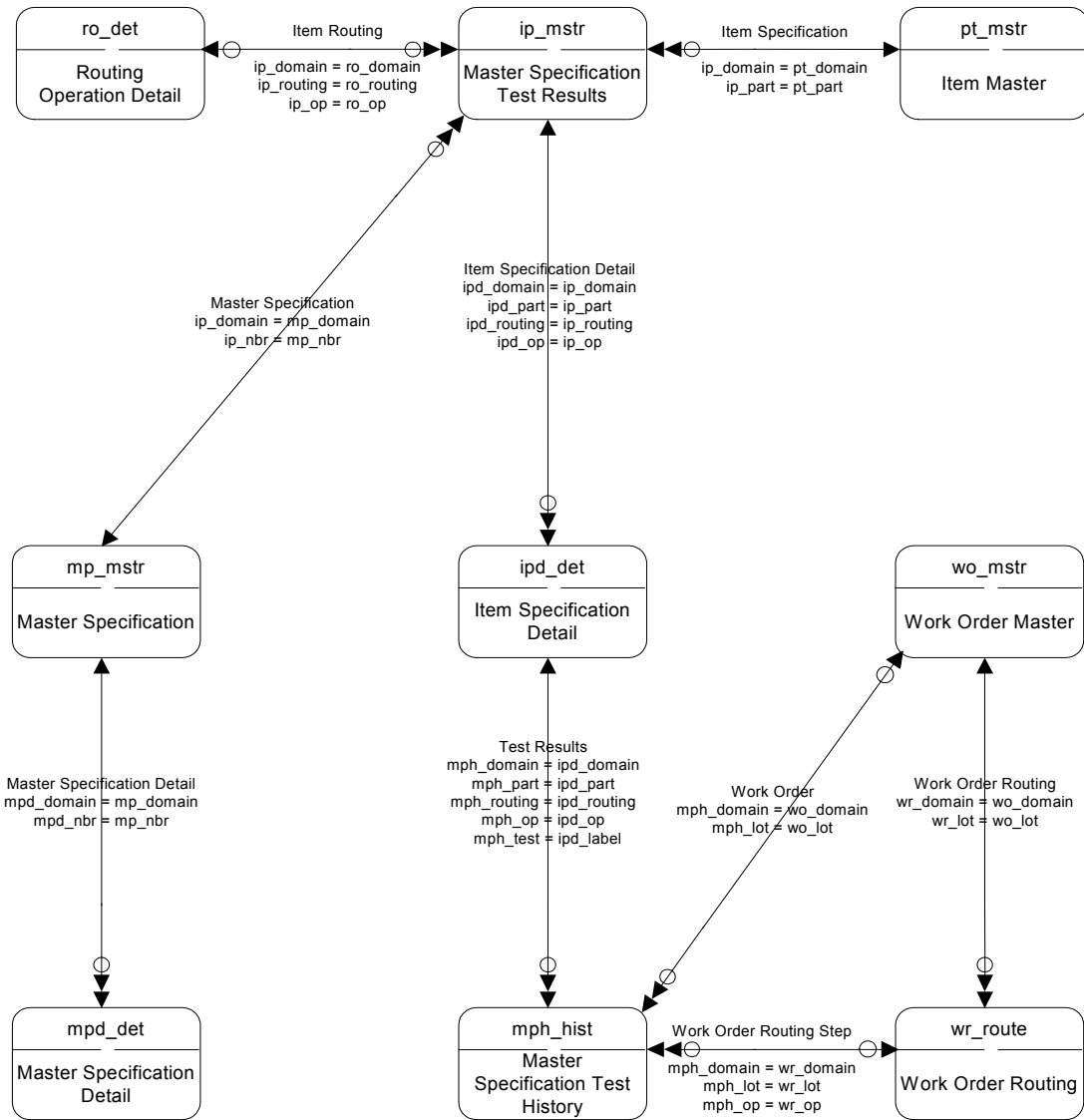


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Item Routing II



Item Specification

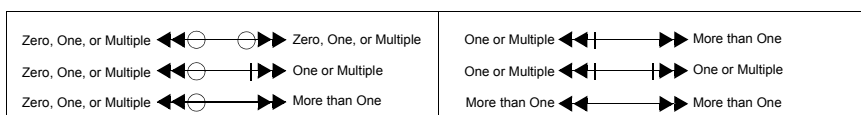
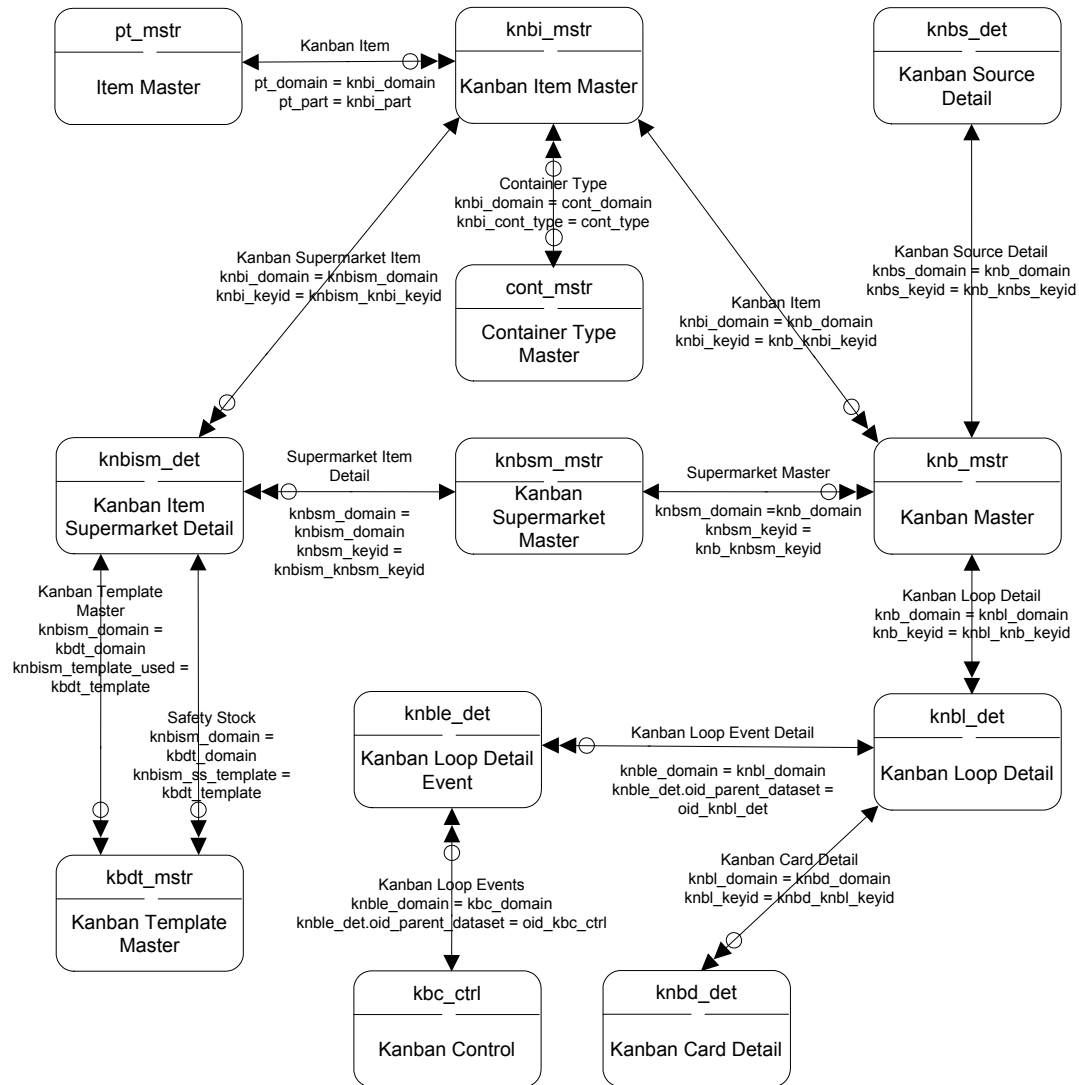


Zero or One	One and Only One
Zero or One	Zero or One
Zero or One	Zero, One, or Multiple

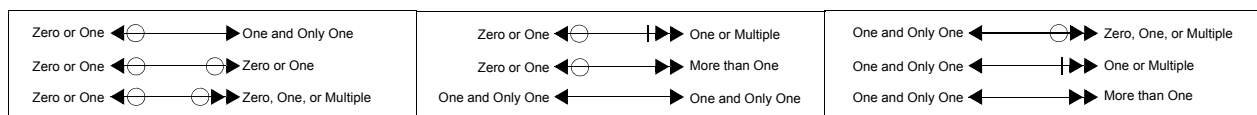
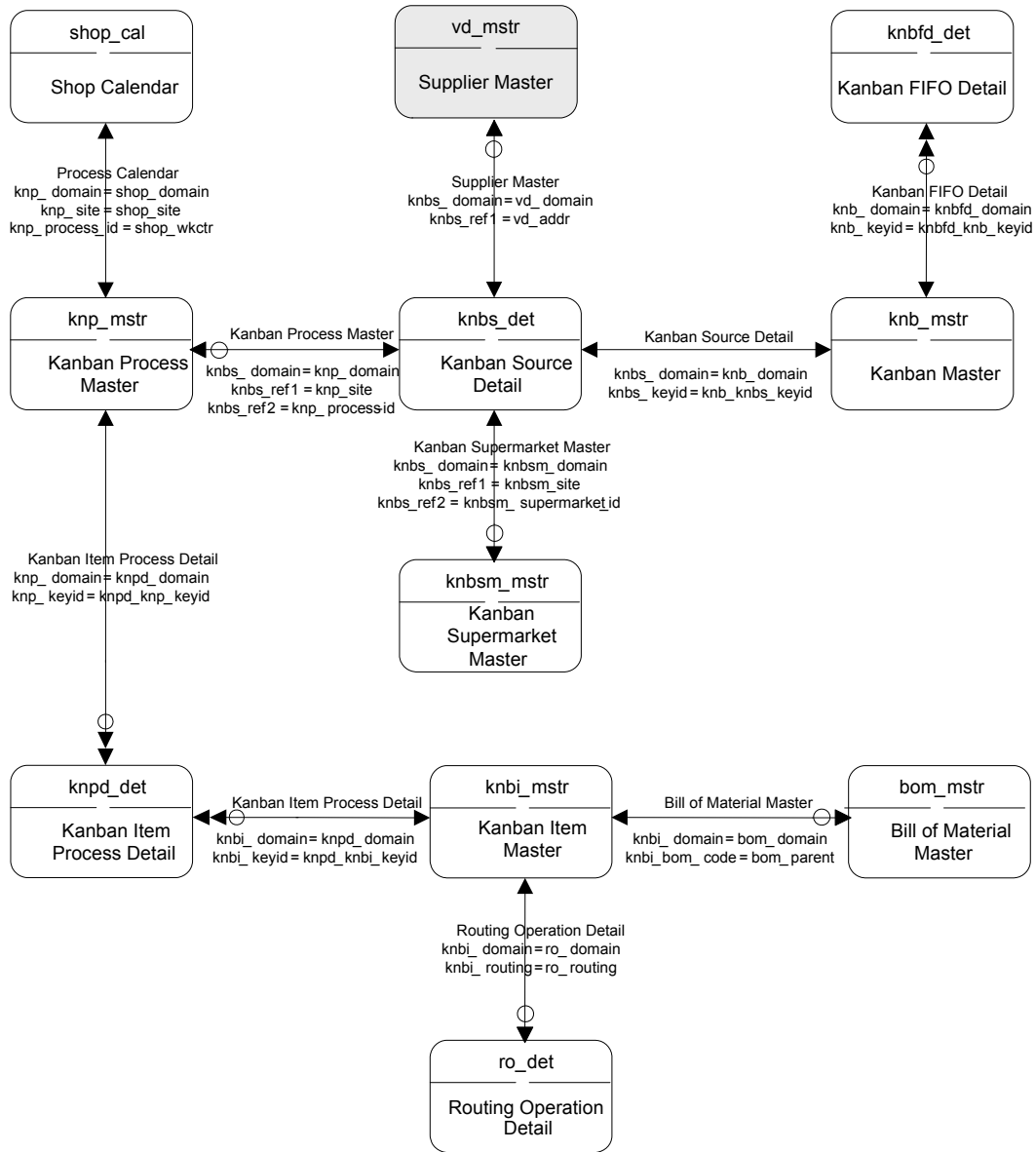
Zero or One	One or Multiple
Zero or One	More than One
One and Only One	One and Only One

One and Only One	Zero, One, or Multiple
One and Only One	One or Multiple
One and Only One	More than One

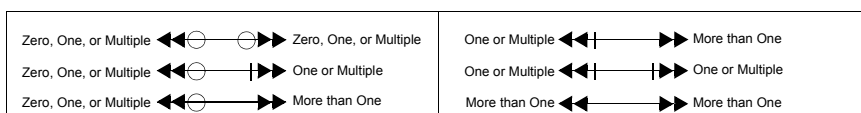
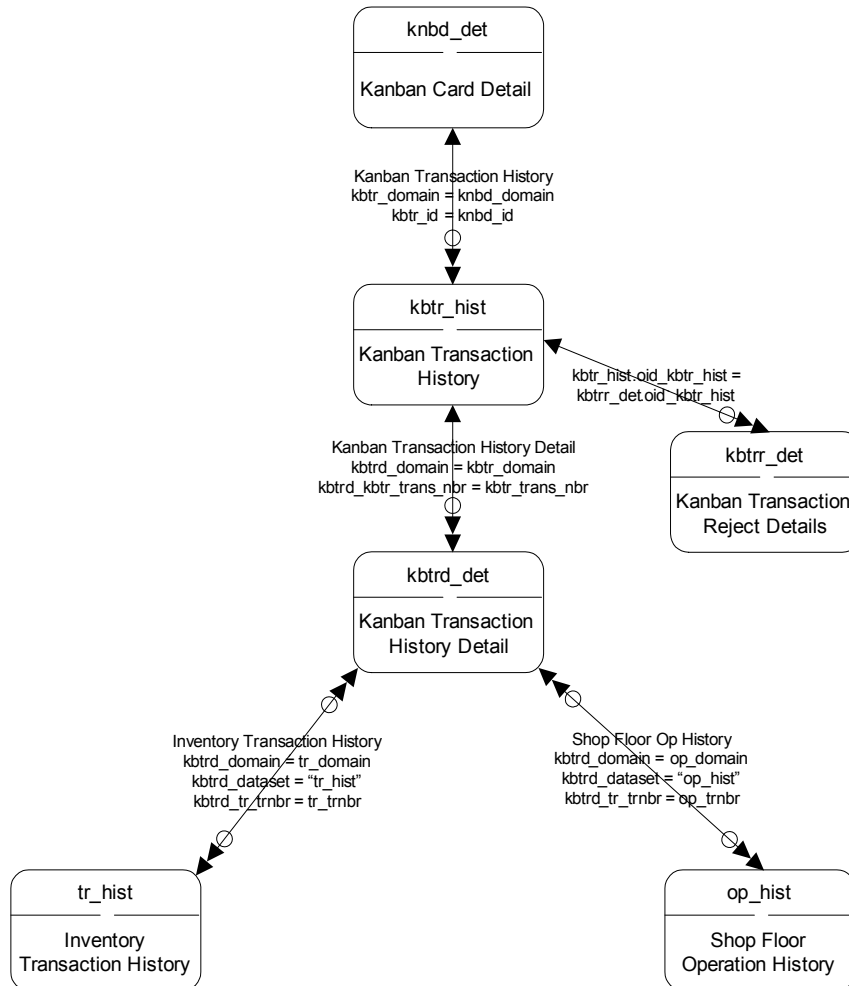
Kanban I



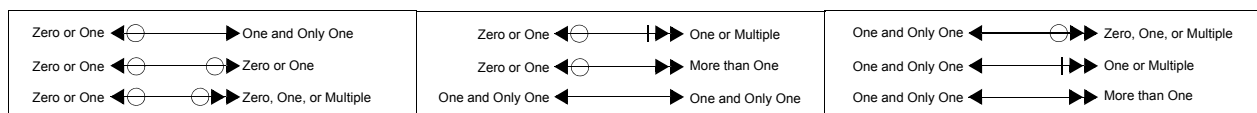
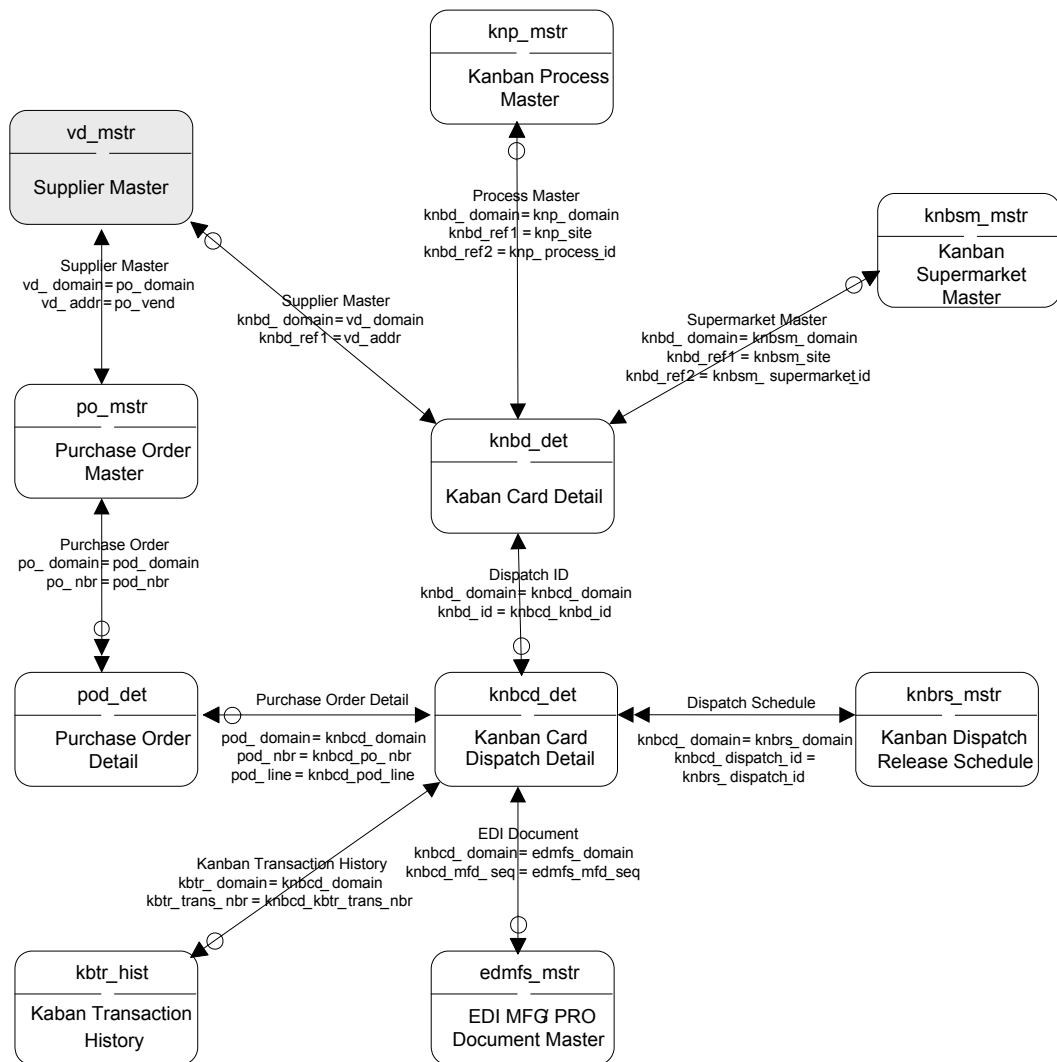
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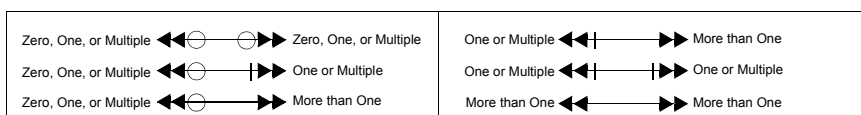
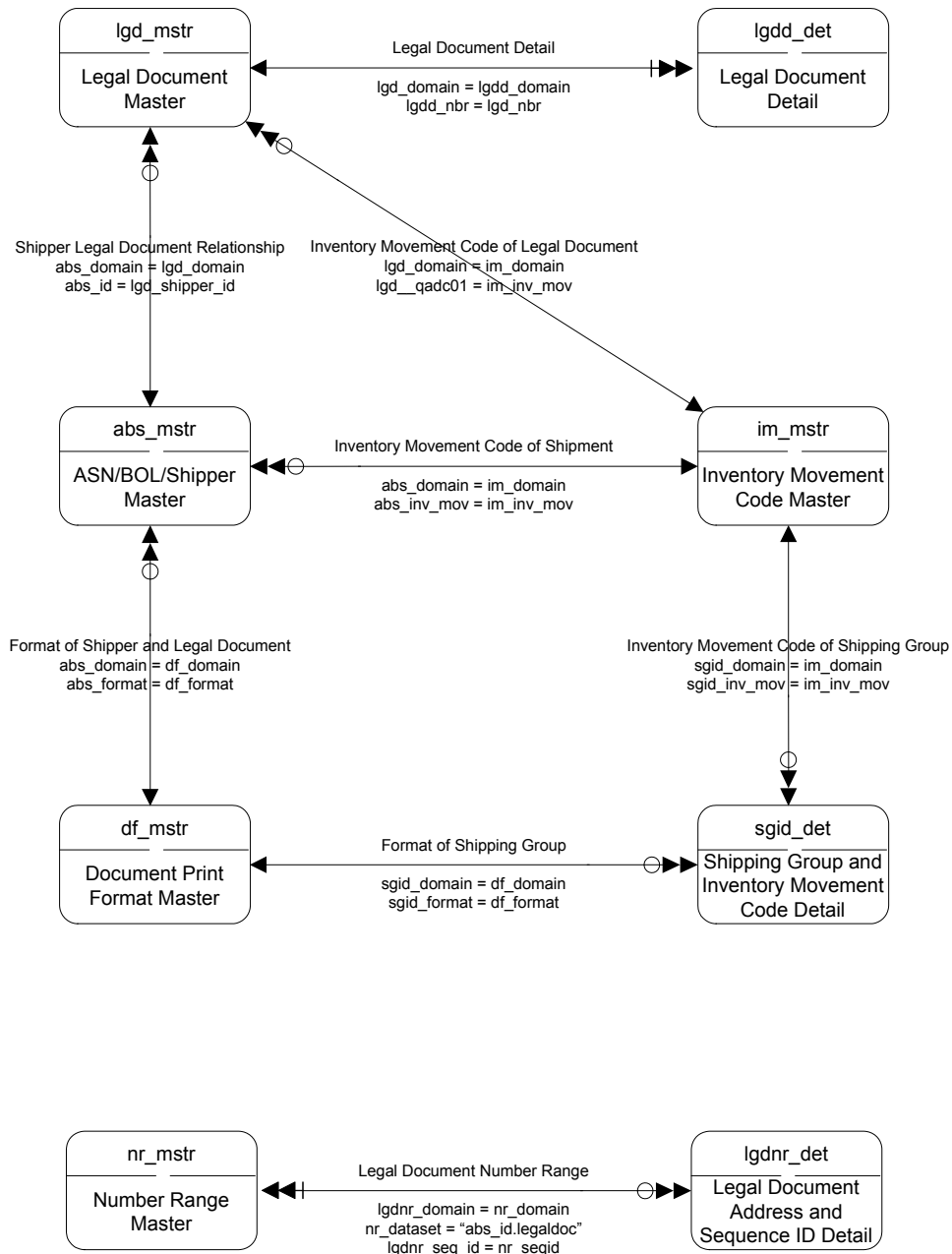
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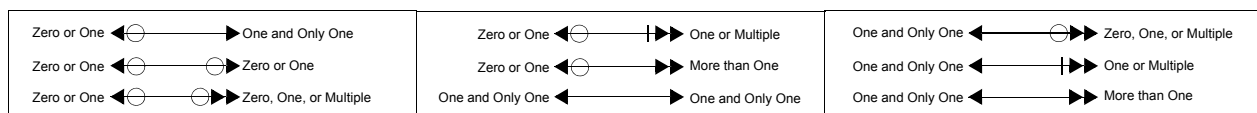
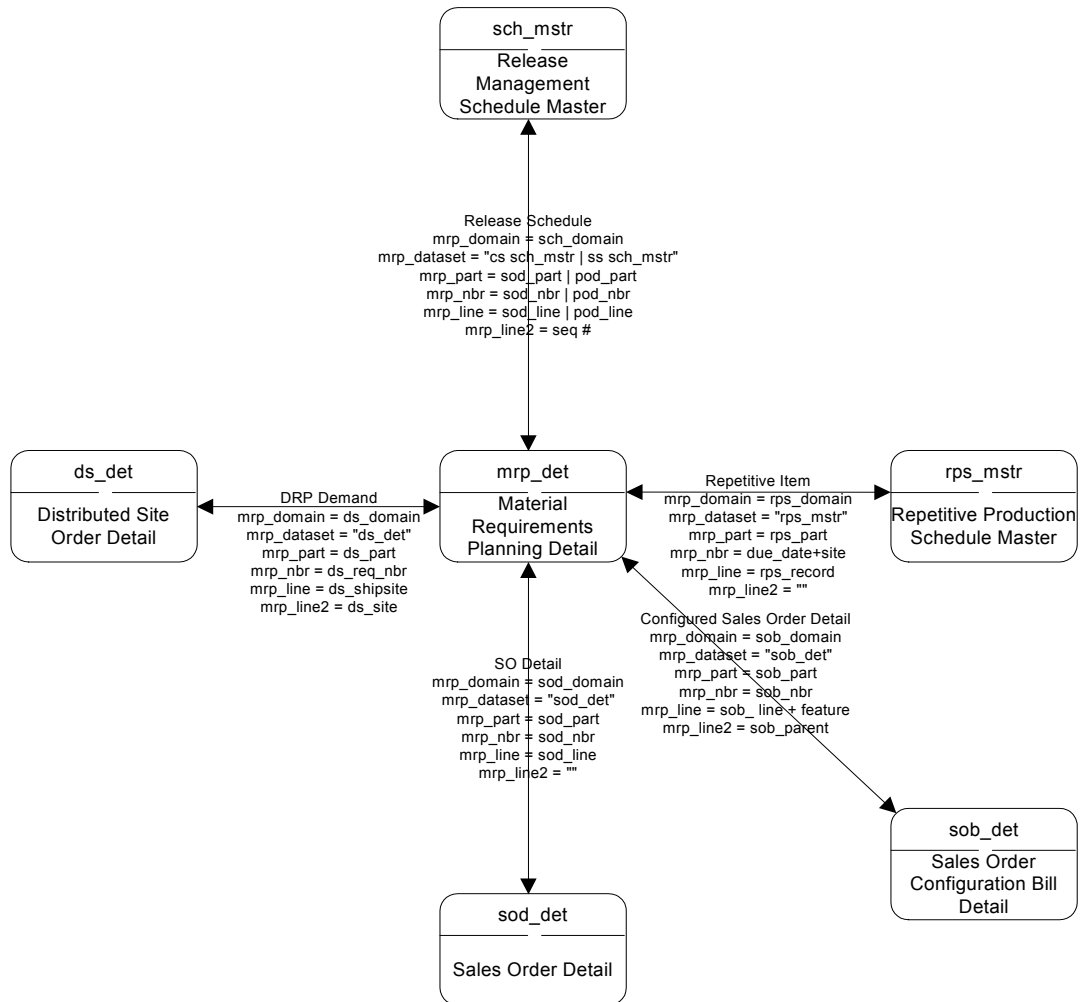
Kanban IV



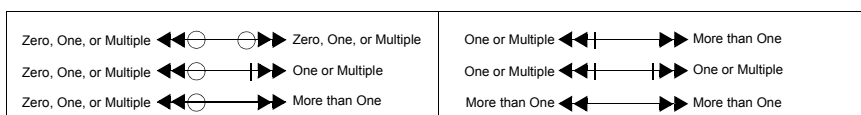
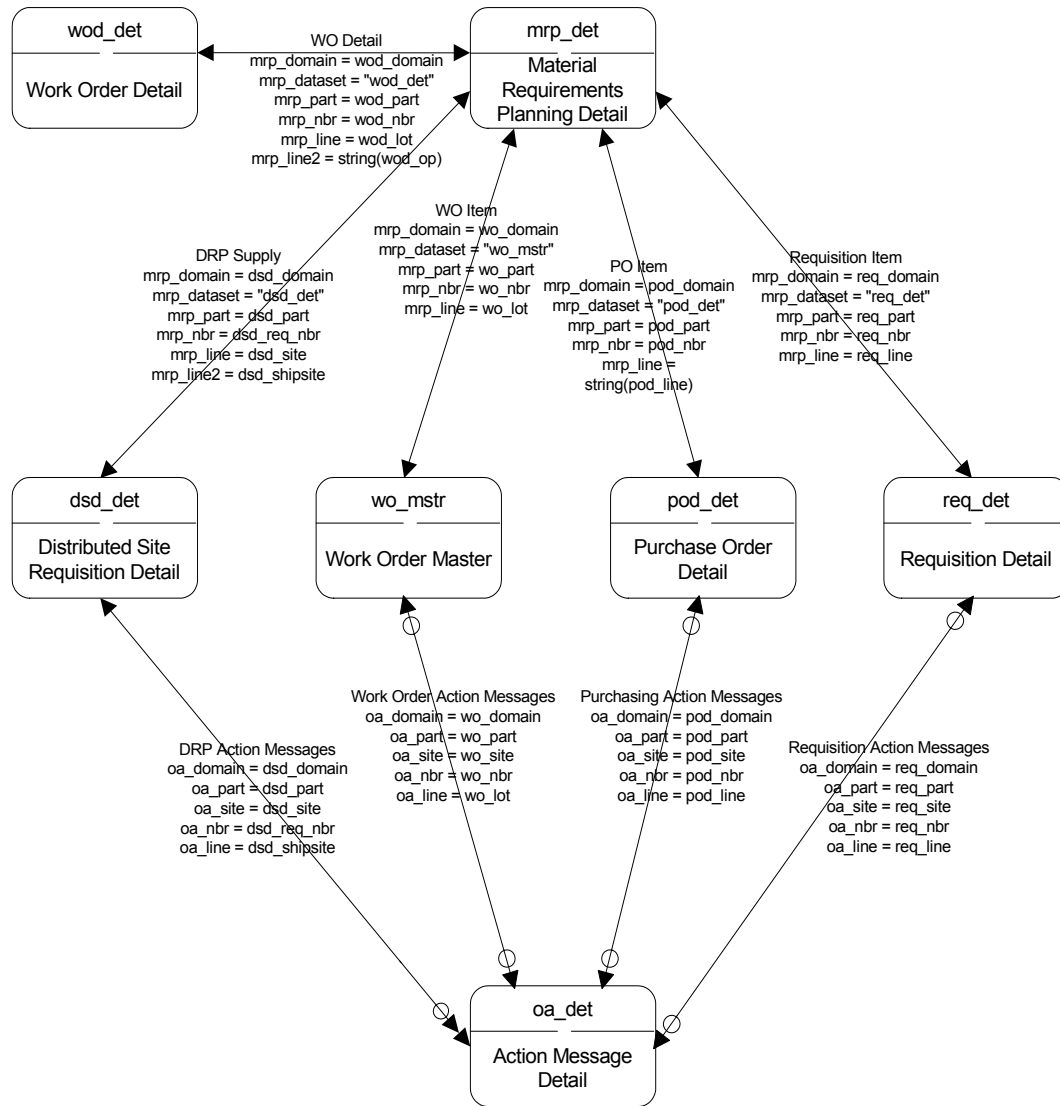
Legal Document



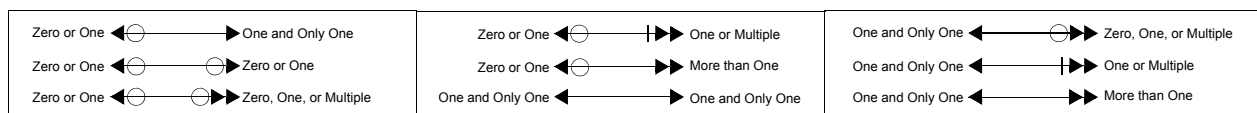
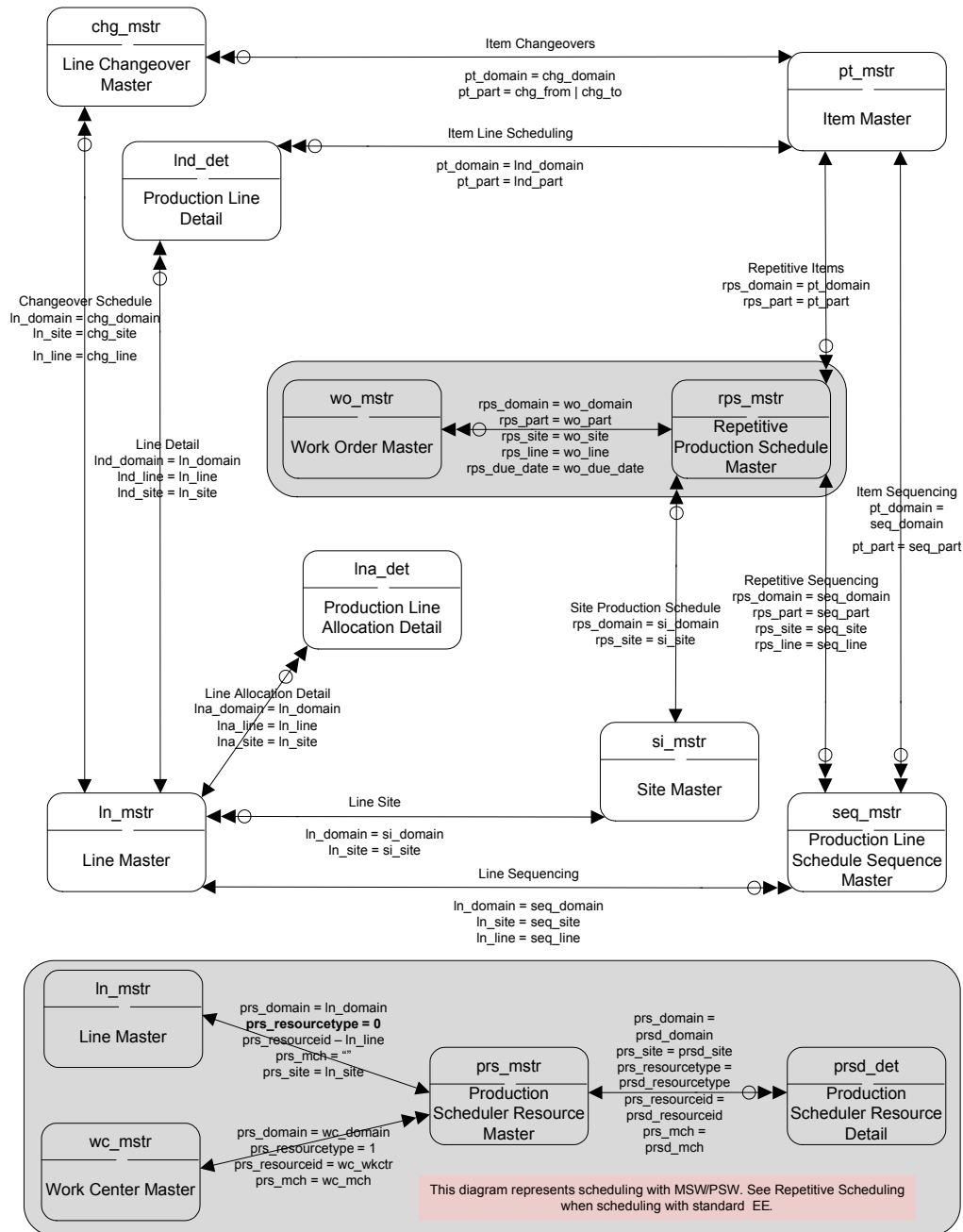
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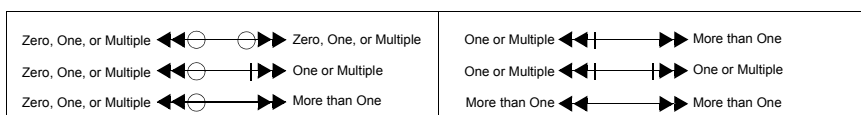
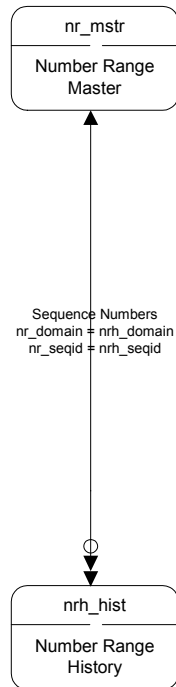
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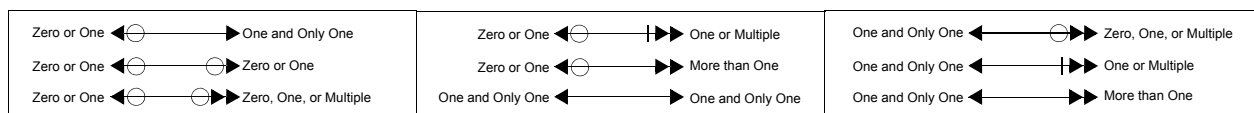
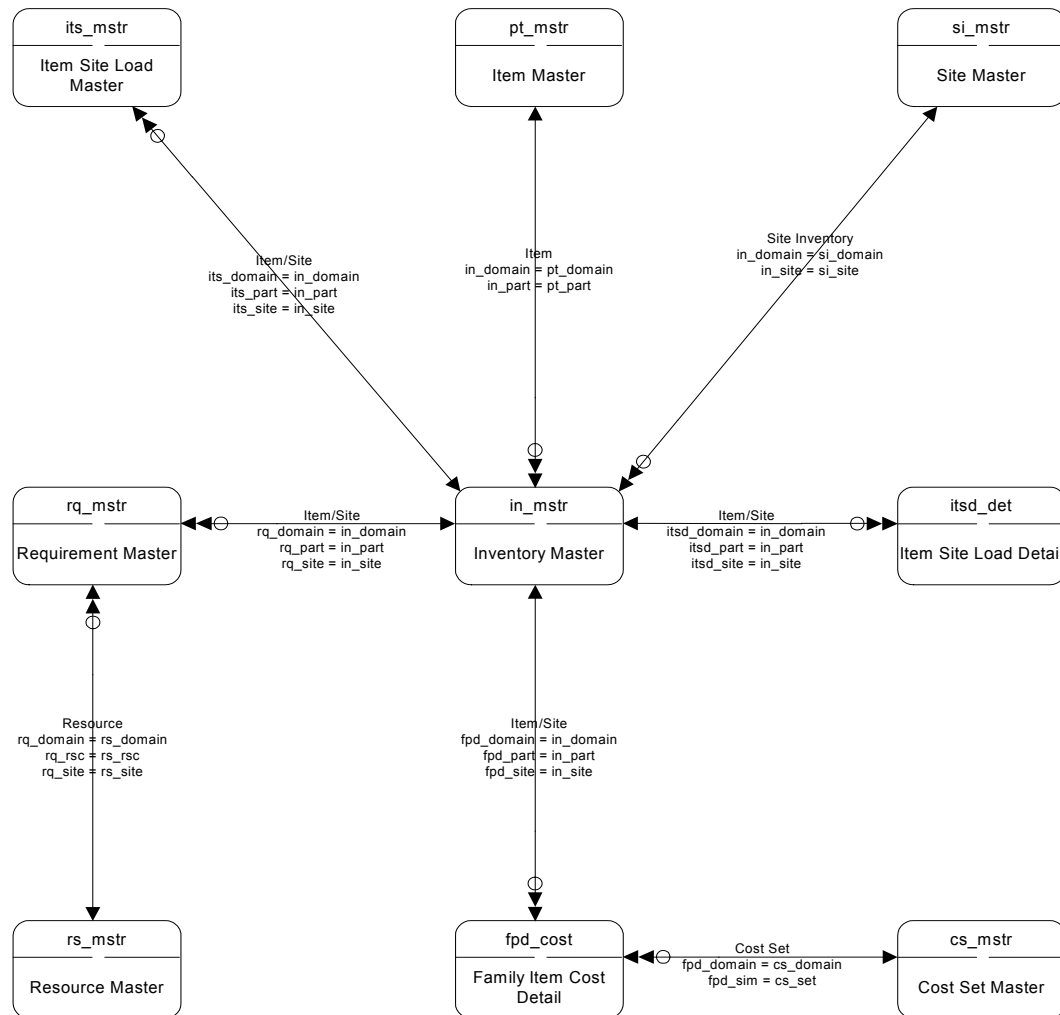
MSW/PSW



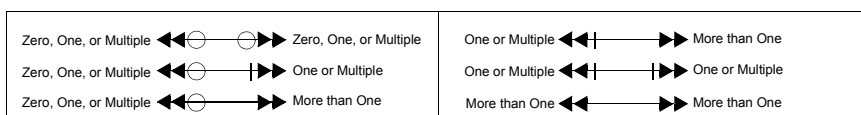
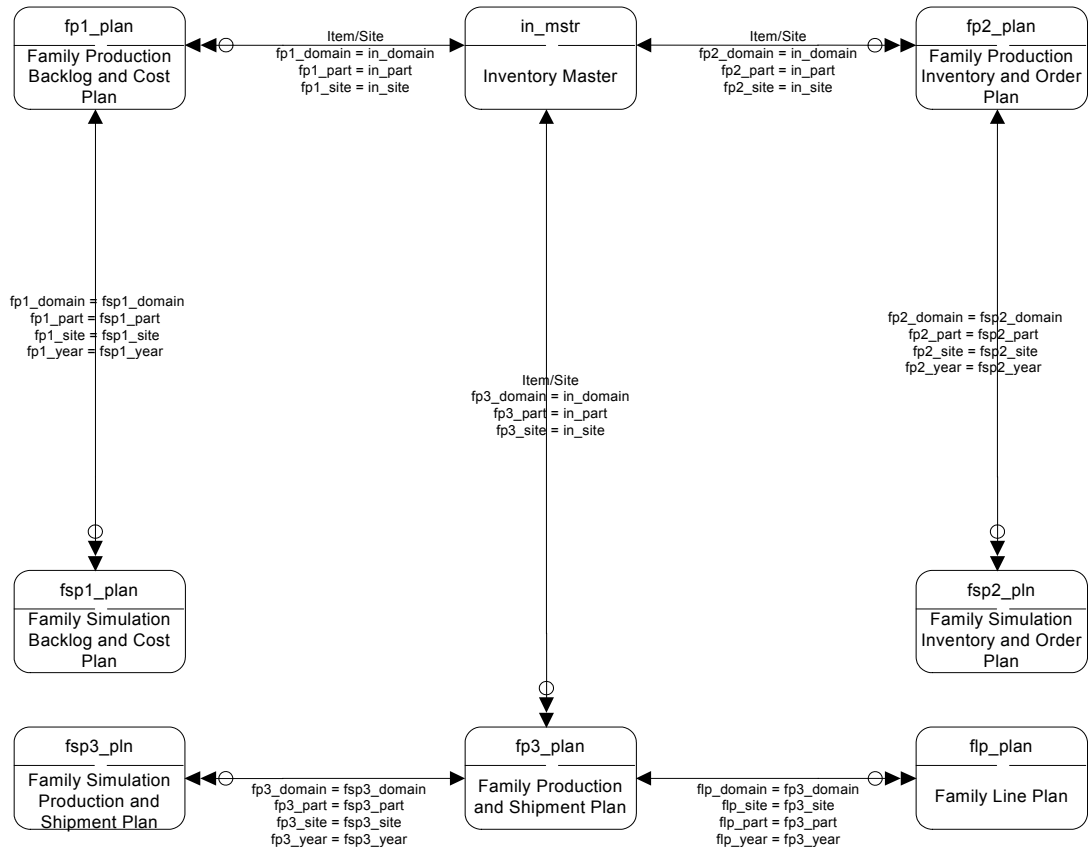
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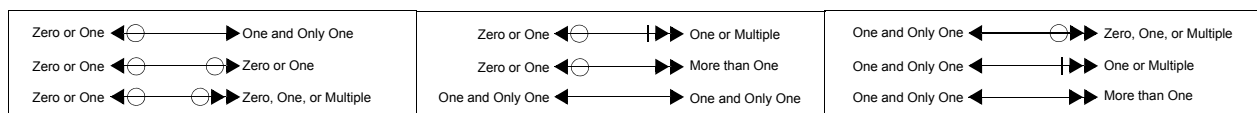
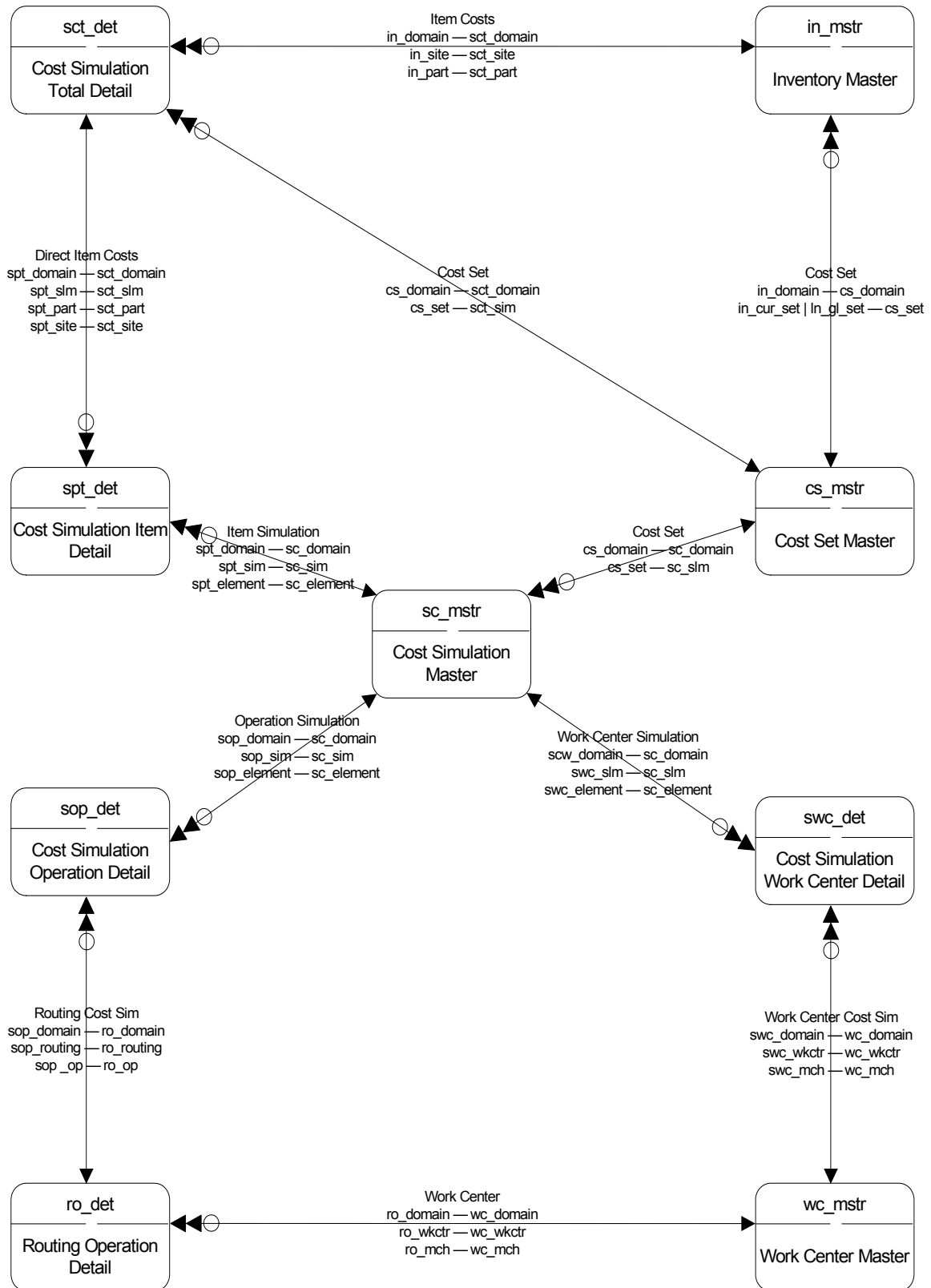
Operations Planning I



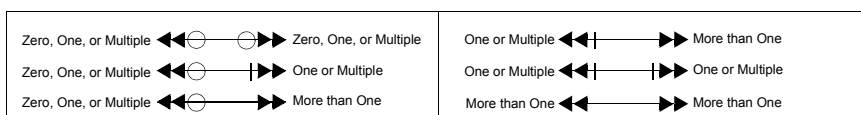
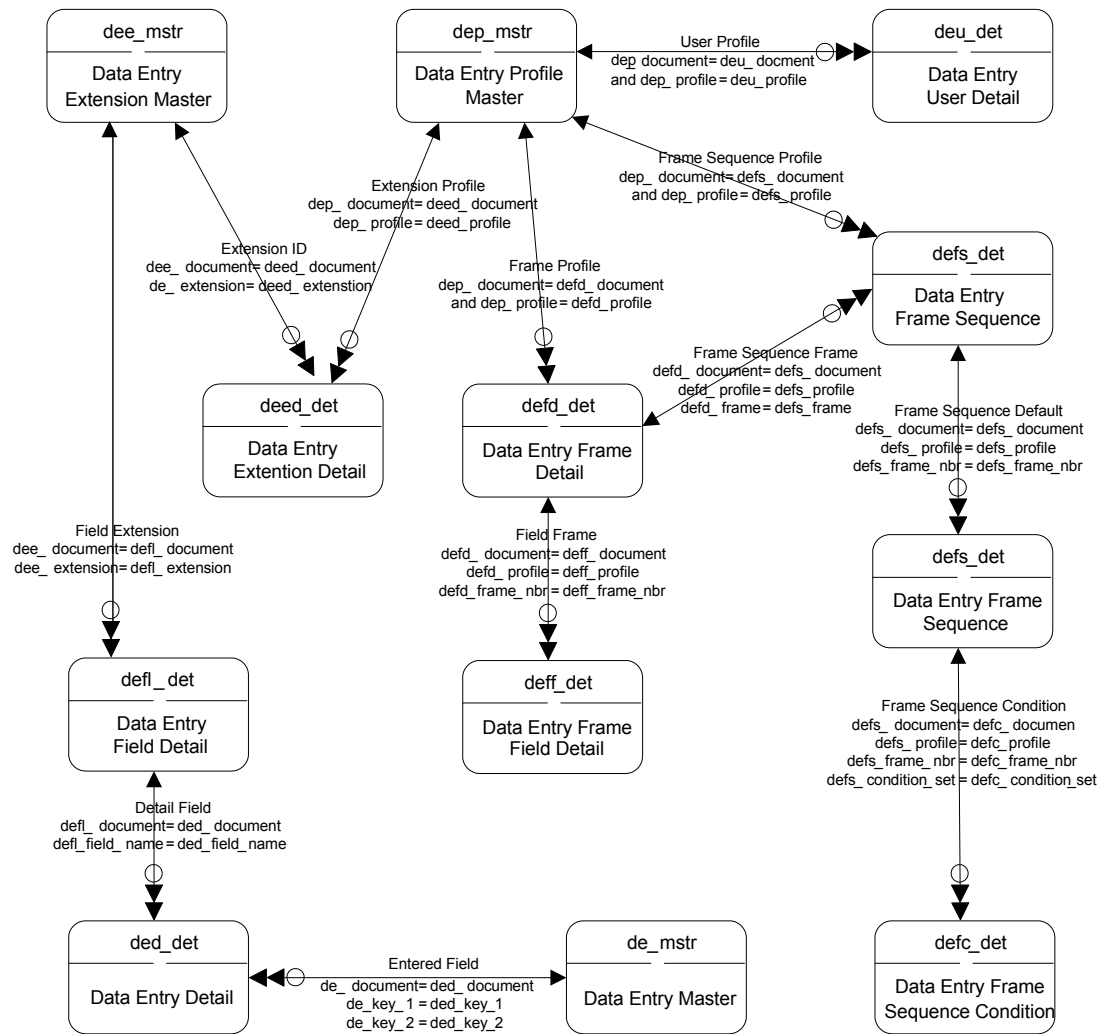
Operations Planning II



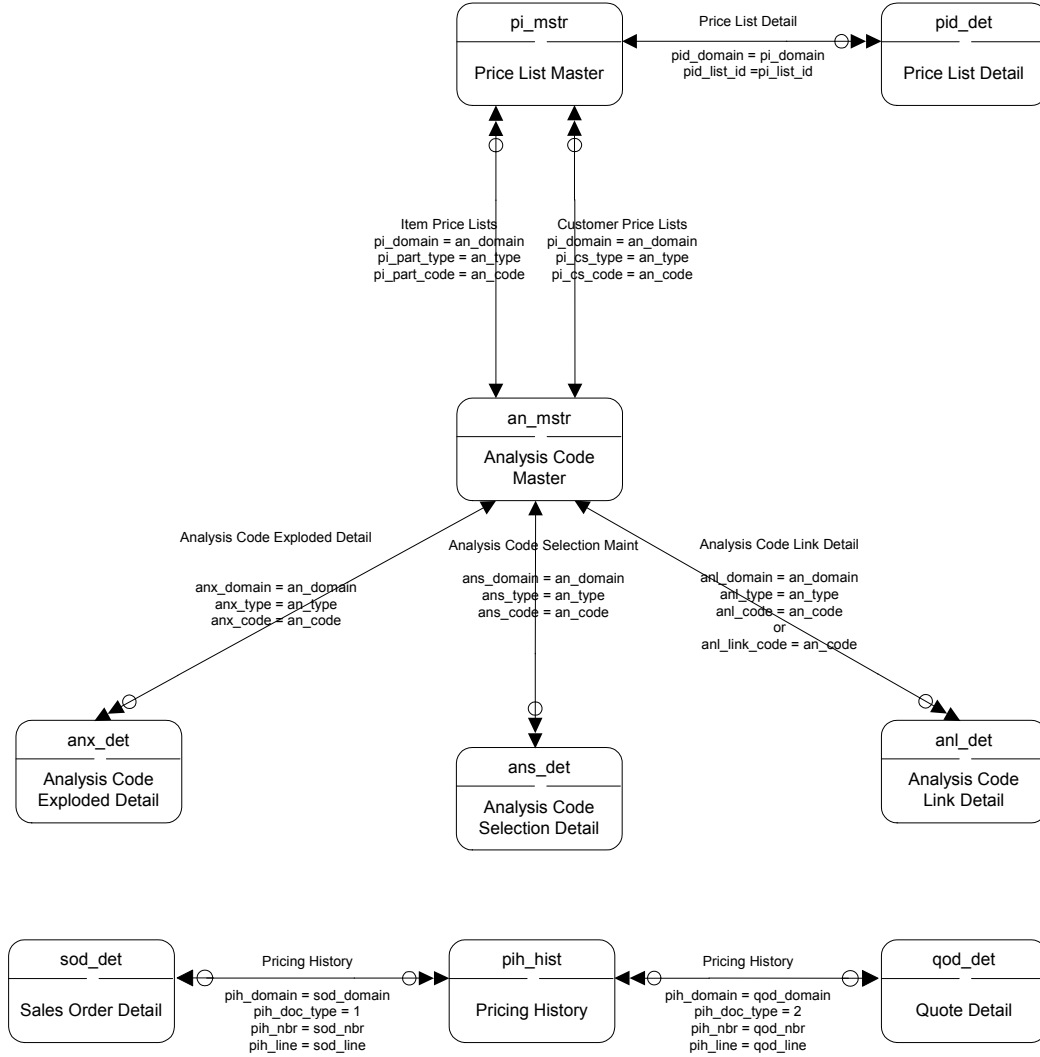
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



















Pending Calls

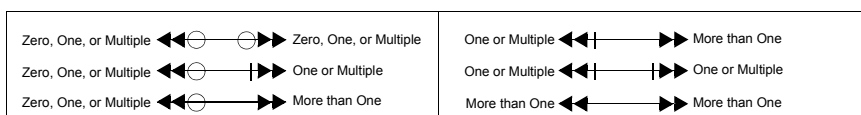
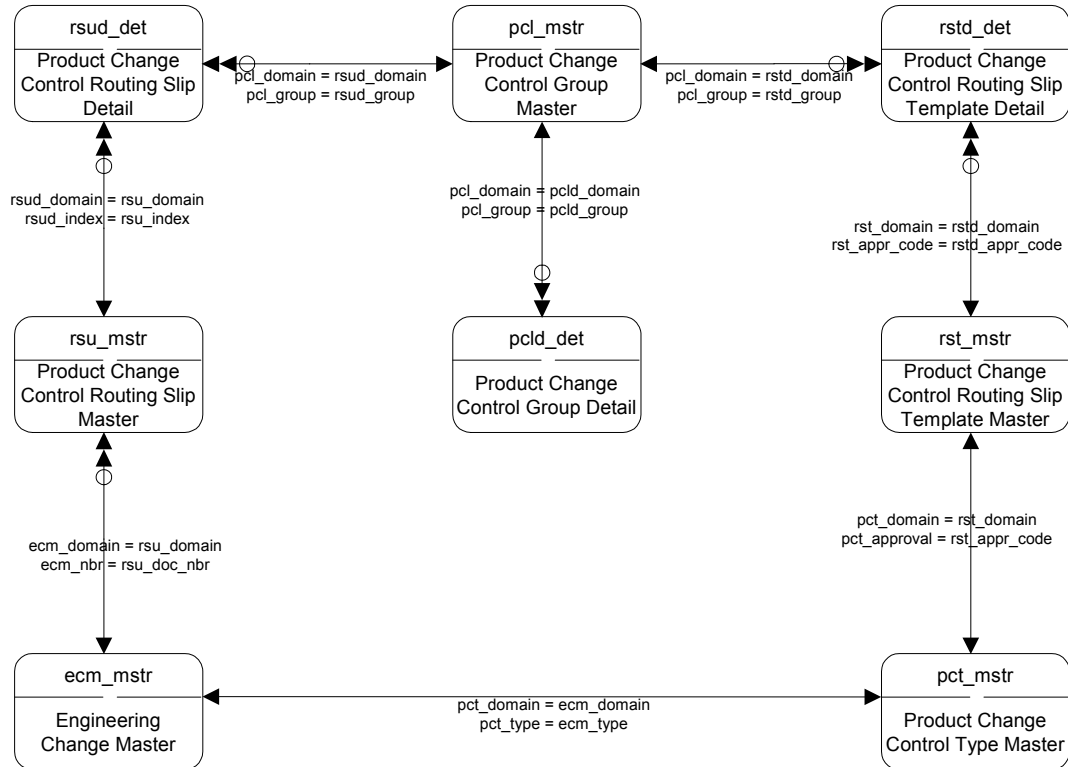


Pricing

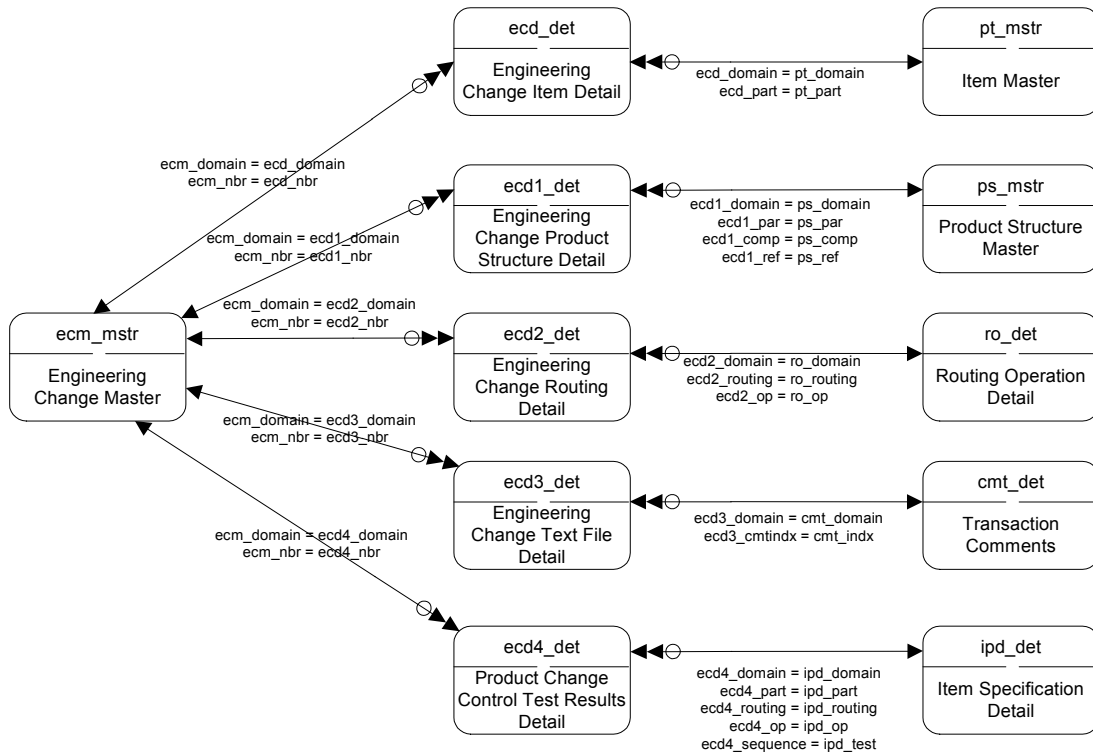



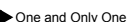

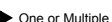

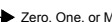

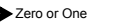

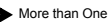

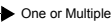

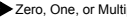

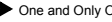

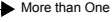
Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Product Change Control I

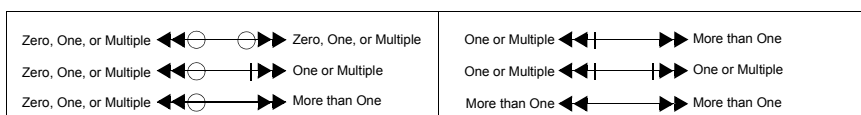
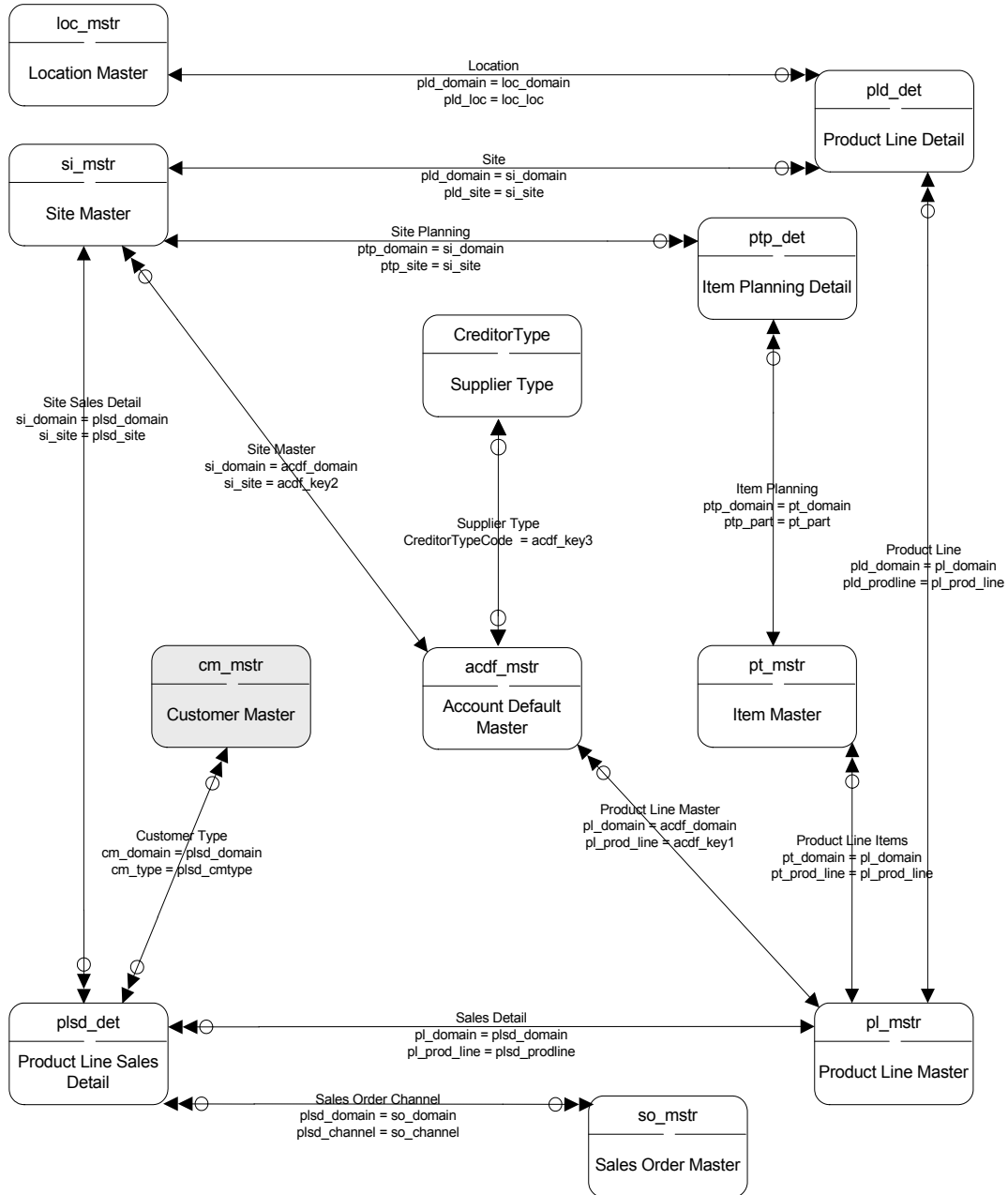


Product Change Control II

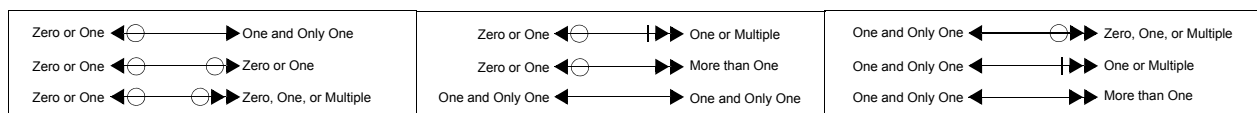
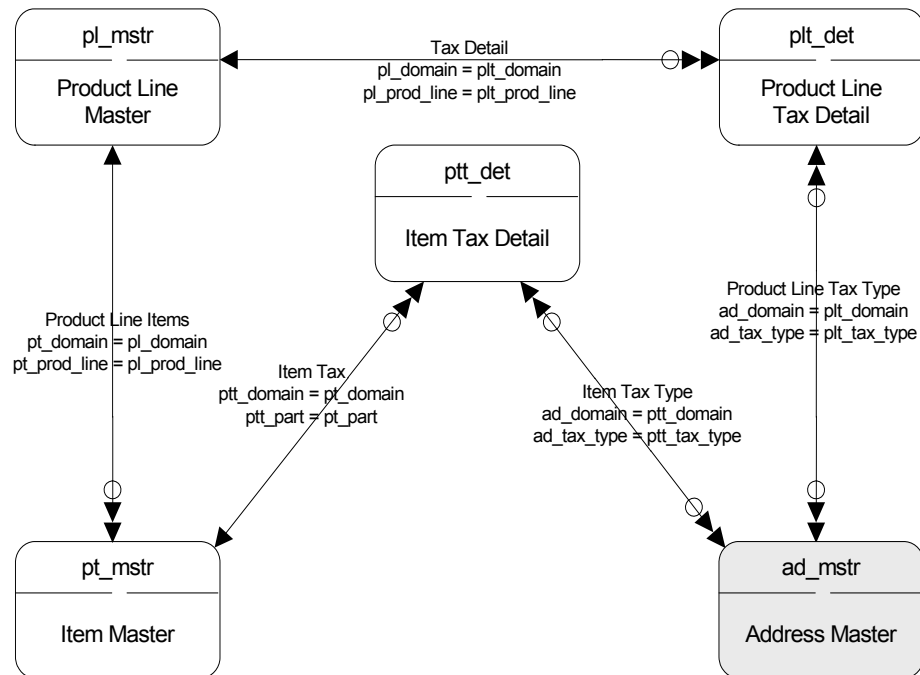


Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 

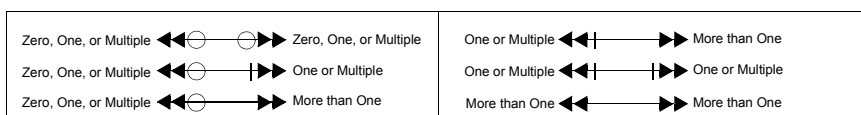
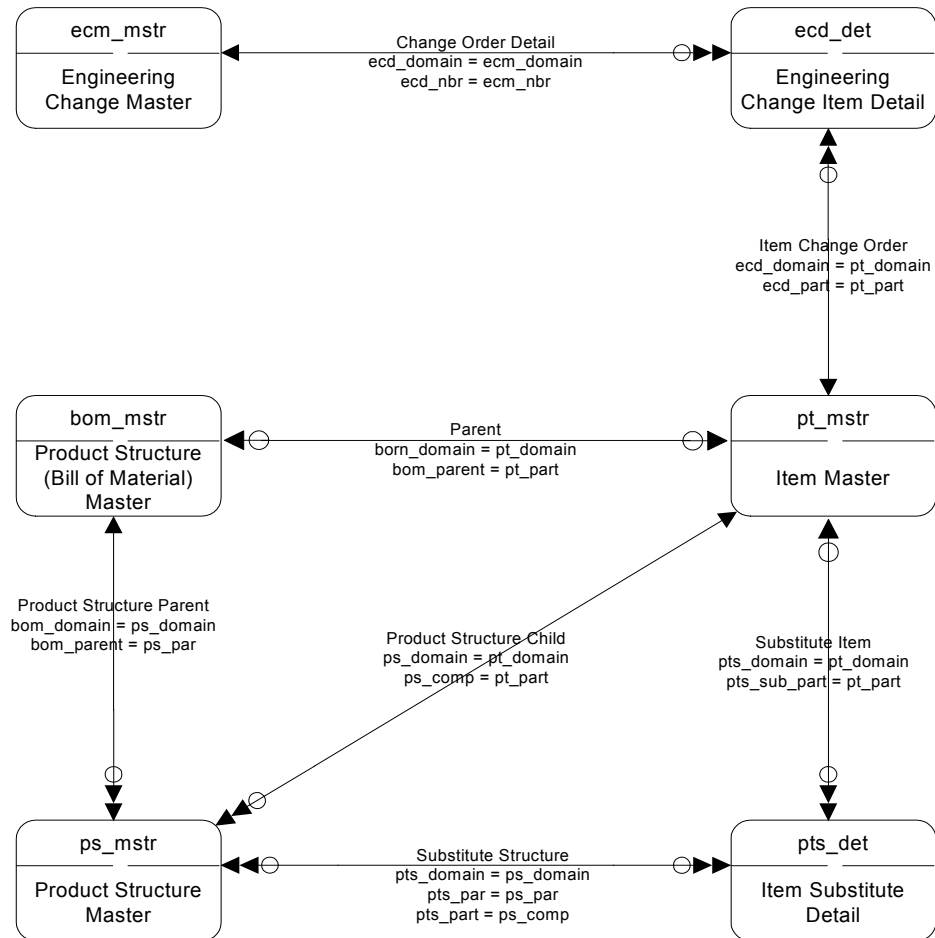
Product Line I



Product Line II

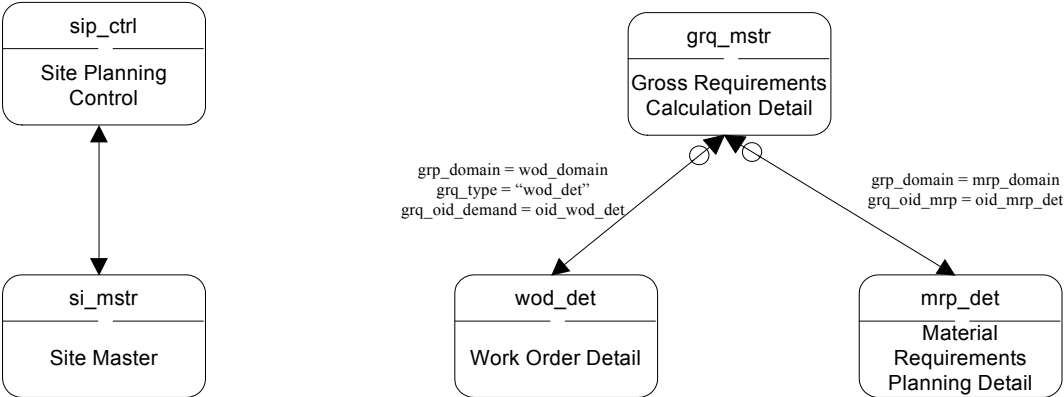











Product Structure



Production Orders I

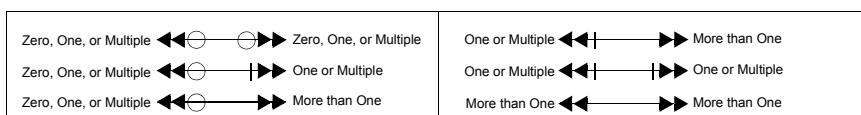
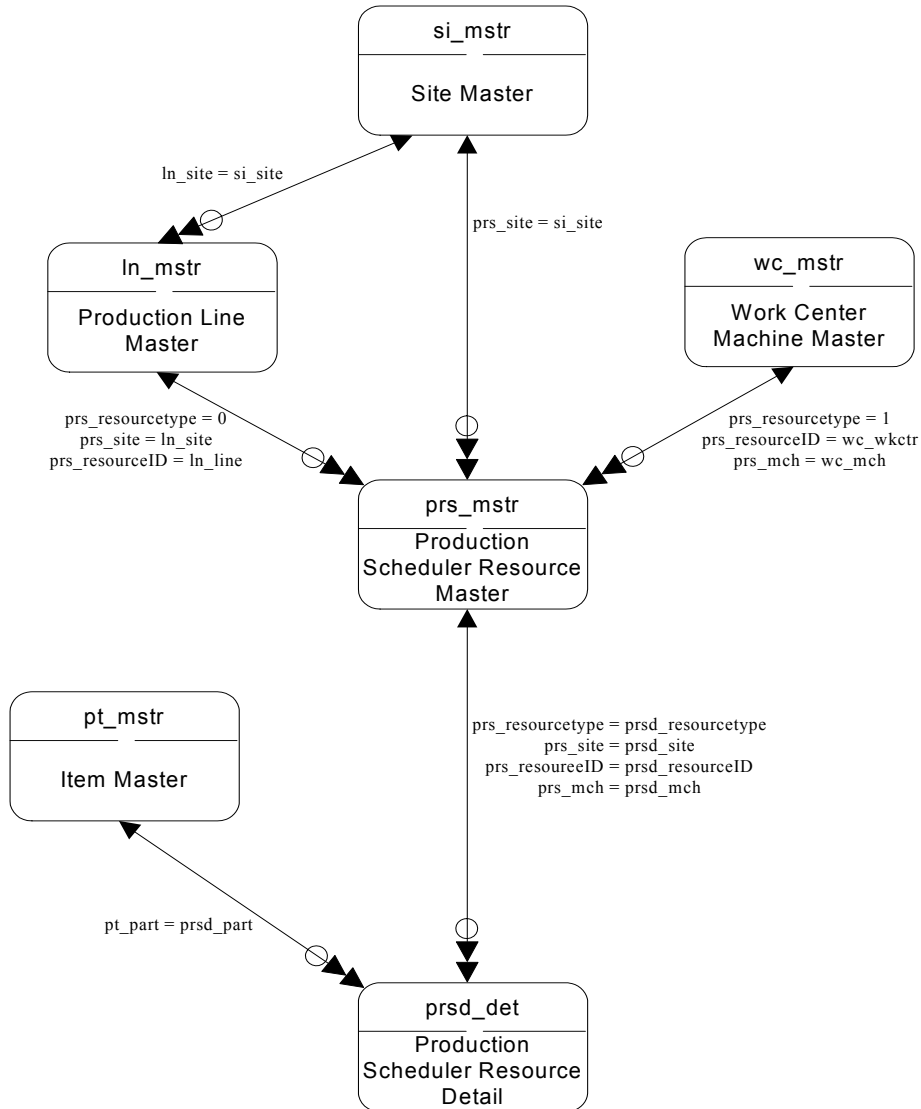
MRP GRC Rewrite



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

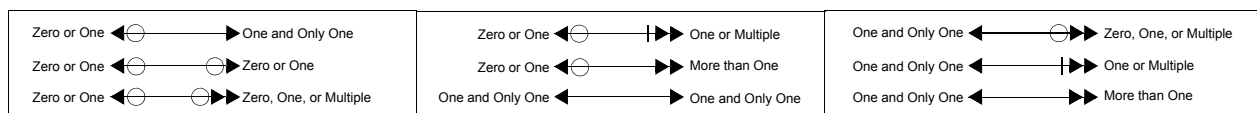
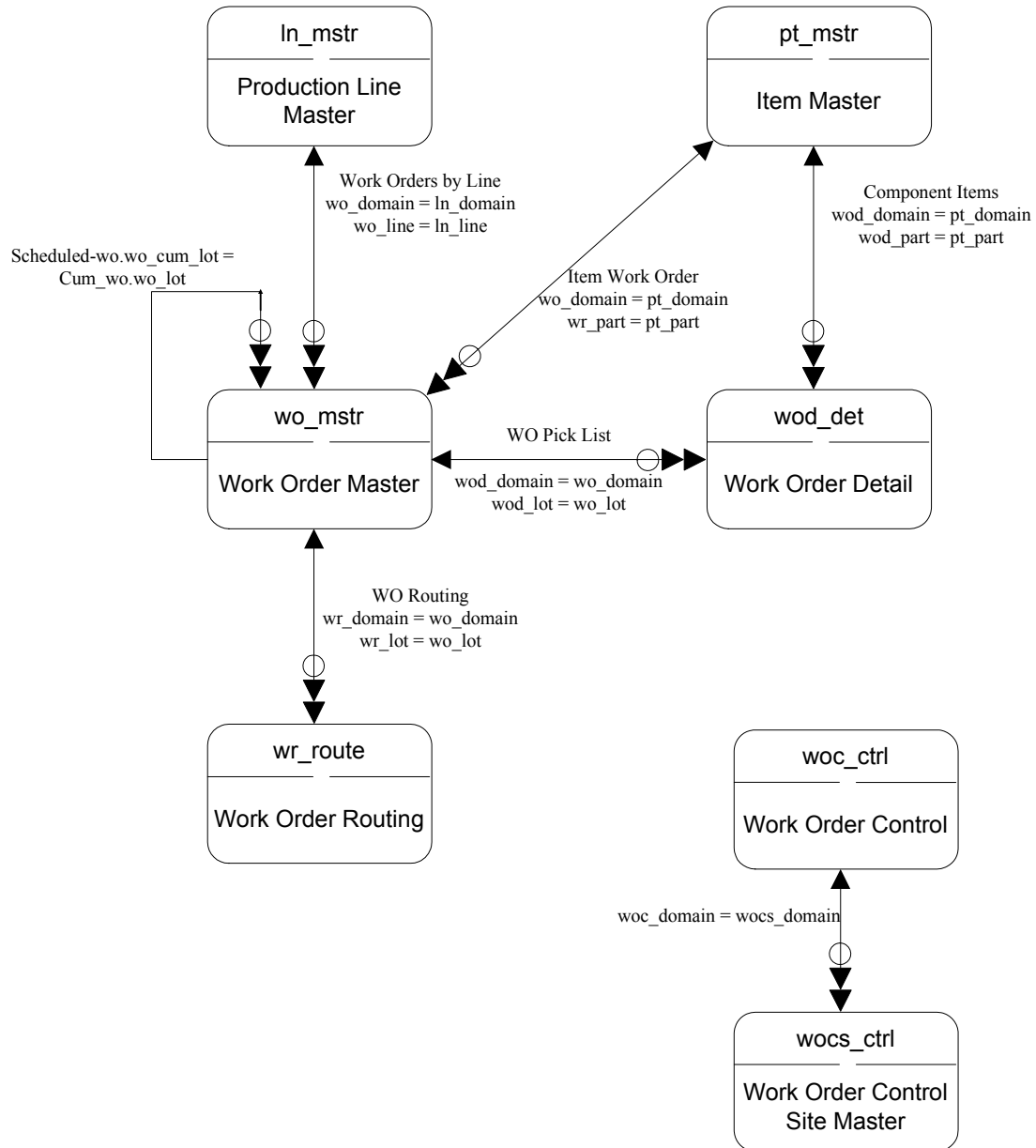
Production Orders II

Planning and Scheduling Workbenches (MSW/PSW)



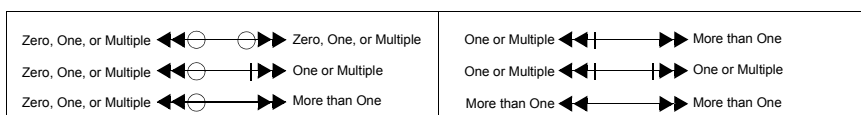
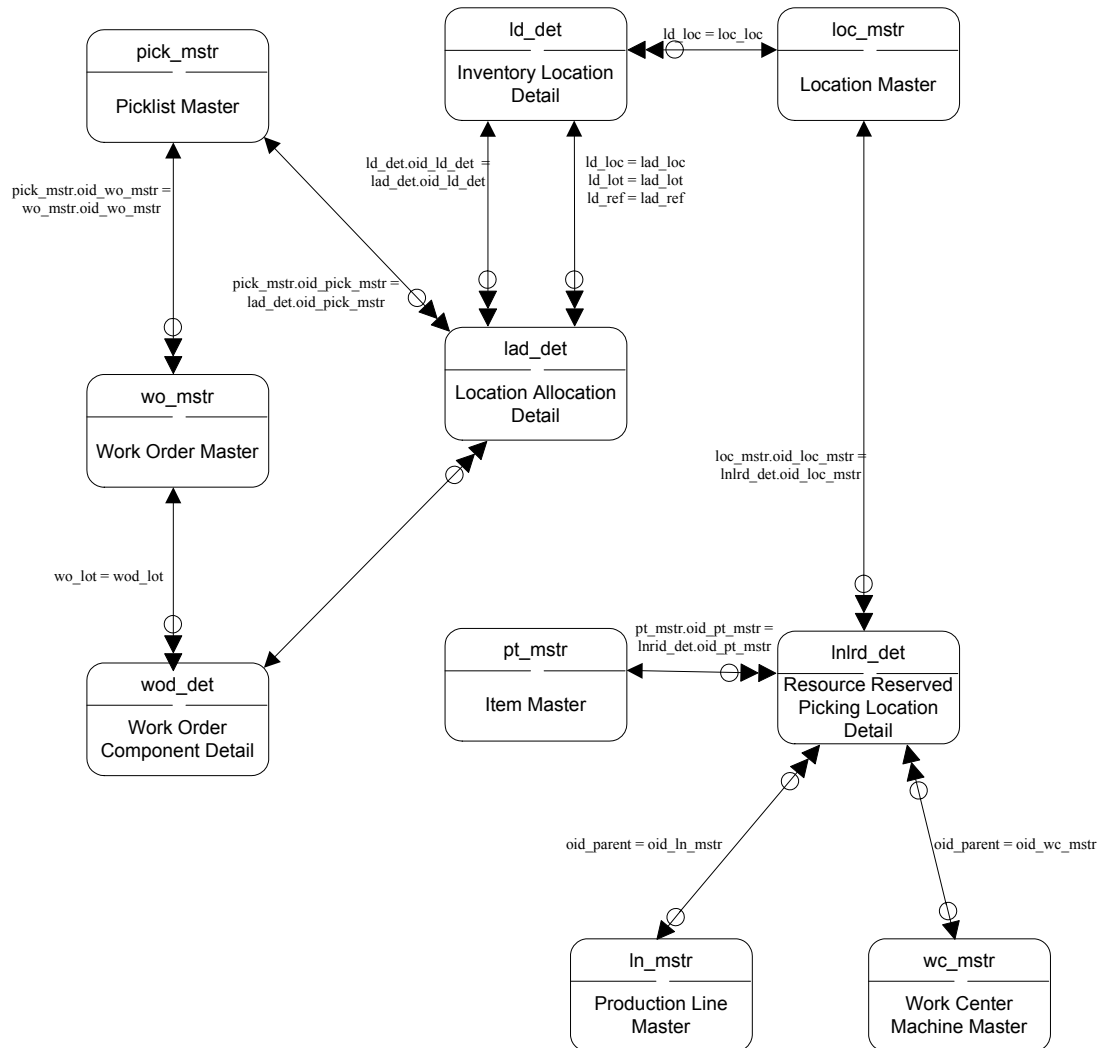
Production Orders III

Repetitive Scheduling - Work Order



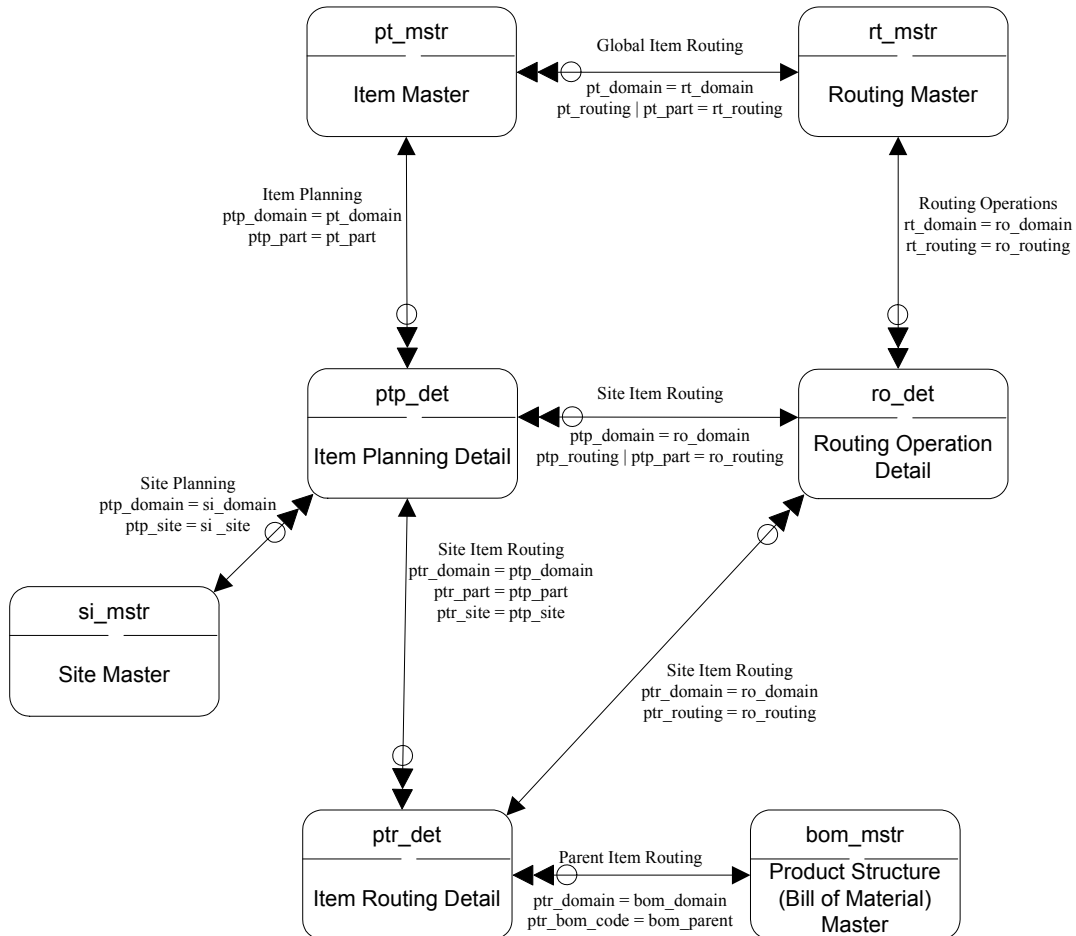
Production Orders IV

Repetitive Scheduling - Materials



Production Orders V

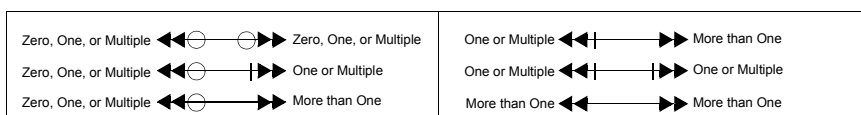
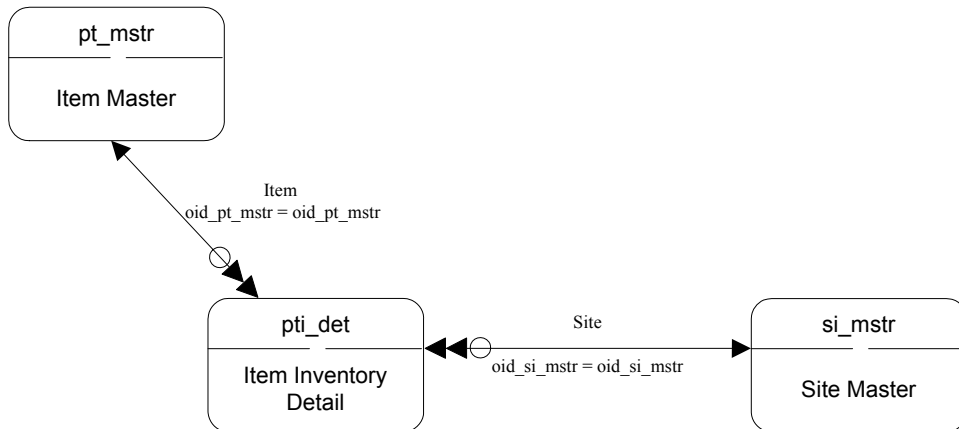
Repetitive Scheduling - Routing



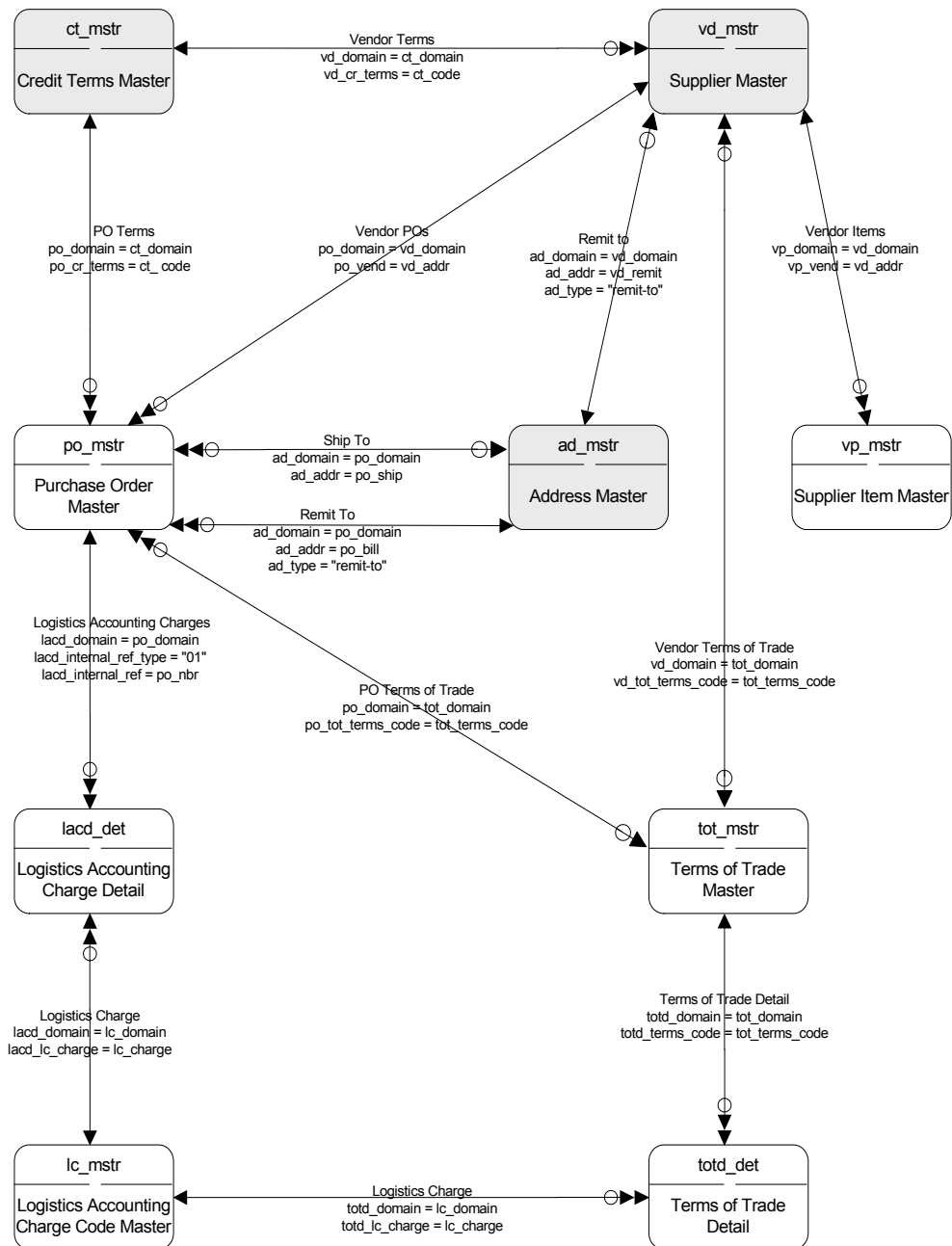
Zero or One $\leftarrow \bigcirc \rightarrow$ One and Only One	Zero or One $\leftarrow \bigcirc \dashrightarrow$ One or Multiple	One and Only One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple
Zero or One $\leftarrow \bigcirc \rightarrow$ Zero or One	Zero or One $\leftarrow \bigcirc \dashrightarrow$ More than One	One and Only One $\leftarrow \bigcirc \dashrightarrow$ One or Multiple
Zero or One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple	One and Only One $\leftarrow \bigcirc \dashrightarrow$ One and Only One	One and Only One $\leftarrow \bigcirc \dashrightarrow$ More than One

Production Orders VI

Repetitive Scheduling - Item Inventory



Purchasing I

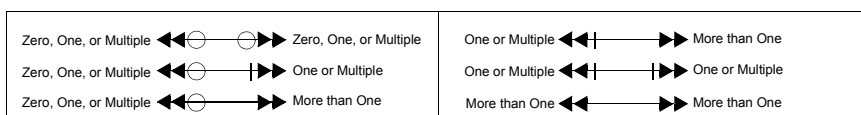
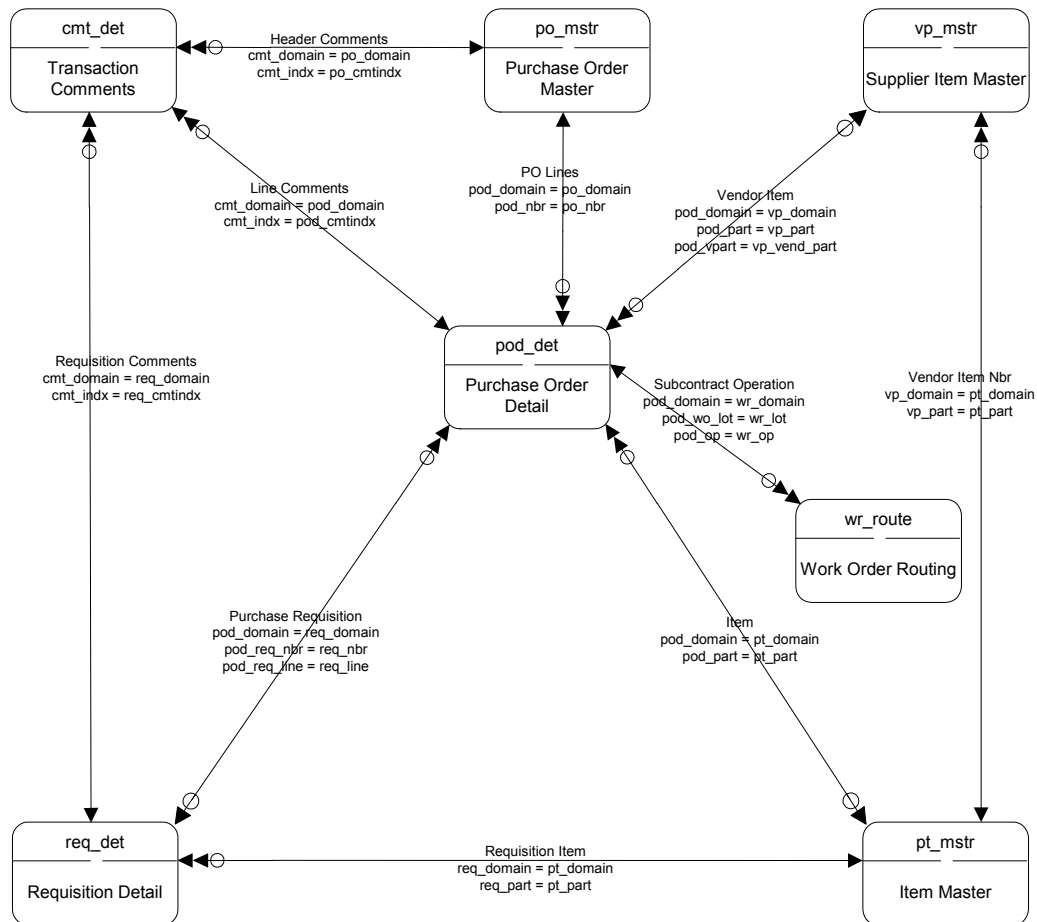


Zero or One One and Only One
 Zero or One Zero or One
 Zero or One Zero, One, or Multiple

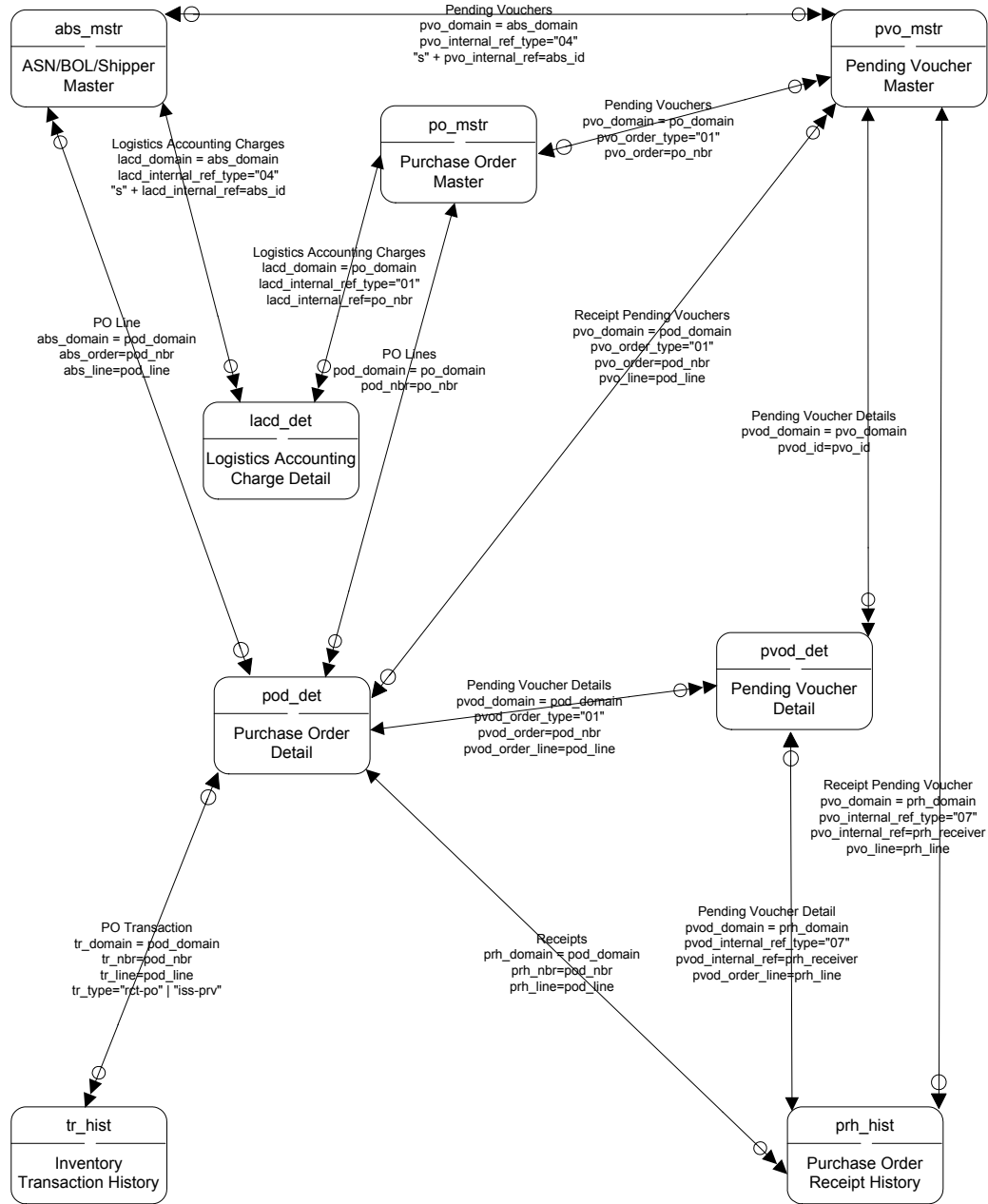
Zero or One One or Multiple
 Zero or One More than One
 One and Only One One and Only One



















One and Only One Zero, One, or Multiple
 One and Only One One or Multiple
 One and Only One More than One

Purchasing II

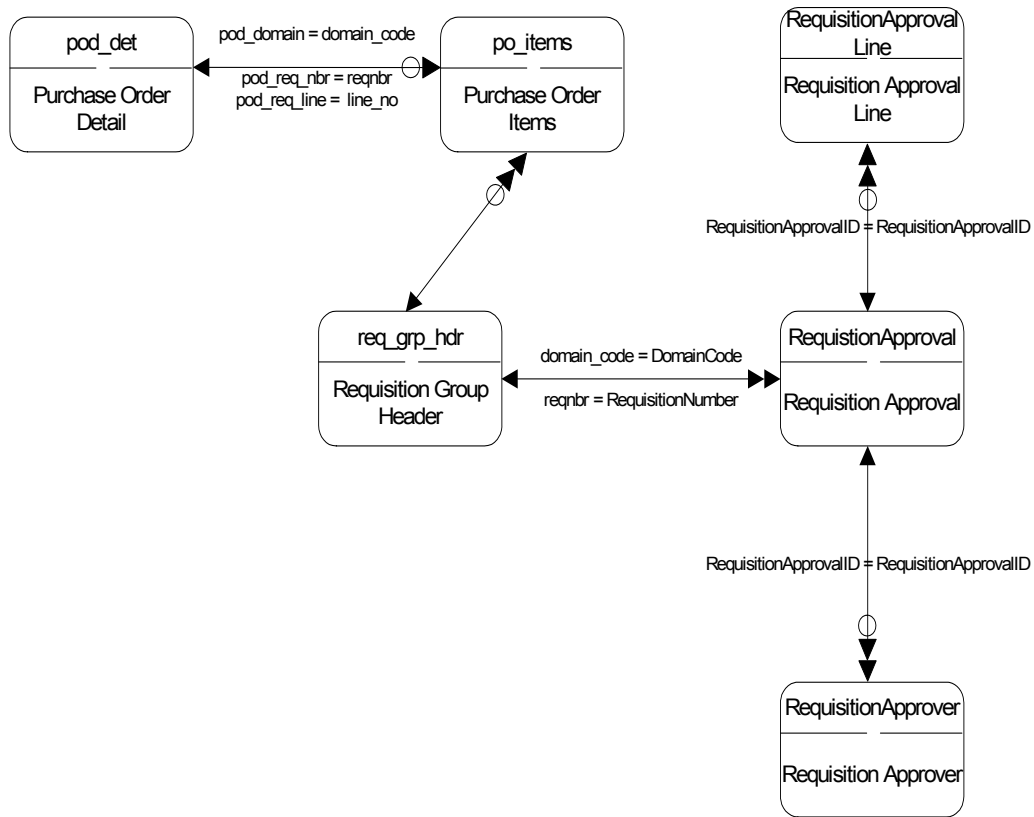


Purchasing III



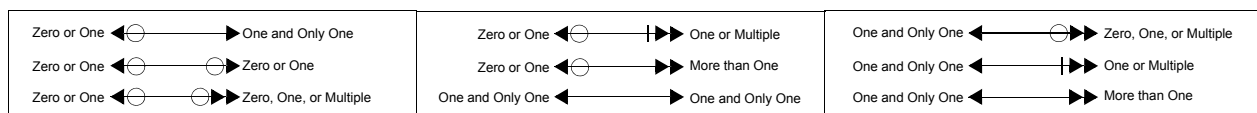
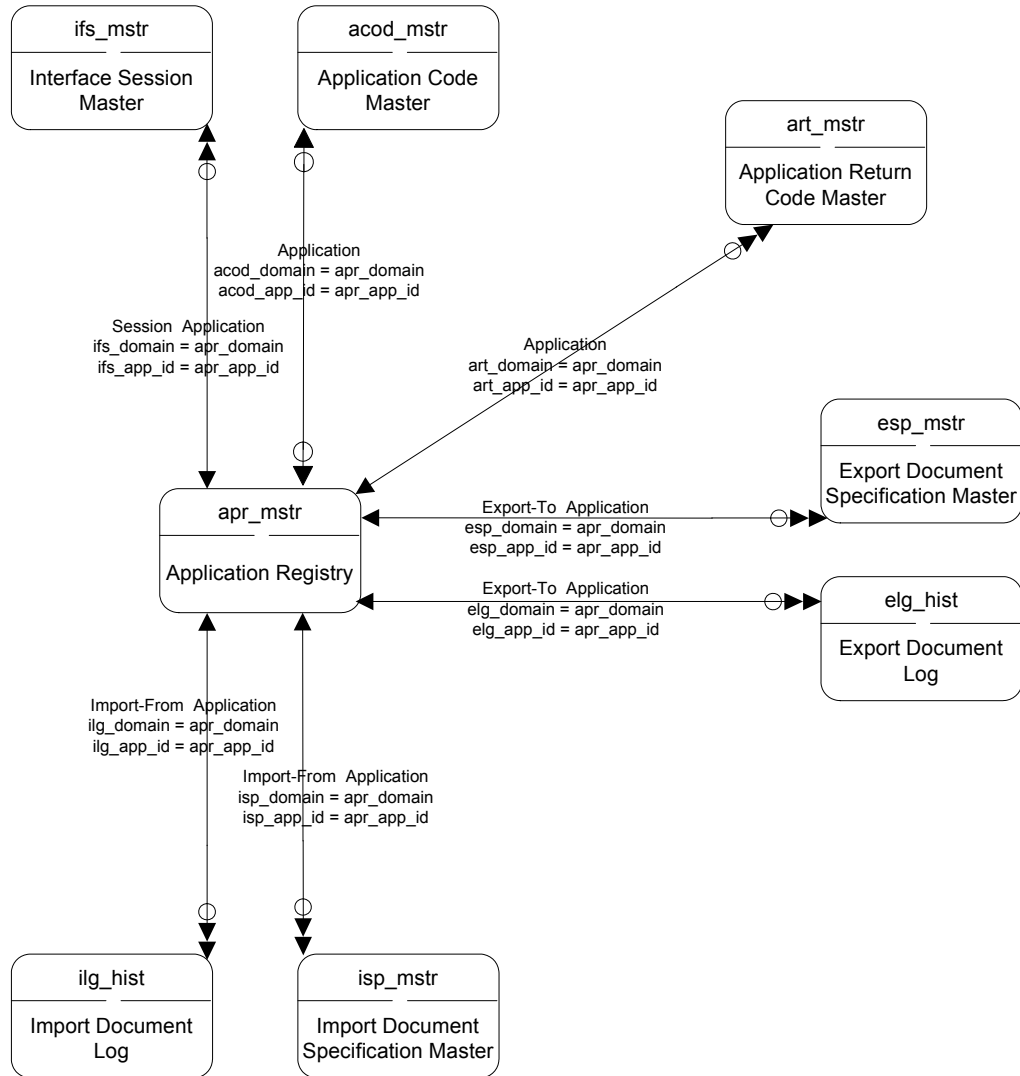
Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 

Purchasing Requisition

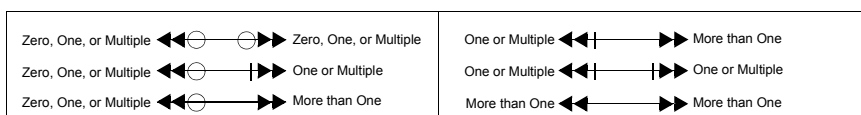
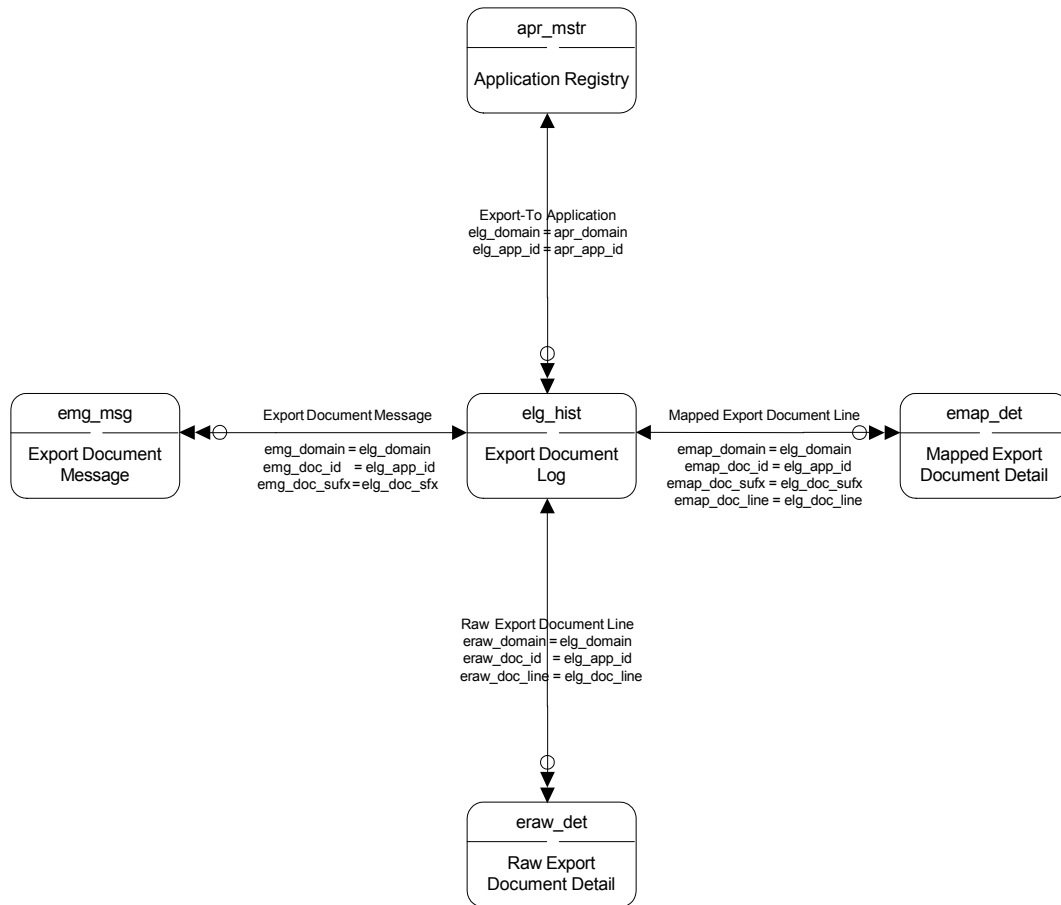


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

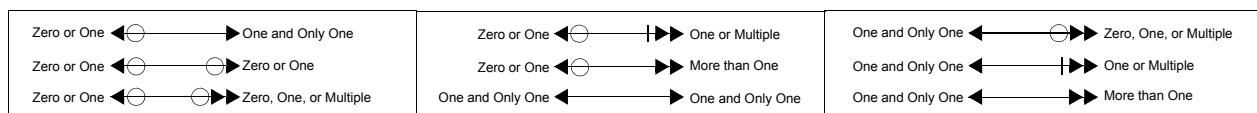
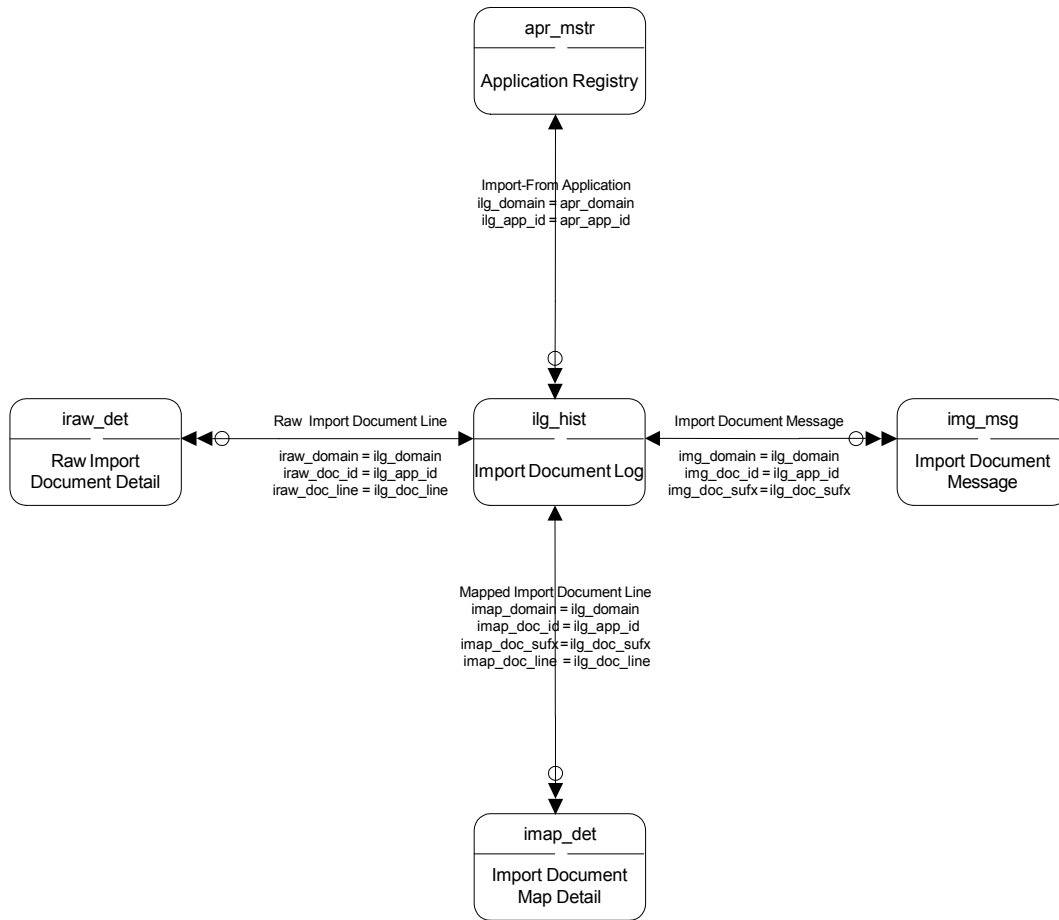
Q/LinQ I



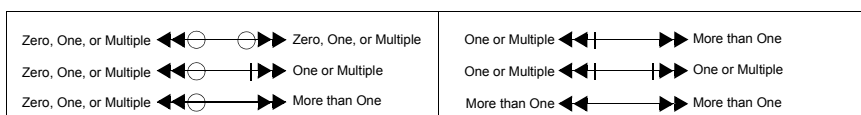
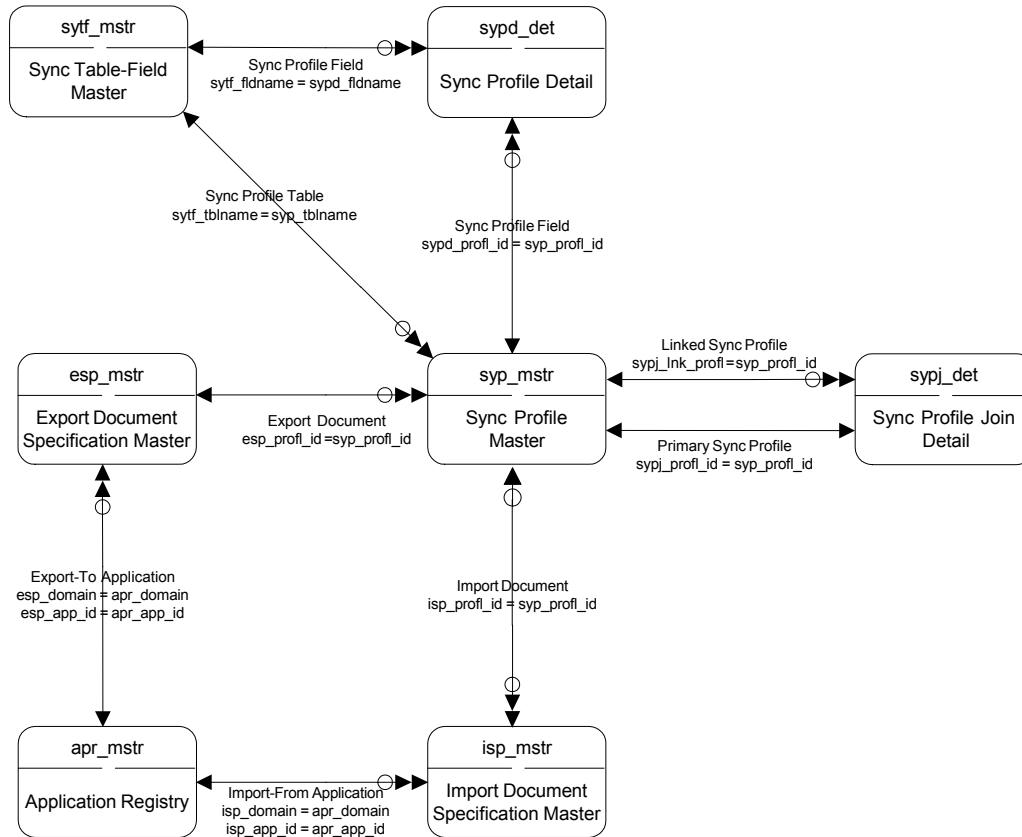
Q/LinQ II



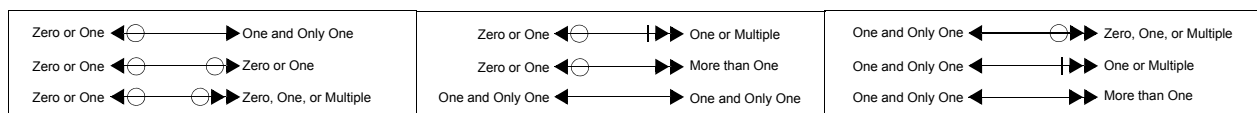
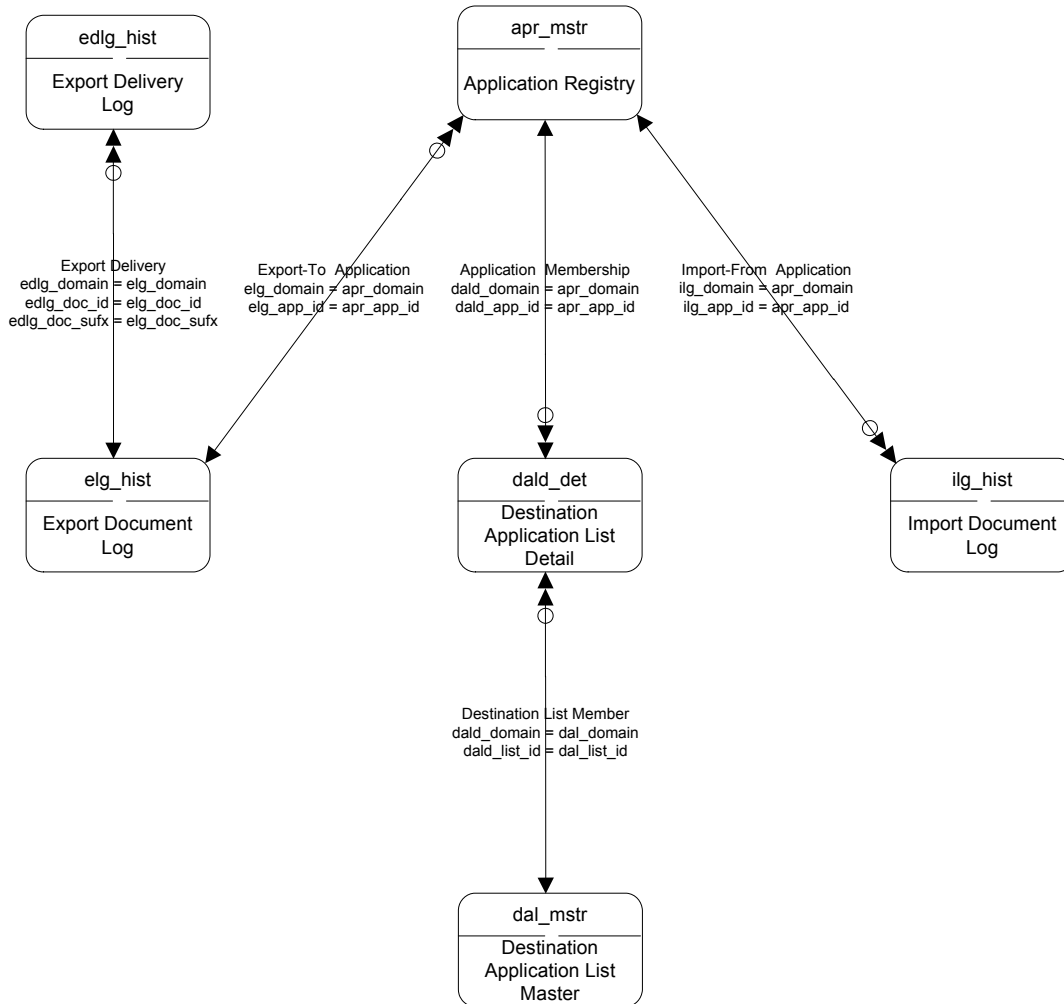
Q/LinQ III



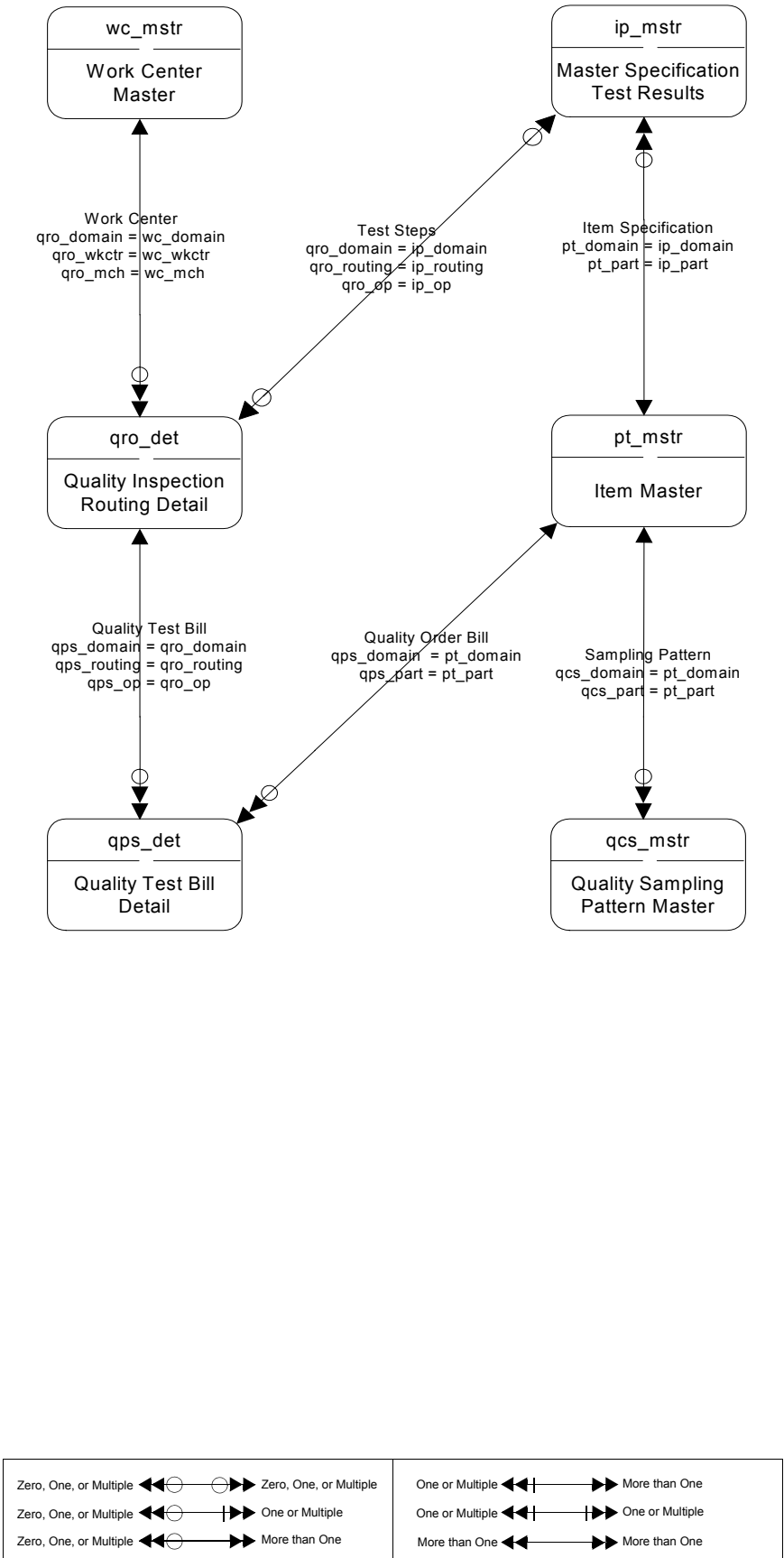
Q/LinQ IV



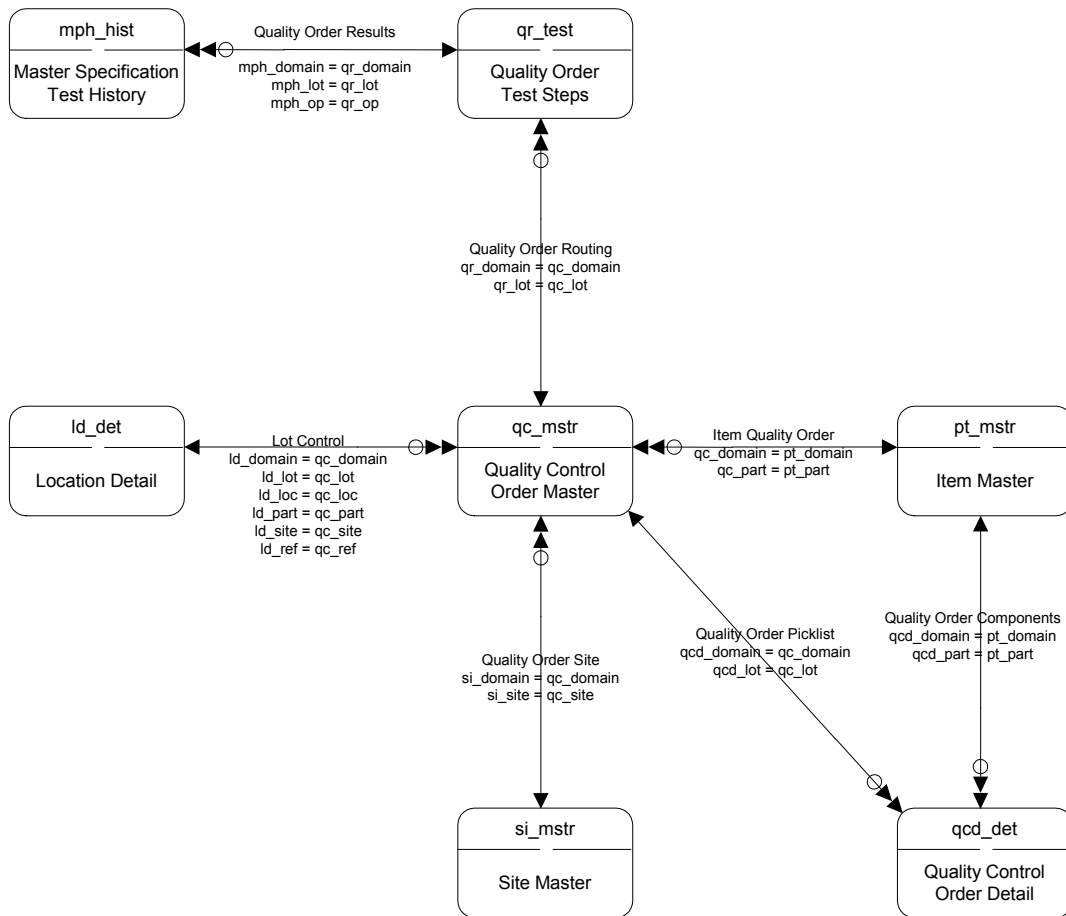
Q/LinQ V



Quality Management



Quality Orders

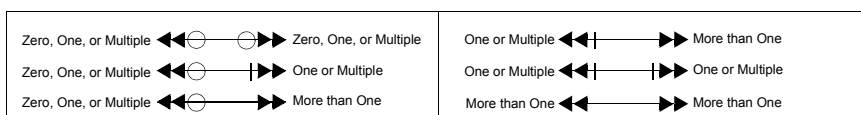
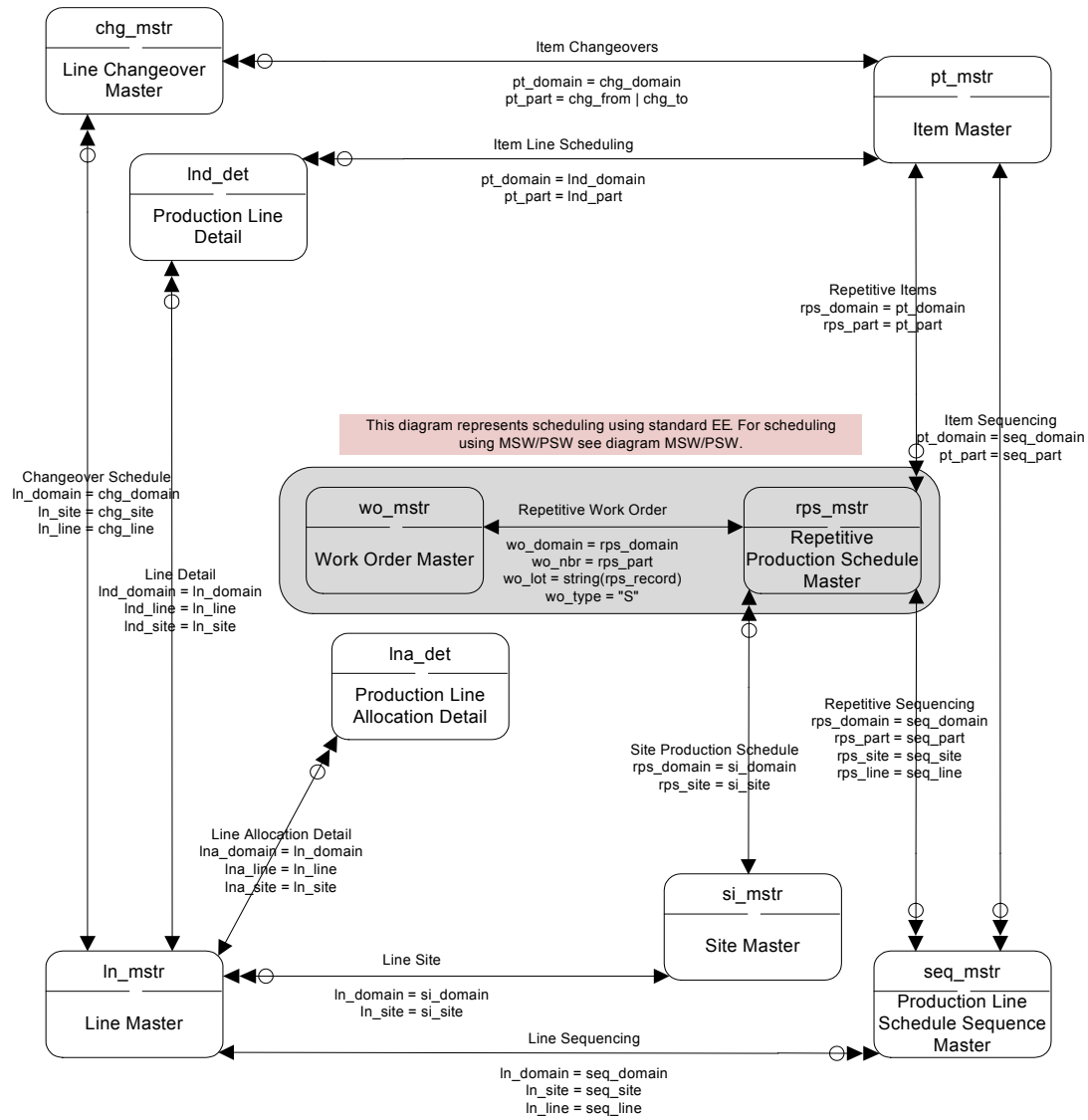


Zero or One One and Only One
 Zero or One Zero or One
 Zero or One Zero, One, or Multiple

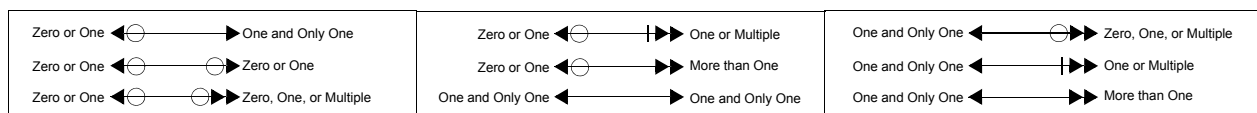
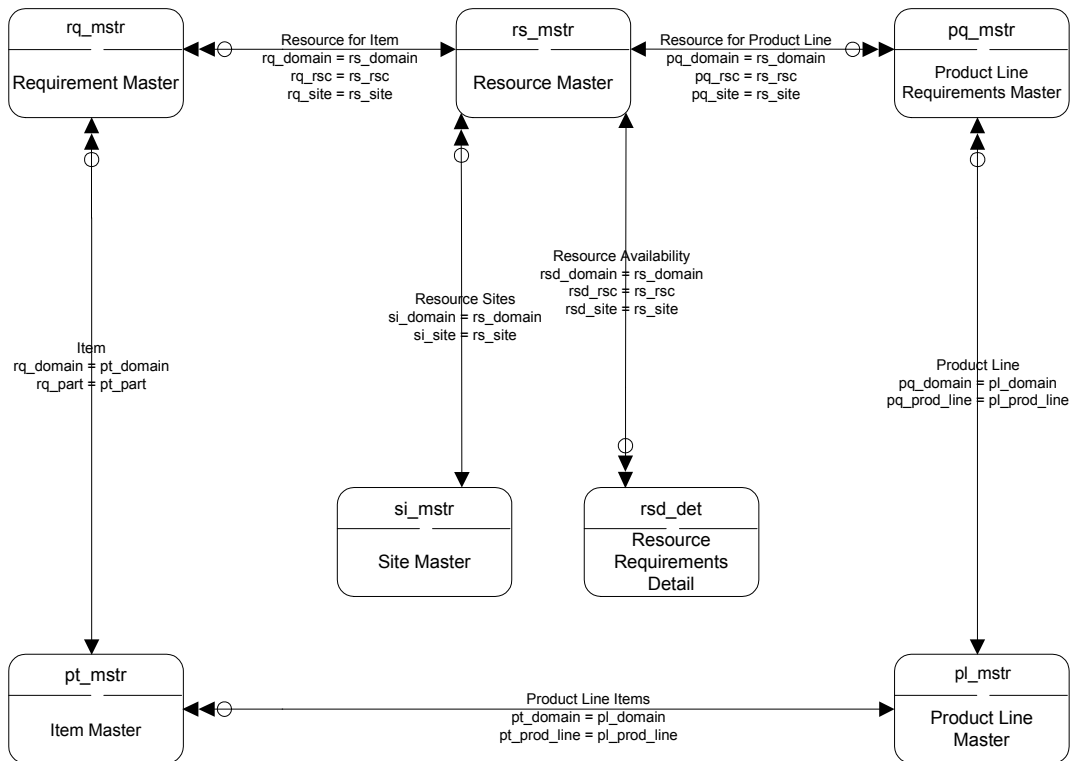
Zero or One One or Multiple
 Zero or One More than One
 One and Only One One and Only One

One and Only One Zero, One, or Multiple
 One and Only One One or Multiple
 One and Only One More than One

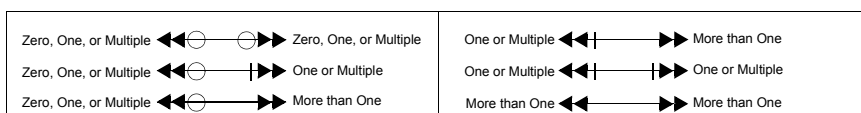
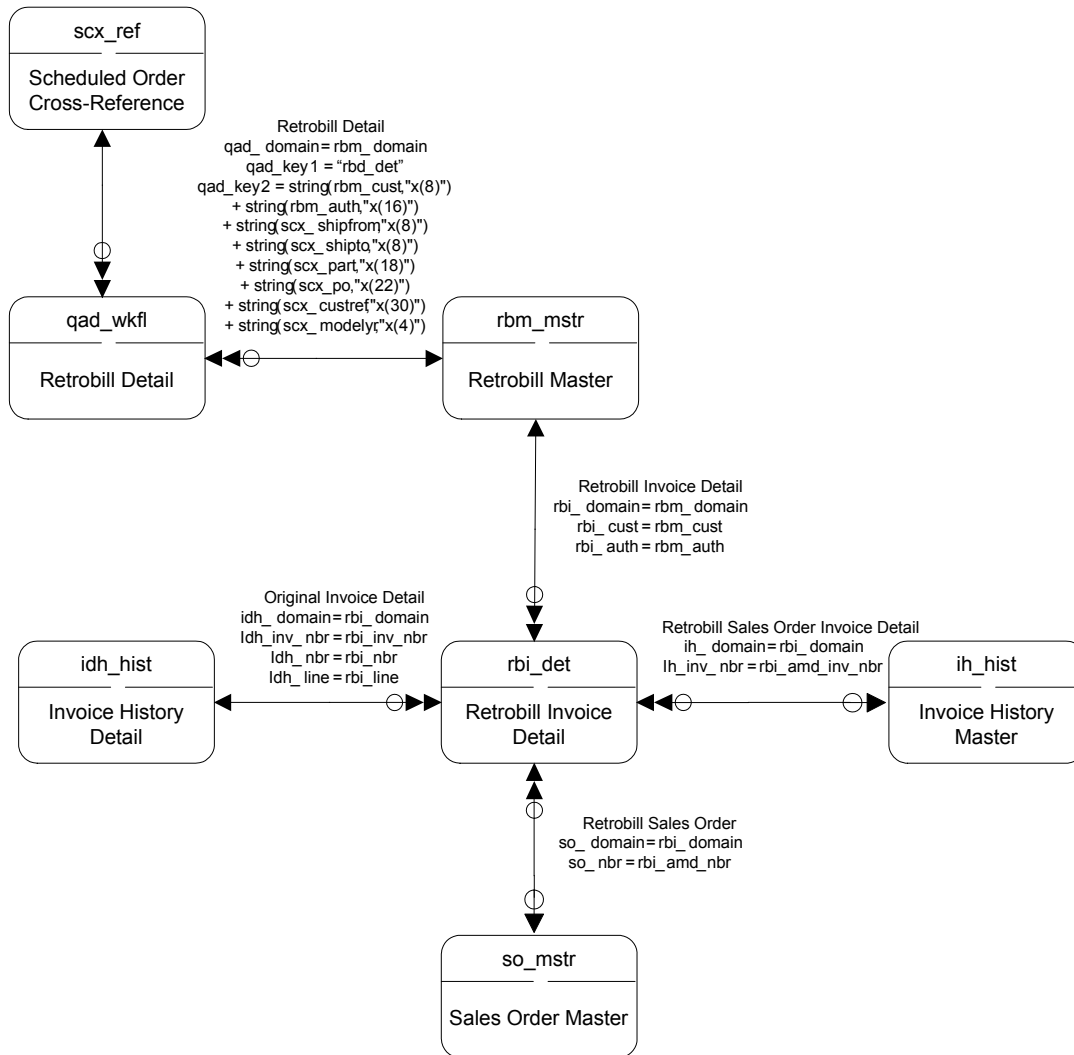
Repetitive Schedule



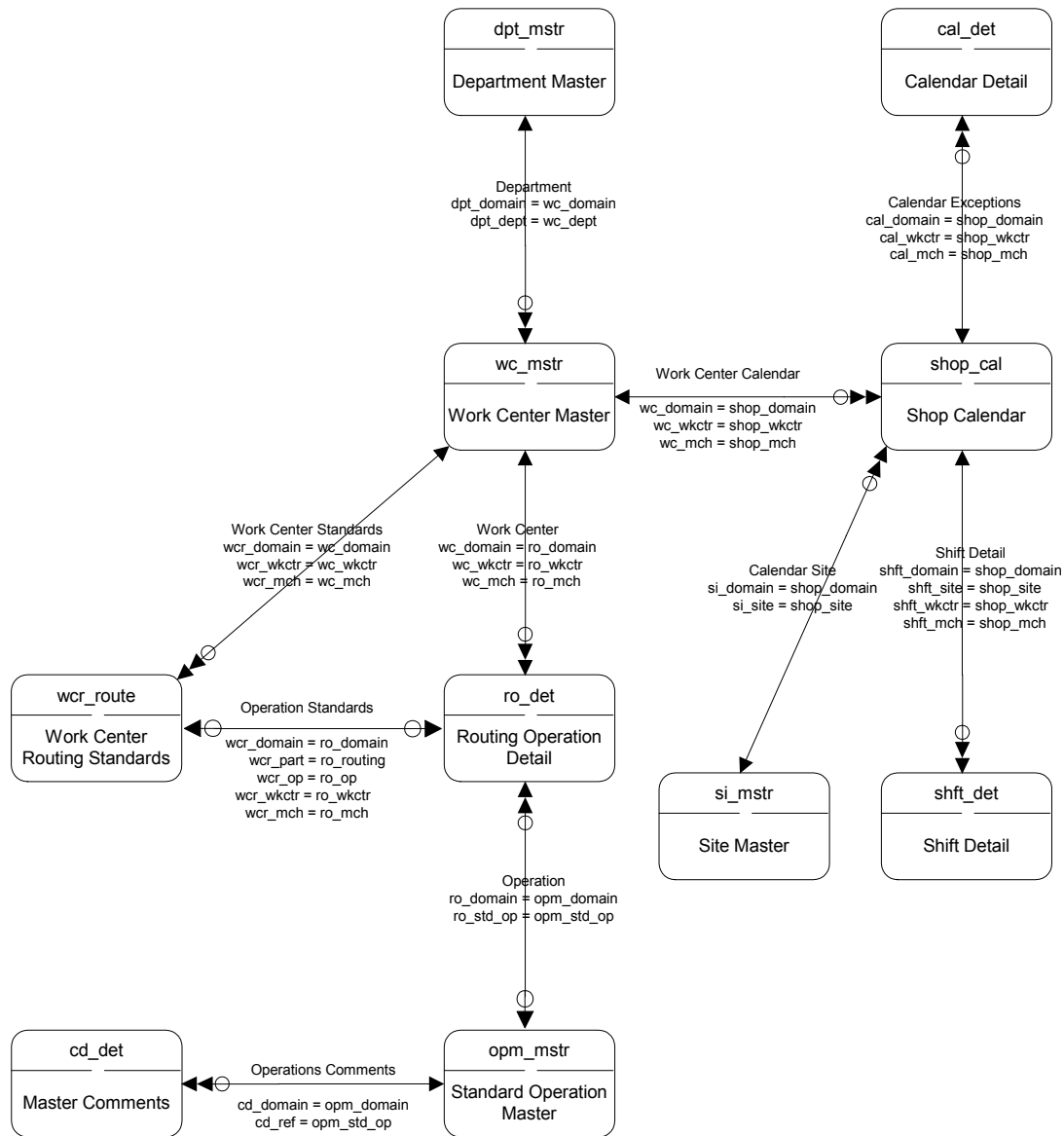
Resource Plan



Retrobilling



Routing Standards

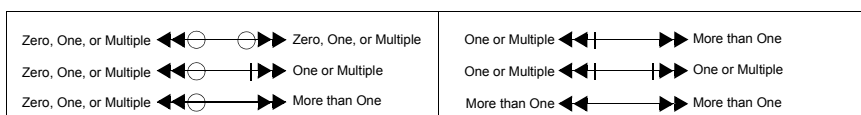
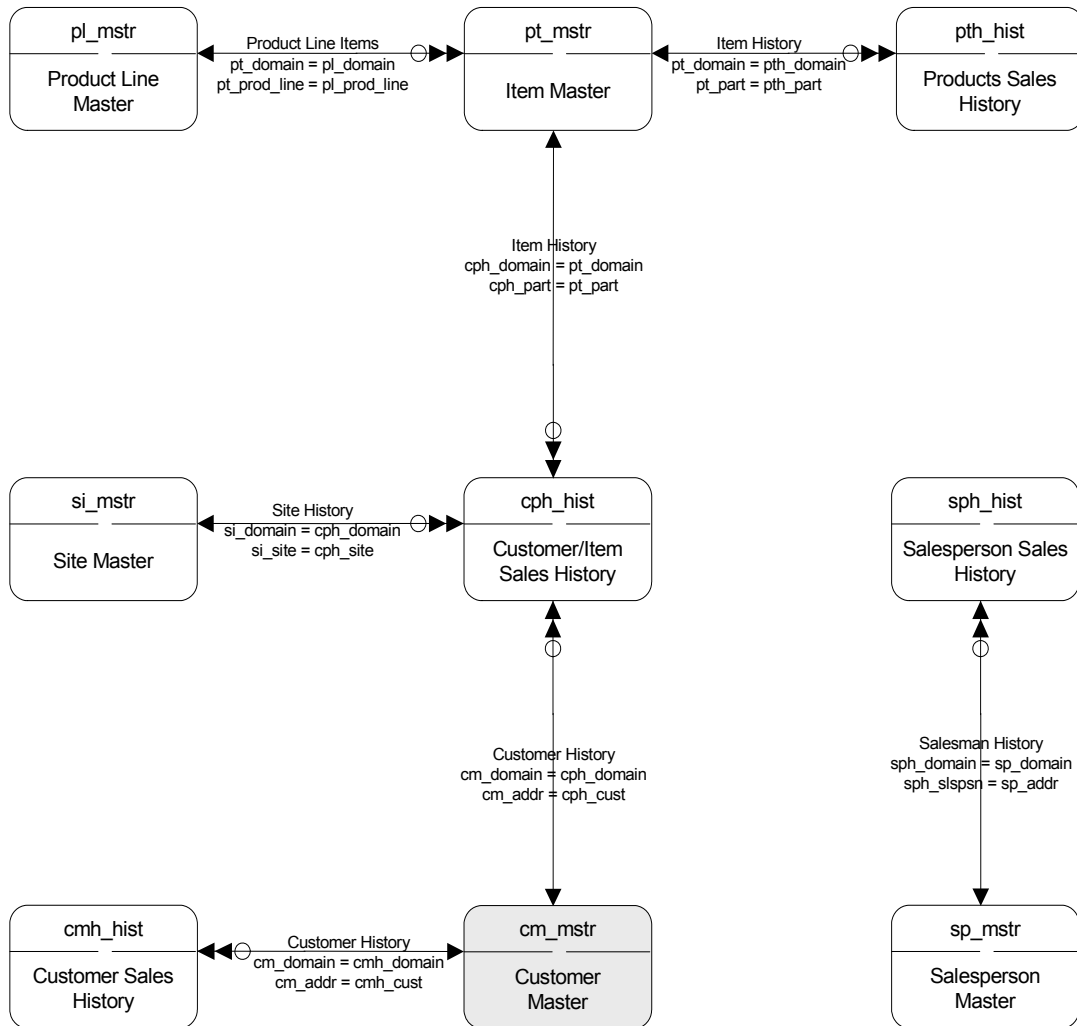


Zero or One $\leftarrow \bigcirc \rightarrow$ One and Only One
 Zero or One $\leftarrow \bigcirc \rightarrow$ Zero or One
 Zero or One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple

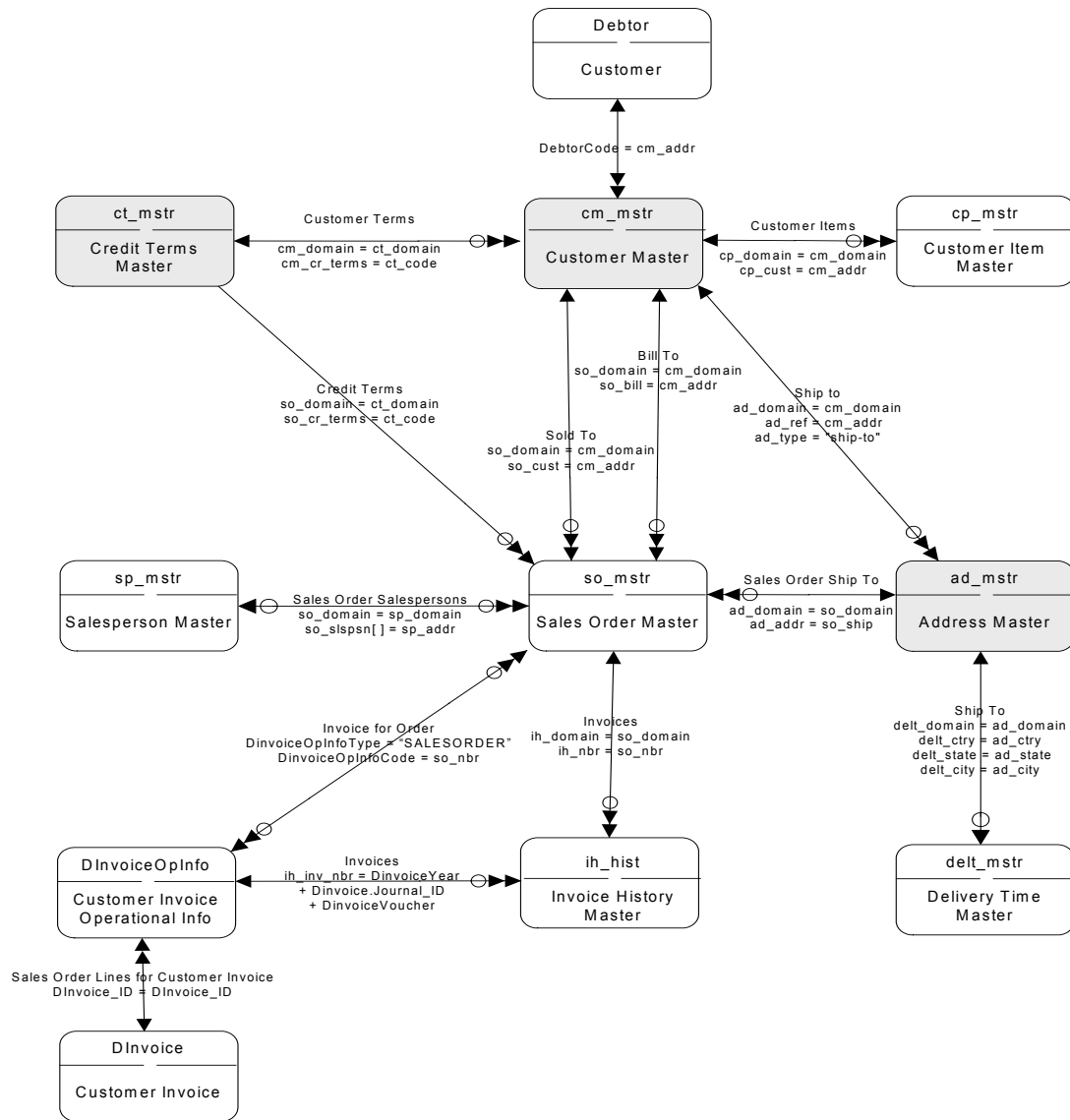
Zero or One $\leftarrow \bigcirc \vdash \rightarrow$ One or Multiple
 Zero or One $\leftarrow \bigcirc \rightarrow$ More than One
 One and Only One $\leftarrow \bigcirc \rightarrow$ One and Only One

One and Only One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple
 One and Only One $\leftarrow \bigcirc \vdash \rightarrow$ One or Multiple
 One and Only One $\leftarrow \bigcirc \rightarrow$ More than One

Sales Analysis



Sales Orders I

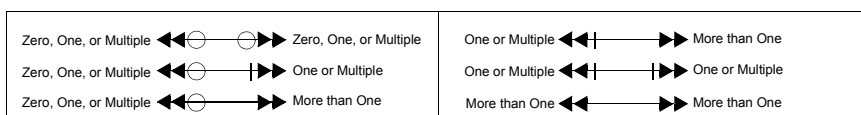
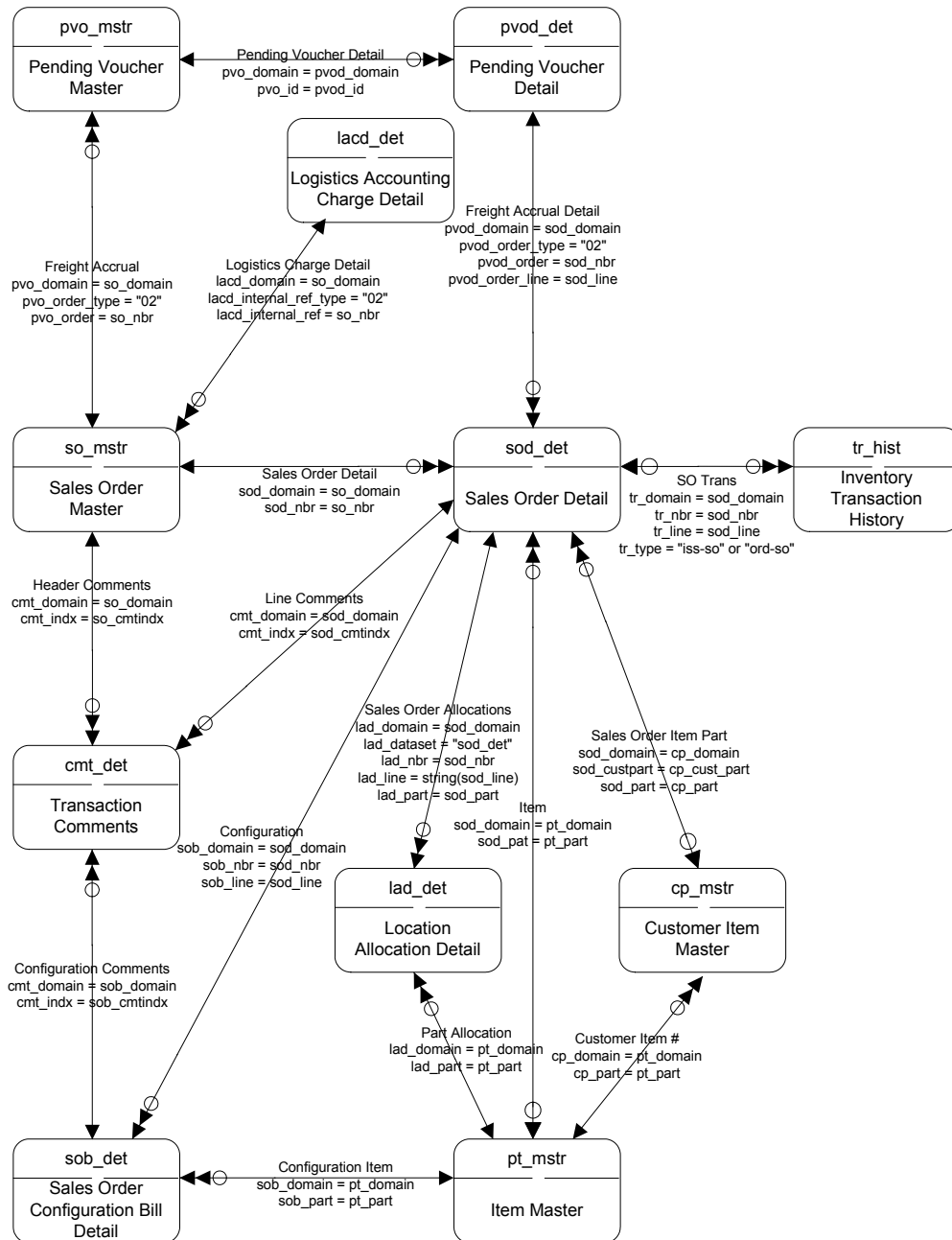


Zero or One One and Only One
 Zero or One Zero or One
 Zero or One Zero, One, or Multiple

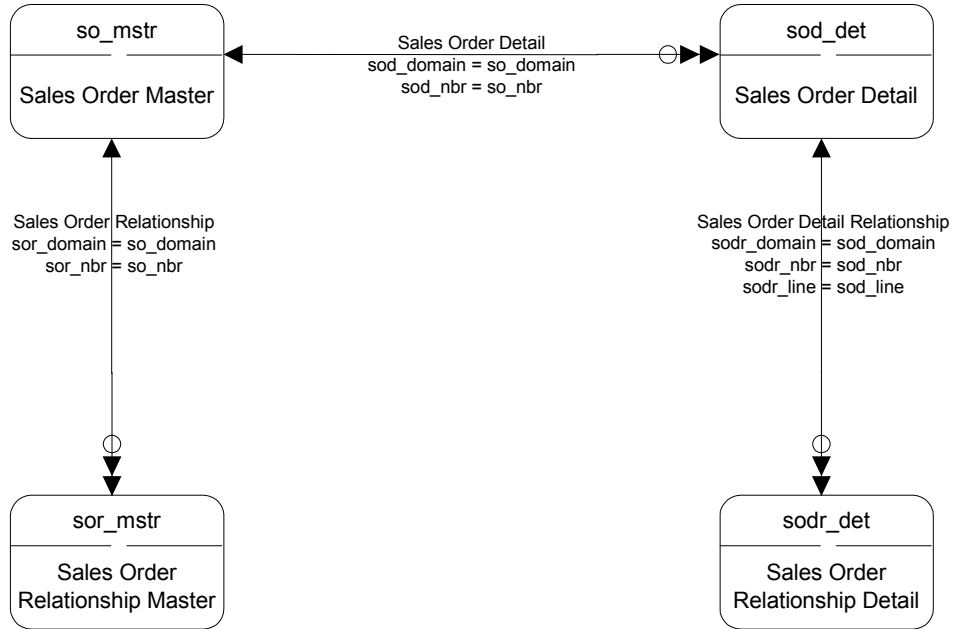
Zero or One One or Multiple
 Zero or One More than One
 One and Only One One and Only One







One and Only One Zero, One, or Multiple
 One and Only One One or Multiple
 One and Only One More than One







Sales Orders II









Sales Orders III

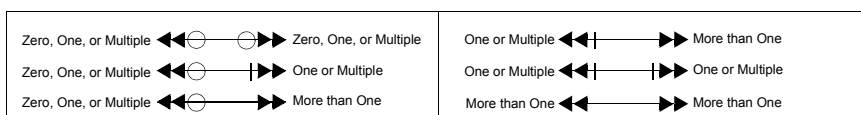
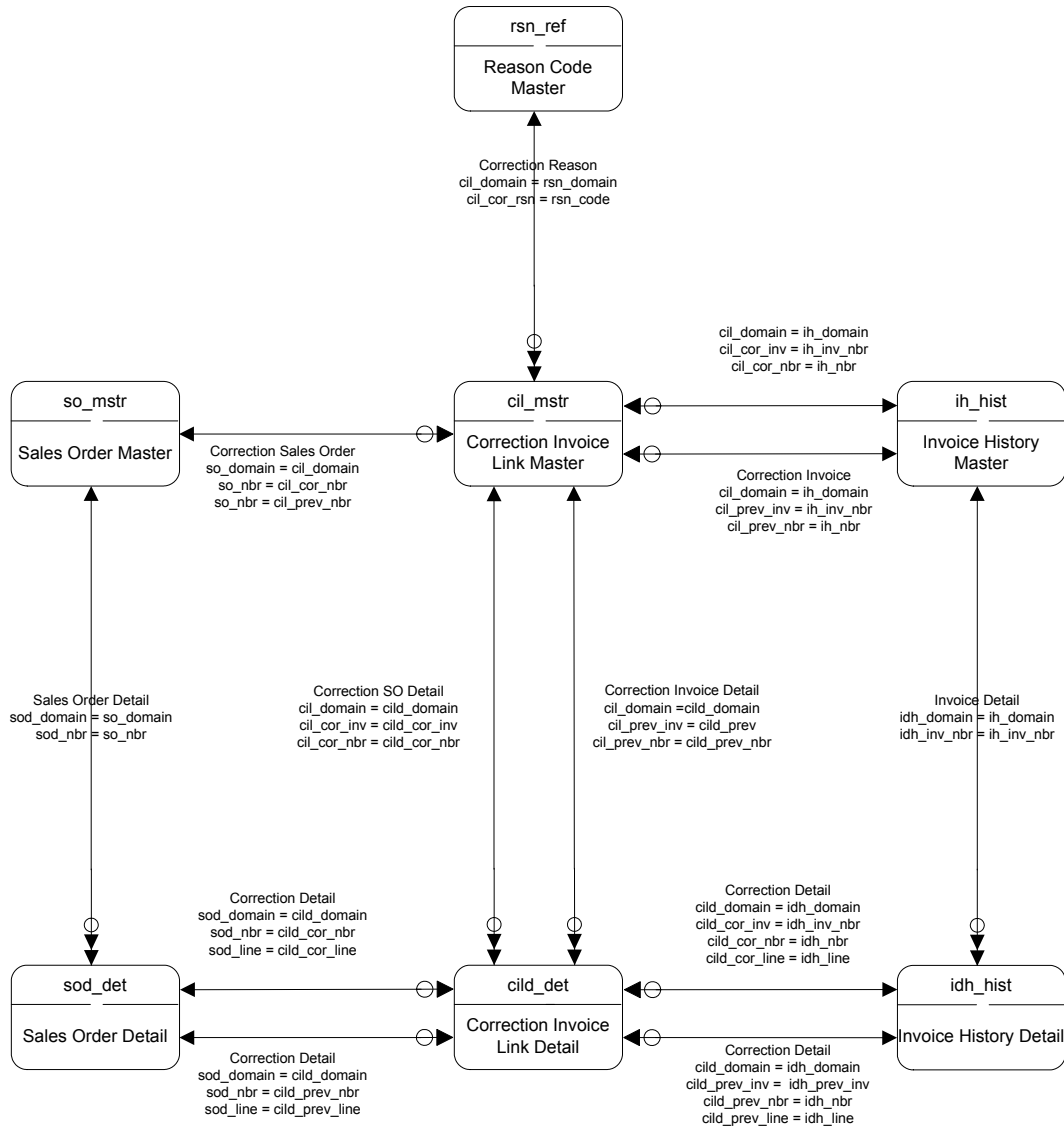


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

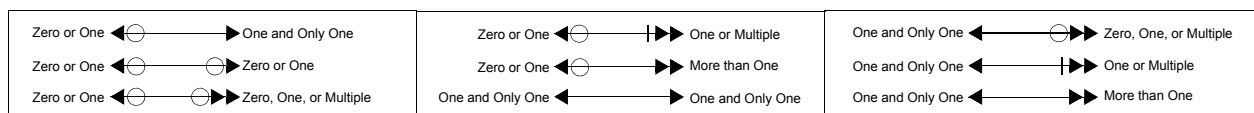
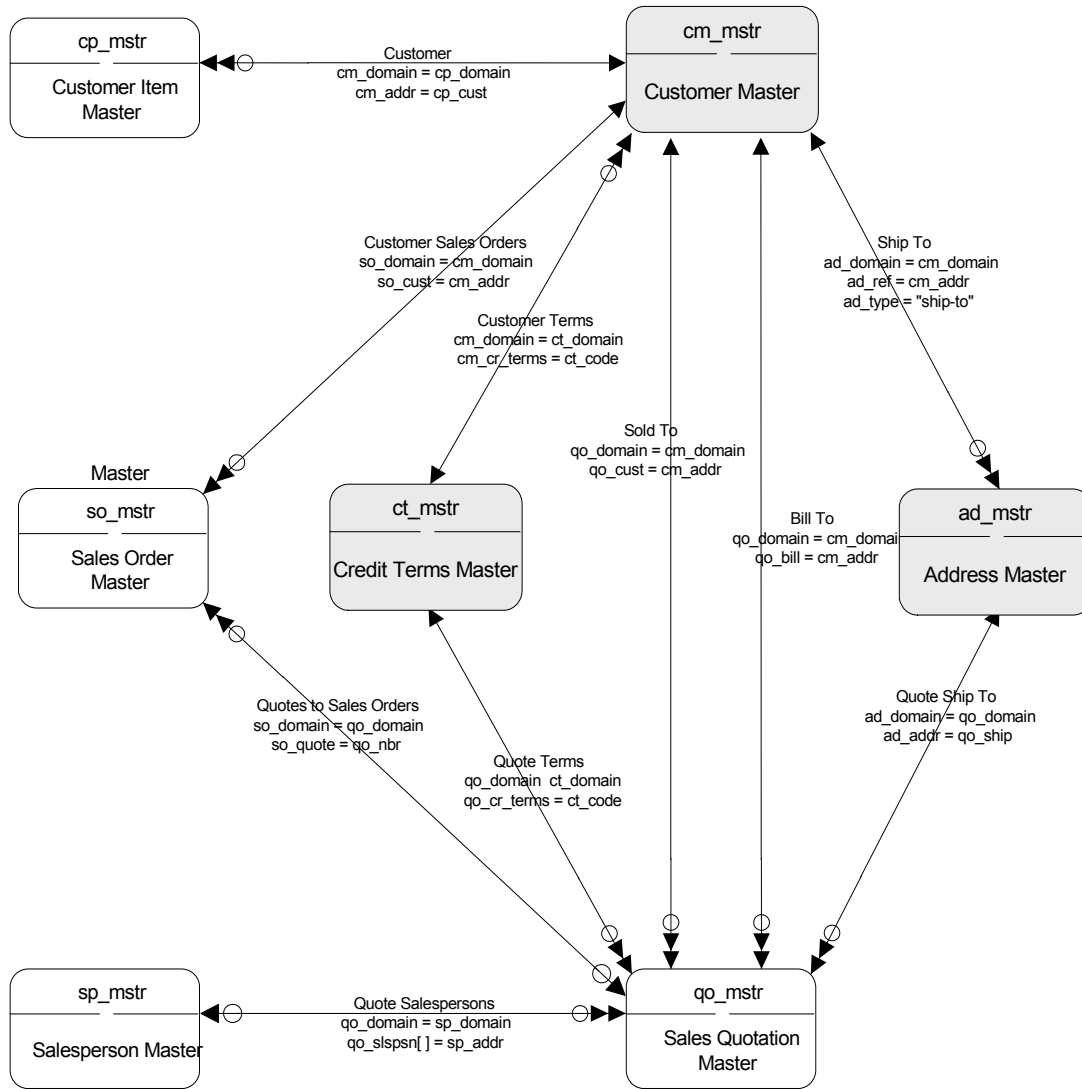
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

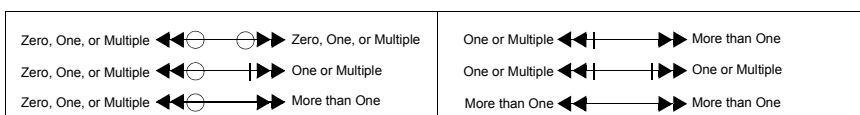
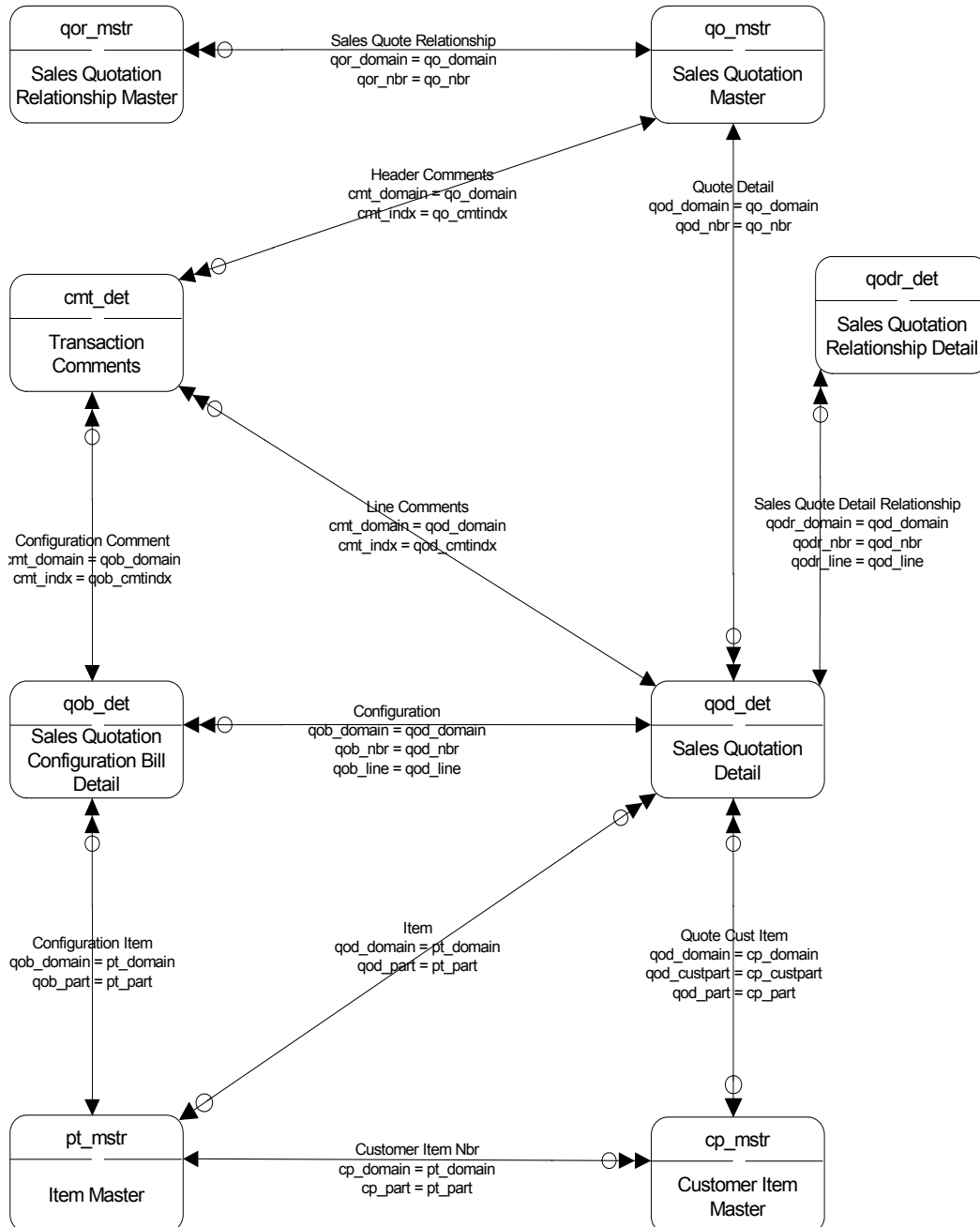
Sales Order IV



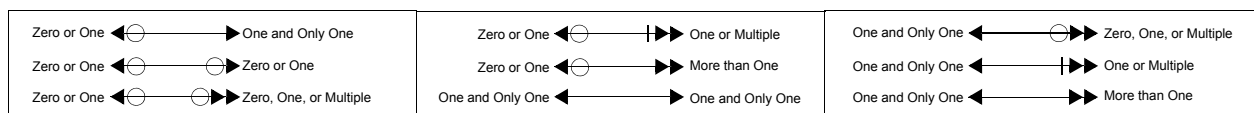
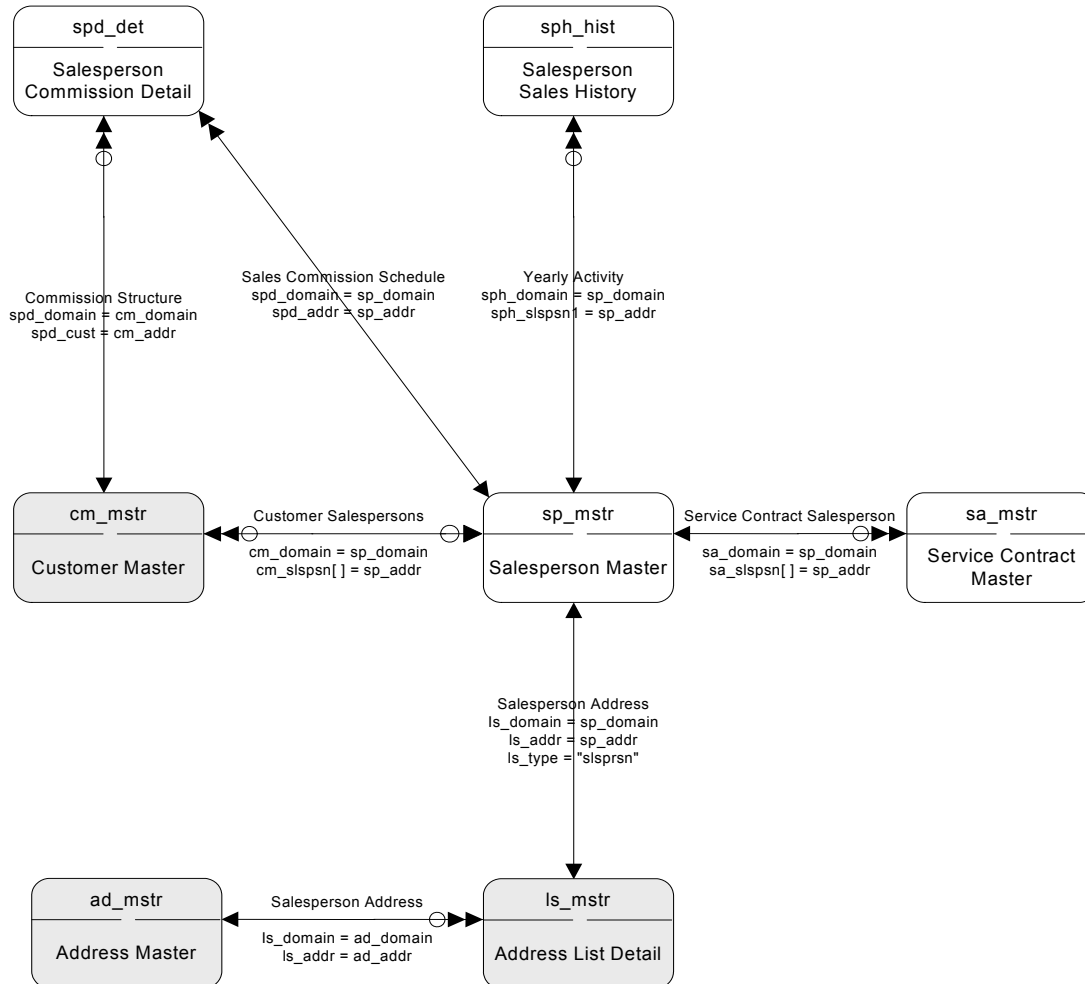
Sales Quotations I



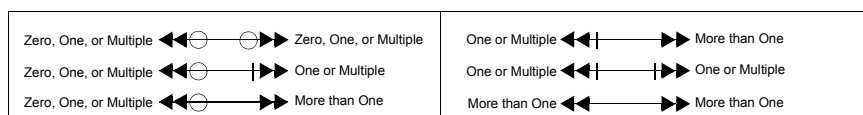
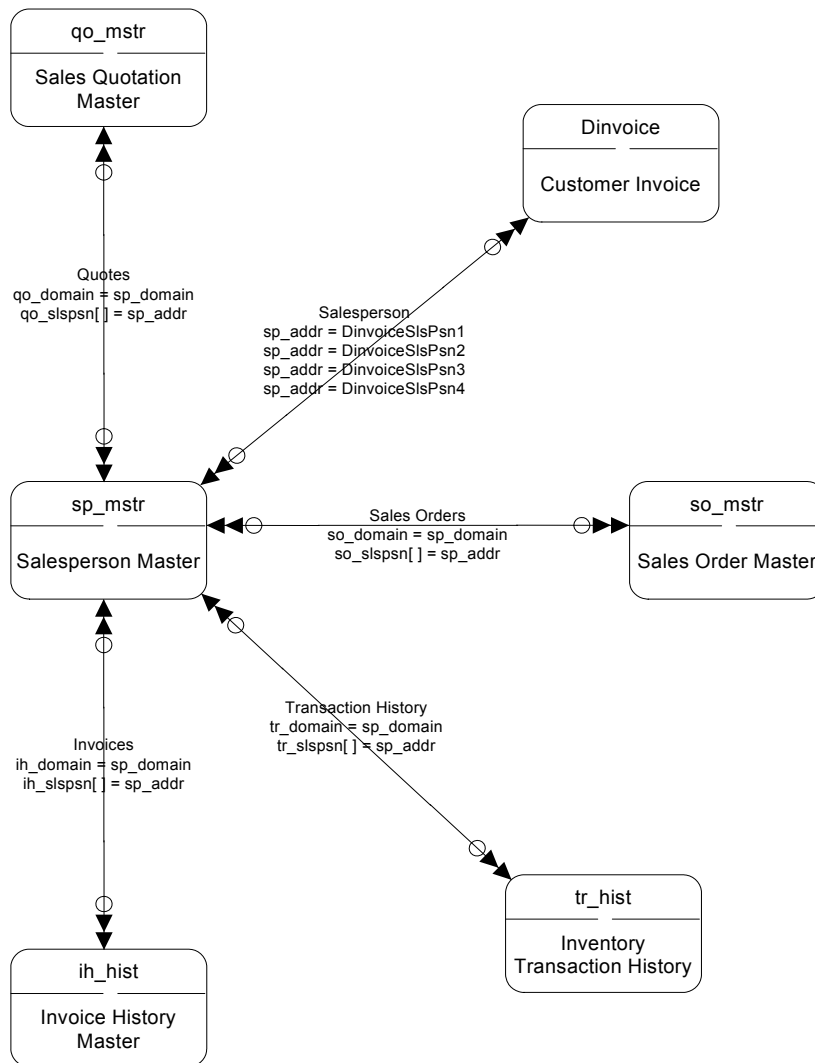
Sales Quotations II



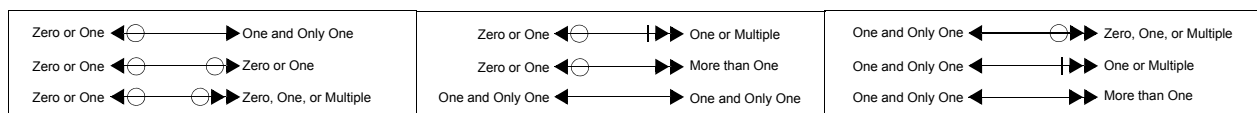
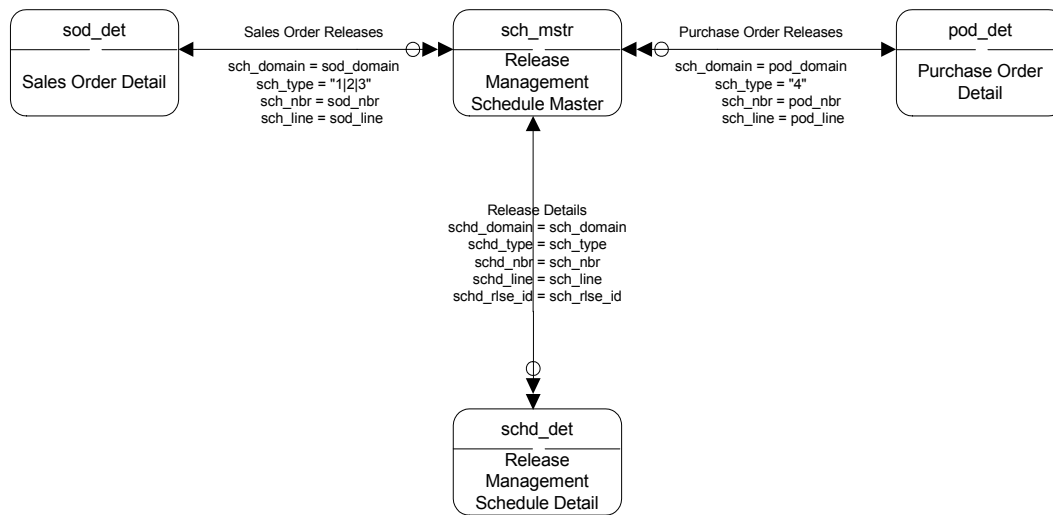
Salesperson I



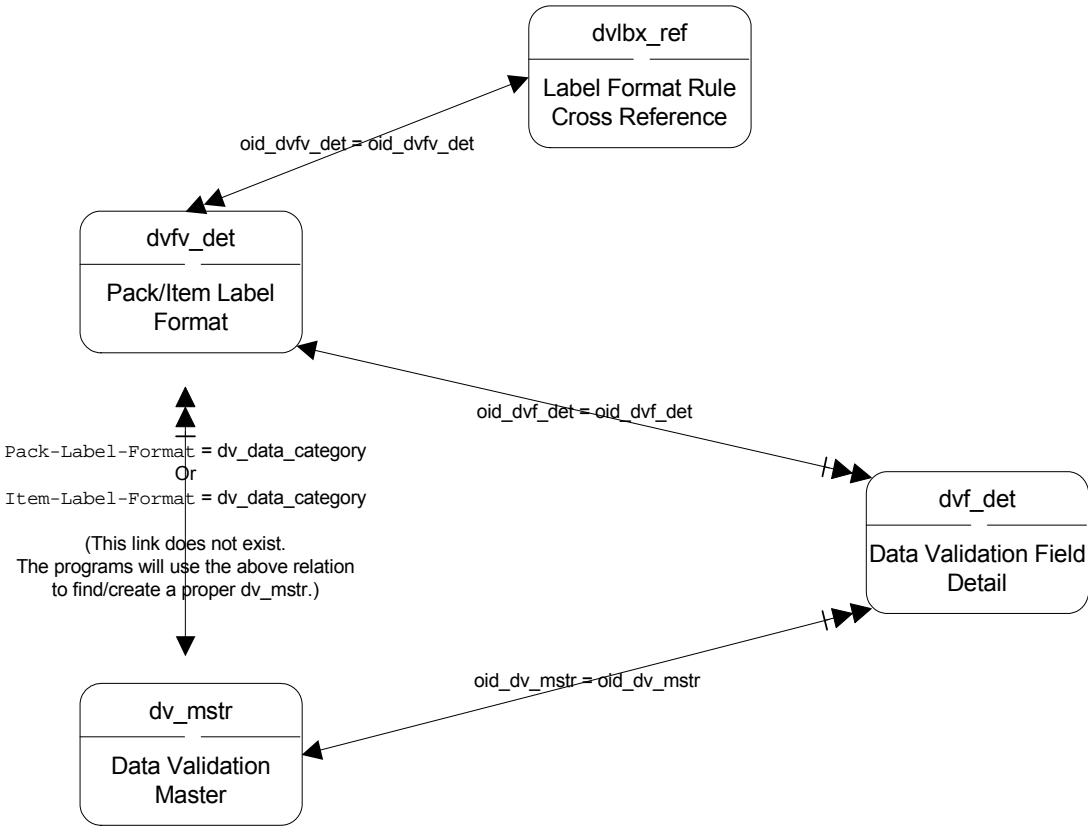
Salesperson II



Scheduled Order Management

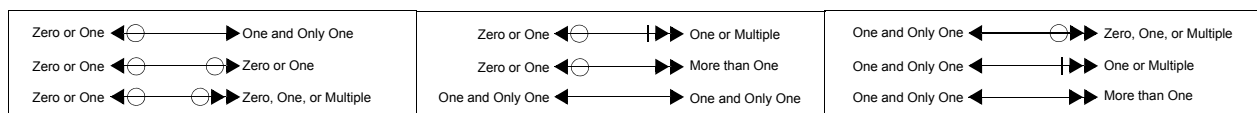
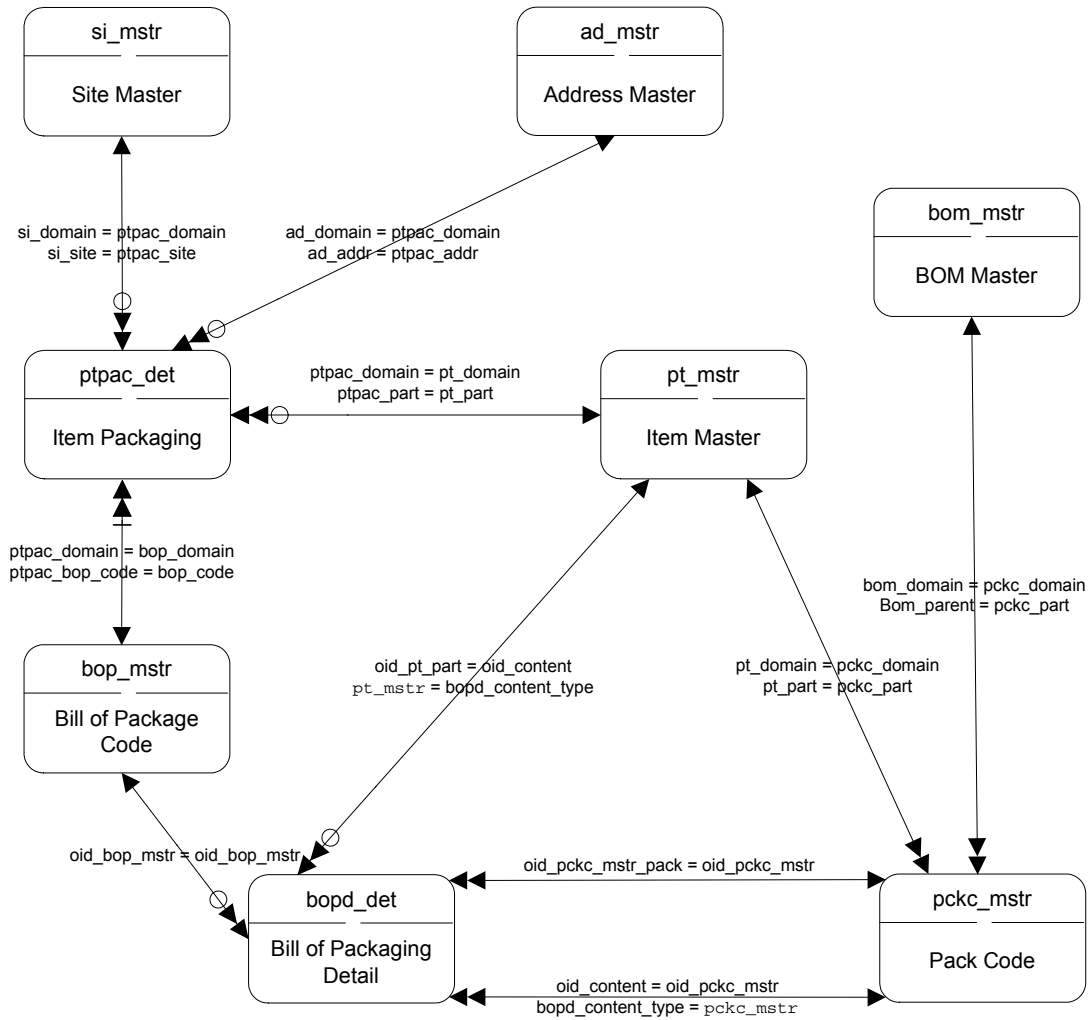


Serialization - Label Format

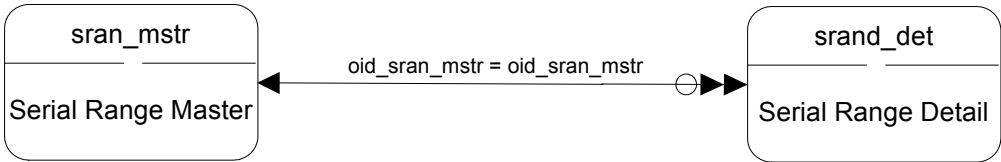


Zero, One, or Multiple	One or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One	More than One

Serialization - Packaging Structure

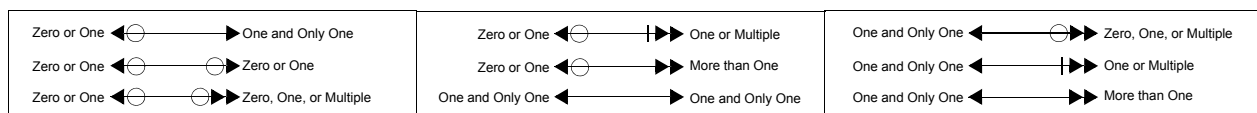
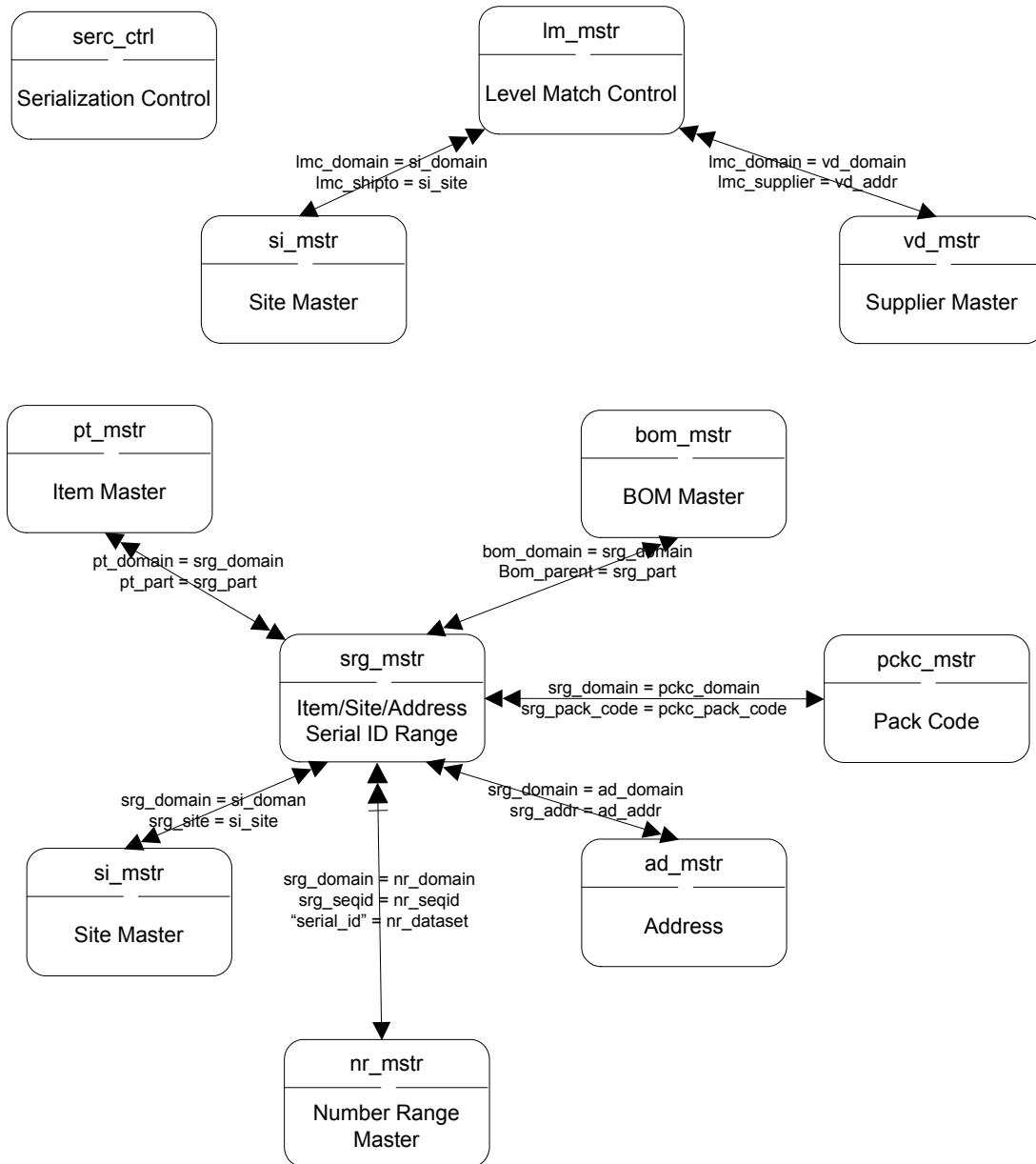


Serialization - Serial Range

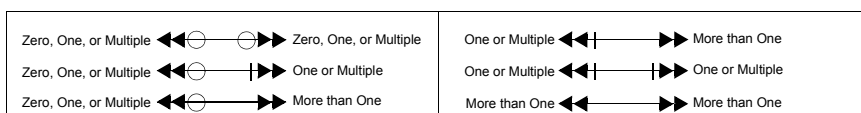
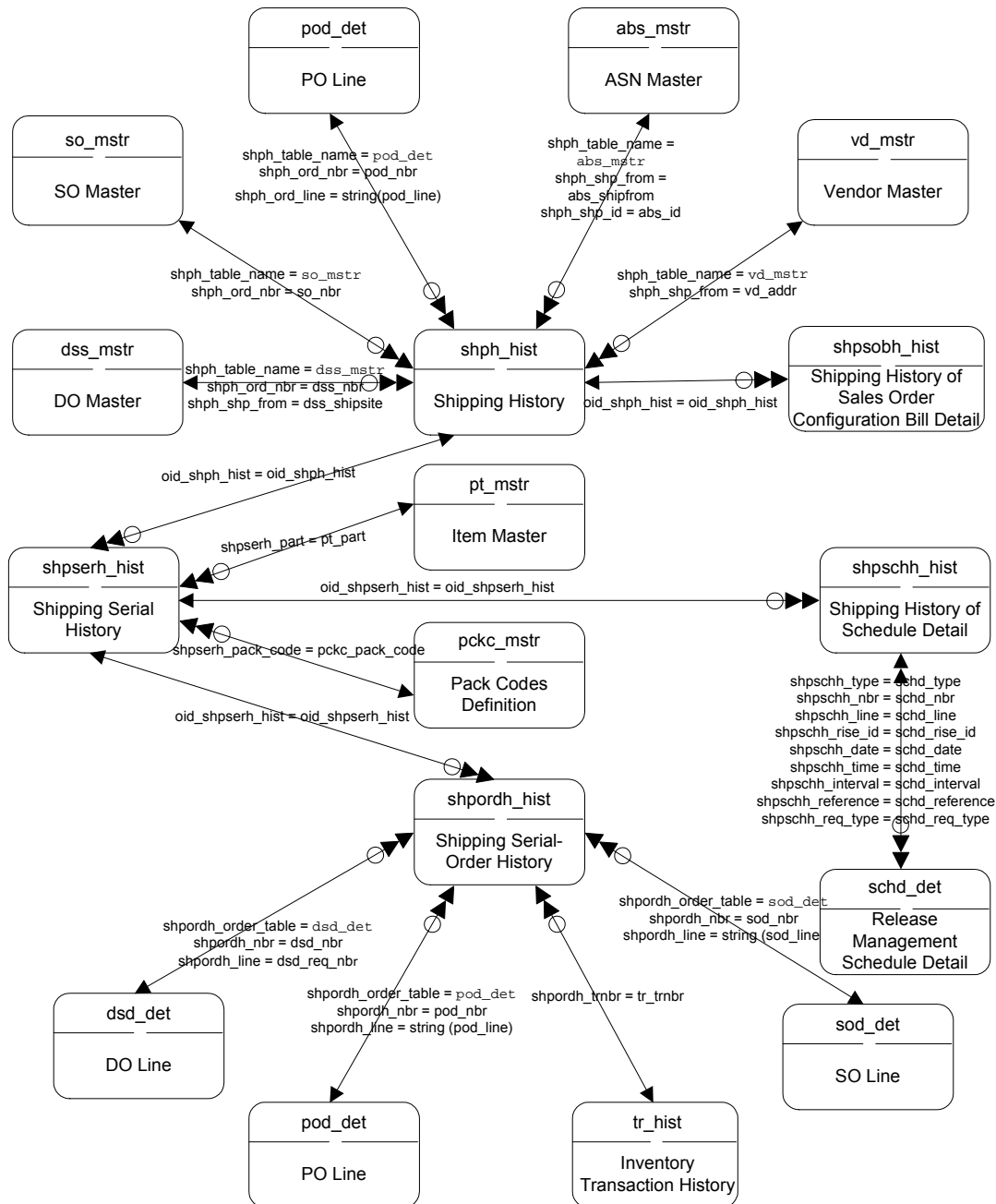


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

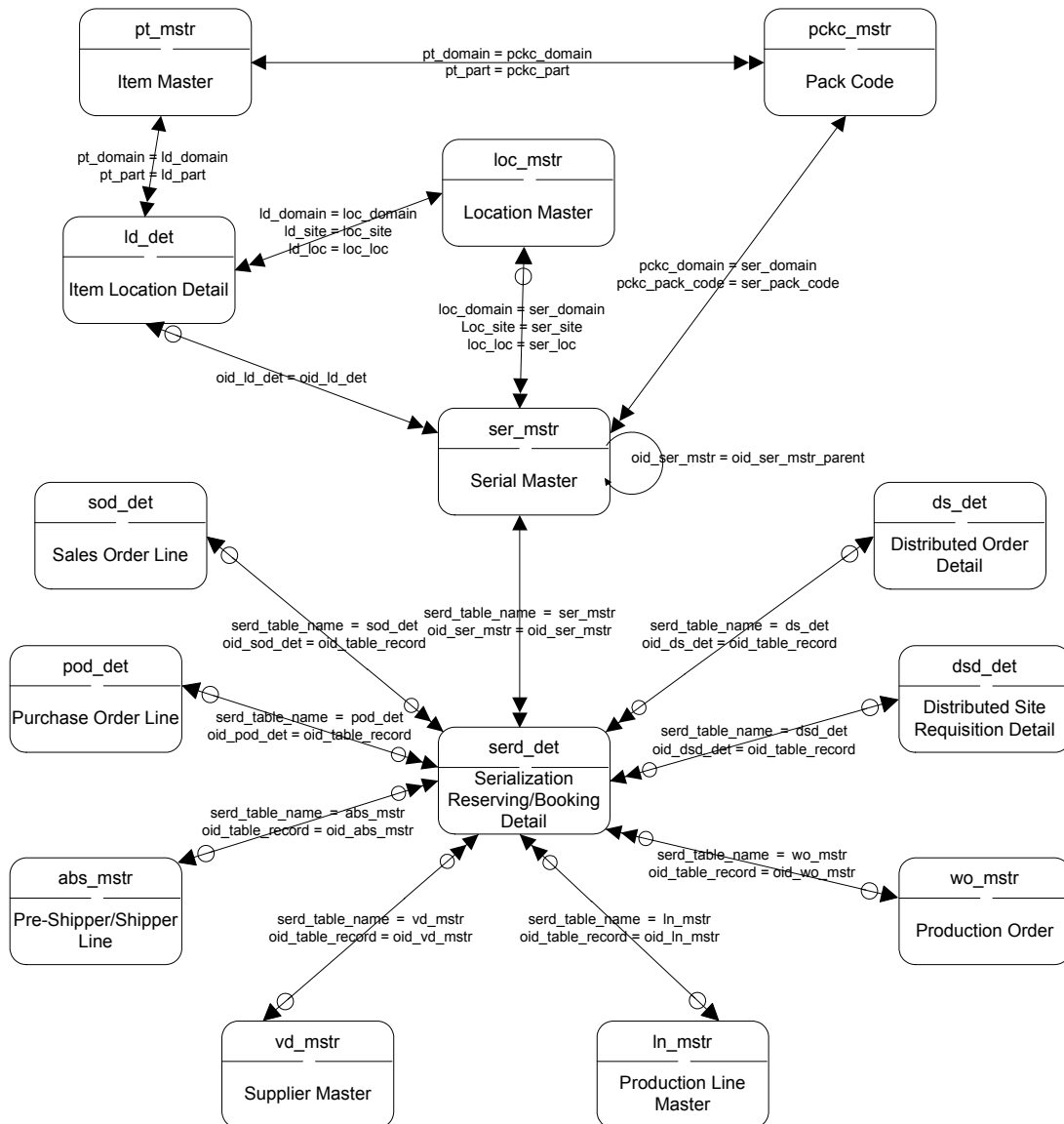
Serialization - Setup





















Serialization - Shipping History



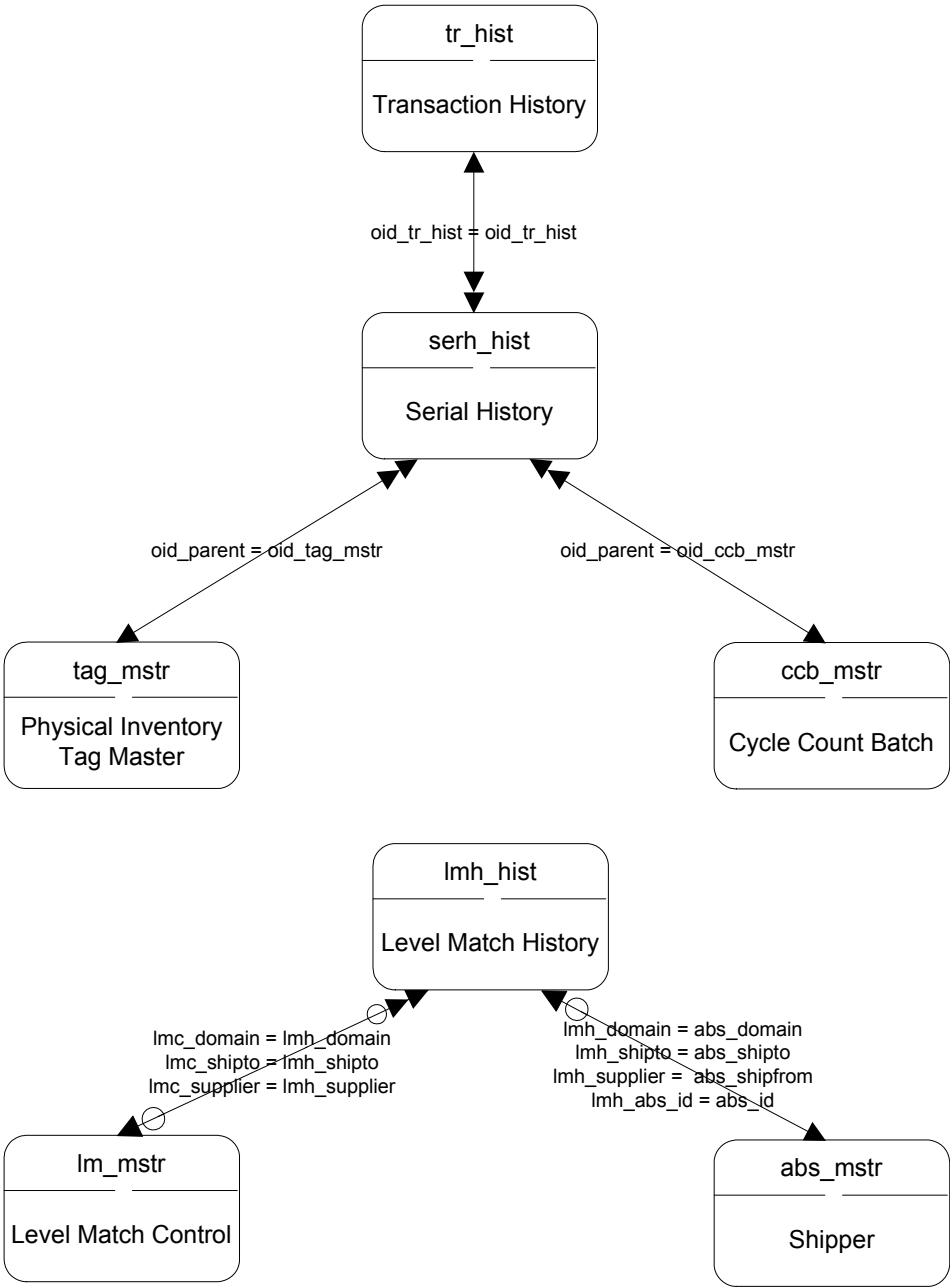
Serialization - Transaction Data



Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

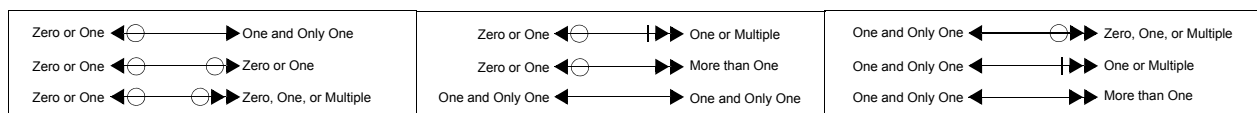
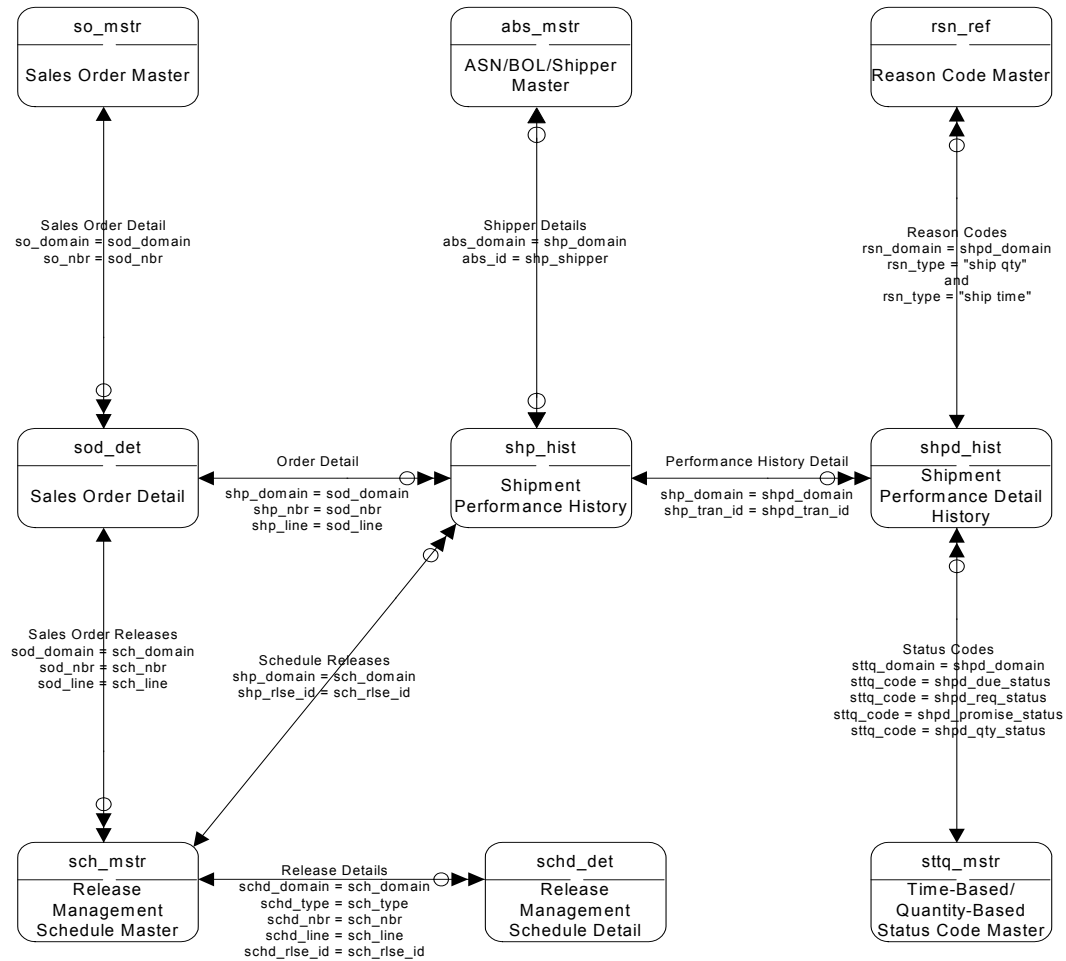
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Serialization - Transaction History

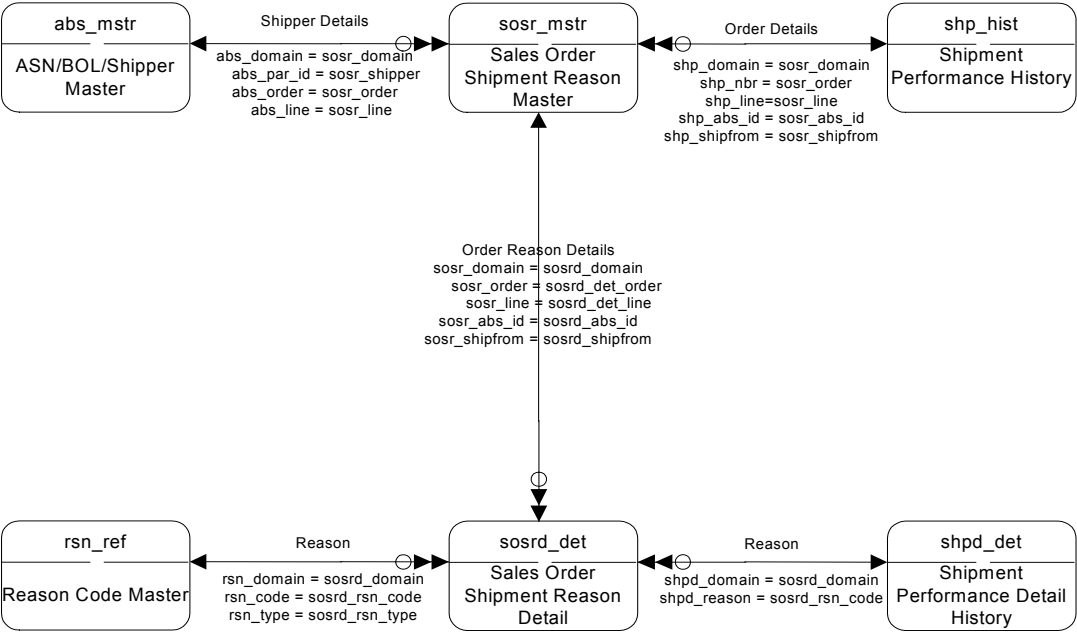


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Shipment Performance I

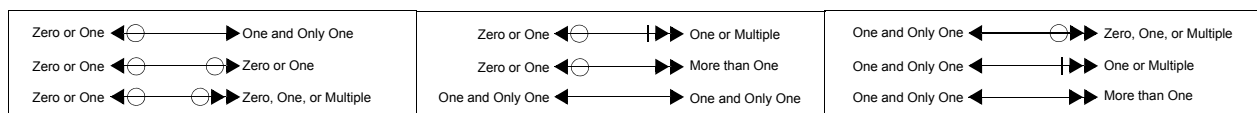
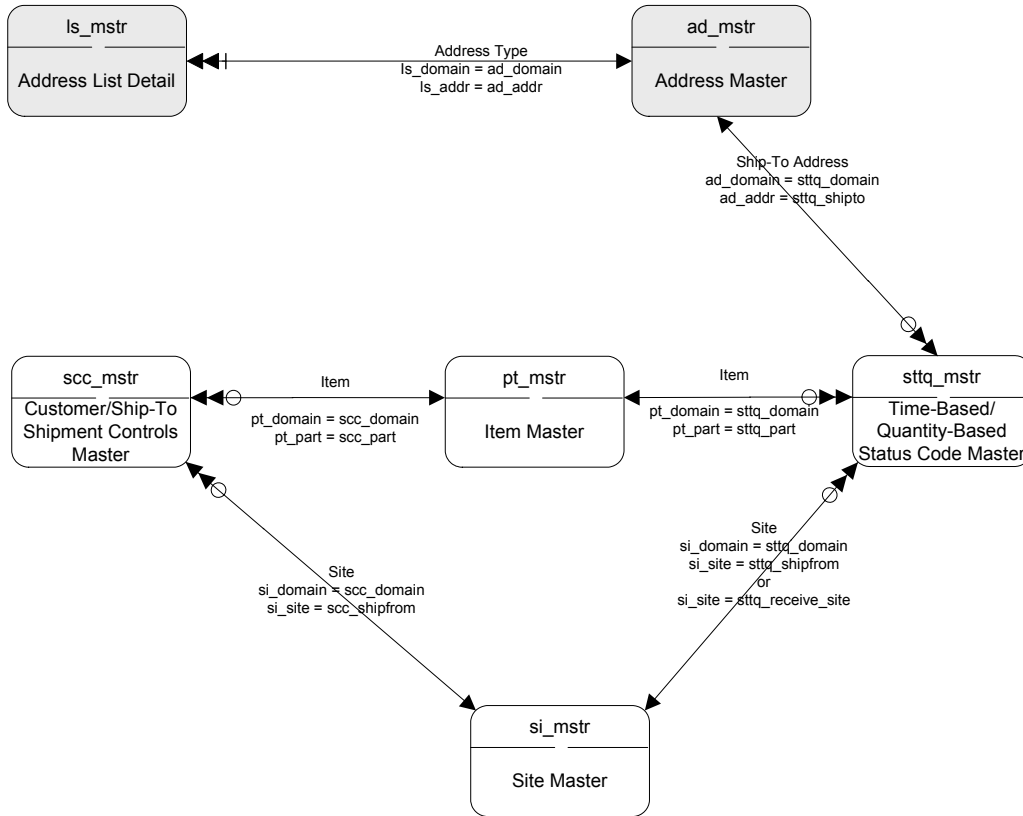


Shipment Performance II

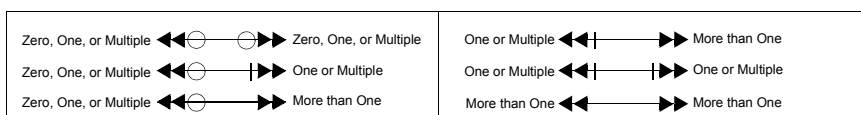
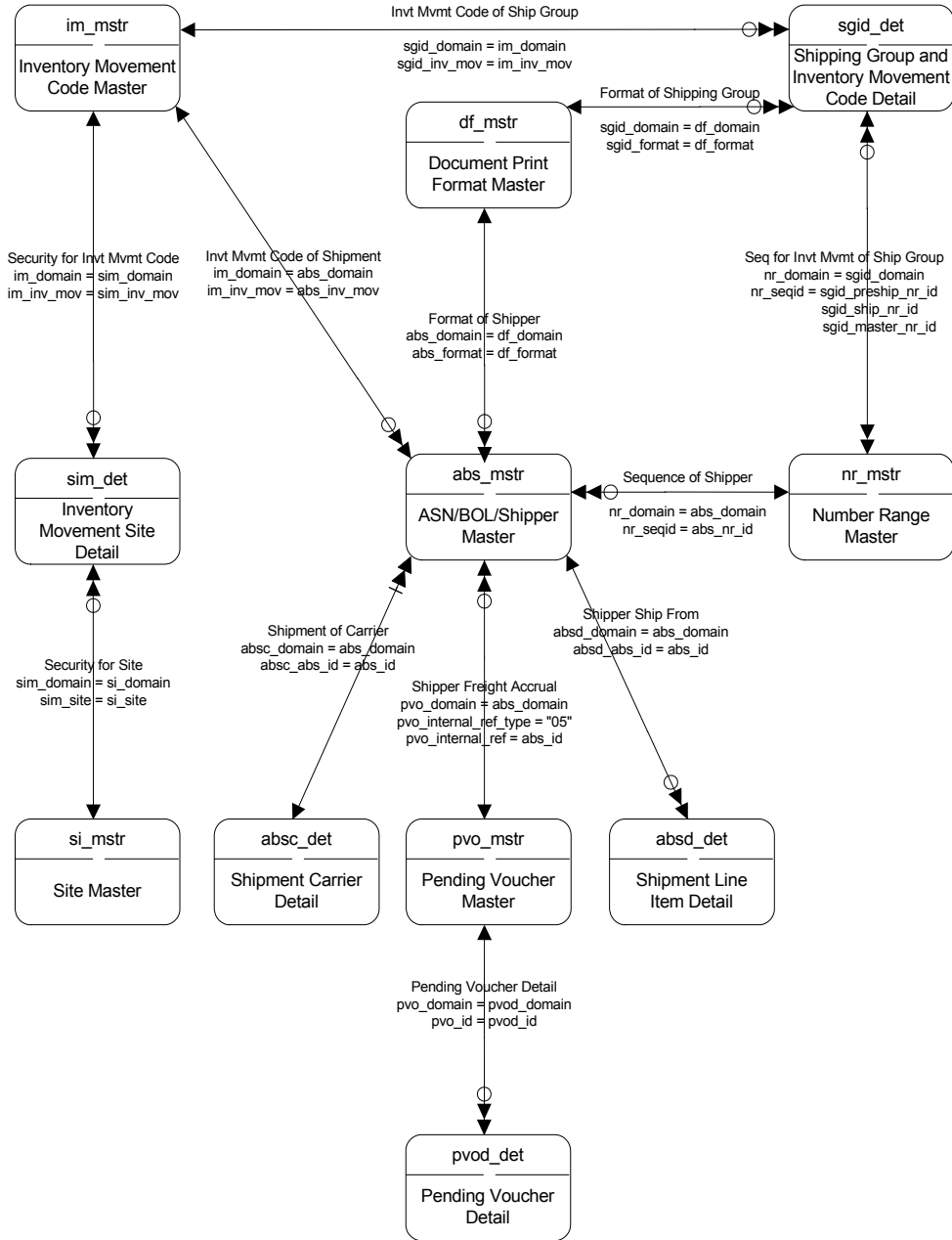


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

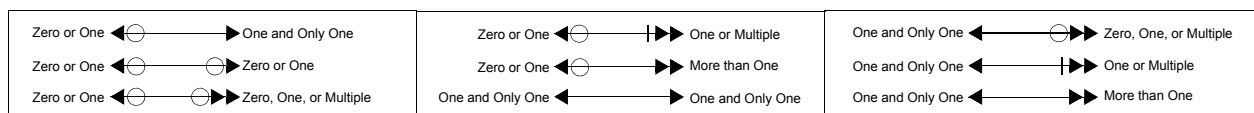
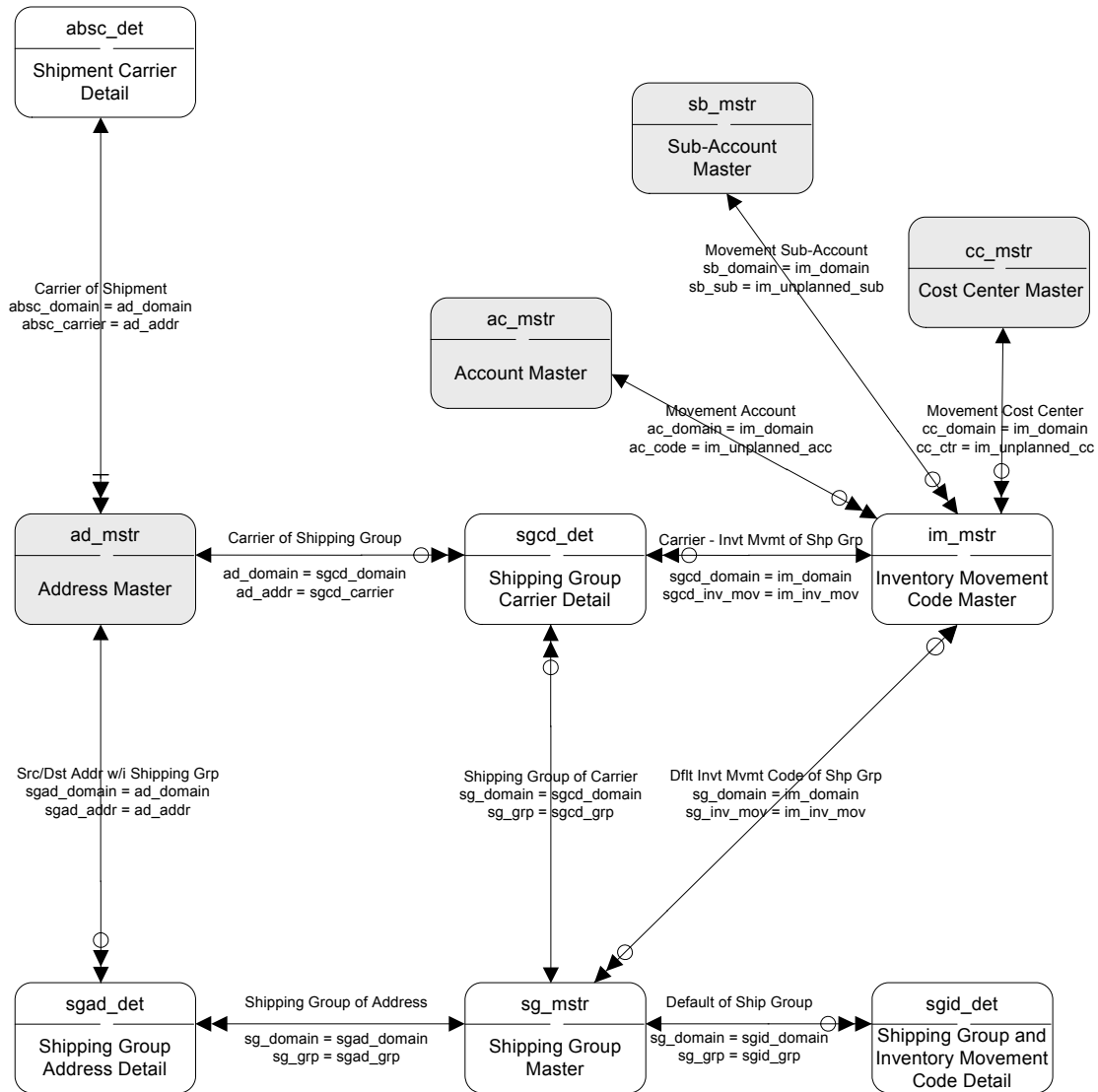
Shipment Performance III



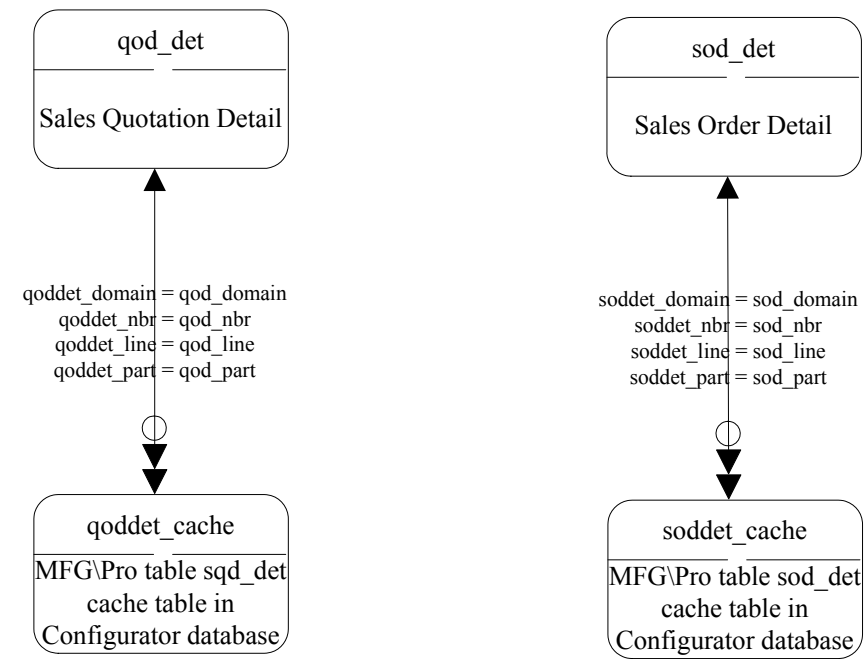
Shipping I



Shipping II

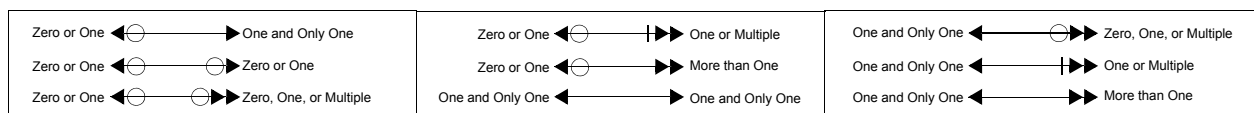
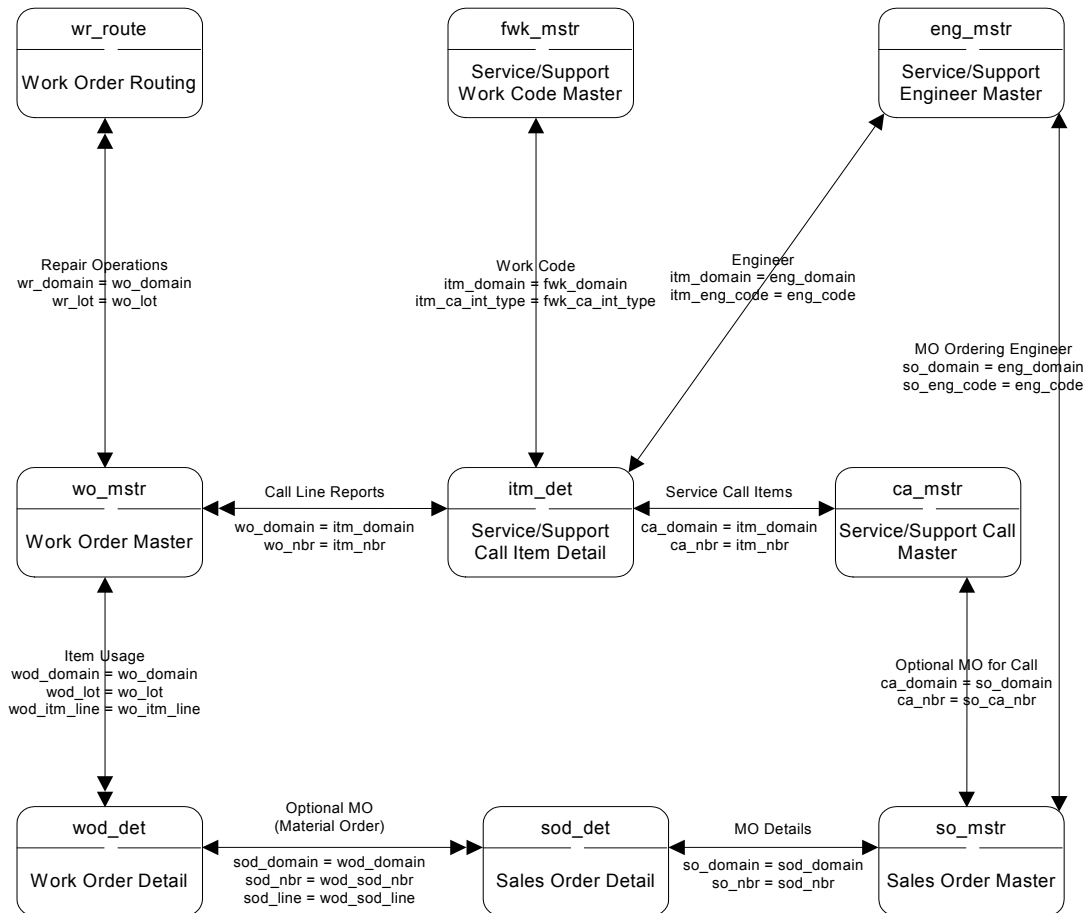


SOD/QOD Assignment Rule Cache

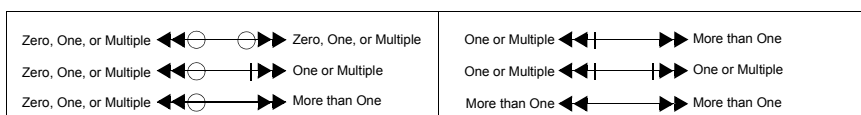
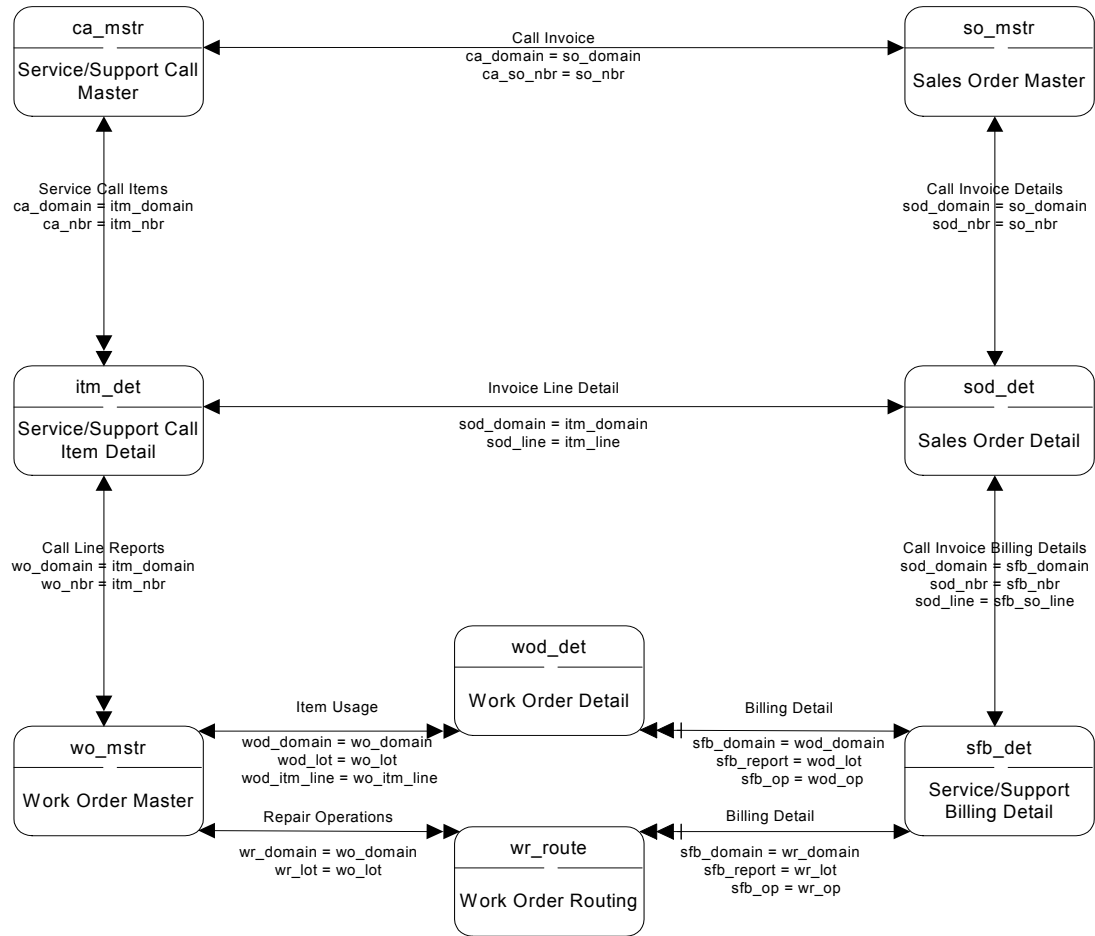


Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One
One or Multiple	◀◀	▶▶	More than One
One or Multiple	◀◀	▶▶	One or Multiple
More than One	◀◀	▶▶	More than One

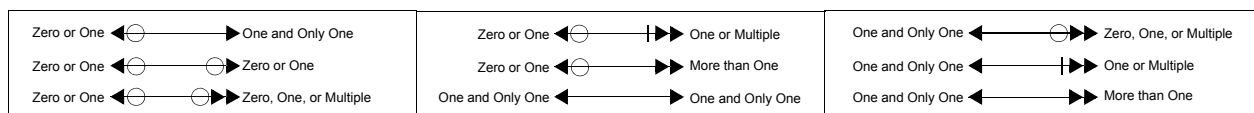
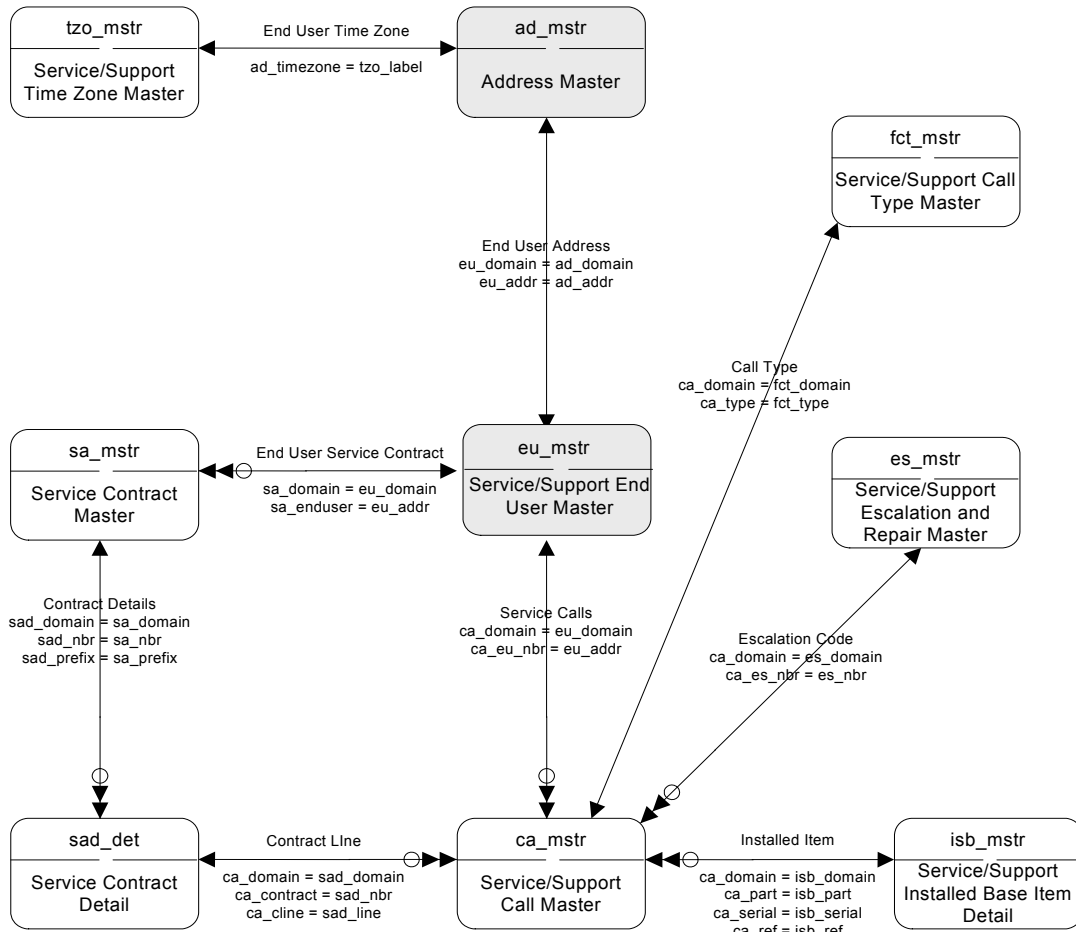
SSM – Call Activity Recording



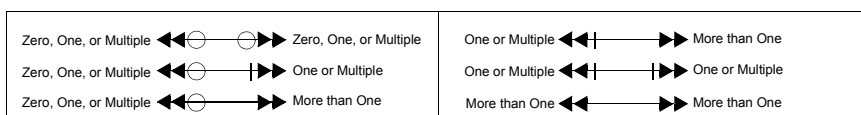
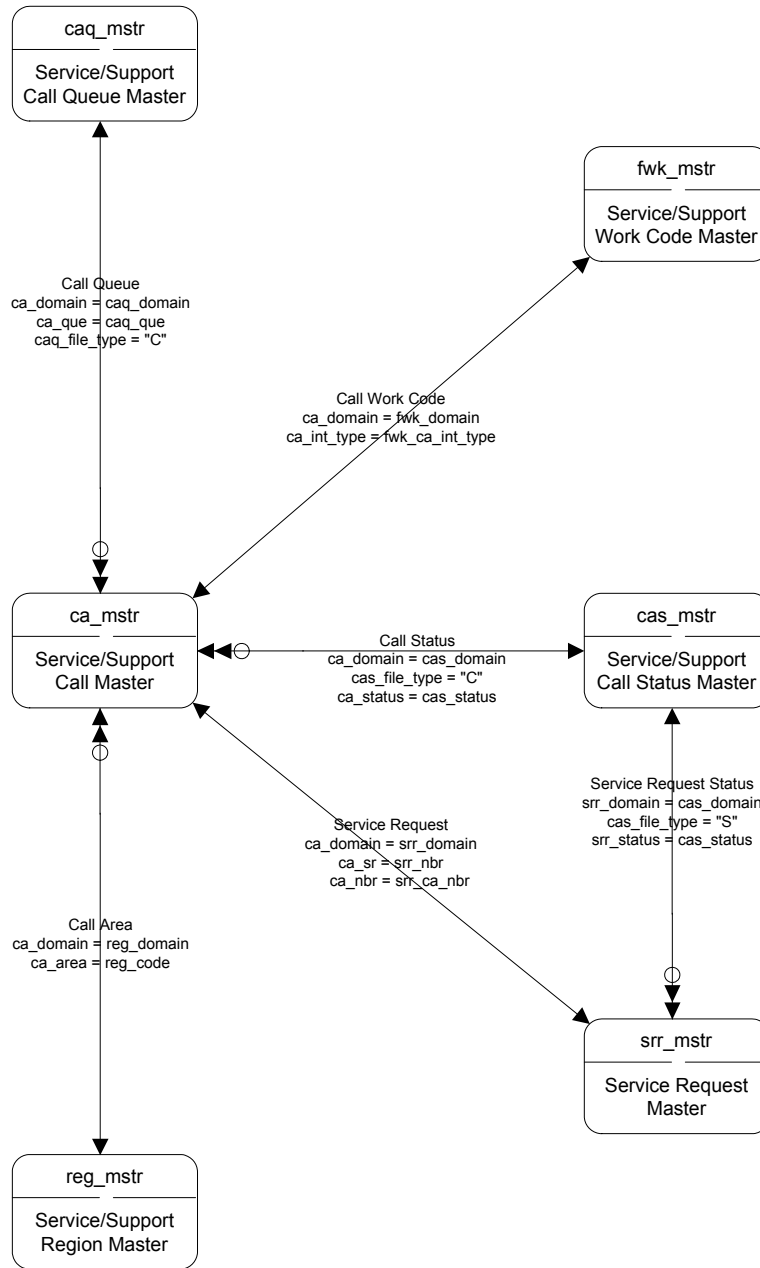
SSM – Call Invoice Recording



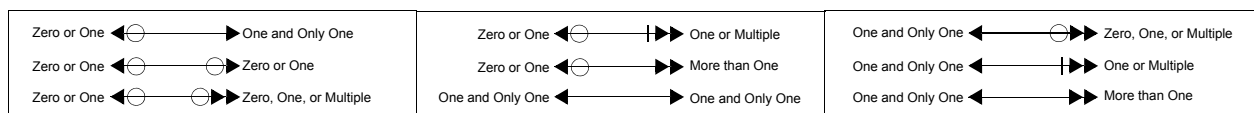
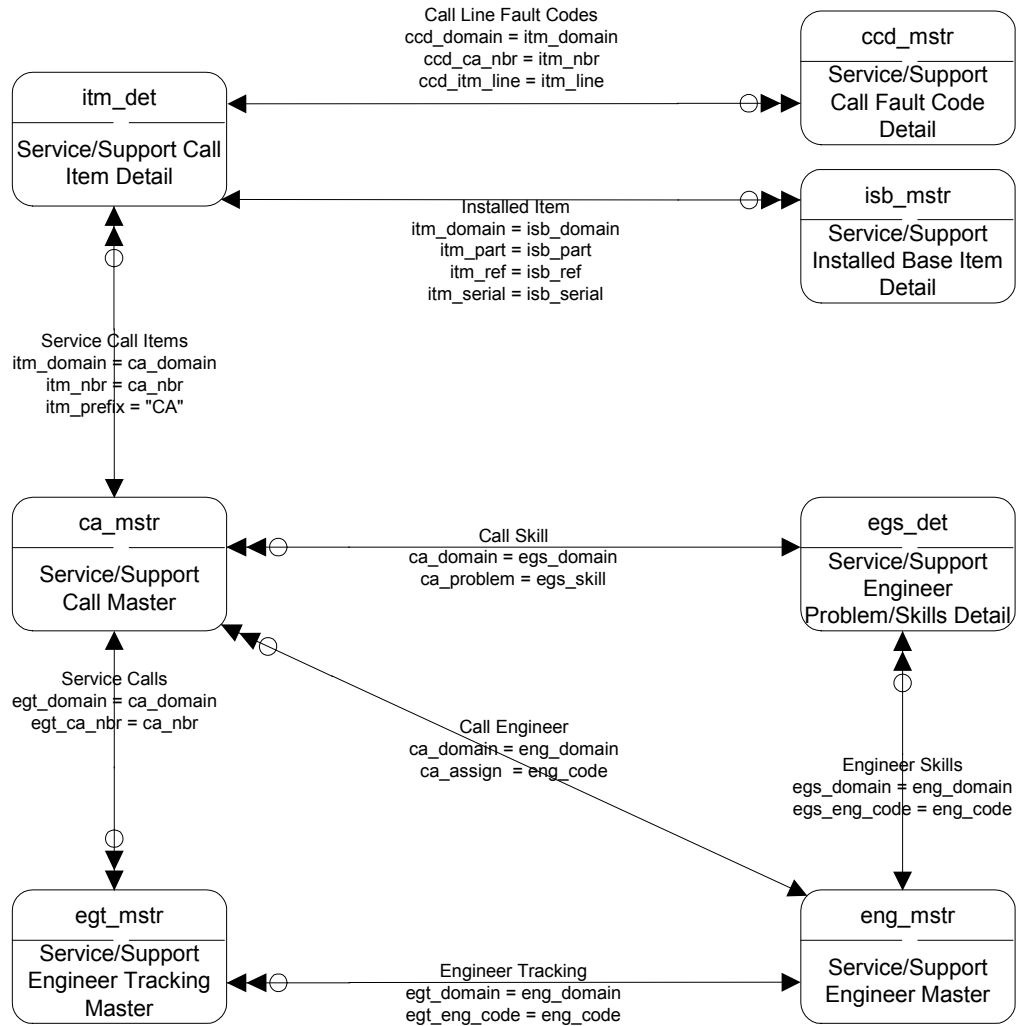
SSM – Call Tracking I



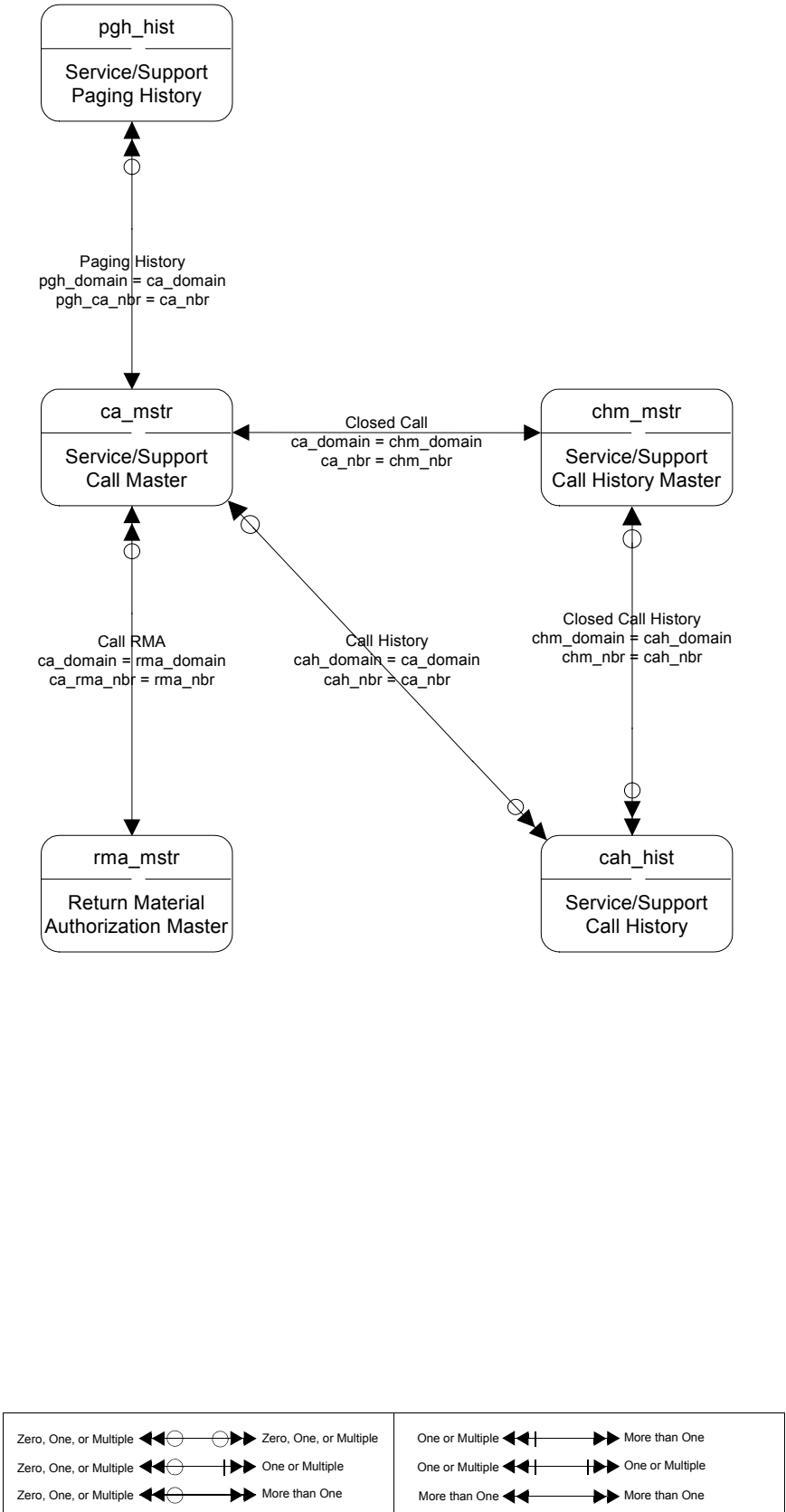
SSM – Call Tracking II



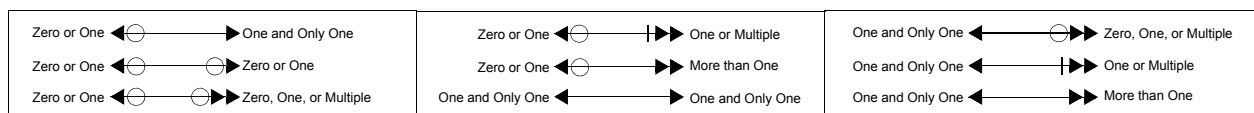
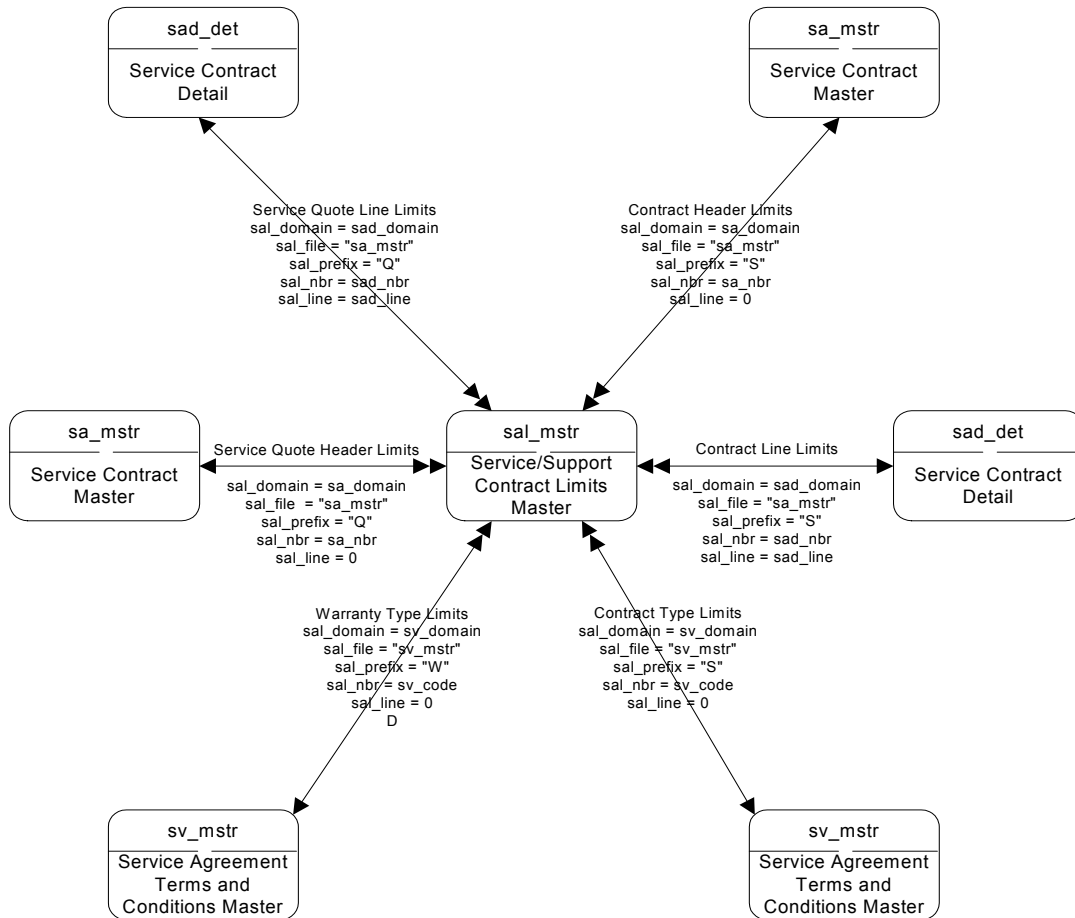
SSM – Call Tracking III



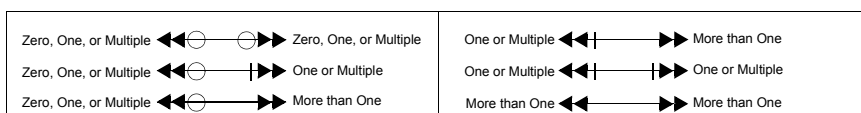
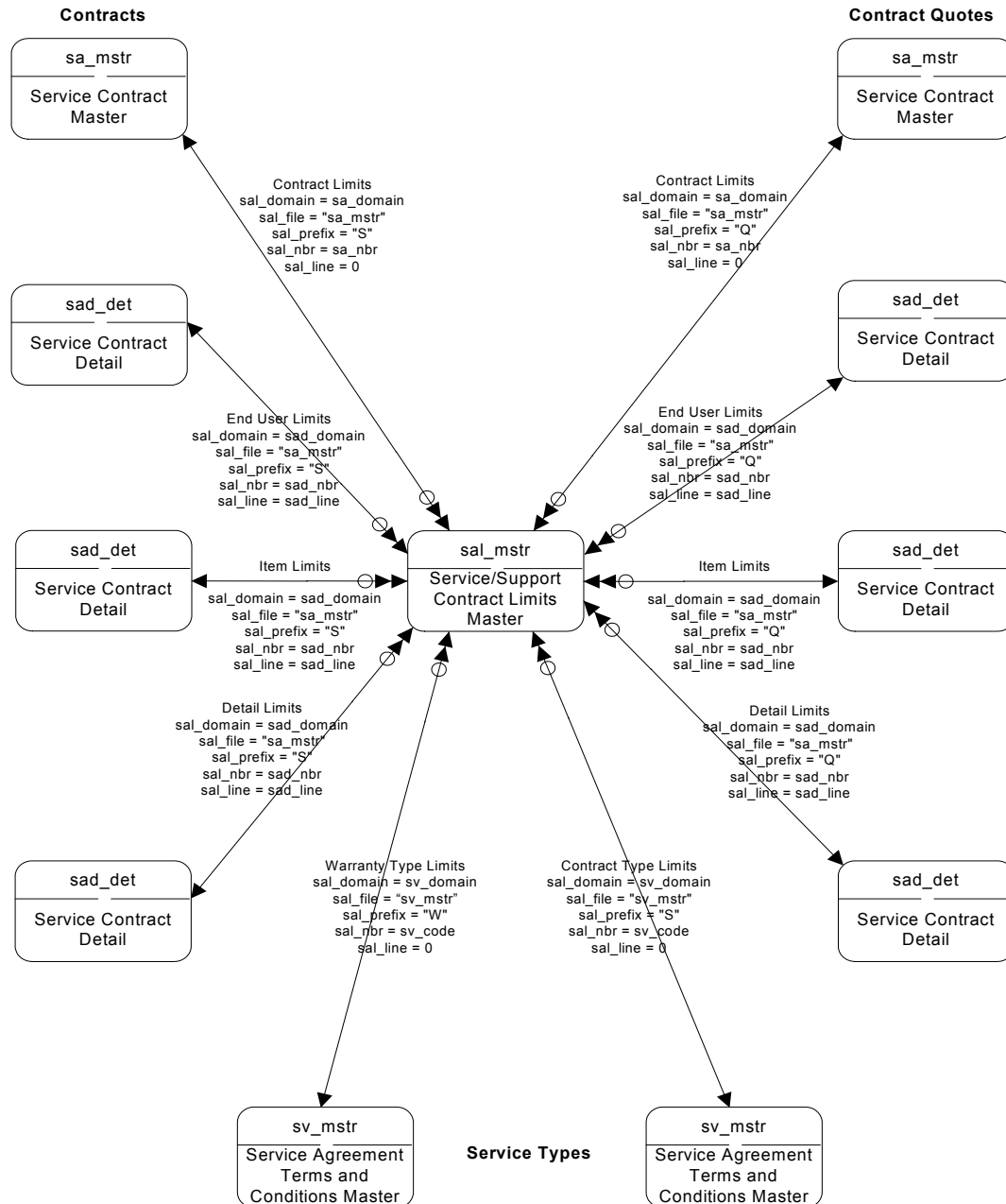
SSM – Call Tracking IV



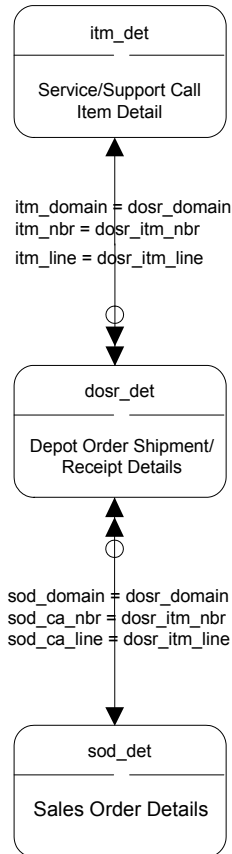
SSM – Coverage Limits I















SSM – Coverage Limits II









SSM – Depot Orders

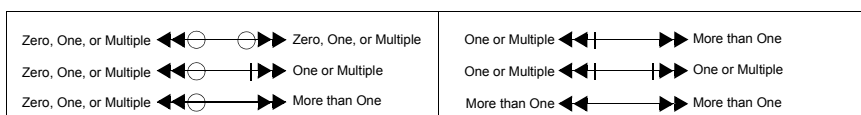
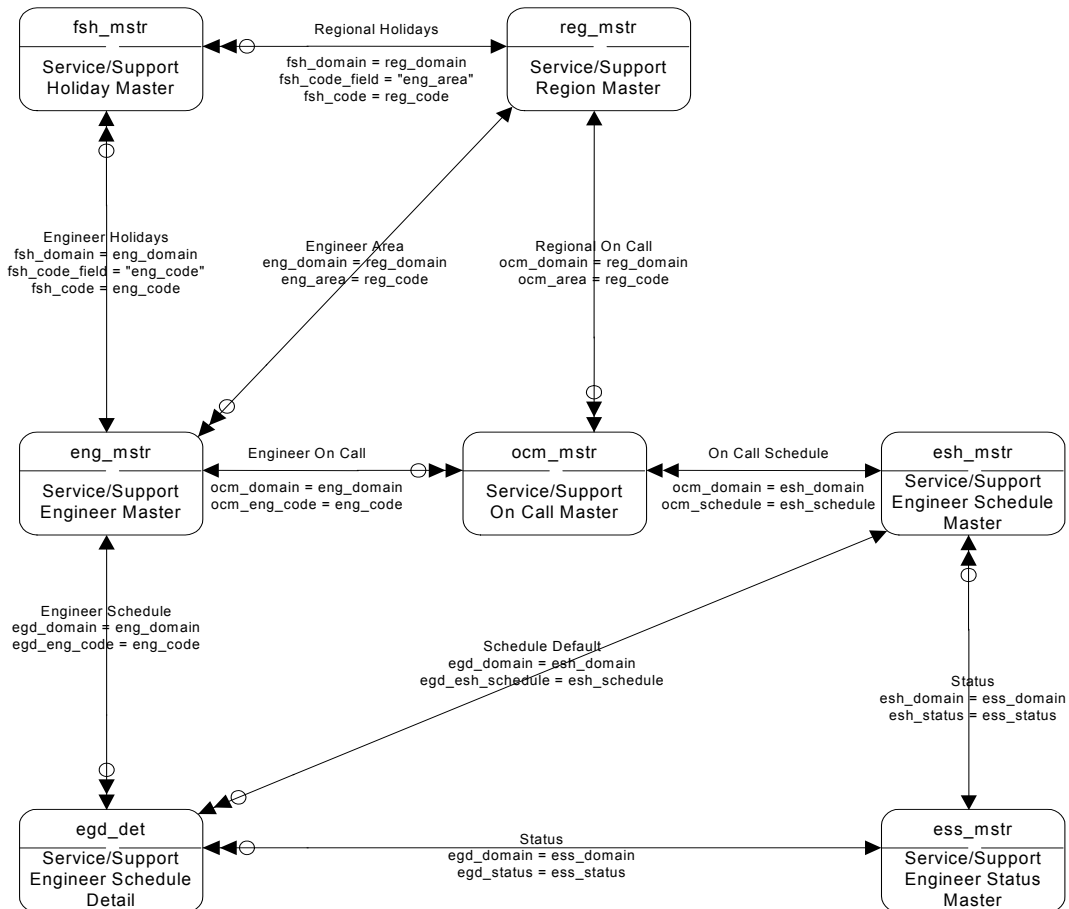


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

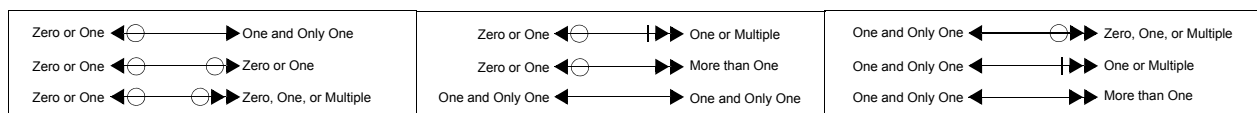
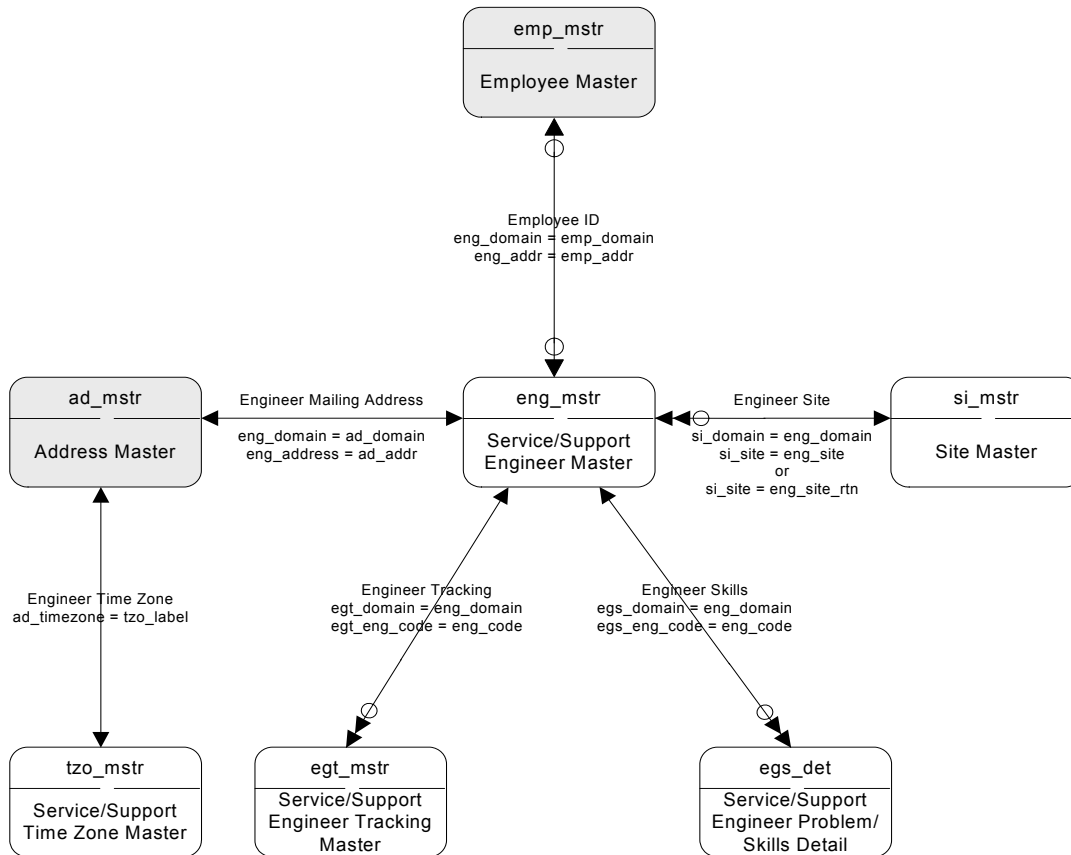
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

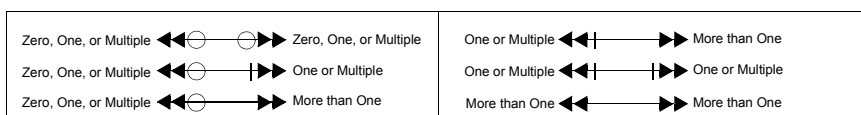
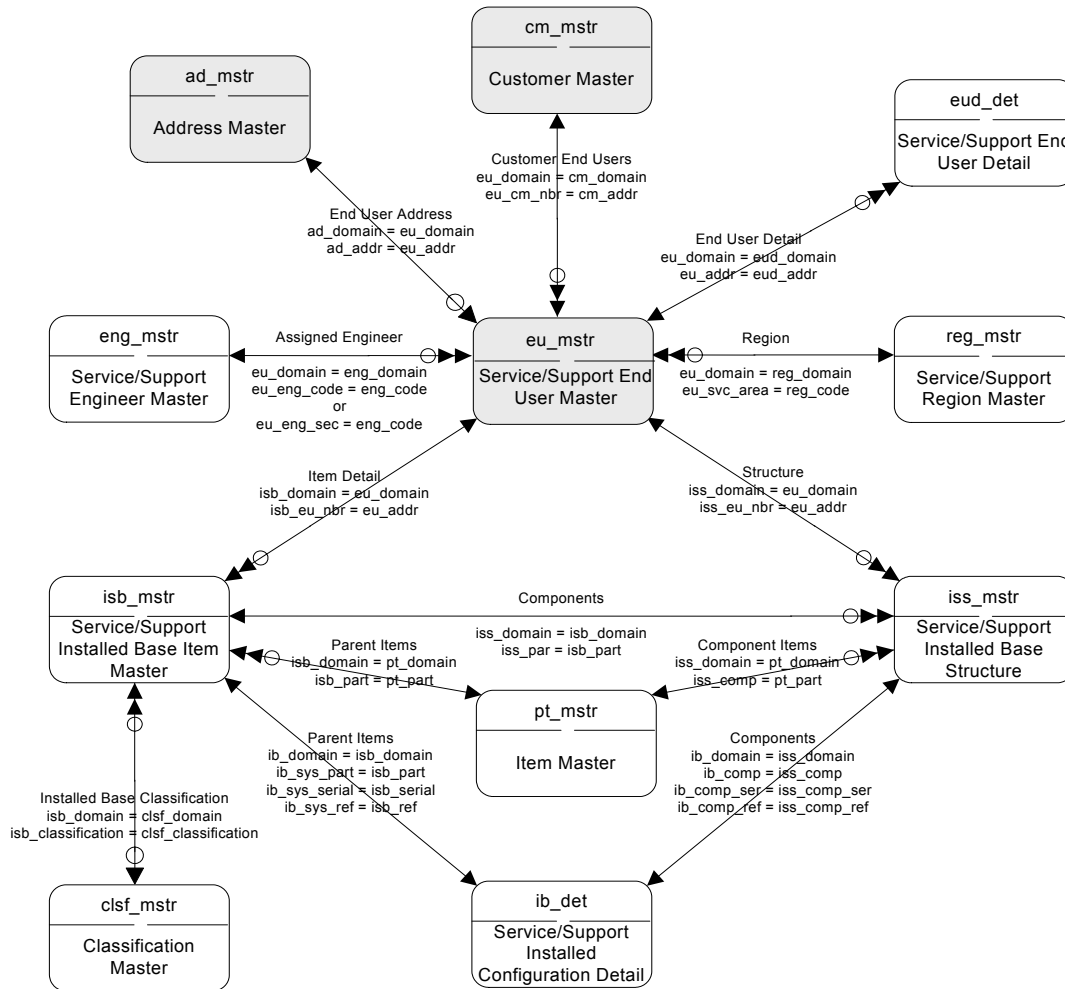
SSM – Engineers I



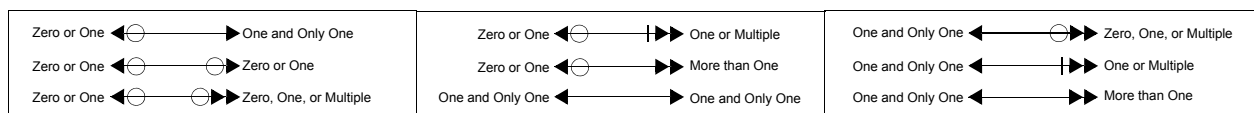
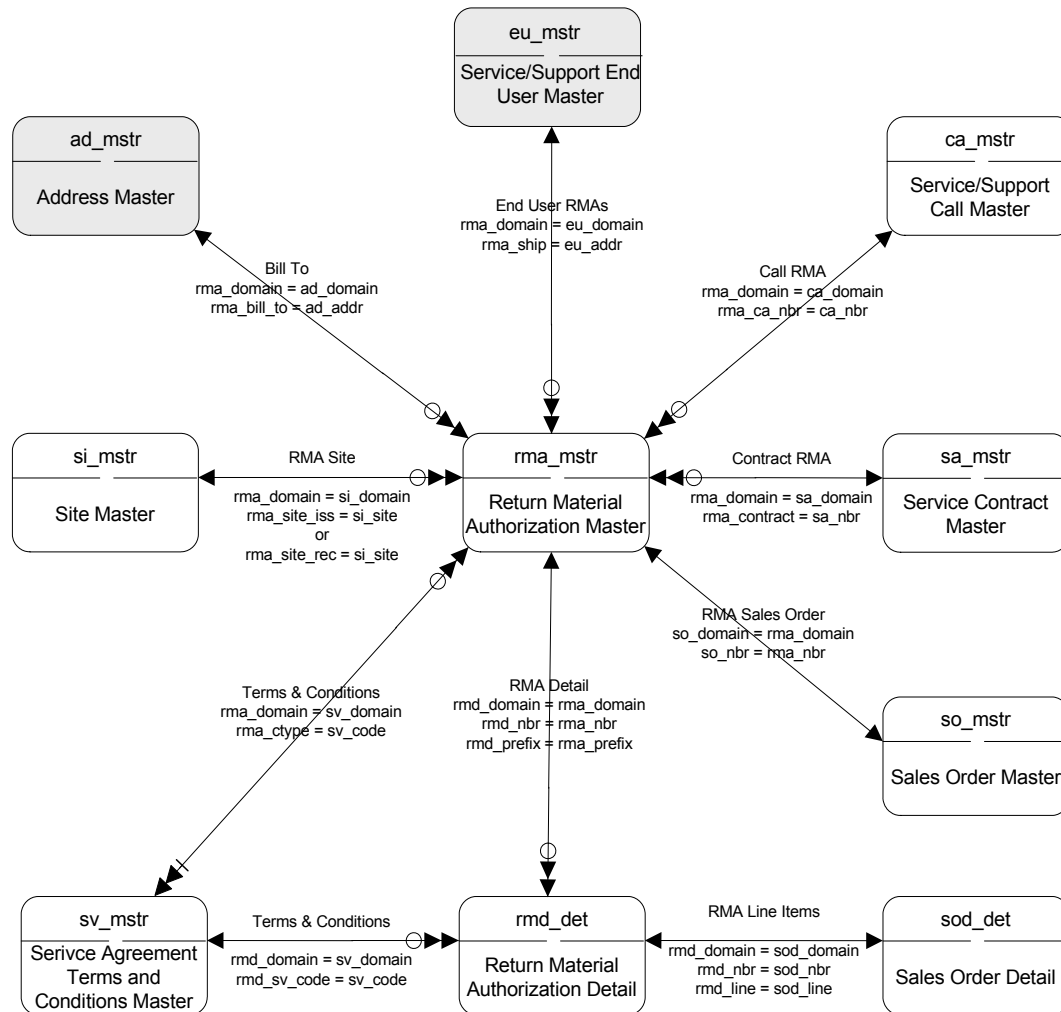
SSM – Engineers II



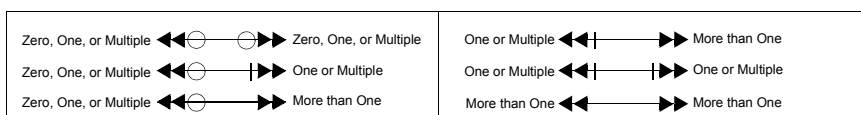
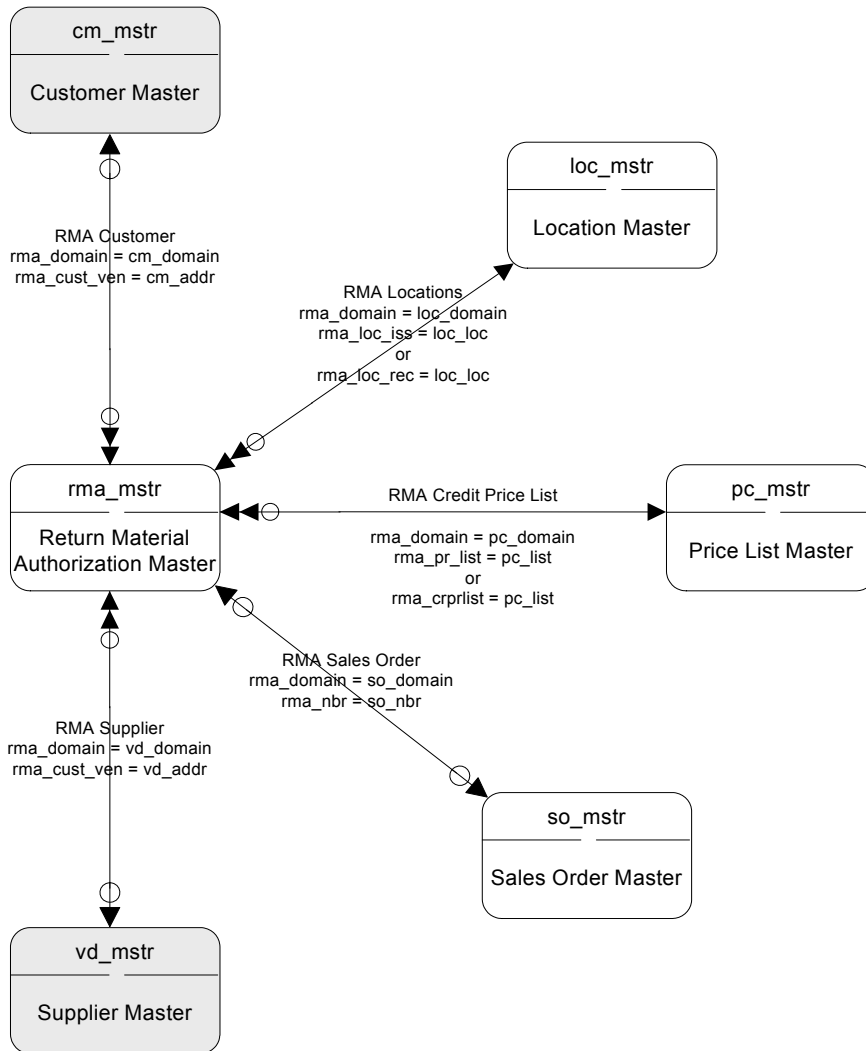
SSM – Installed Base



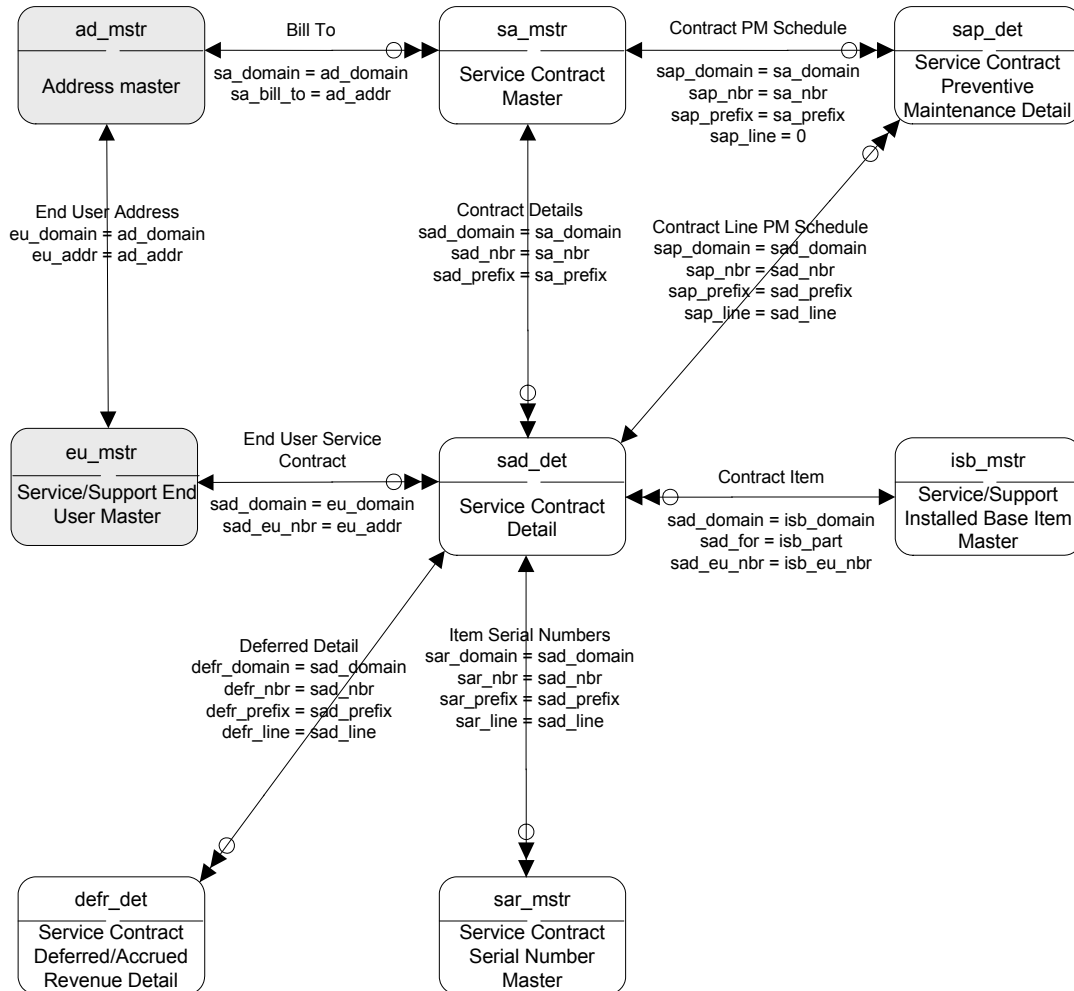
SSM – RMA I



SSM – RMA II



SSM – Service Contracts I

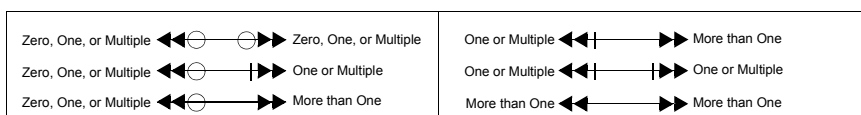
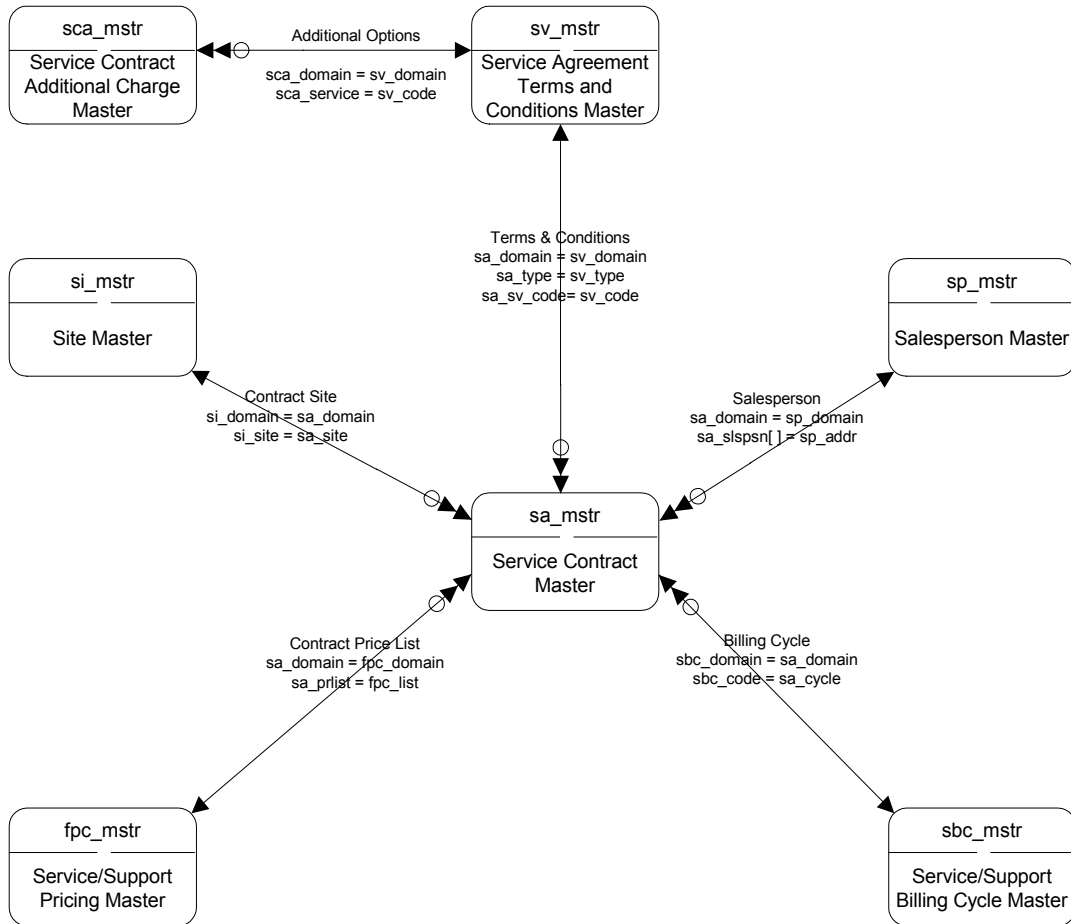


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One
 Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One
 Zero or One $\leftarrow \ominus \rightarrow \oplus$ Zero, One, or Multiple

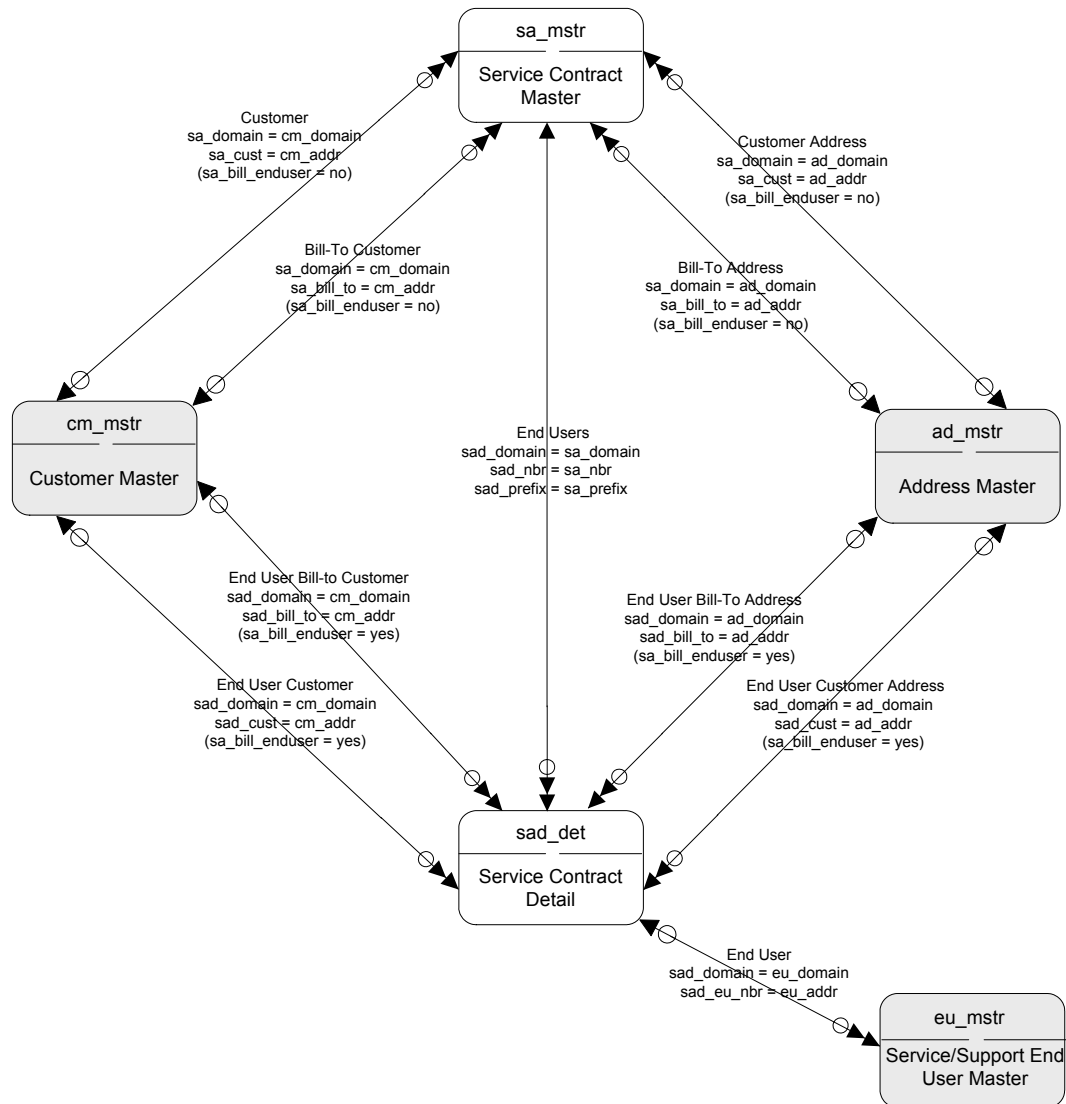
Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple
 Zero or One $\leftarrow \ominus \dashv \rightarrow$ More than One
 One and Only One $\leftarrow \ominus \dashv \rightarrow$ One and Only One

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

SSM – Service Contracts II

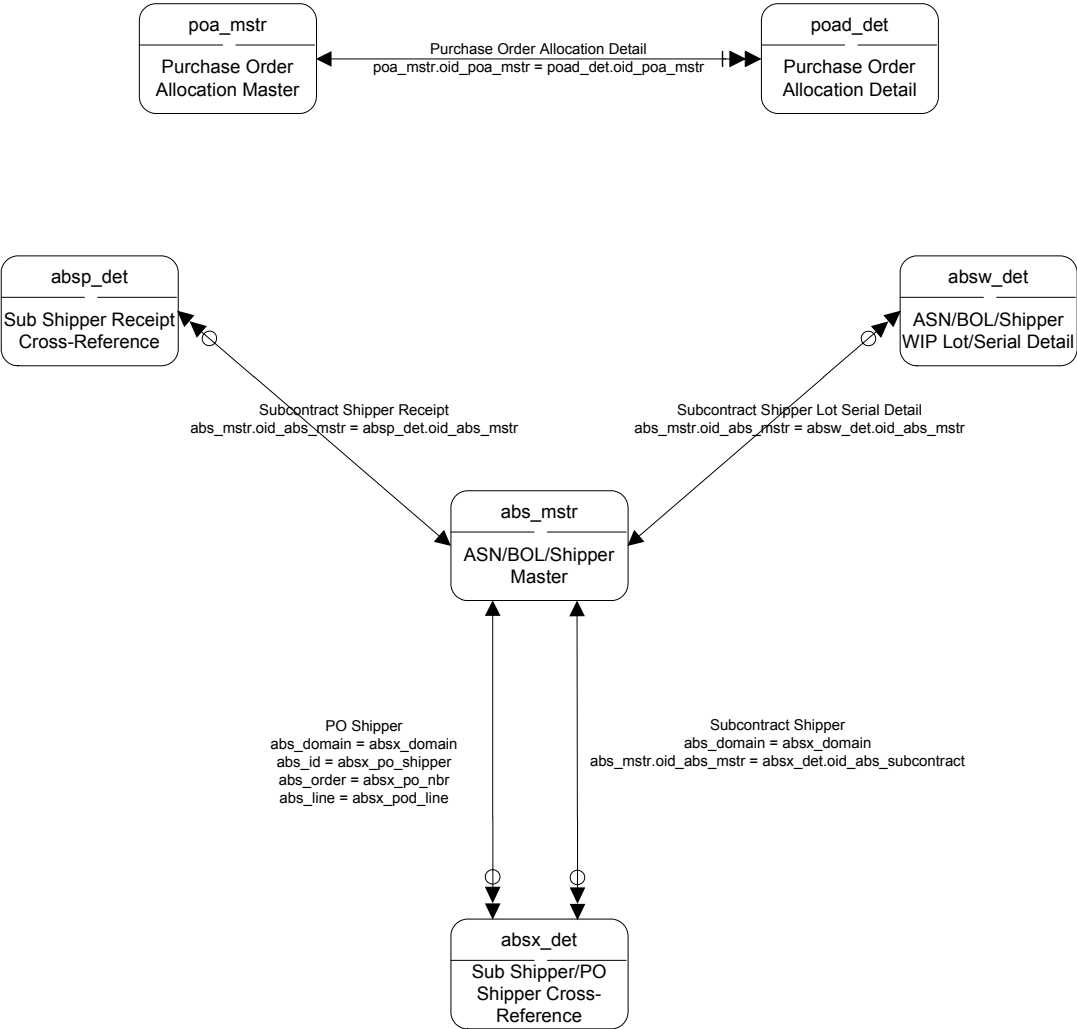


SSM – Service Contracts III



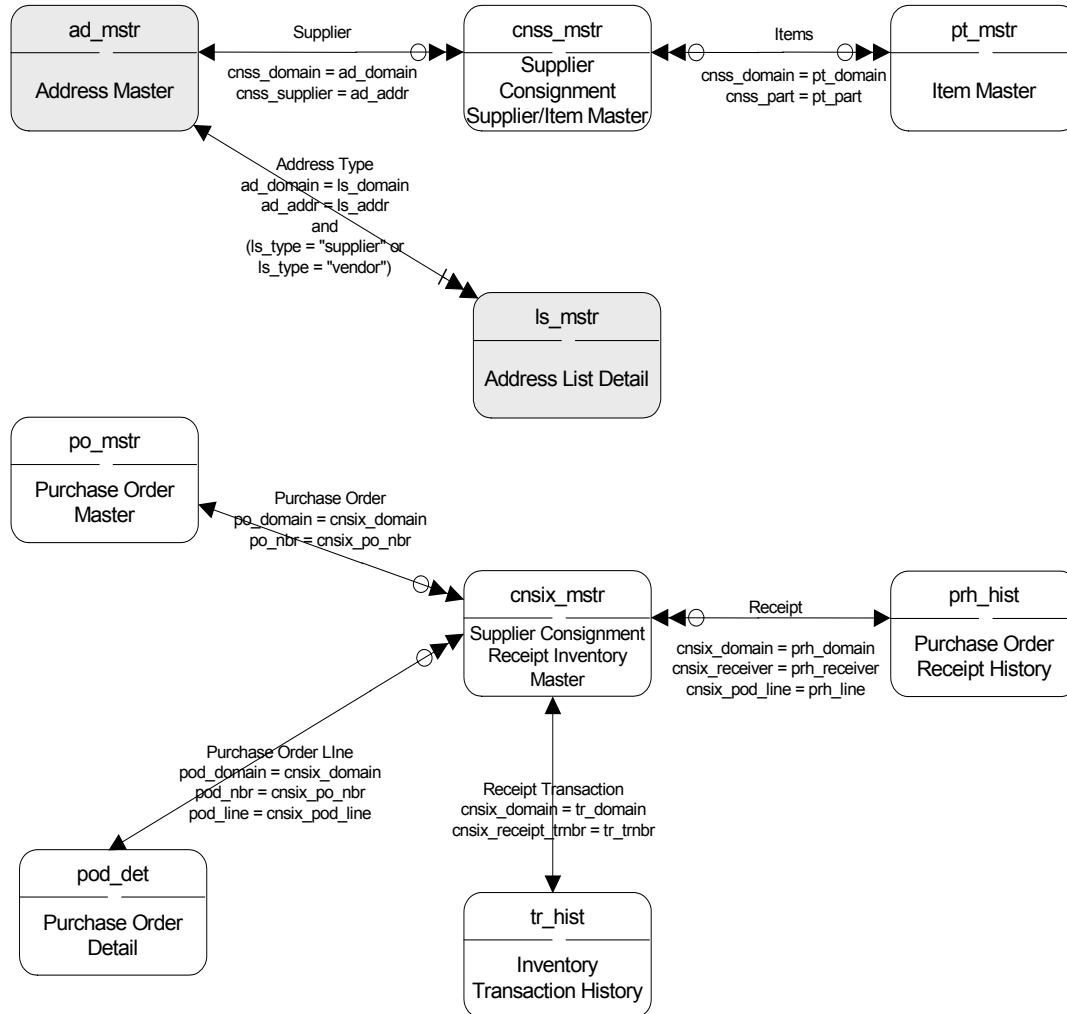
Zero or One	One and Only One	Zero or One	One or Multiple	One and Only One	Zero, One, or Multiple
Zero or One	Zero or One	Zero or One	More than One	One and Only One	One or Multiple
Zero or One	Zero, One, or Multiple	One and Only One	One and Only One	One and Only One	More than One

Subcontract Shipping



Zero, One, or Multiple	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	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One	More than One

Supplier Consignment I

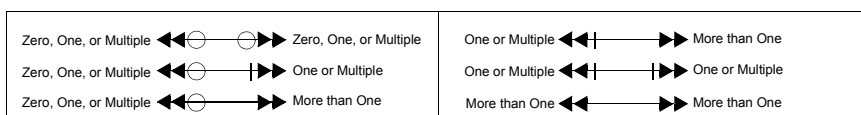
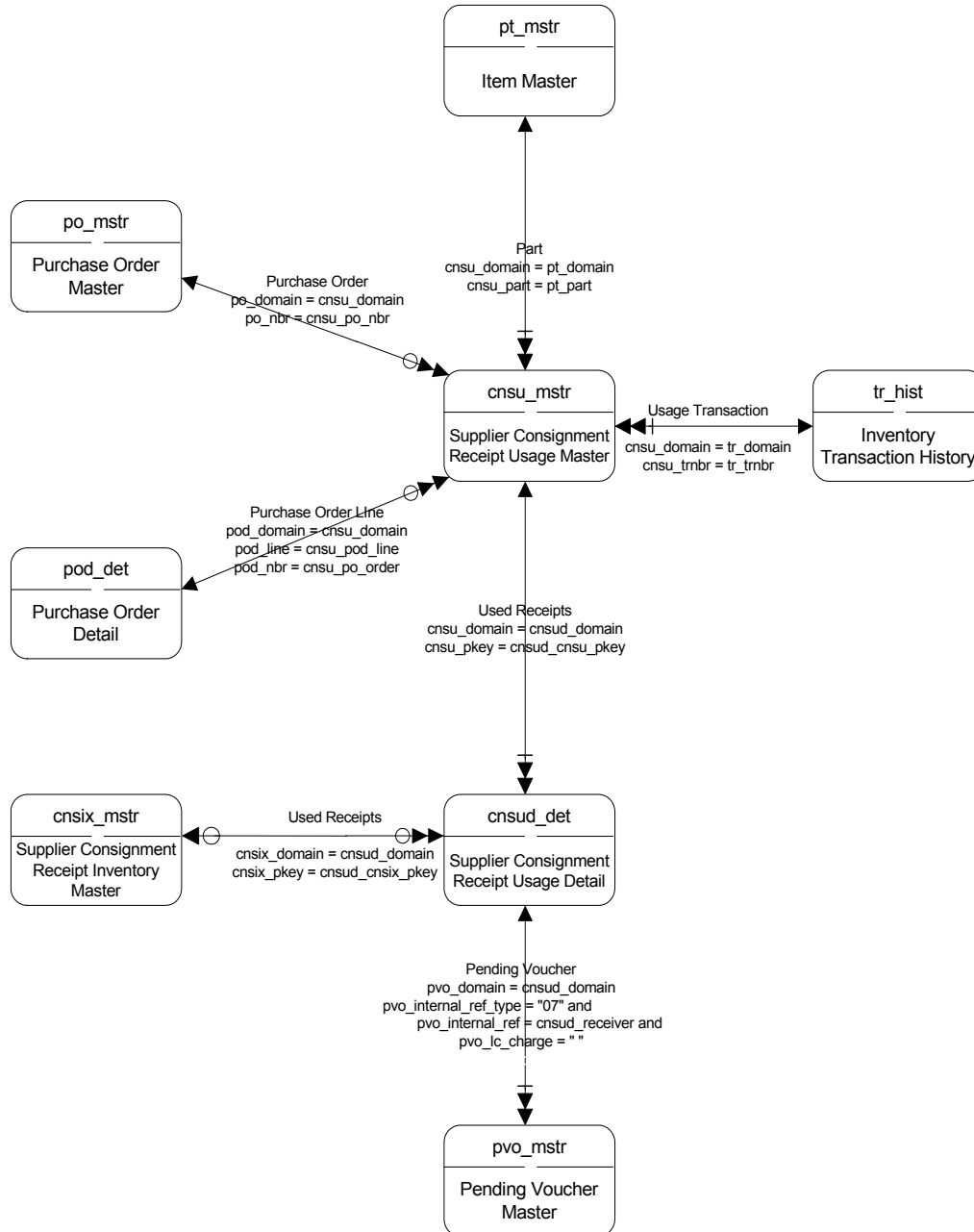


Zero or One One and Only One
 Zero or One Zero or One
 Zero or One Zero, One, or Multiple

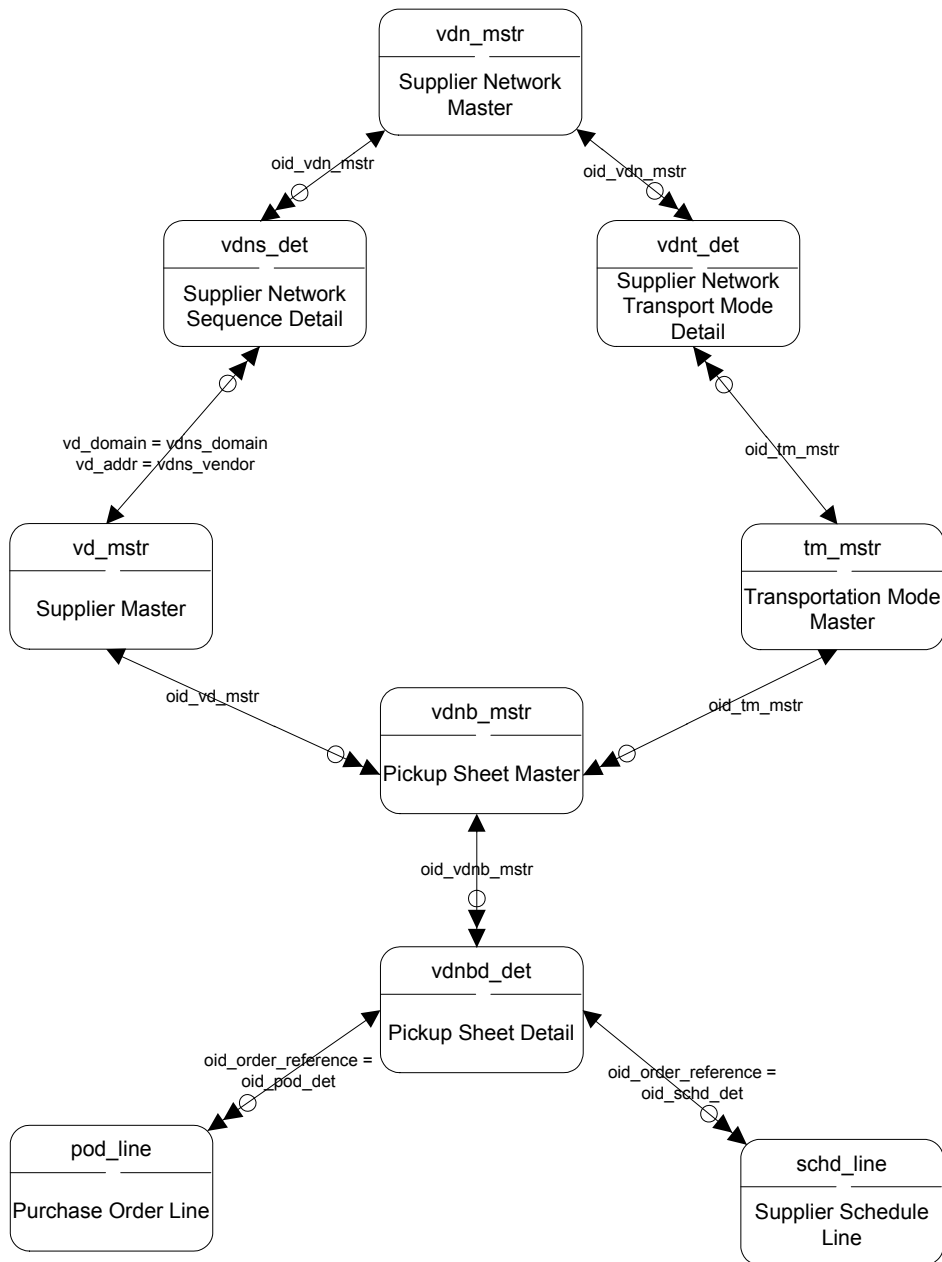
Zero or One One or Multiple
 Zero or One More than One
 One and Only One One and Only One

One and Only One Zero, One, or Multiple
 One and Only One One or Multiple
 One and Only One More than One

Supplier Consignment II

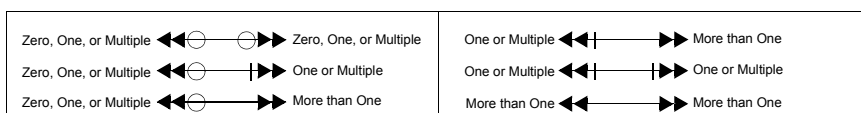
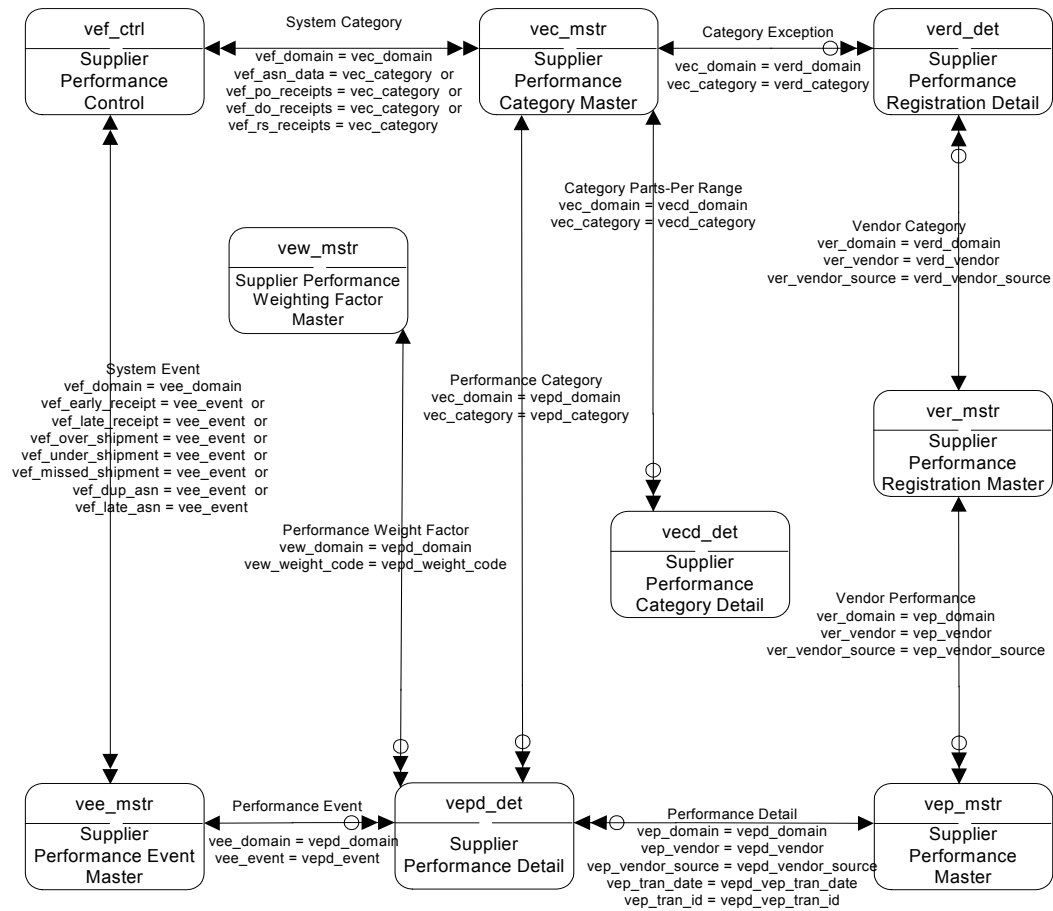


Supplier Network and Network Bill

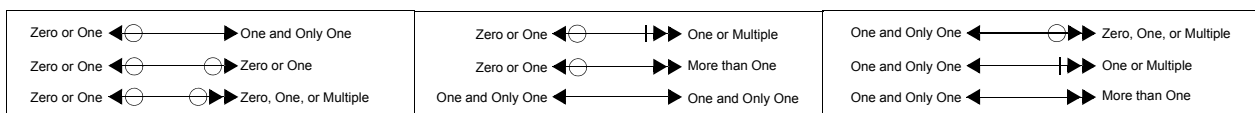
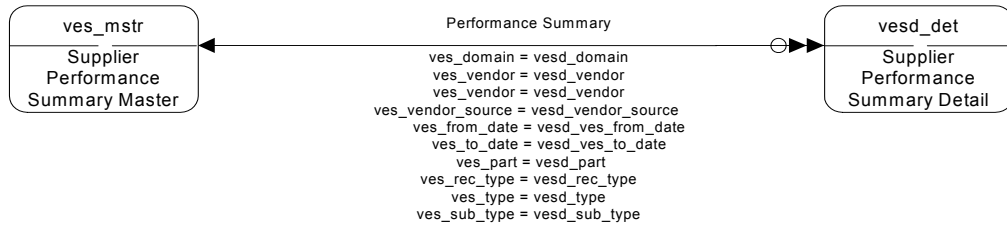


Zero or One	One and Only One	Zero or One	One or Multiple	One and Only One	Zero, One, or Multiple
Zero or One	Zero or One	Zero or One	More than One	One and Only One	One or Multiple
Zero or One	Zero, One, or Multiple	One and Only One	One and Only One	One and Only One	More than One

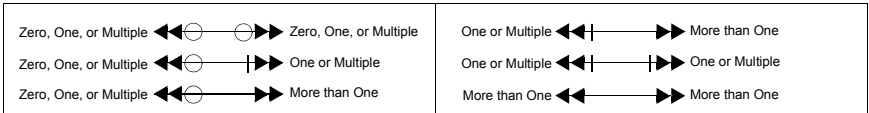
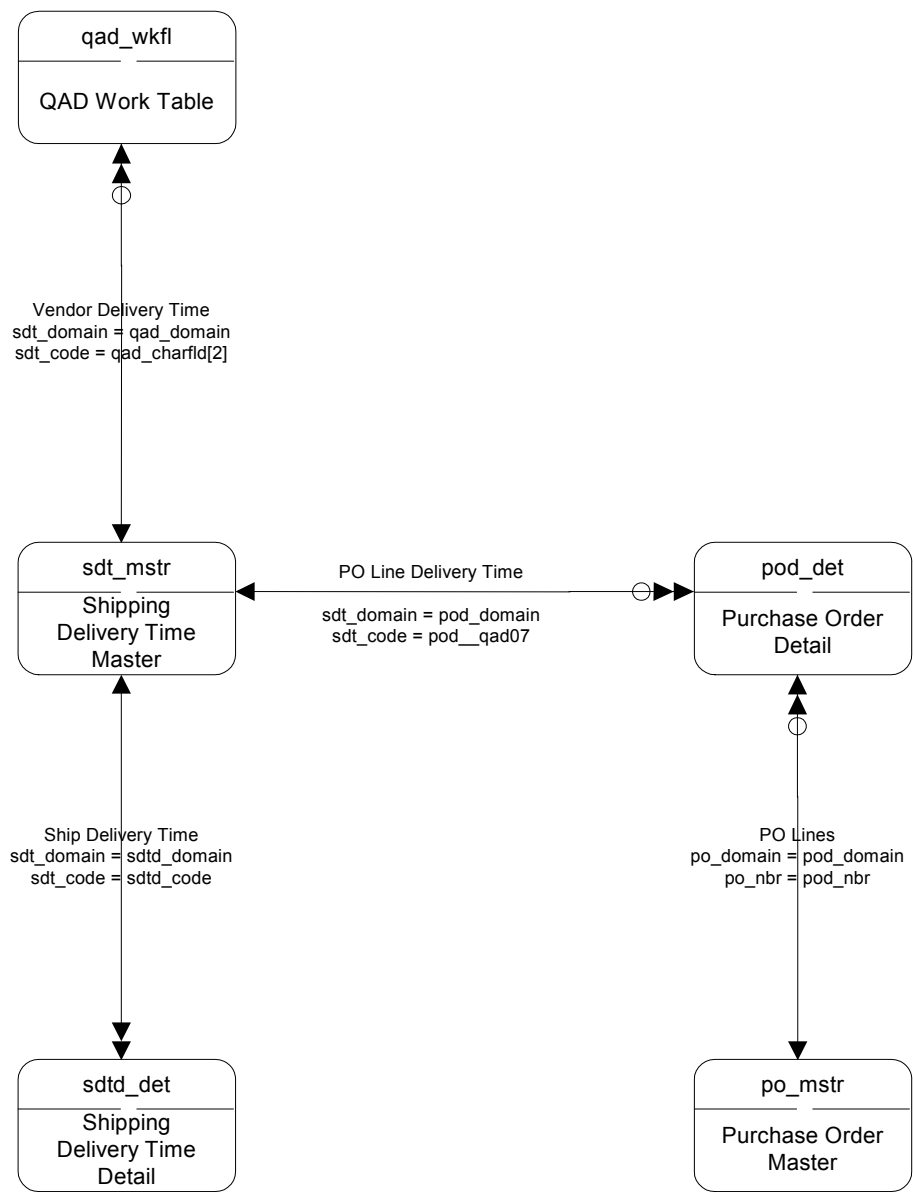
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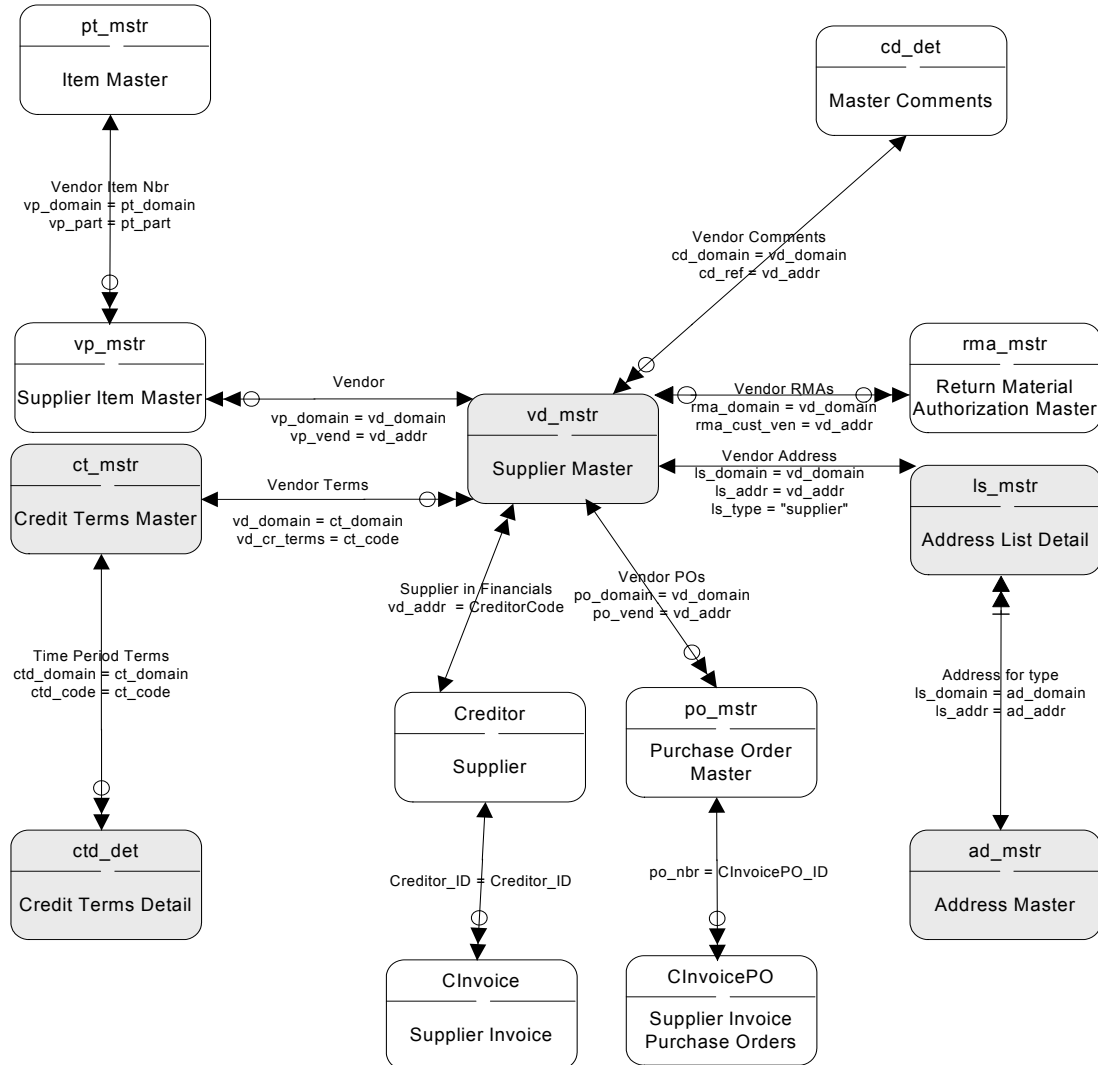
Supplier Performance II





















Supplier Shipping Schedules

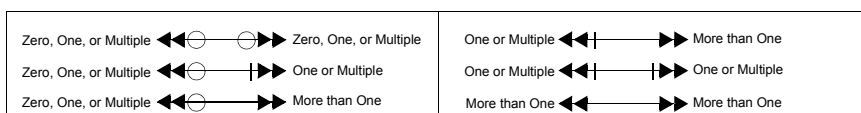
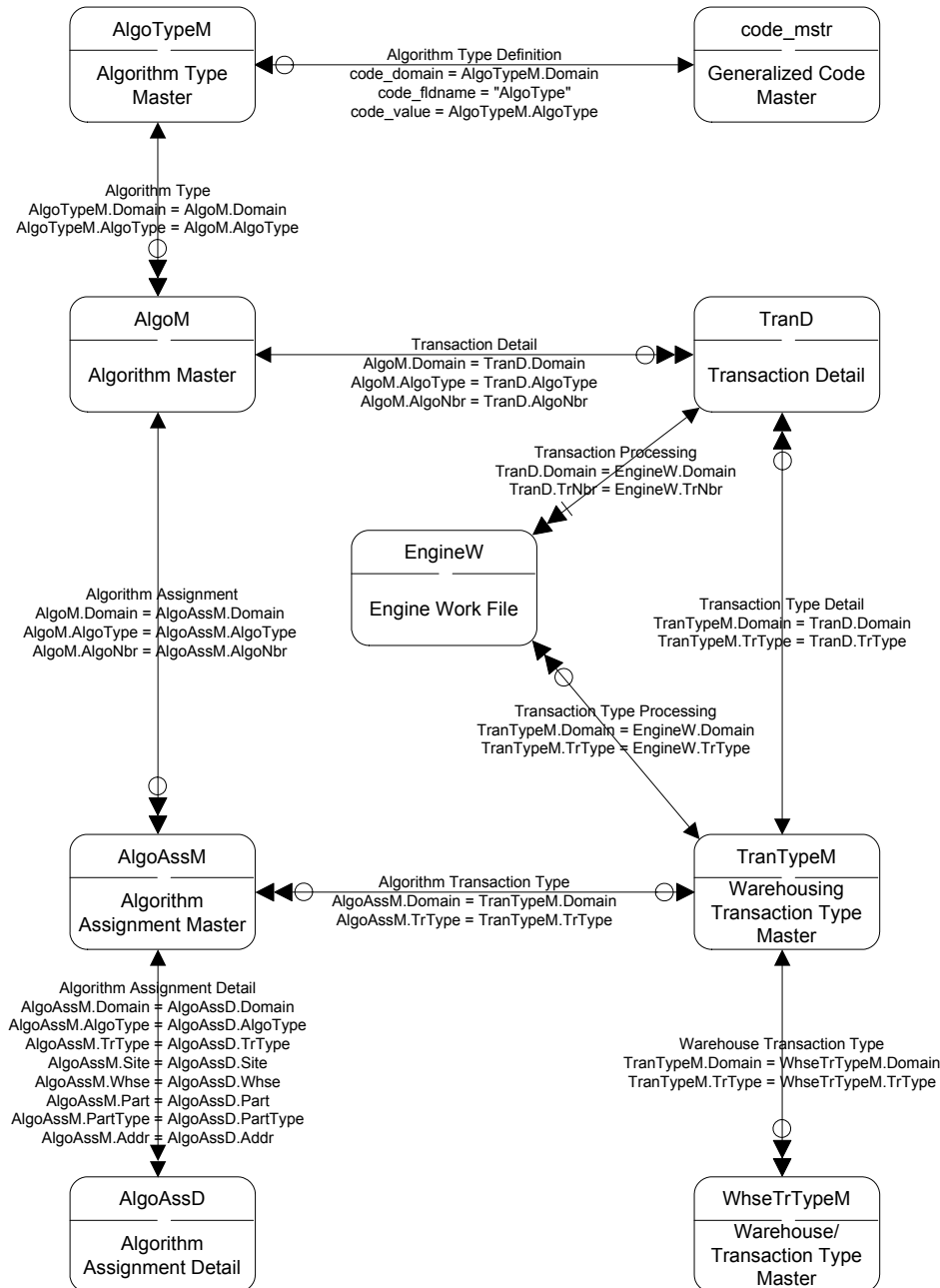


Vendors (Suppliers)

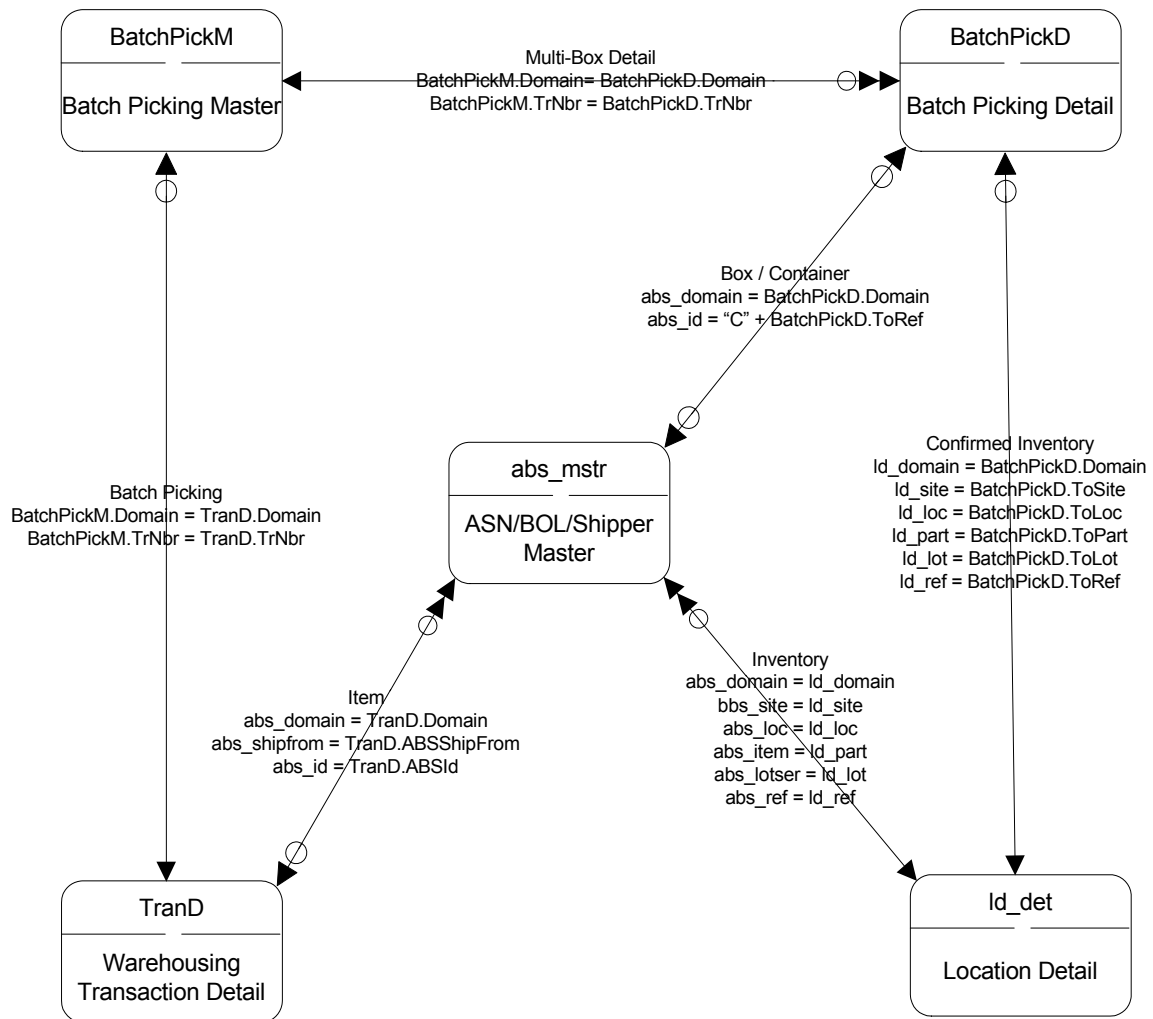




















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Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 

Warehouse – Algorithms and Engine Processing

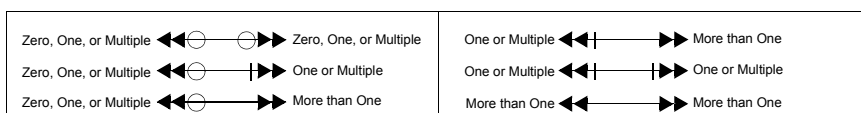
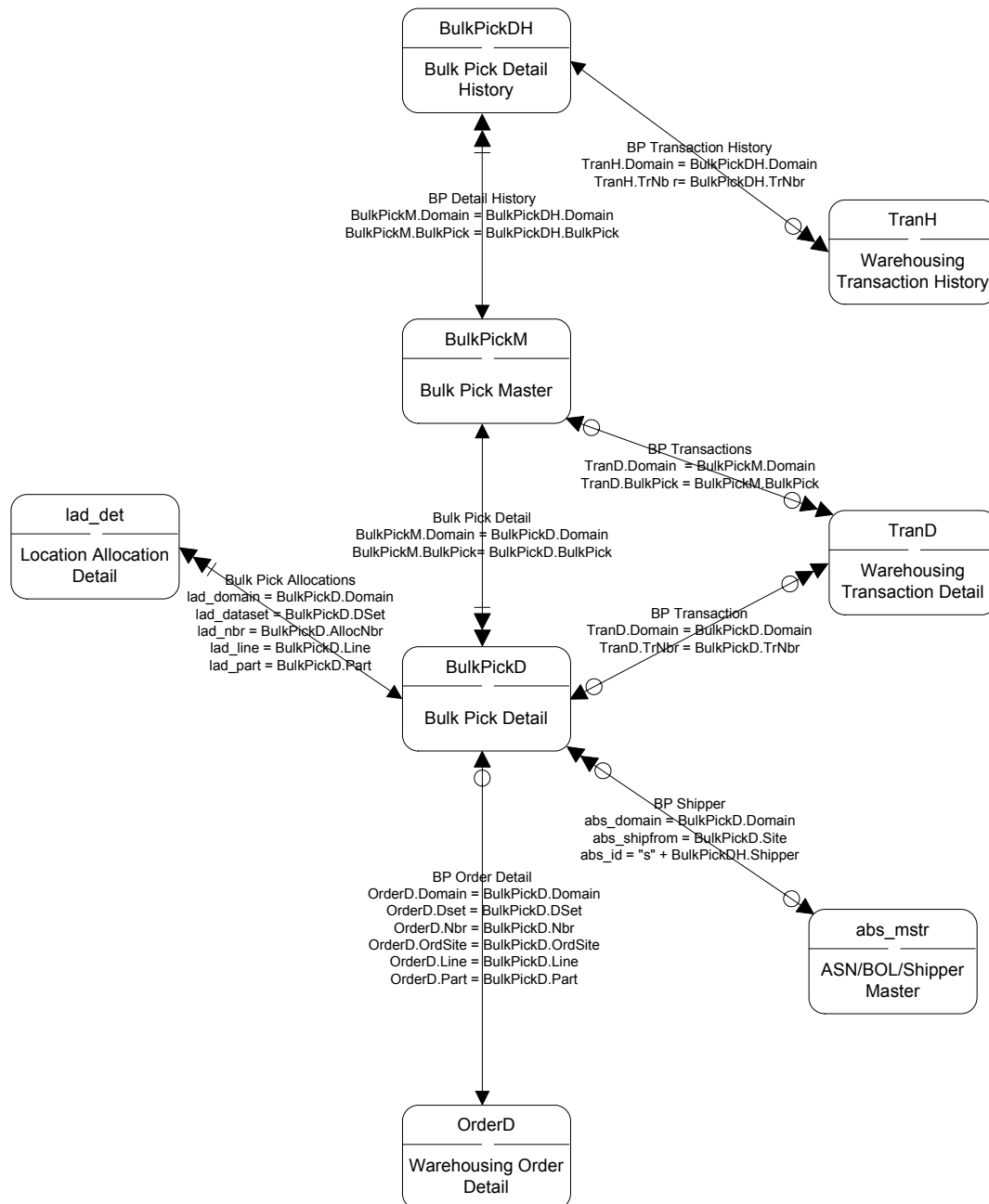


Warehouse – Batch Picking

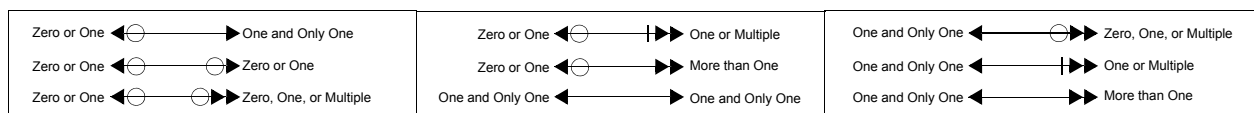
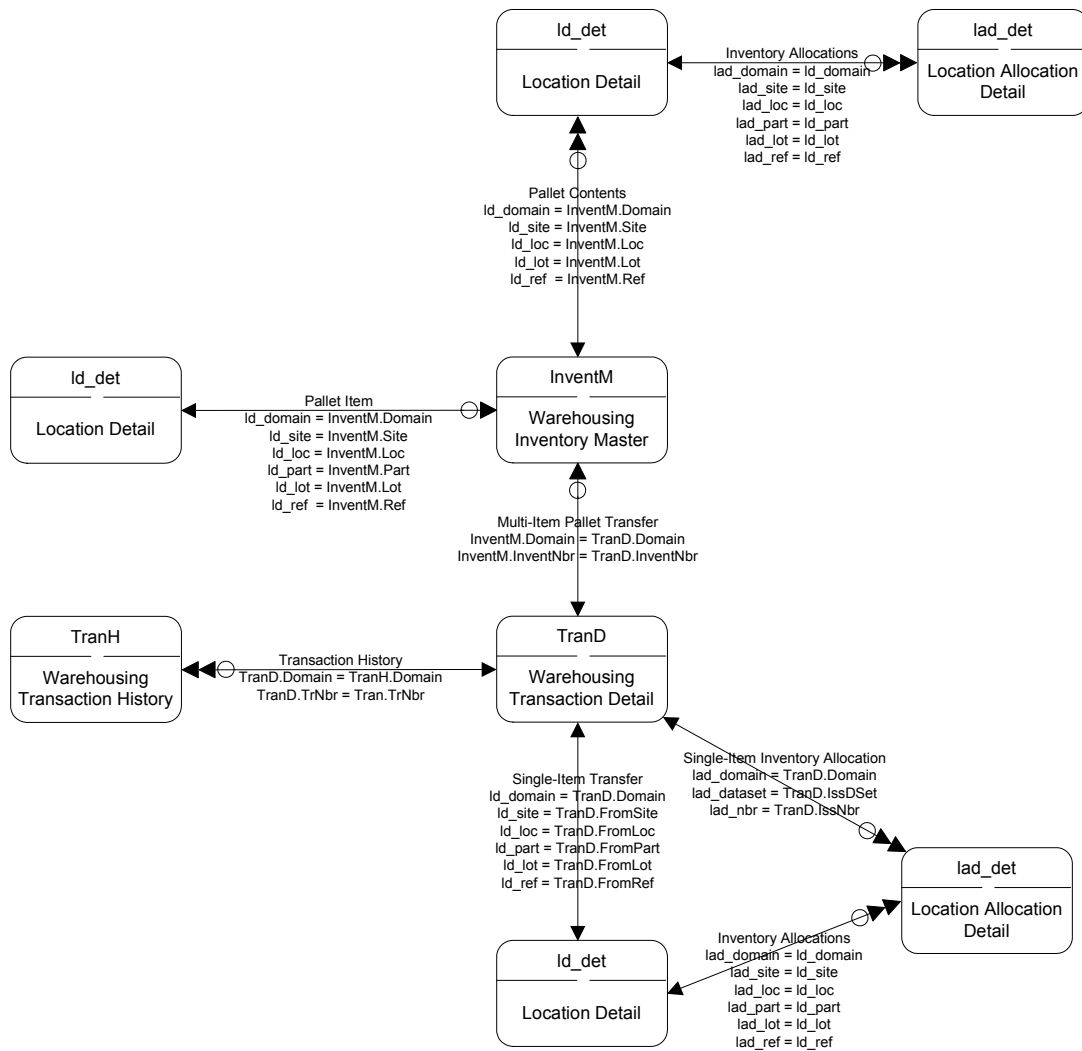


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

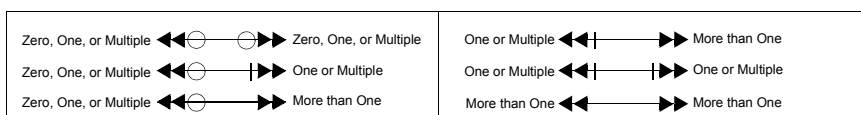
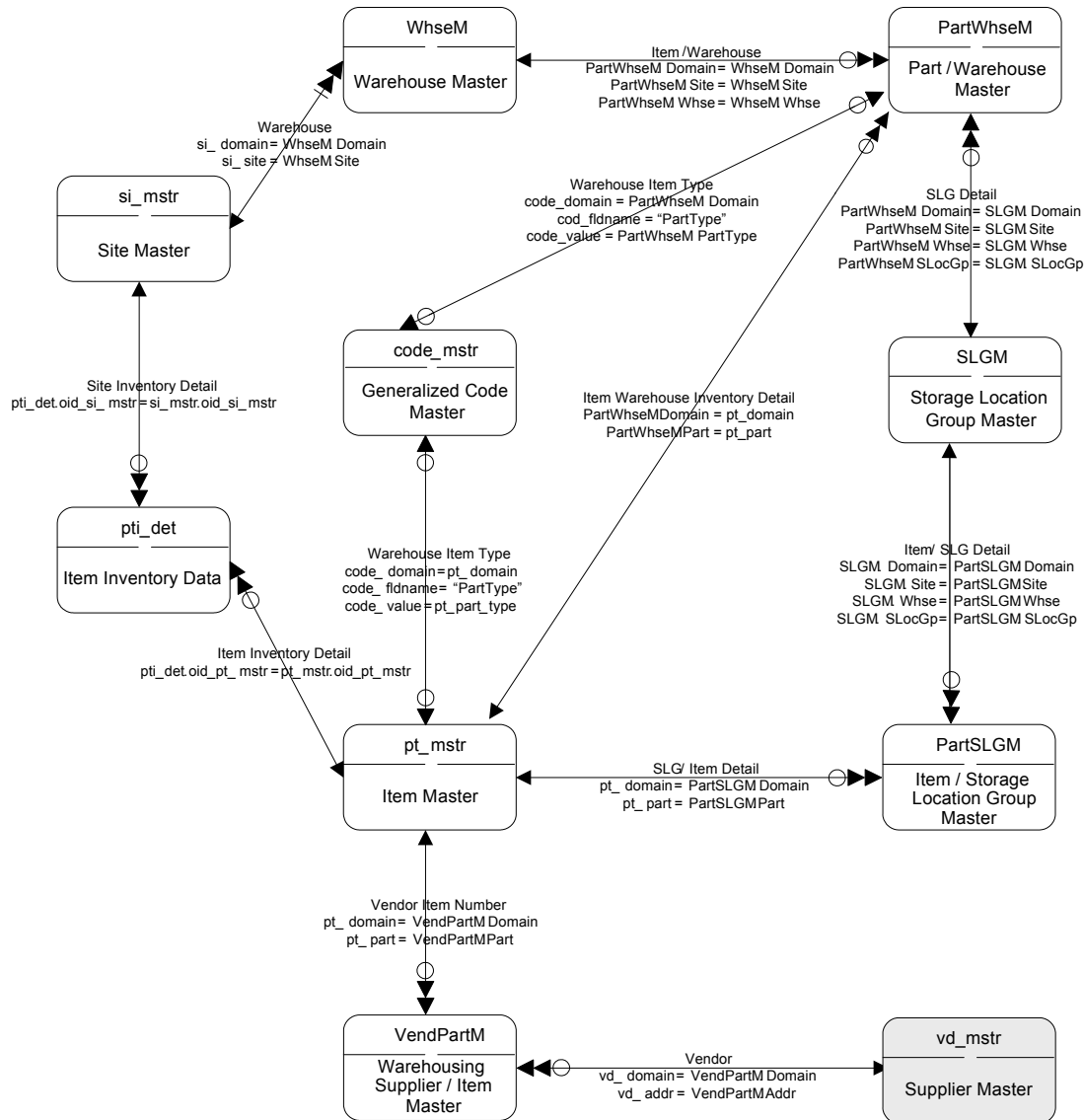
Warehouse – Bulk Picking



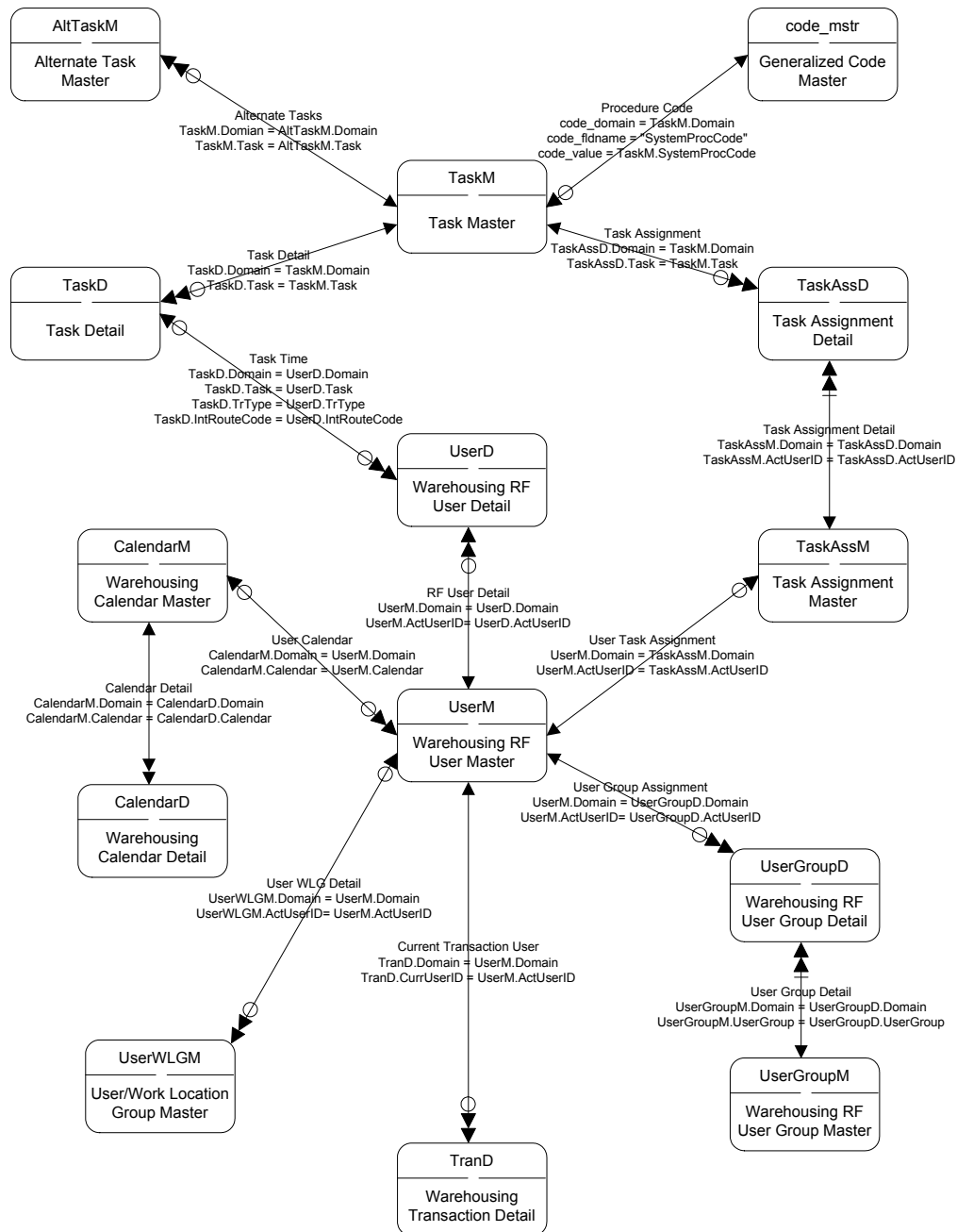
Warehouse – Inventory Transactions


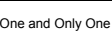

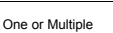
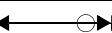


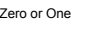

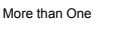
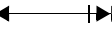


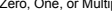

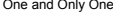

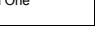


Warehouse – Items

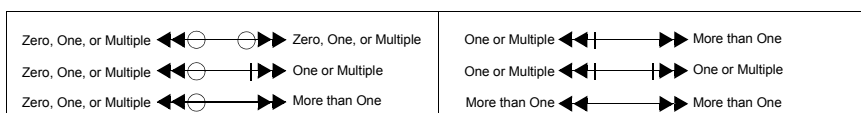
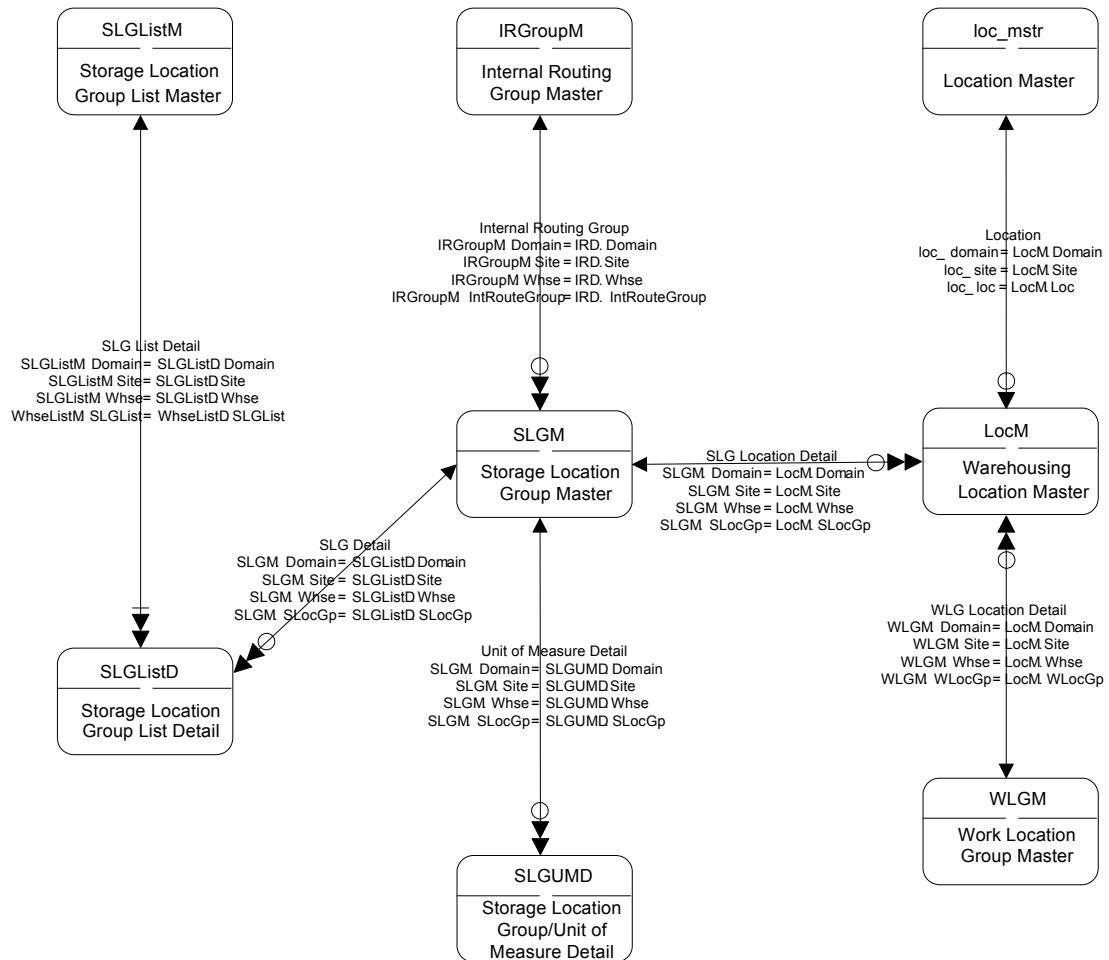


Warehouse – Labor

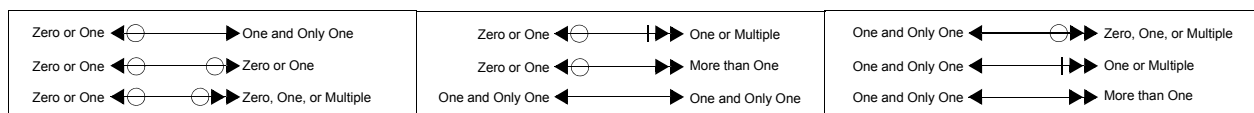
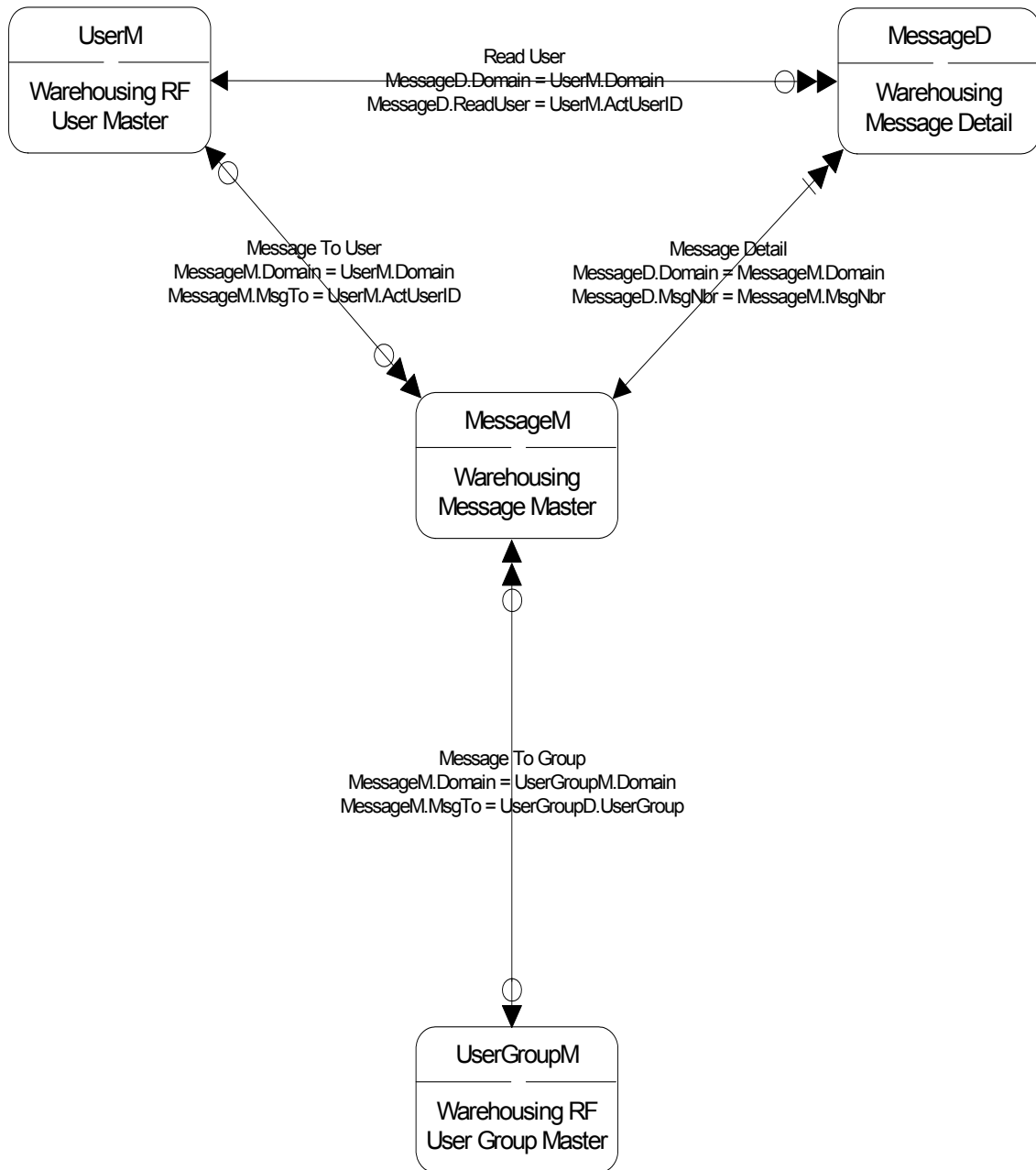


Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 

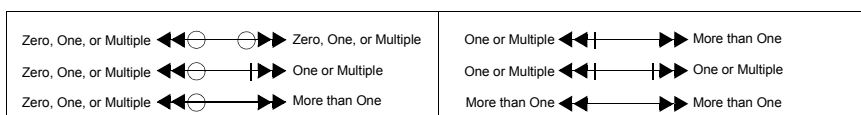
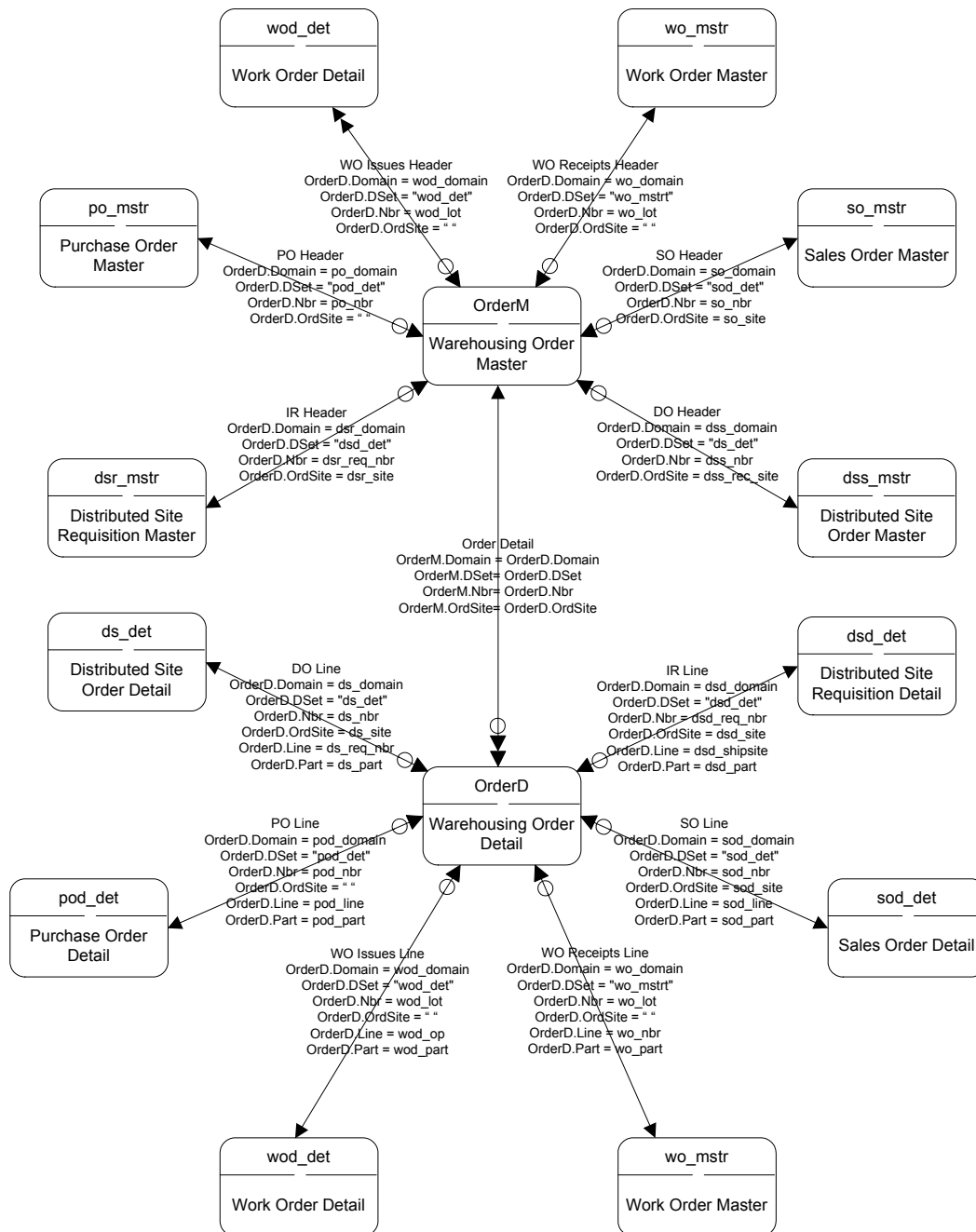
Warehouse – Locations



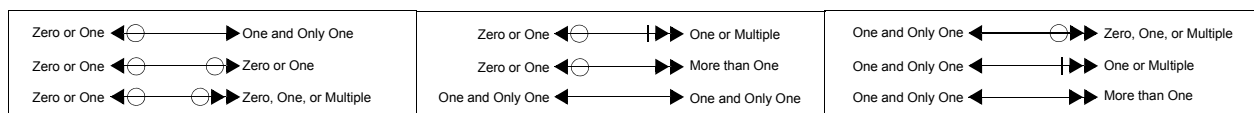
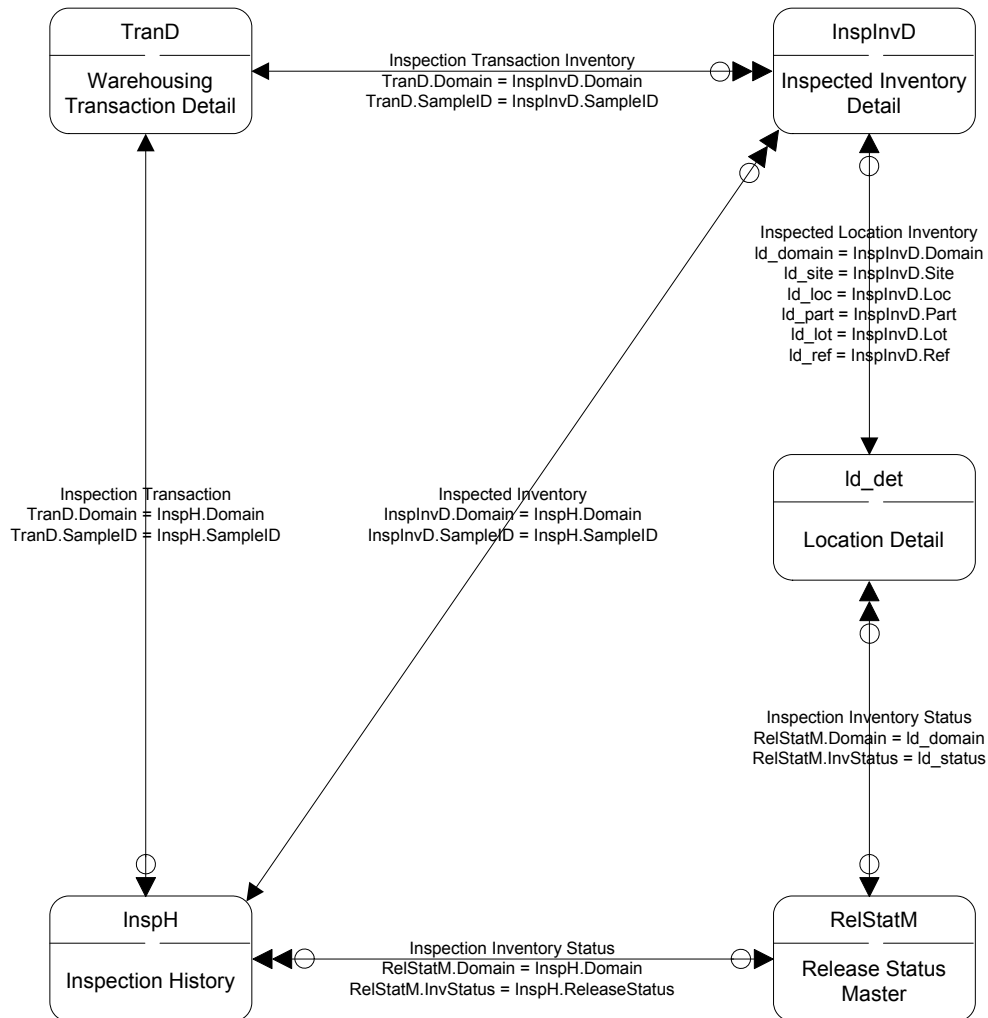
Warehouse – Messaging



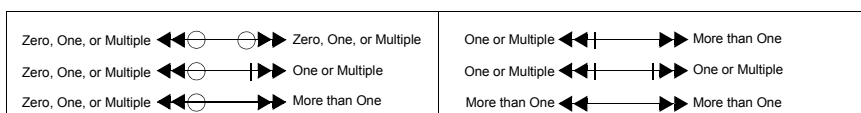
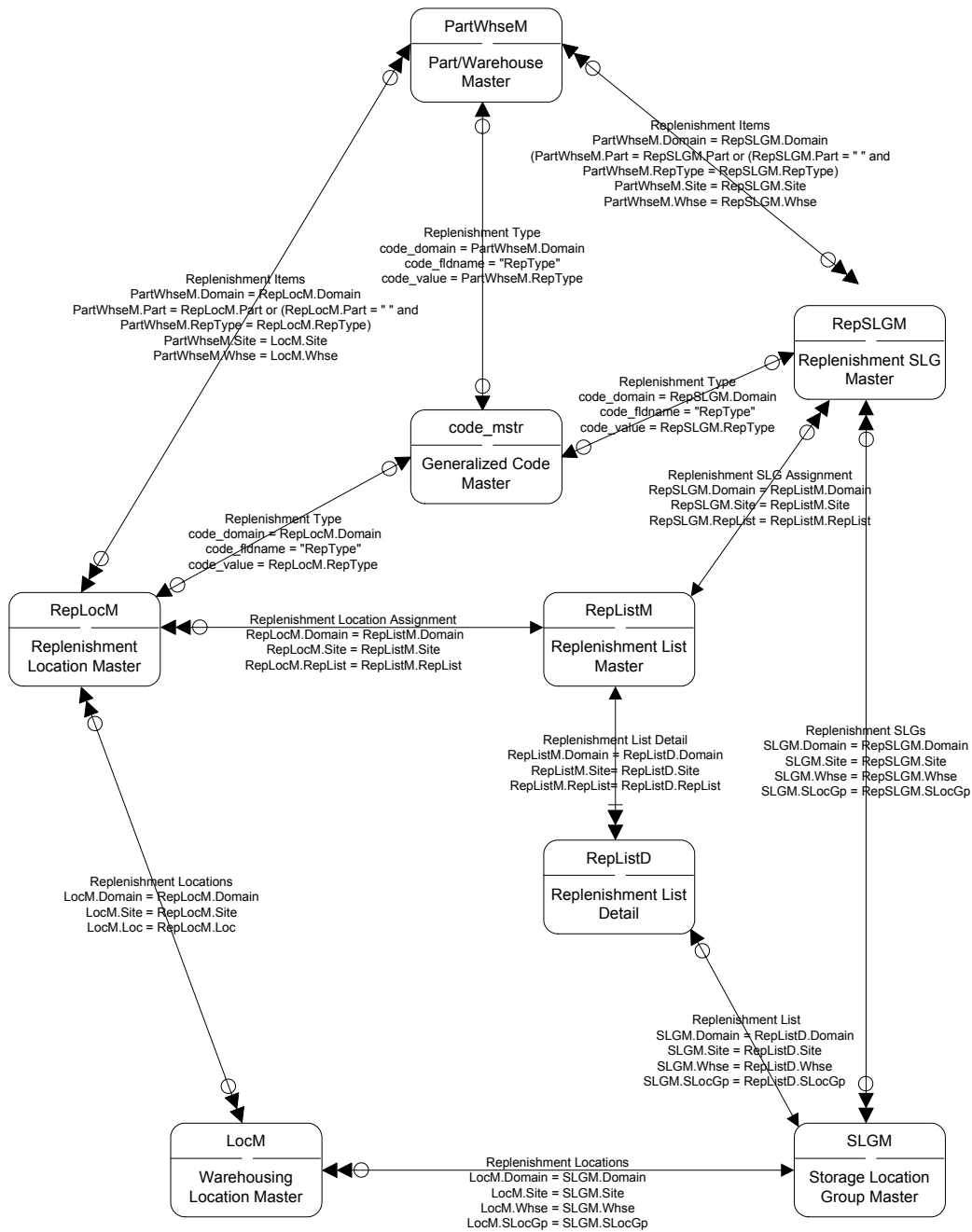
Warehouse – Orders



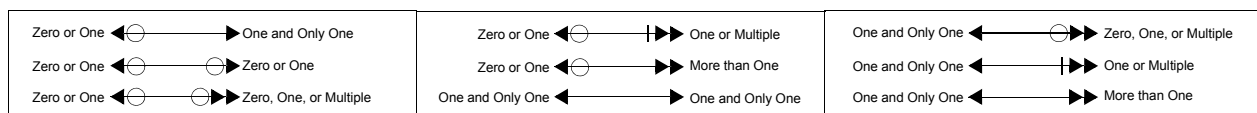
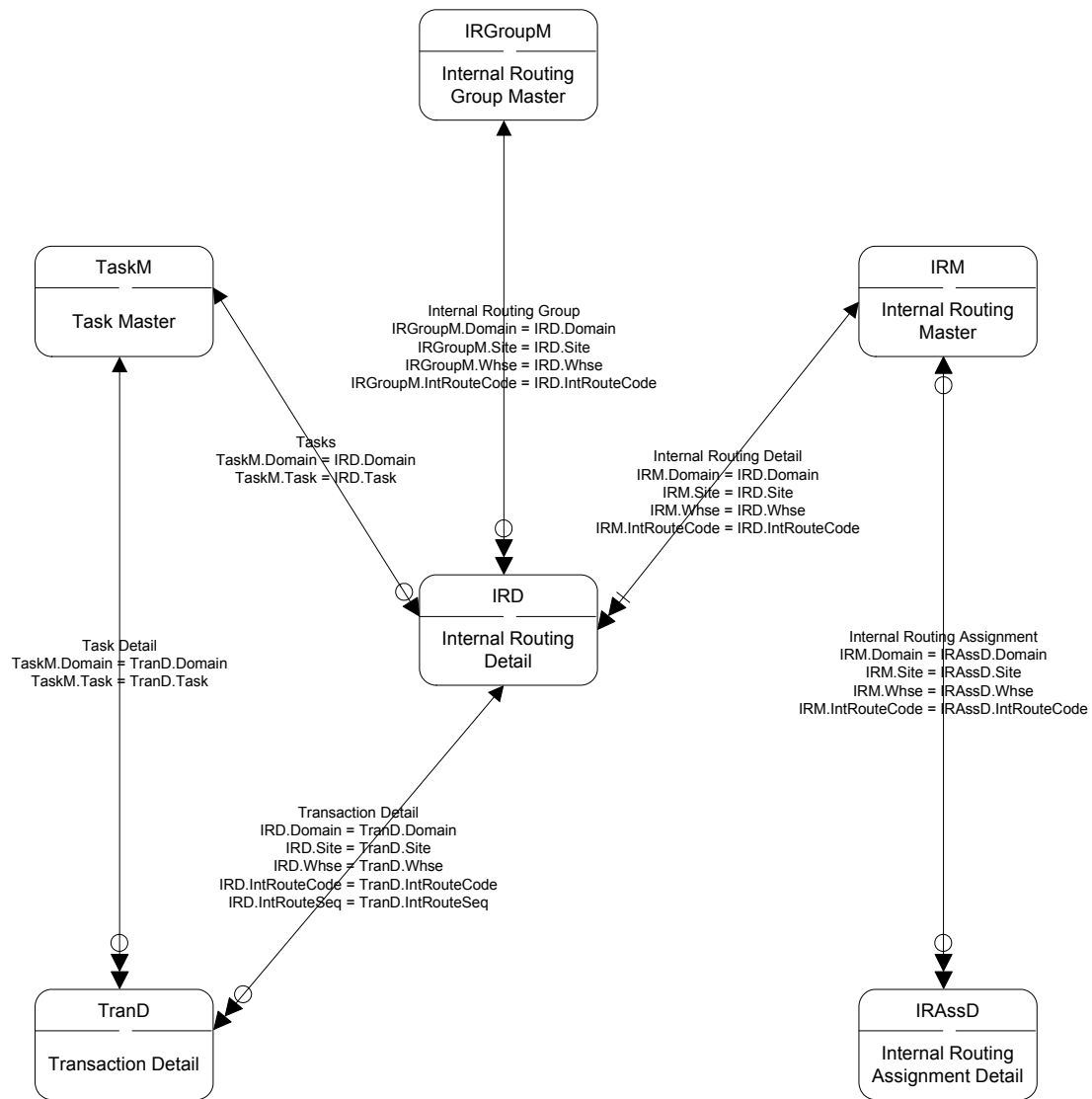
Warehouse – Quality Inspection



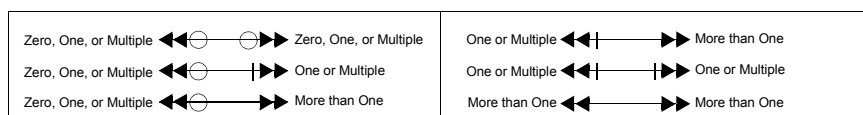
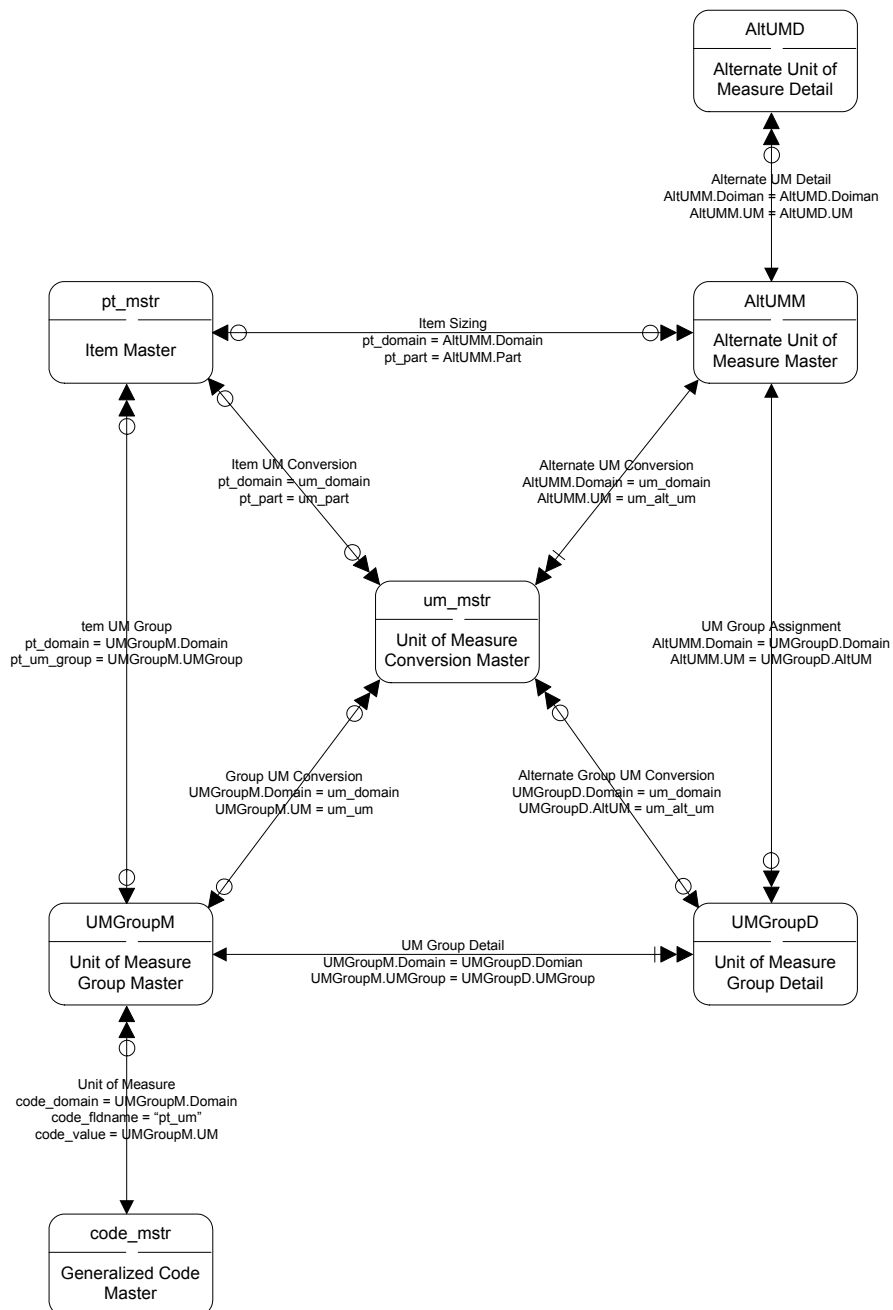
Warehouse – Replenishment



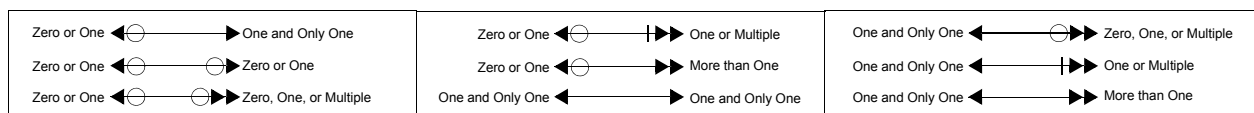
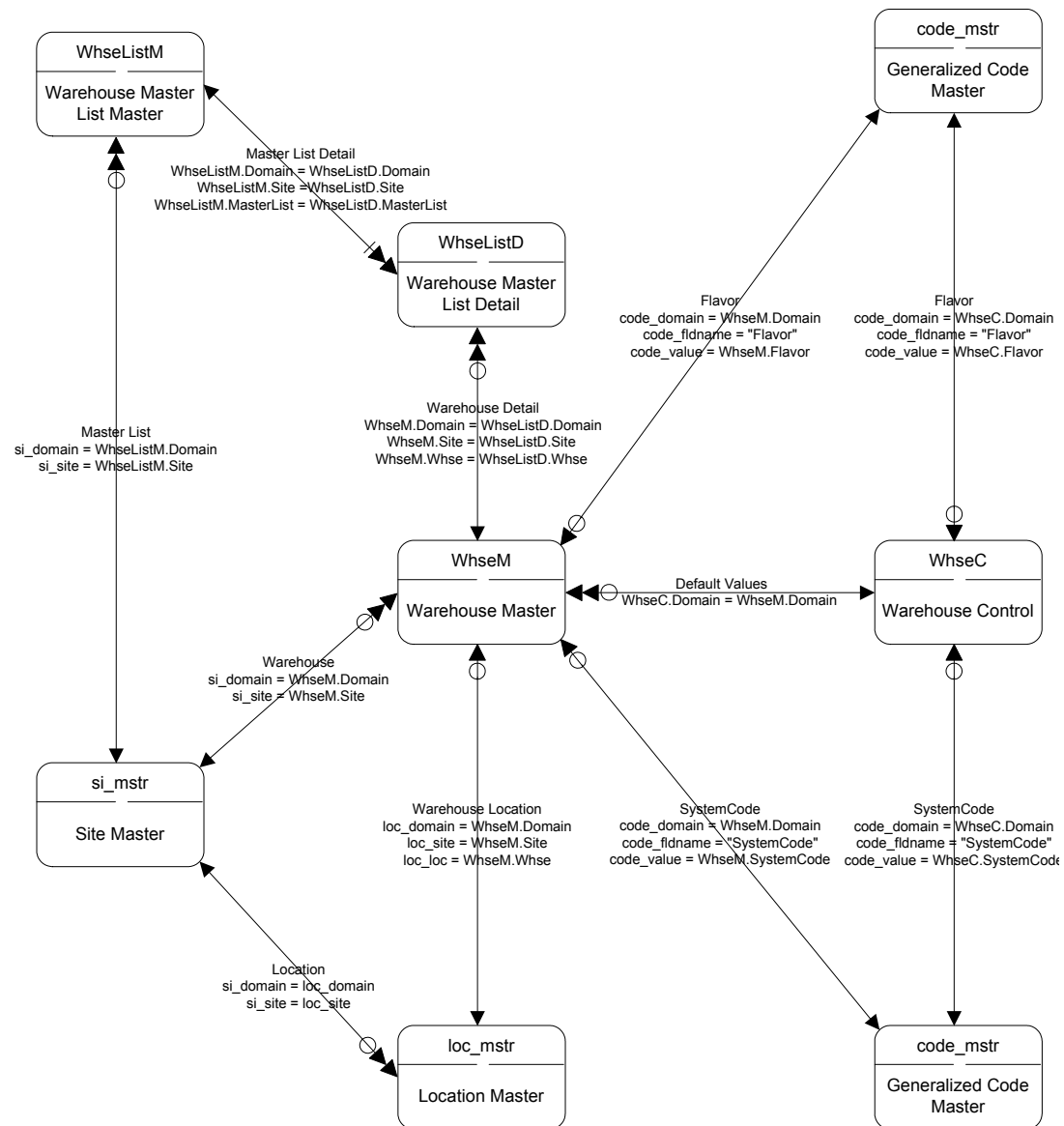
Warehouse – Routings



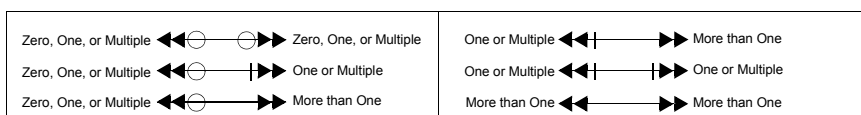
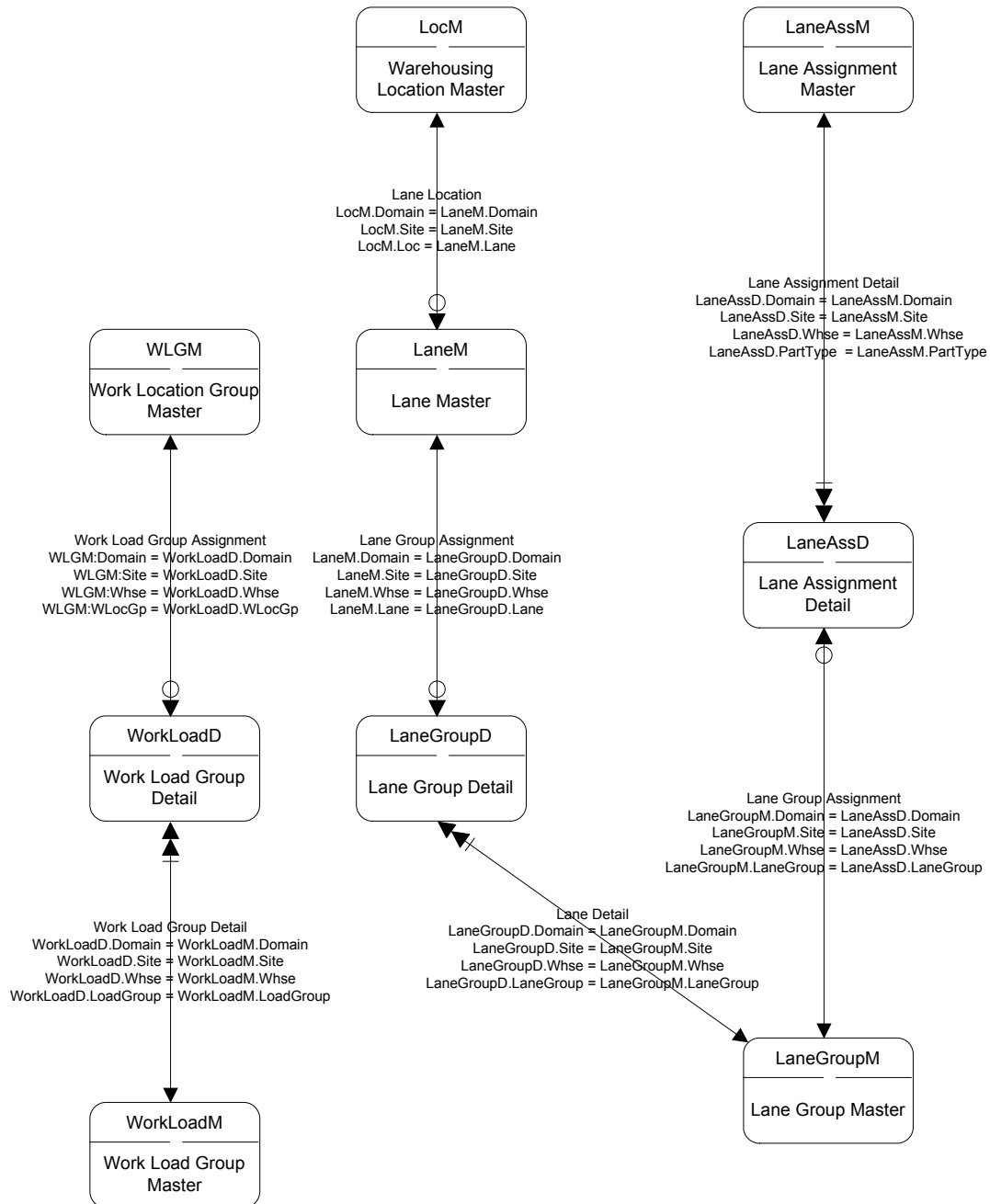
Warehouse – Sizing



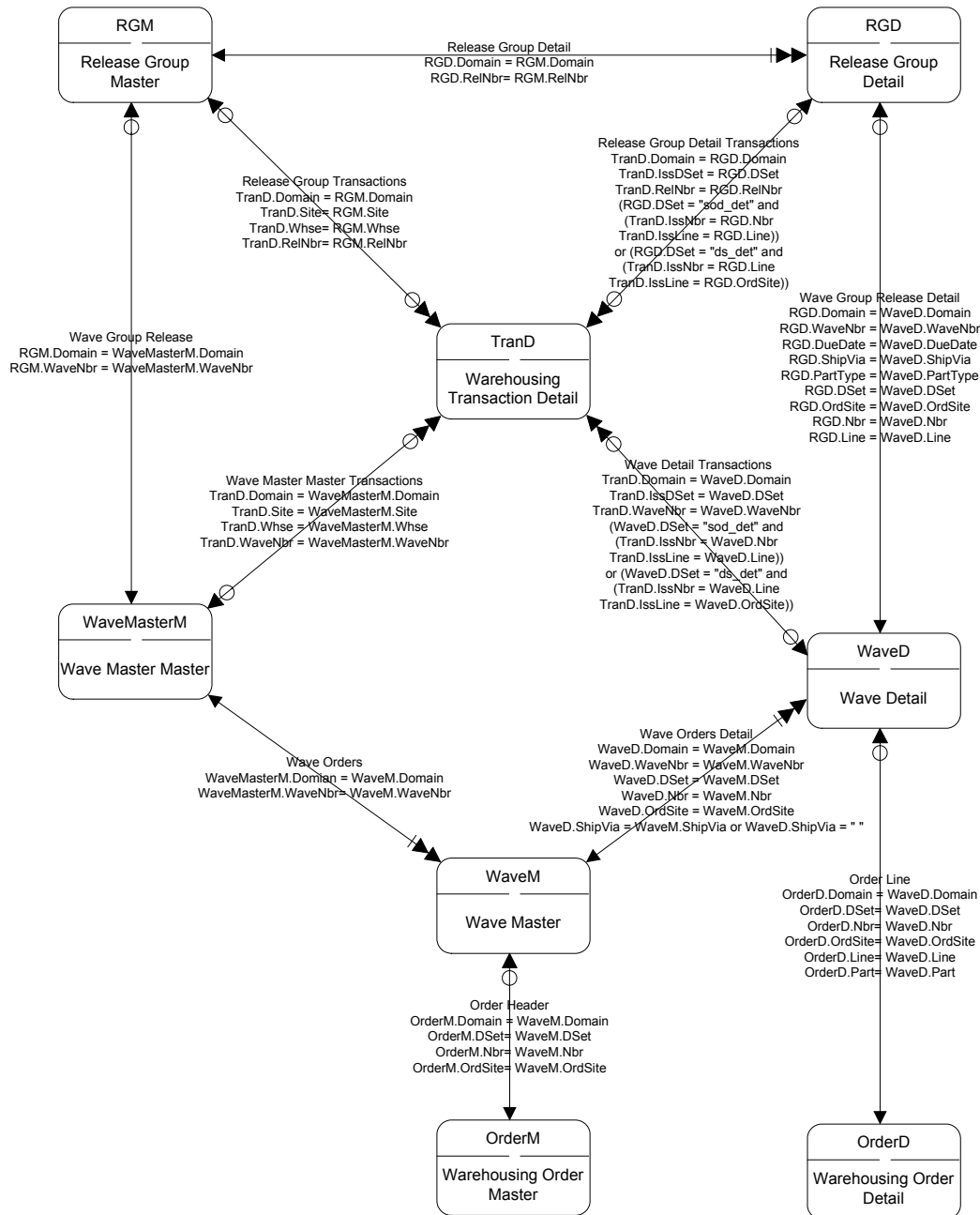
Warehouse – Warehouses



Warehouse – Wave Planning I



Warehouse – Wave Planning II

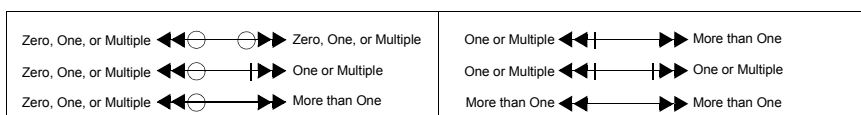
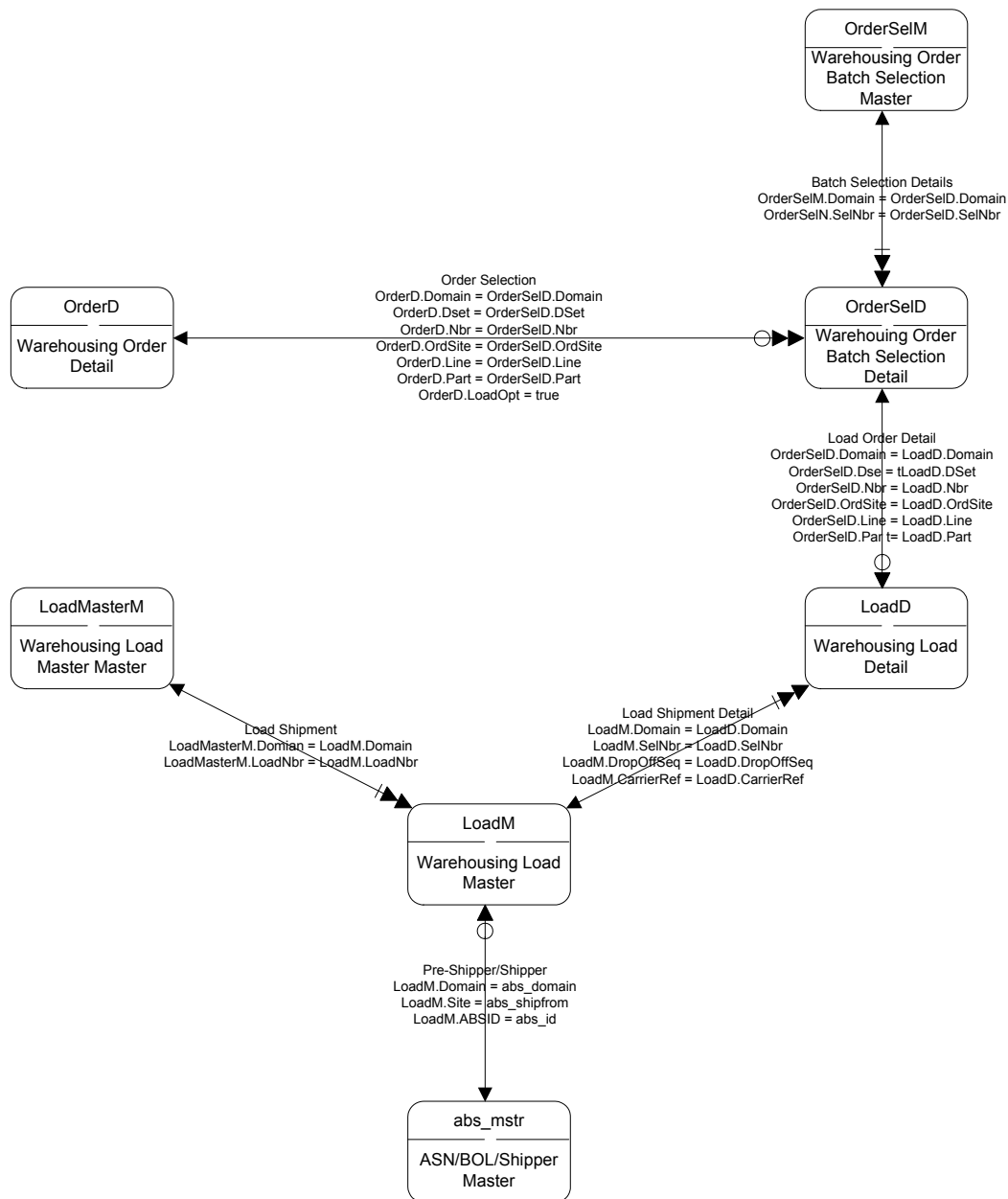


Zero or One One and Only One
 Zero or One Zero or One
 Zero or One Zero, One, or Multiple

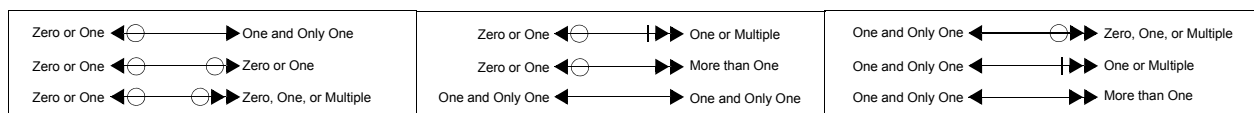
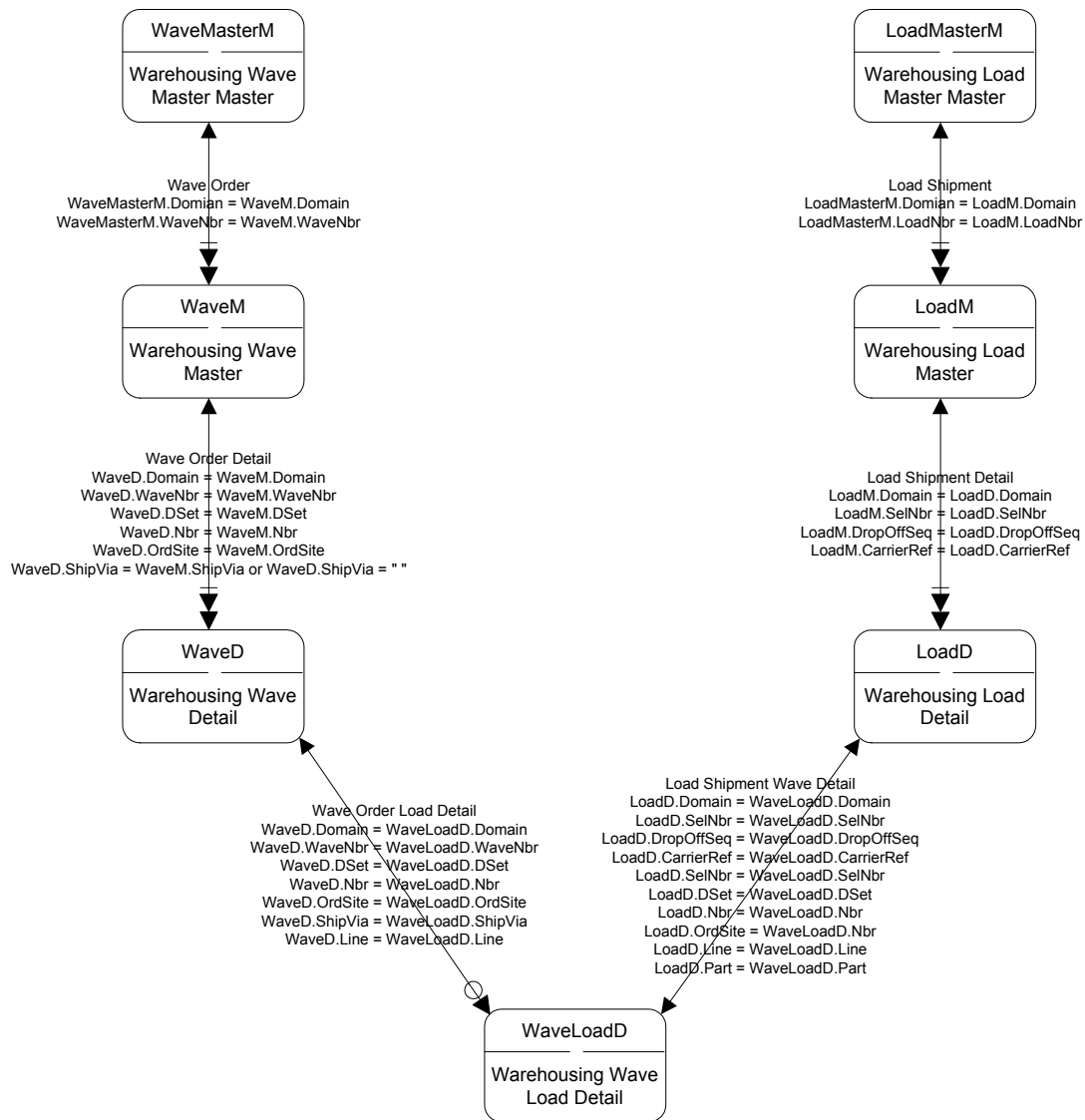
Zero or One One or Multiple
 Zero or One More than One
 One and Only One One and Only One

One and Only One Zero, One, or Multiple
 One and Only One One or Multiple
 One and Only One More than One

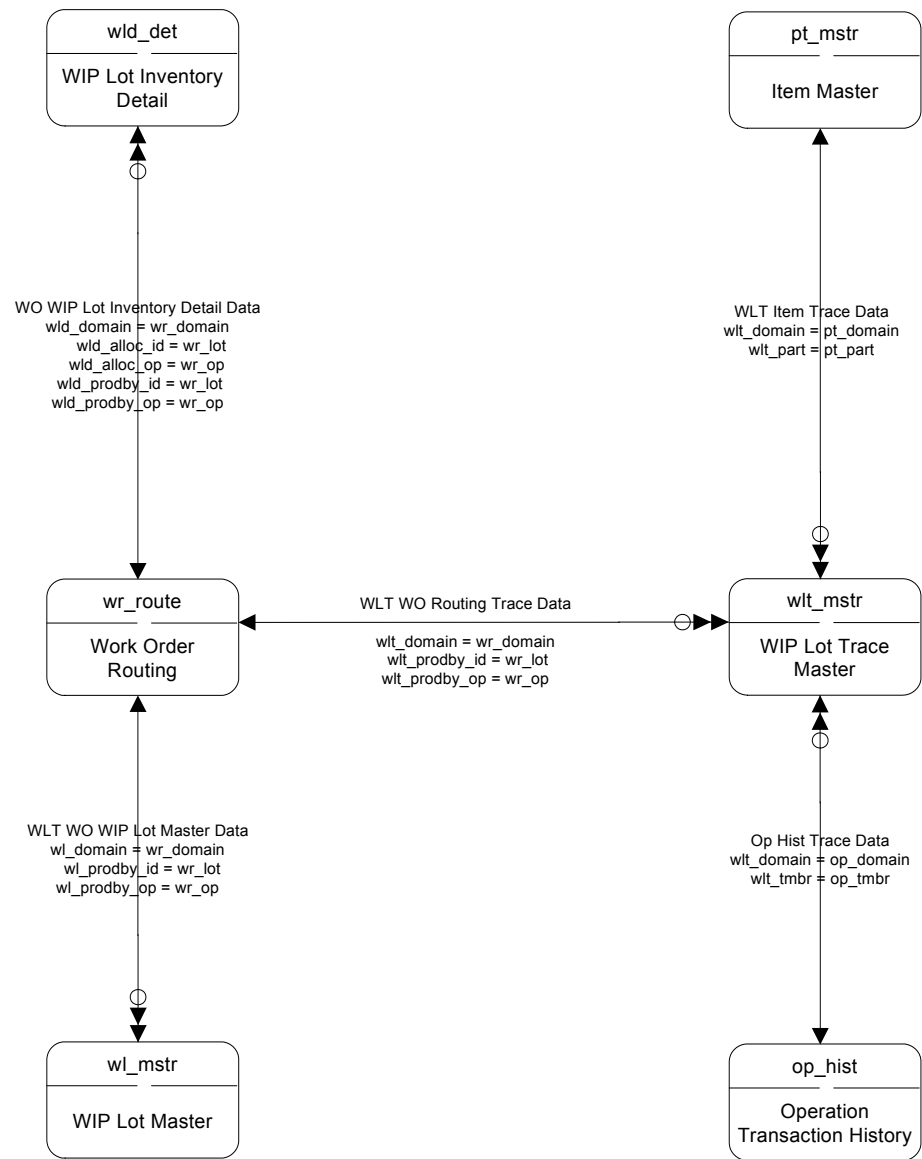
Warehouse – Wave Transportation I



Warehouse – Wave Transportation II

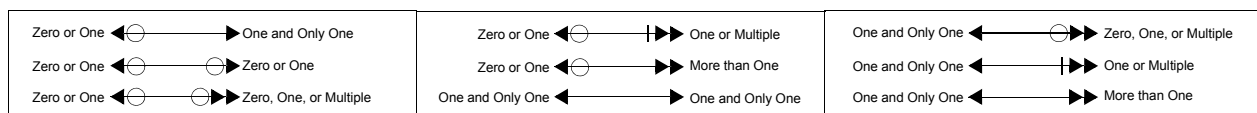
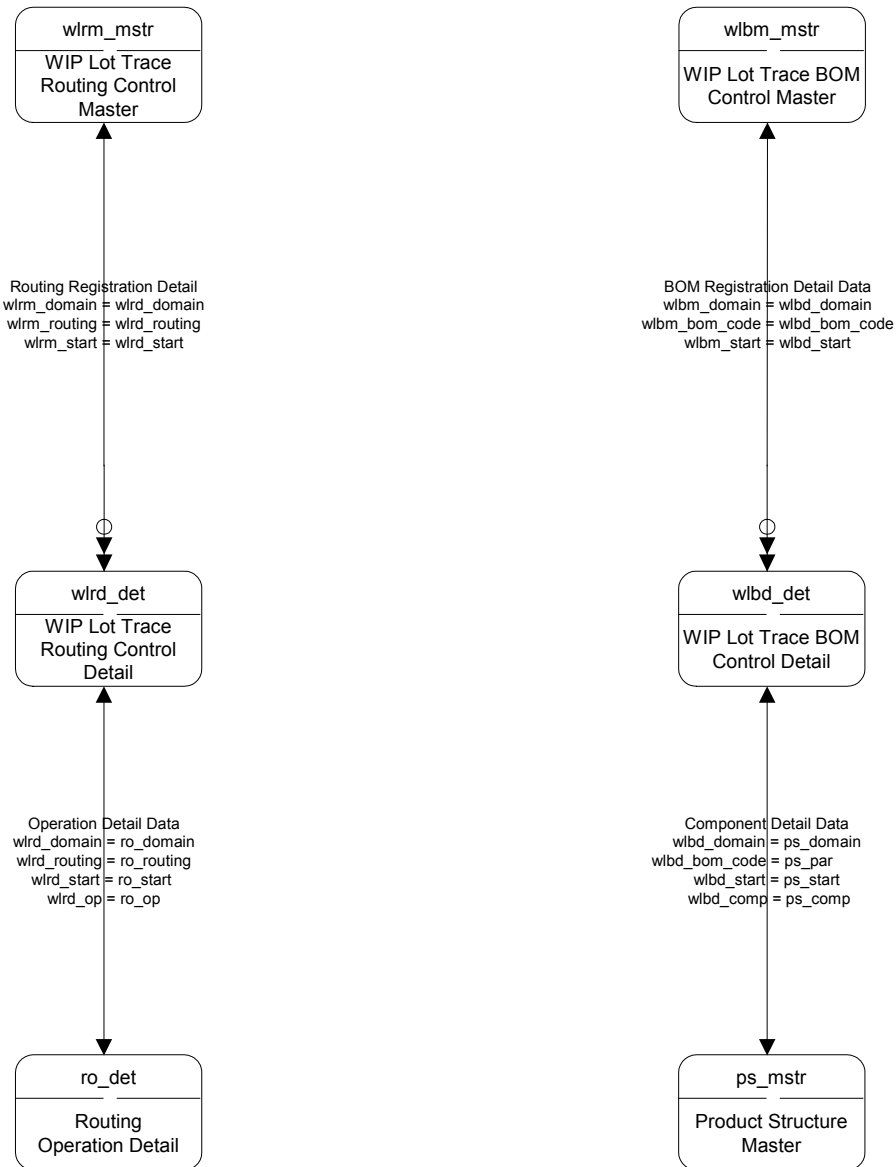


WIP Lot Trace I

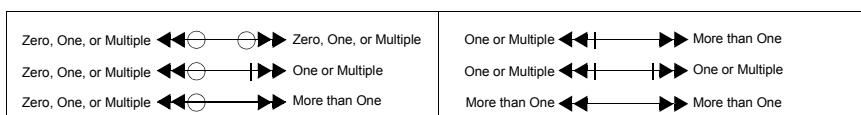
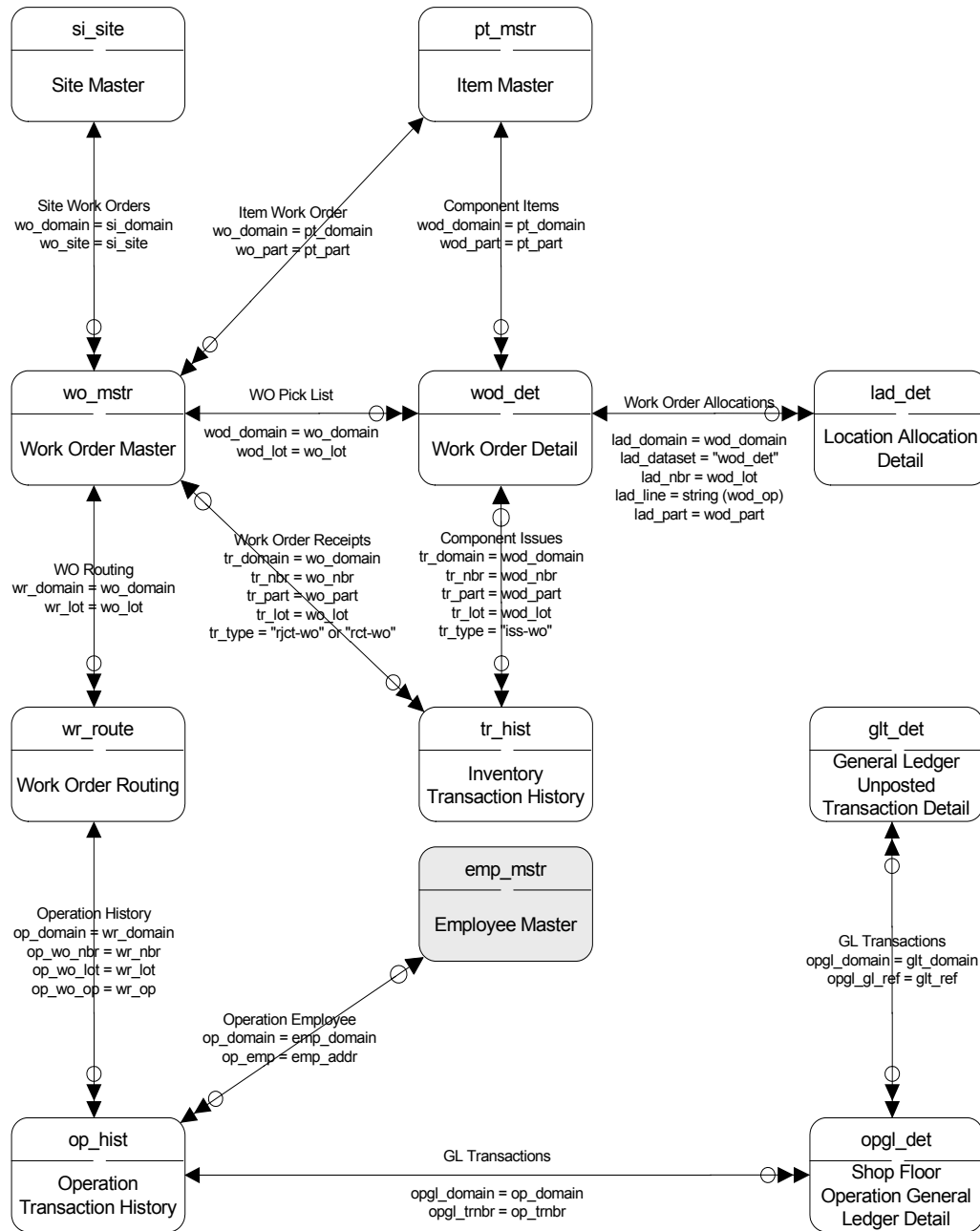











Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

WIP Lot Trace II



Work Orders



<p>Zero or One  One and Only One</p> <p>Zero or One  Zero or One</p> <p>Zero or One  Zero, One, or Multiple</p>	<p>Zero or One  One or Multiple</p> <p>Zero or One  More than One</p> <p>One and Only One  One and Only One</p>	<p>One and Only One  Zero, One, or Multiple</p> <p>One and Only One  One or Multiple</p> <p>One and Only One  More than One</p>
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Section 2

Financial Table Relationships

This section includes entity diagrams for Financial functions.

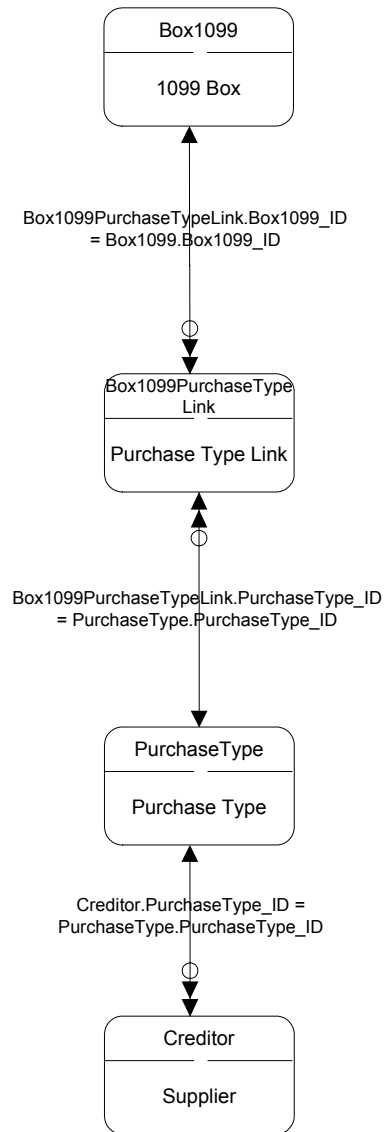
Financial Entity Diagrams **179**







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

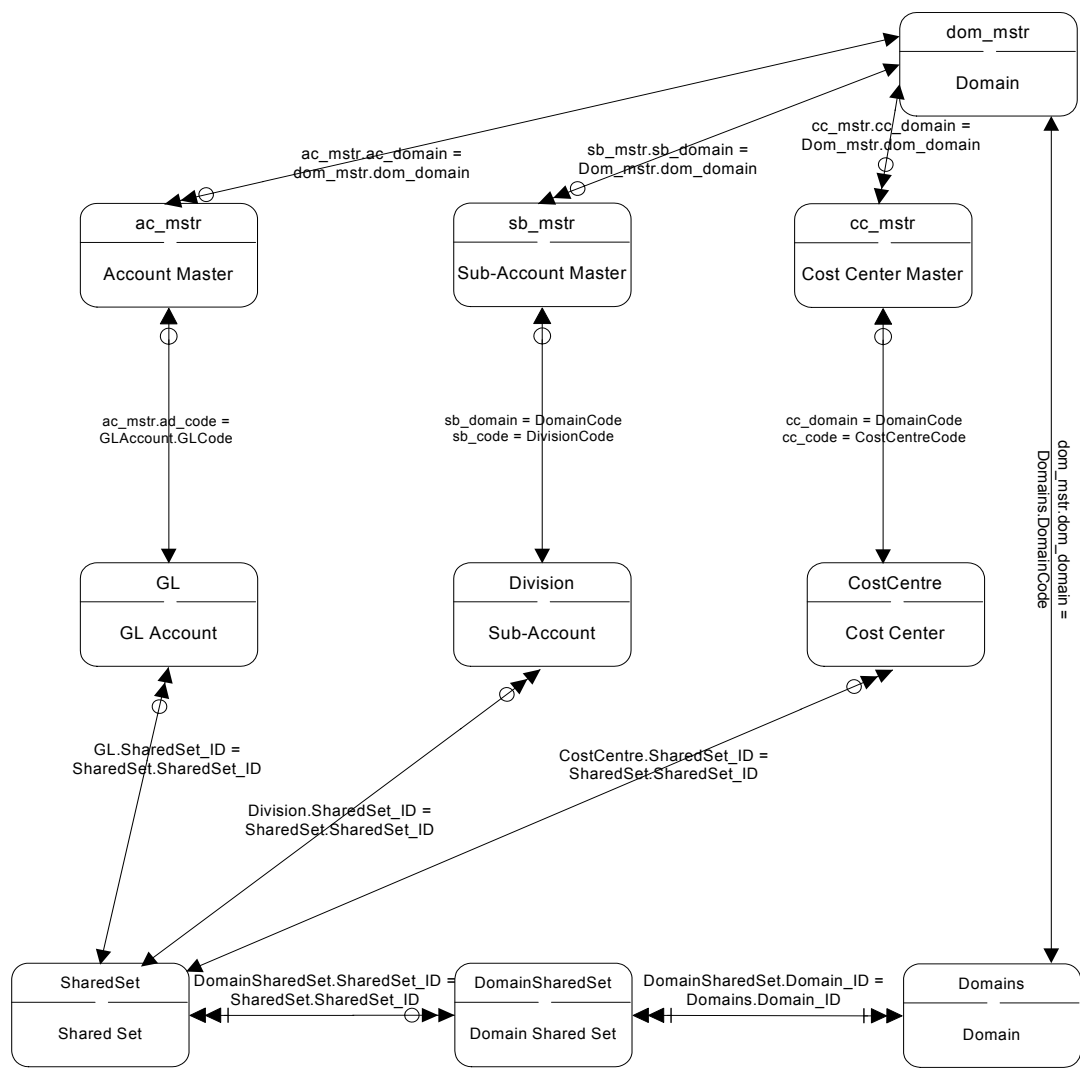


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

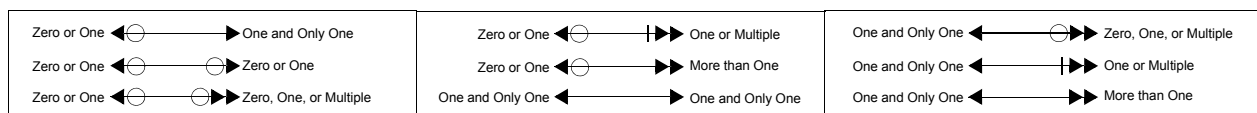
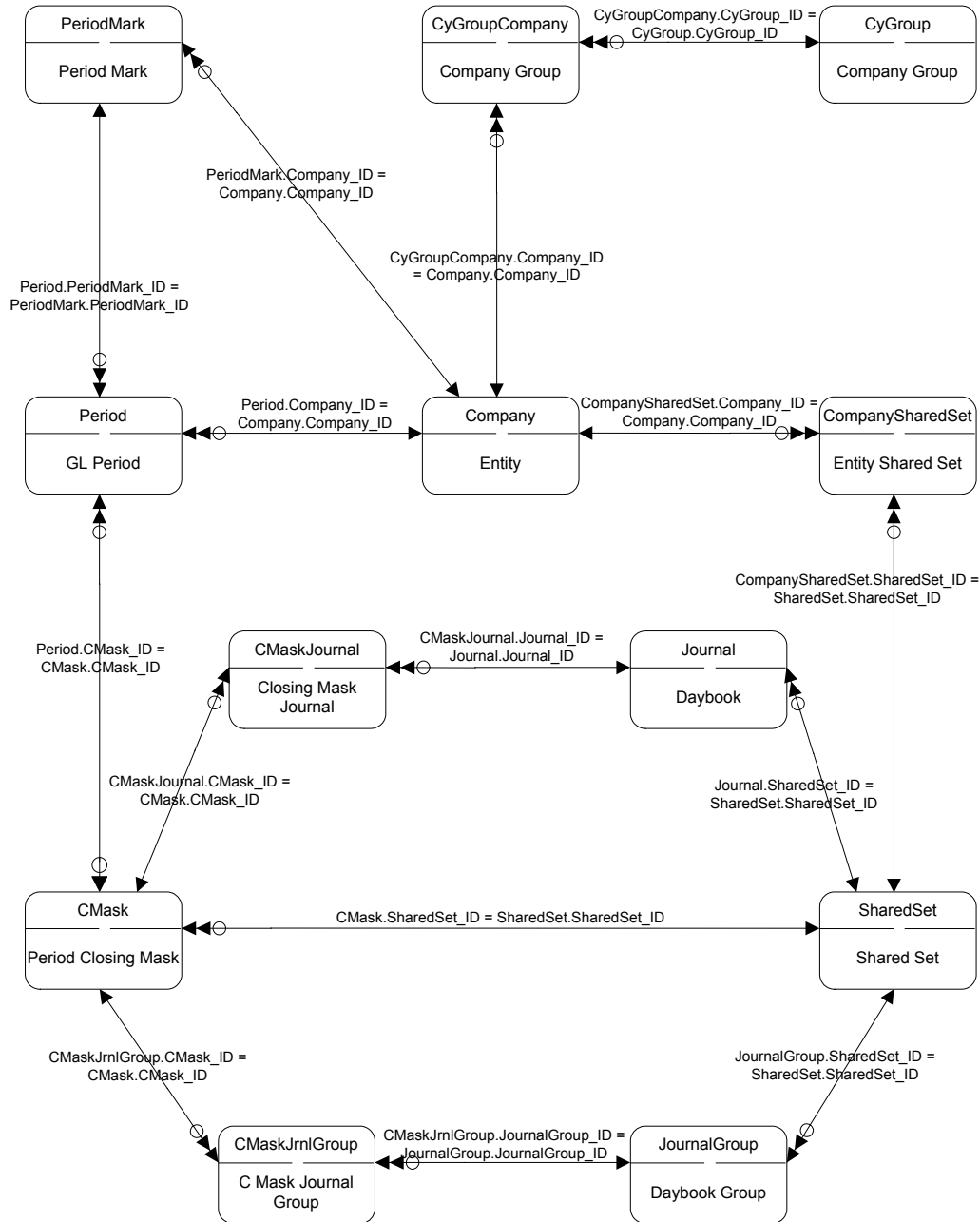
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Account Replication

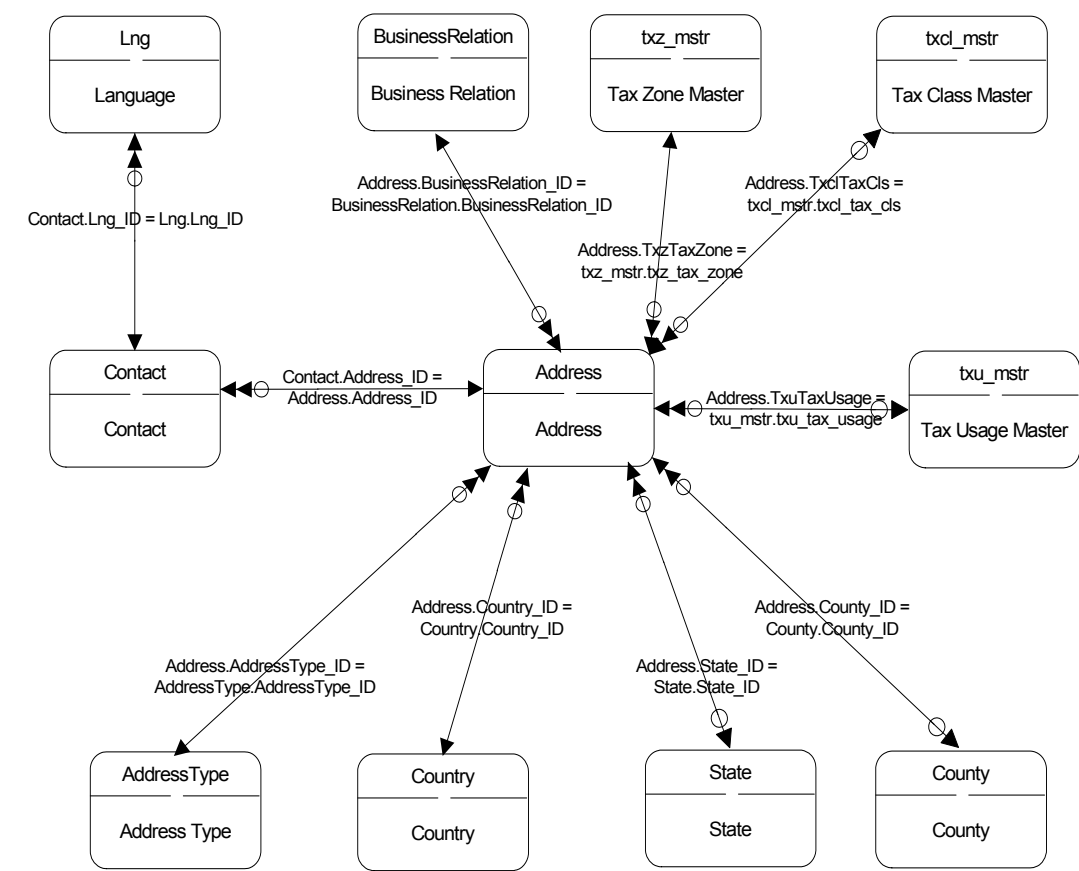


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Accounting Period

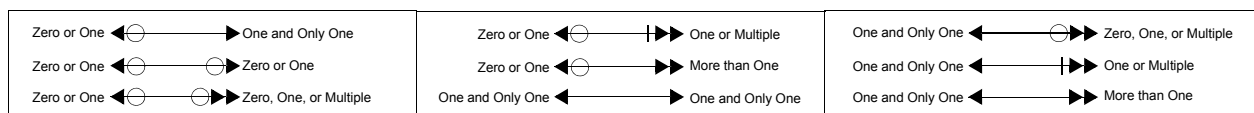
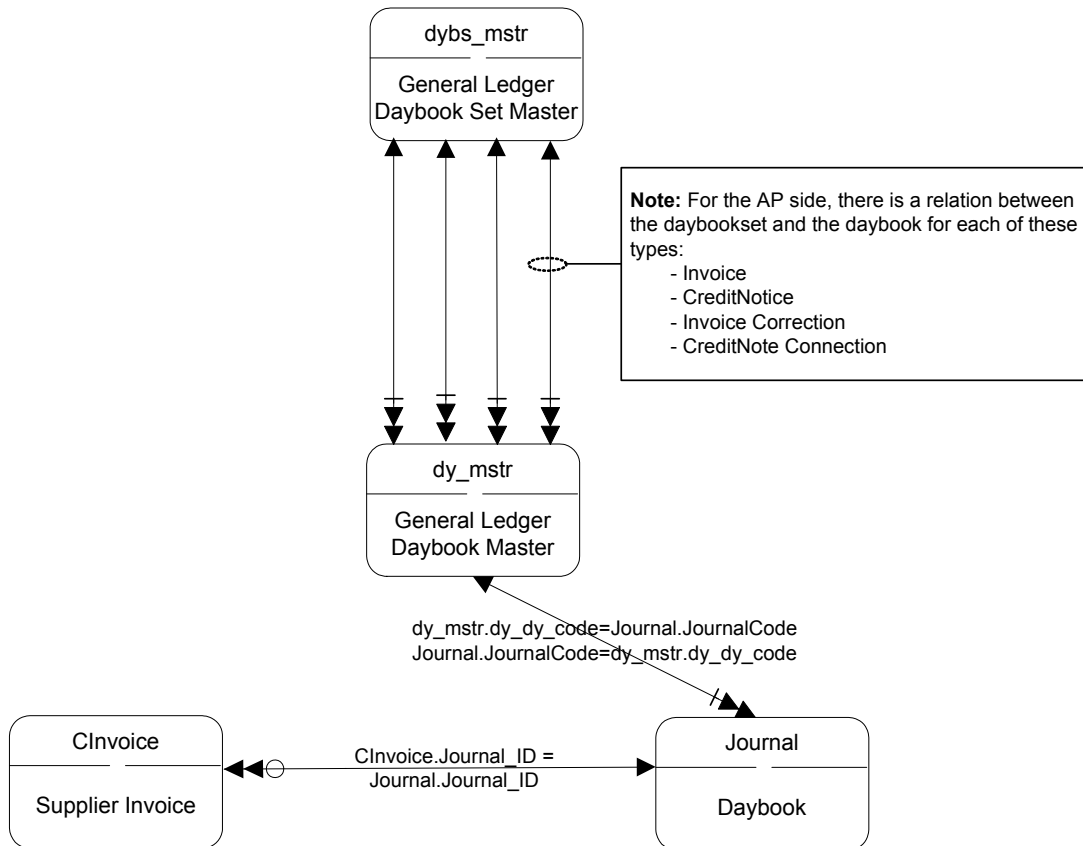


Address

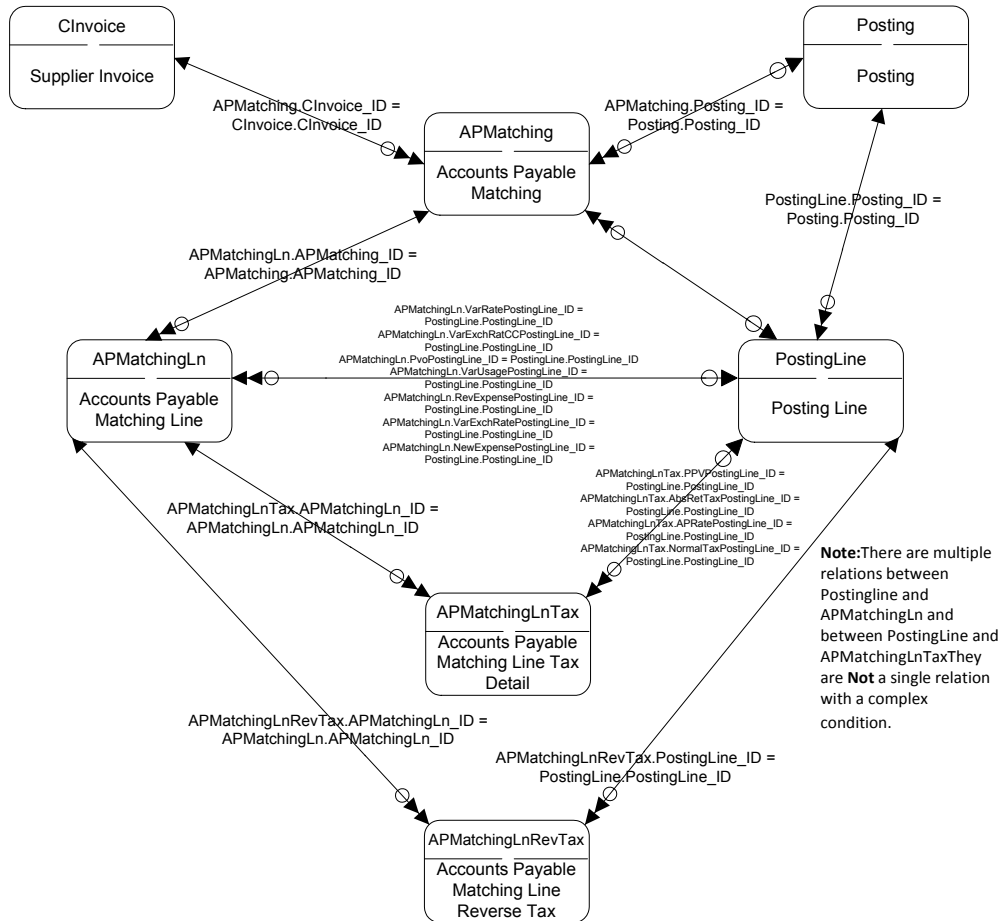


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Accounts Payable Daybook Sets



Accounts Payable Matching Detail I



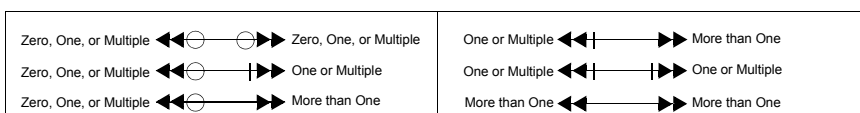
Notes: The matching tables hold references to different posting lines that are created. APMatching holds a single reference to the posting line on the site account. APMatchingLn holds references to the following posting lines:

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

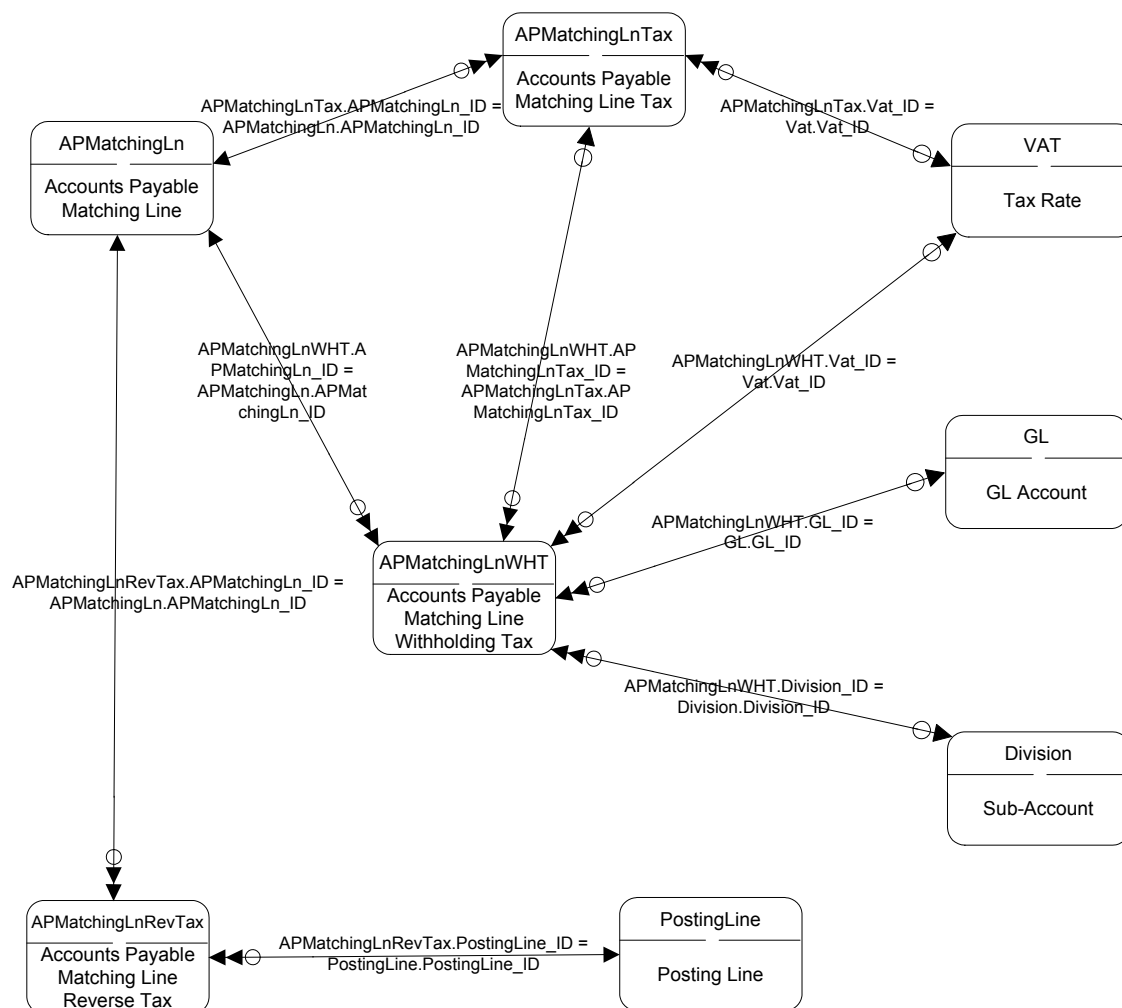
APMatchingLnTax holds references to the following posting lines:

- 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

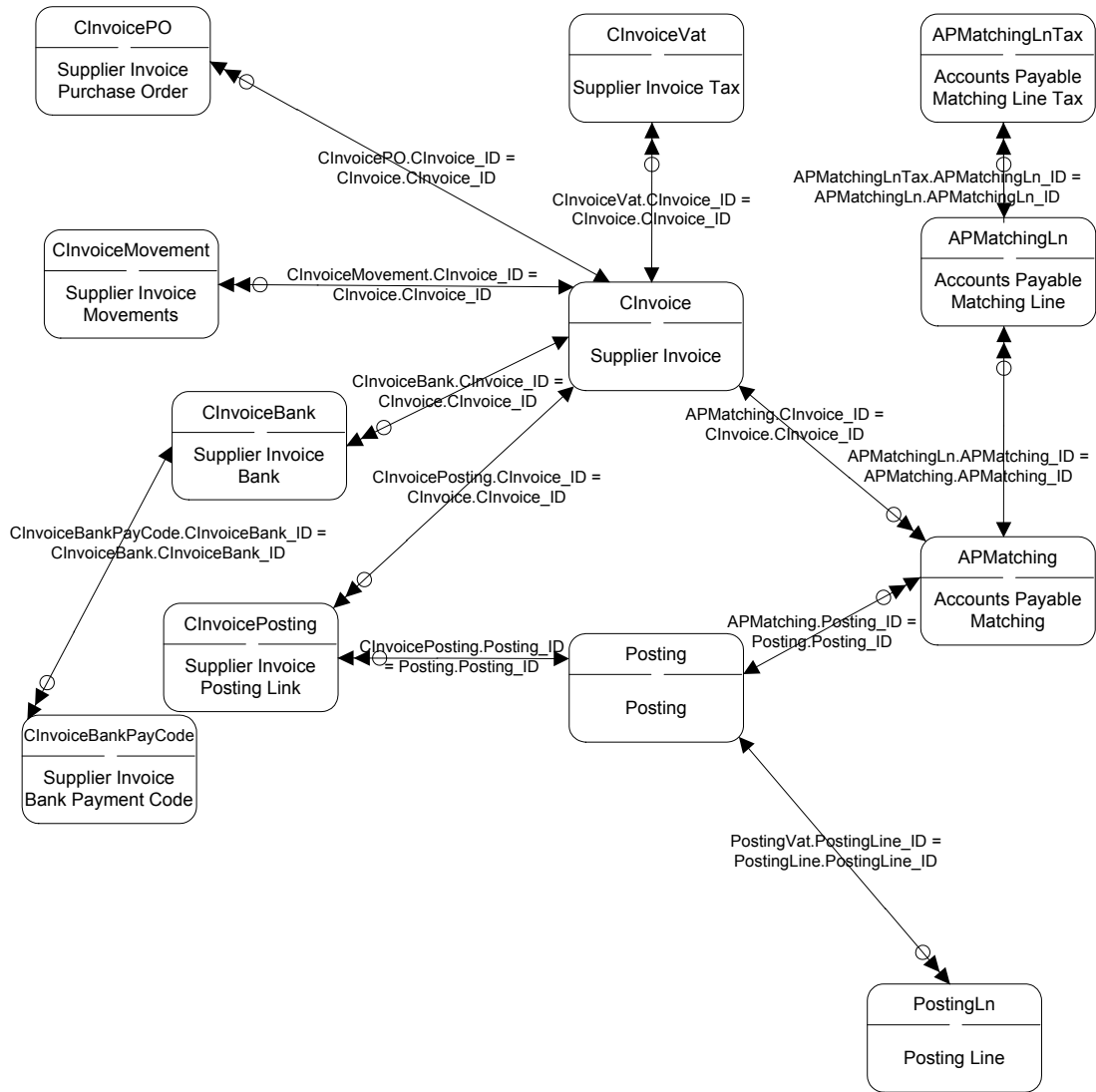
APMatchingLnTax holds references to the following posting lines:

- 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.

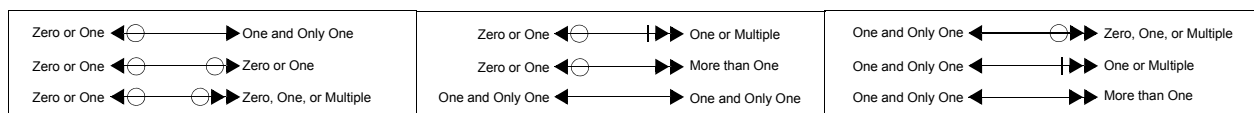
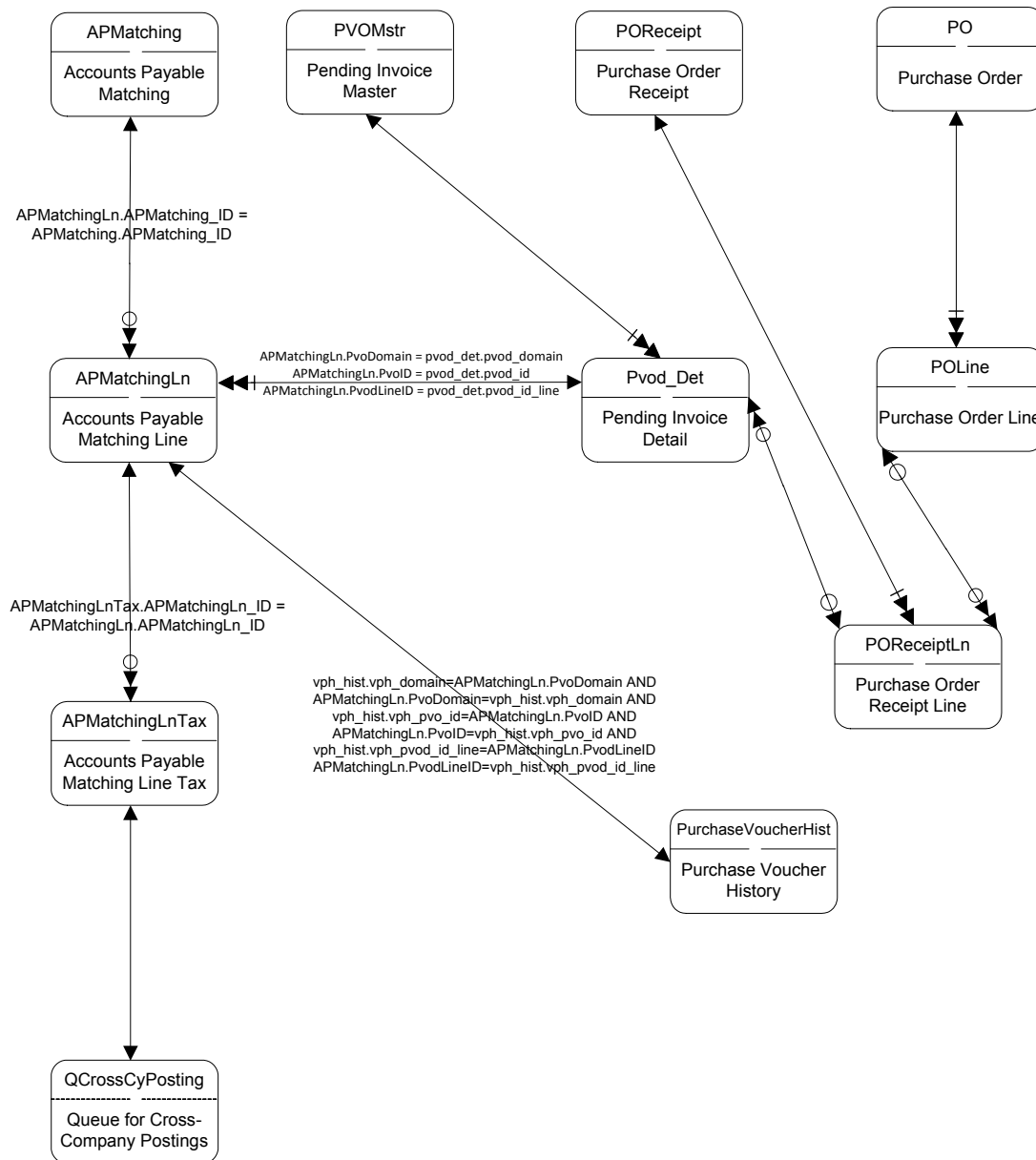
Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 

Accounts Payable Matching Global I

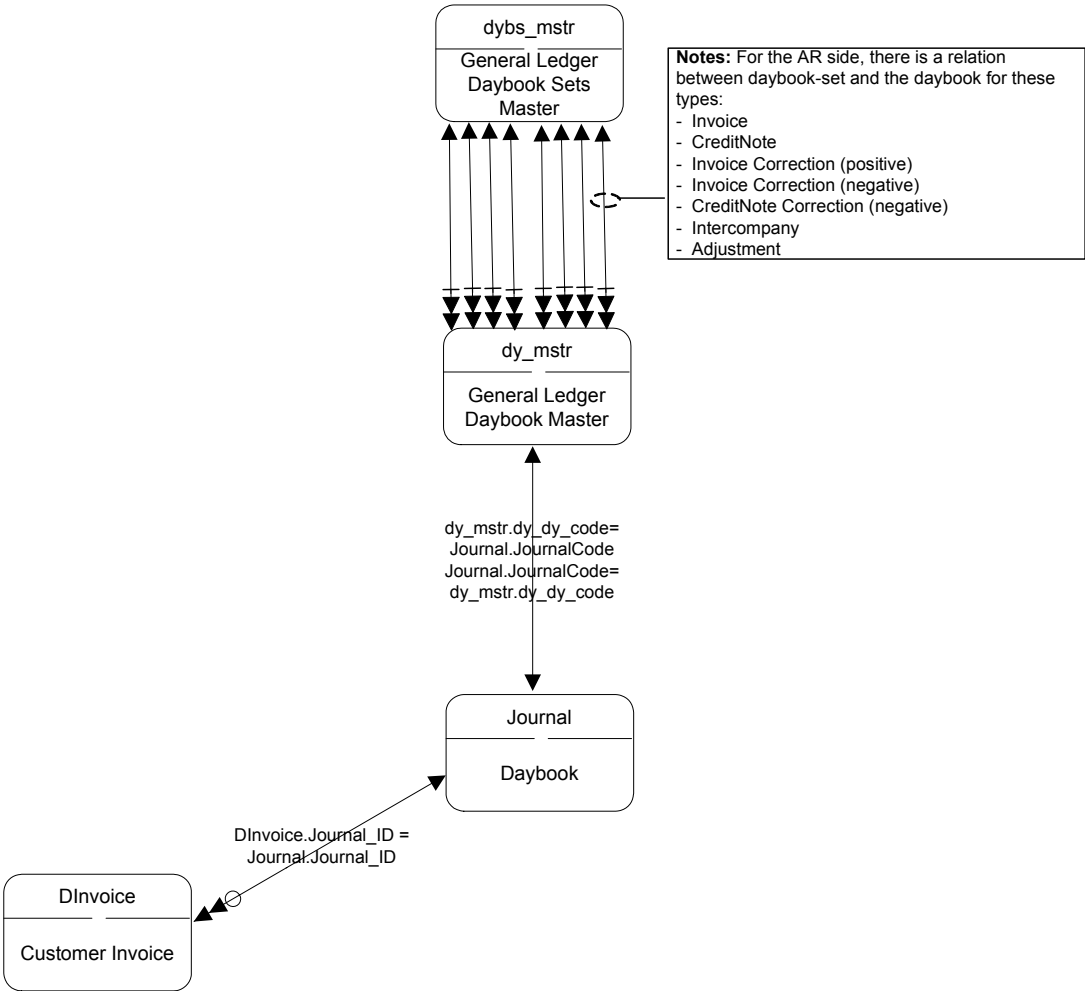


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Accounts Payable Matching Global II

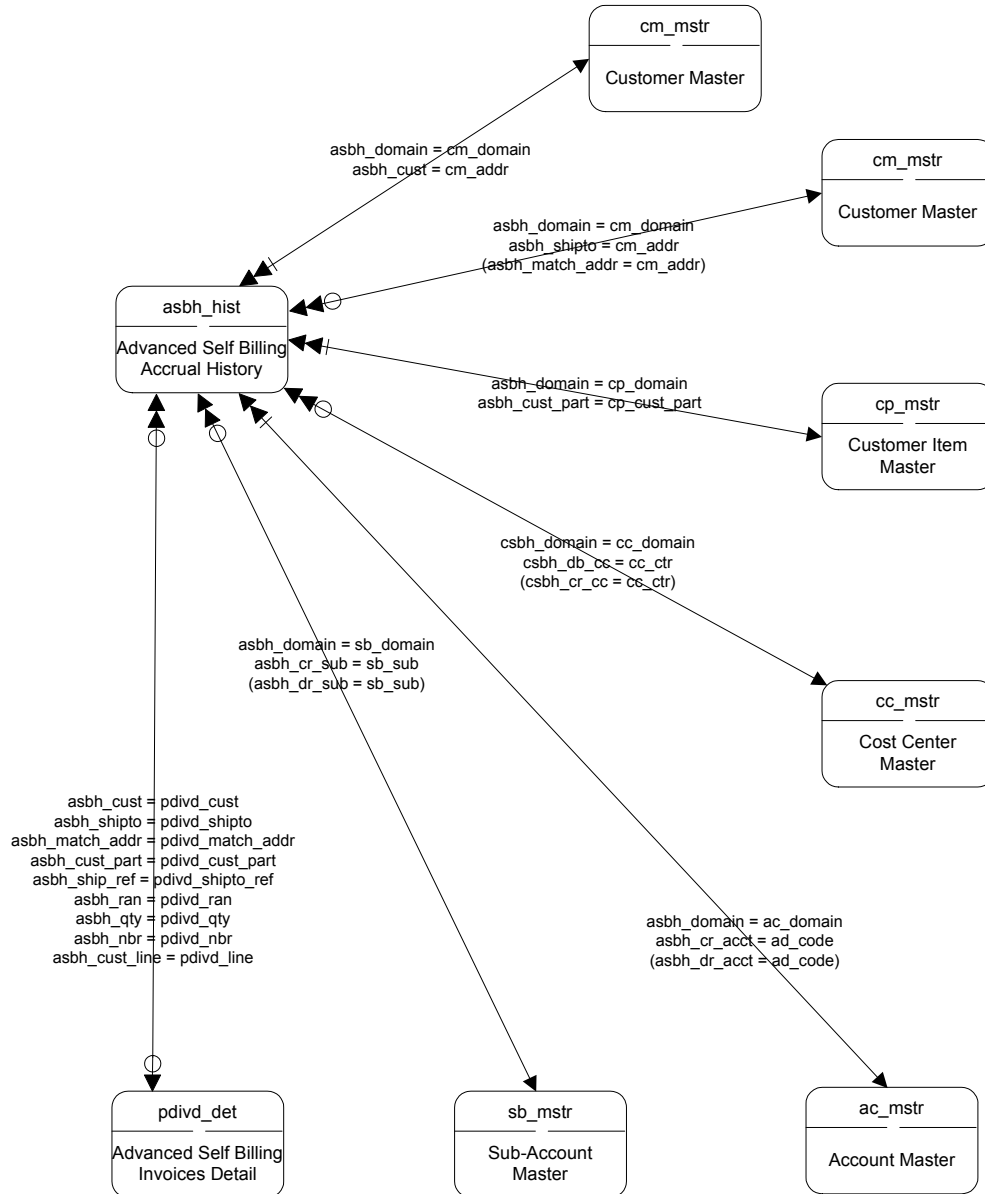




















Accounts Receivable Daybook Set



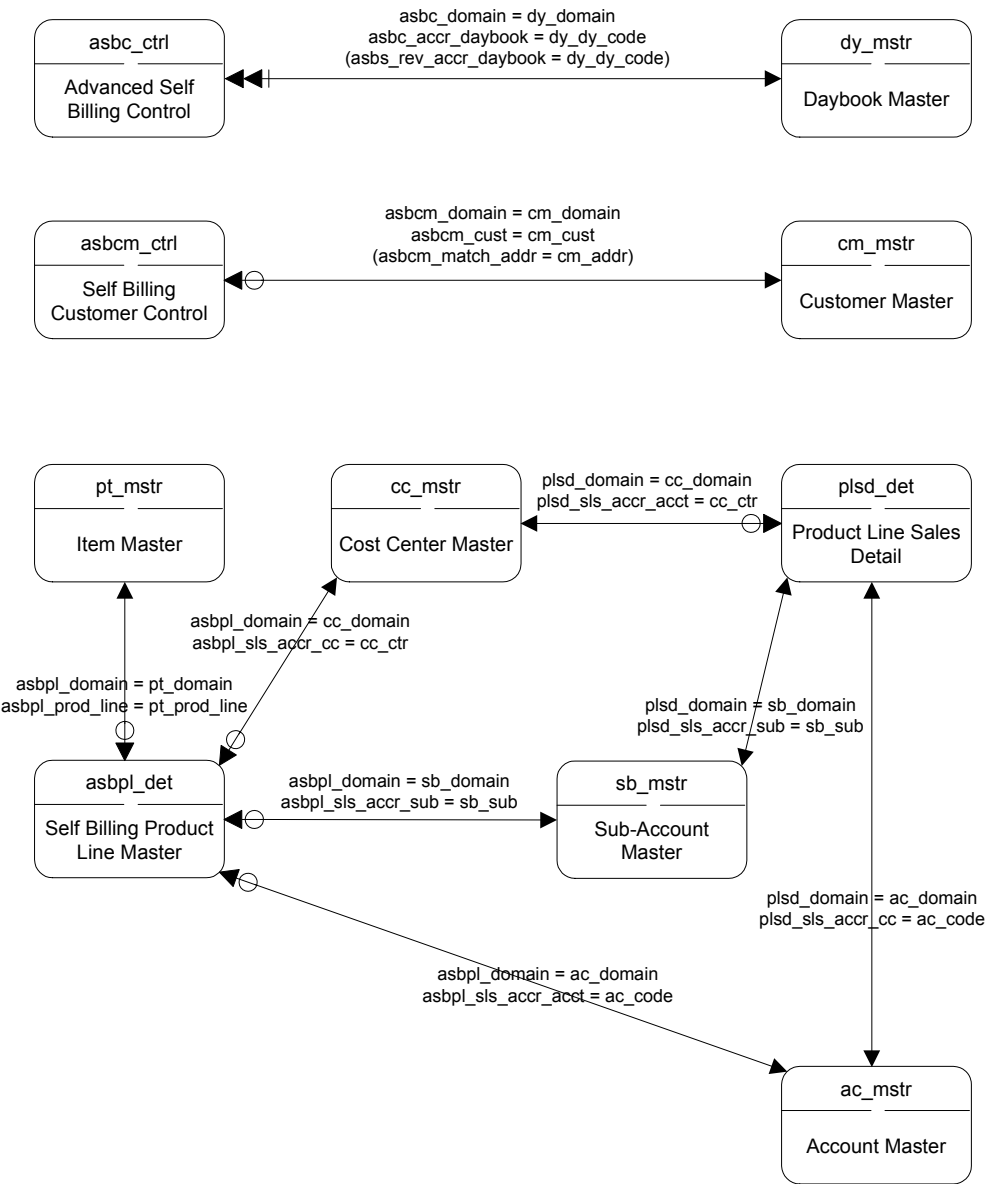
Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Advanced Self Billing Accrual Historic Information



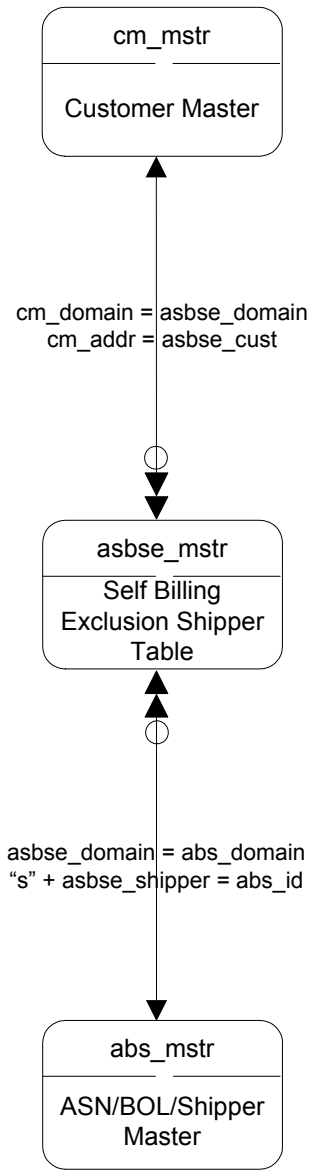
Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 







Advanced Self Billing Control















Zero, One, or Multiple	One or Multiple	Zero, One, or Multiple	One or Multiple
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

Advanced Self Billing Exclusion Shipper

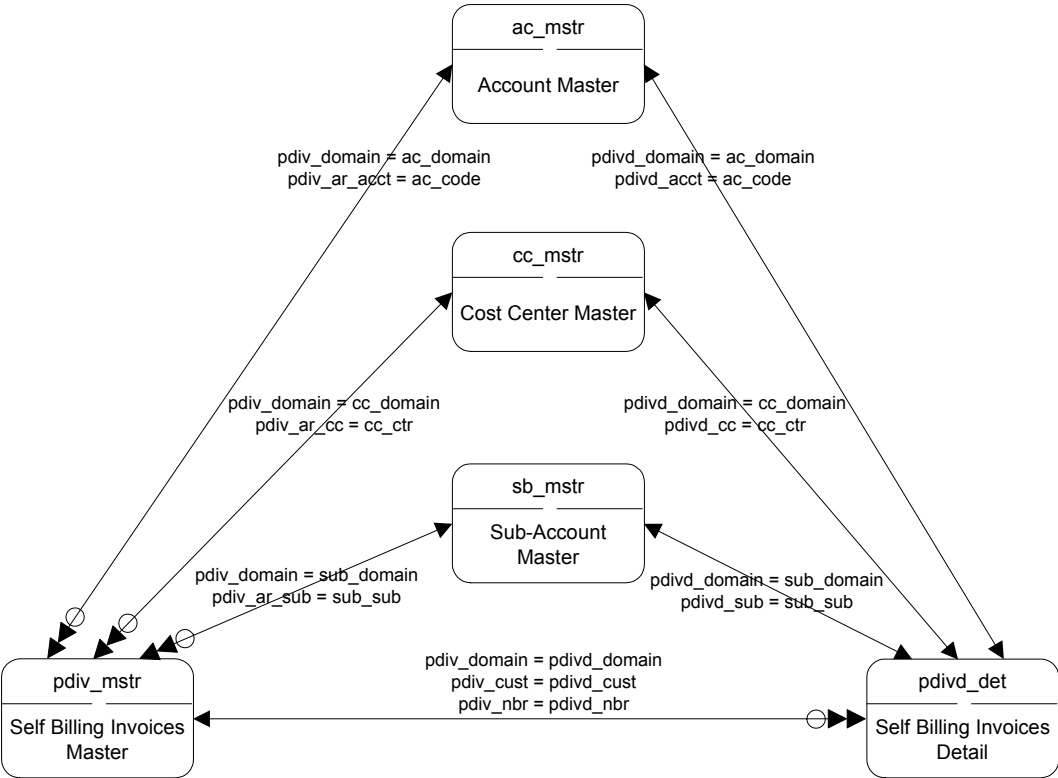


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

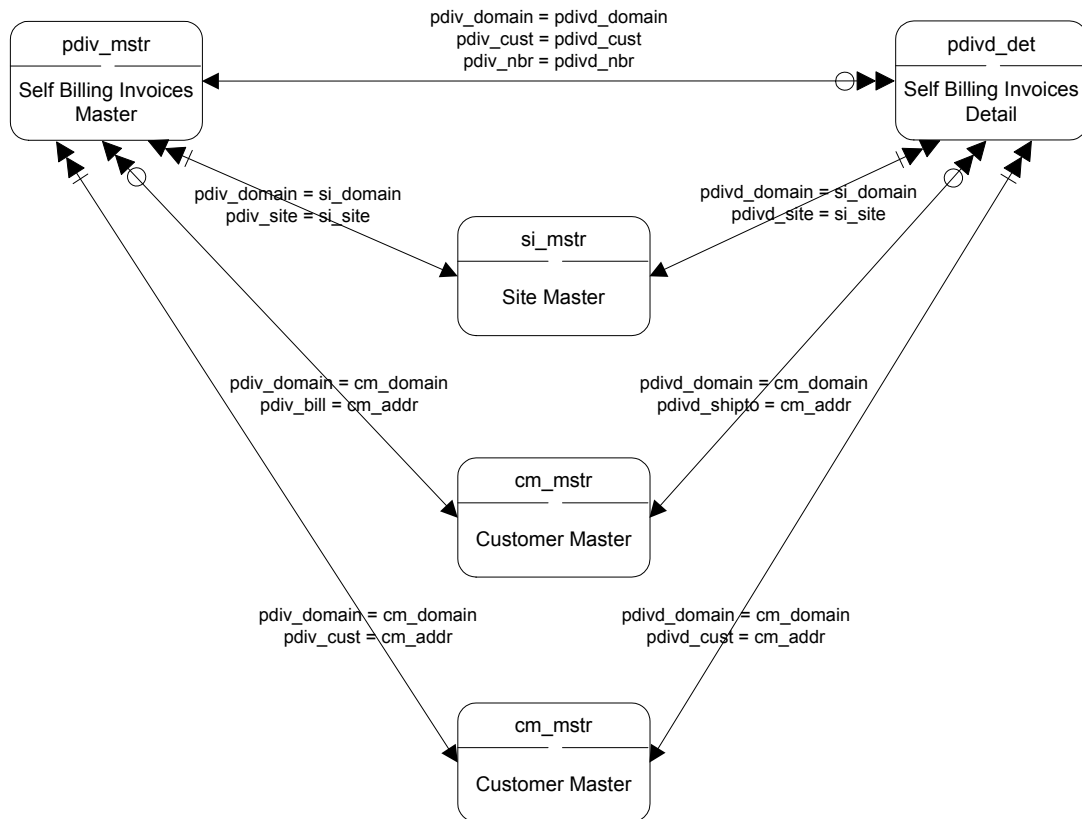
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 







Advanced Self Billing Invoice & Shipments I















Zero, One, or Multiple	One or Multiple	Zero, One, or Multiple	One or Multiple
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

Advanced Self Billing Invoice & Shipments II

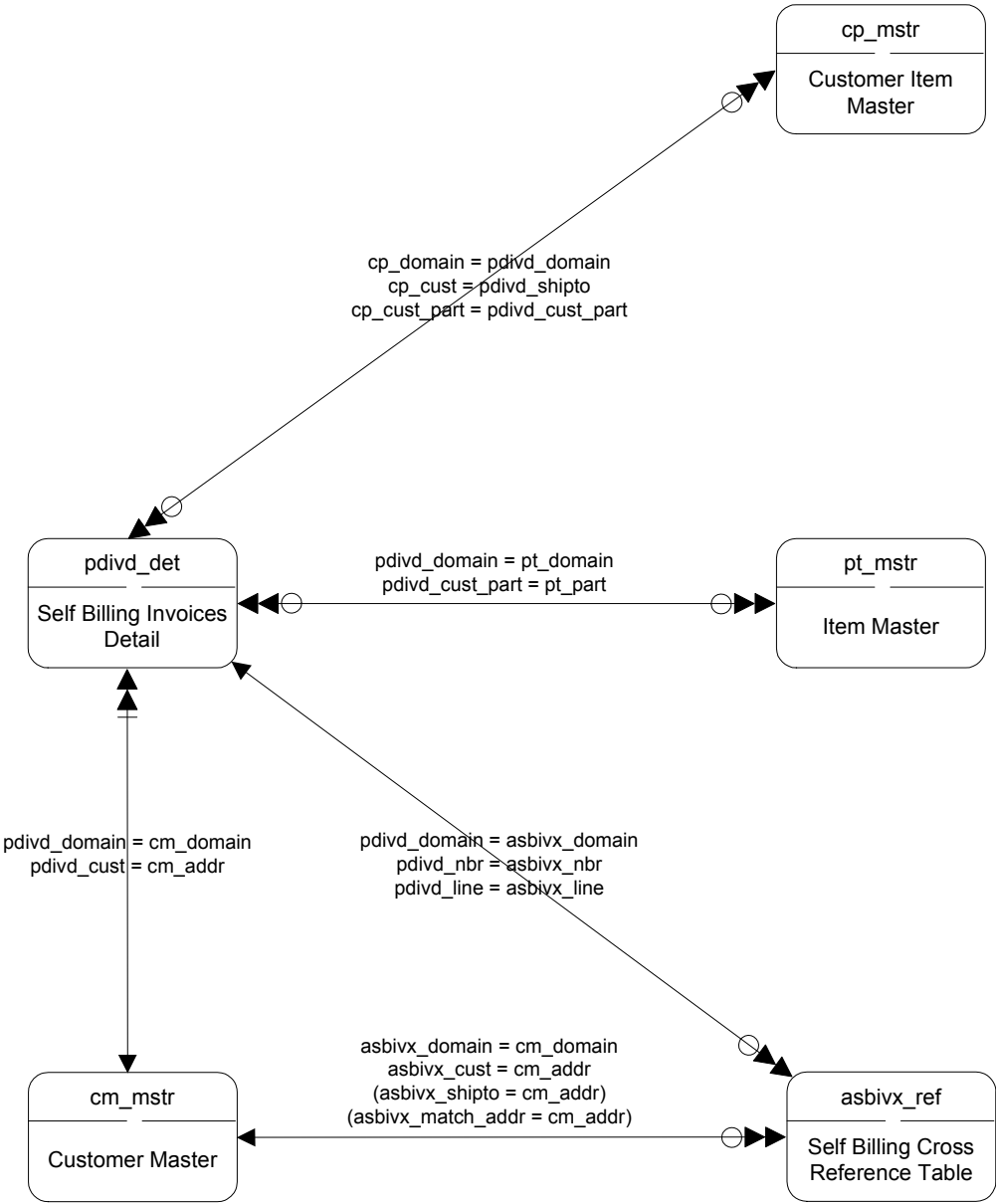


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

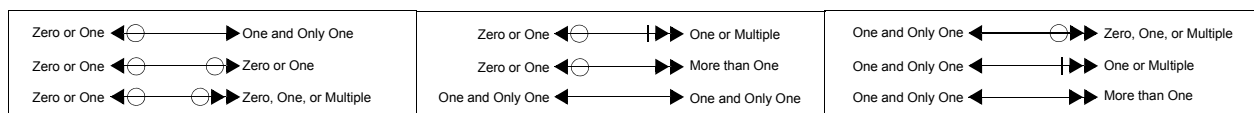
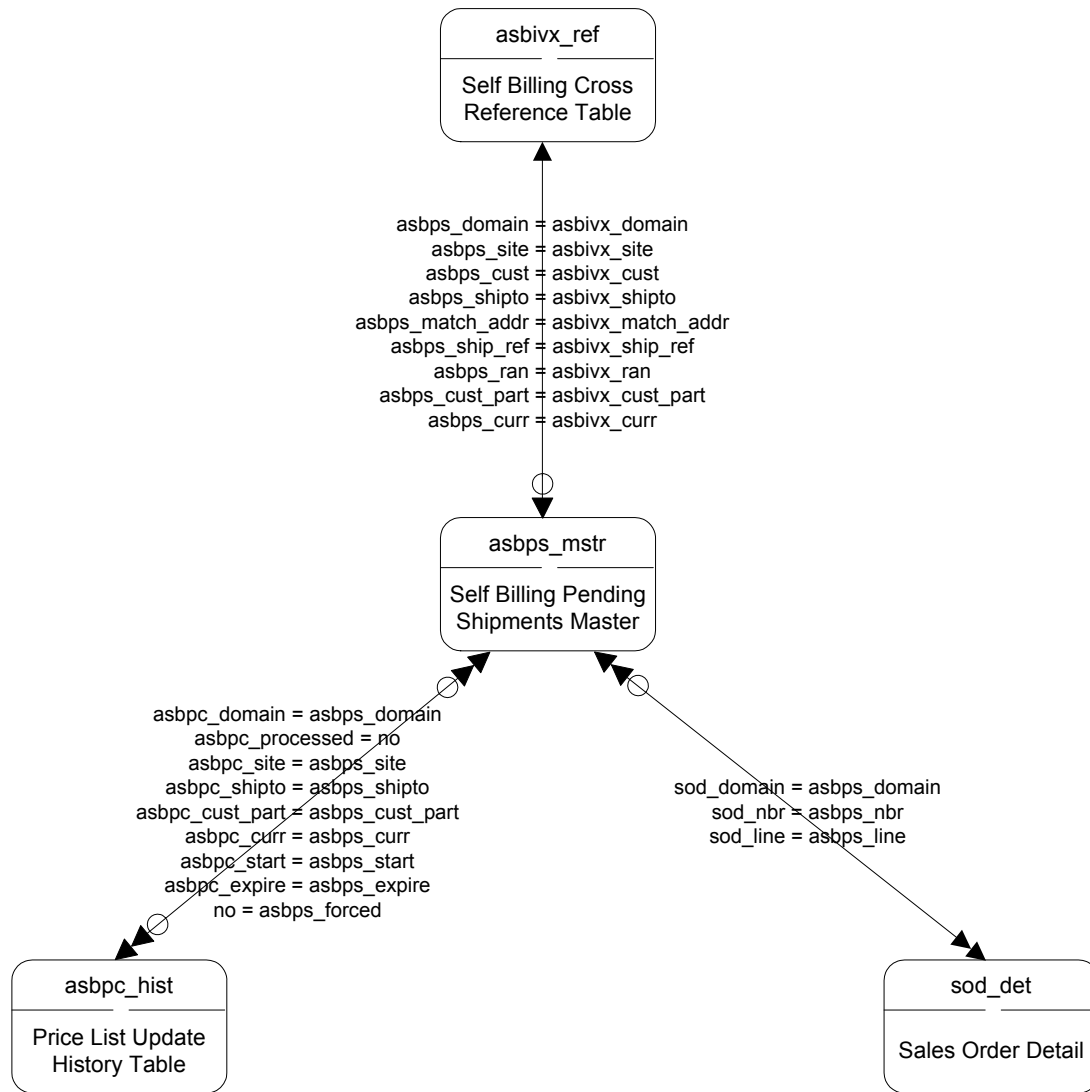
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Advanced Self Billing Invoice & Shipments III

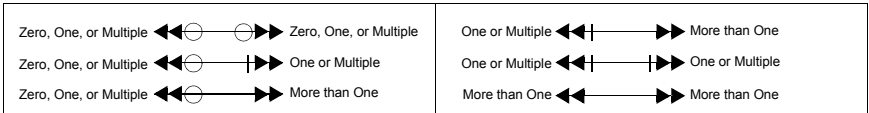
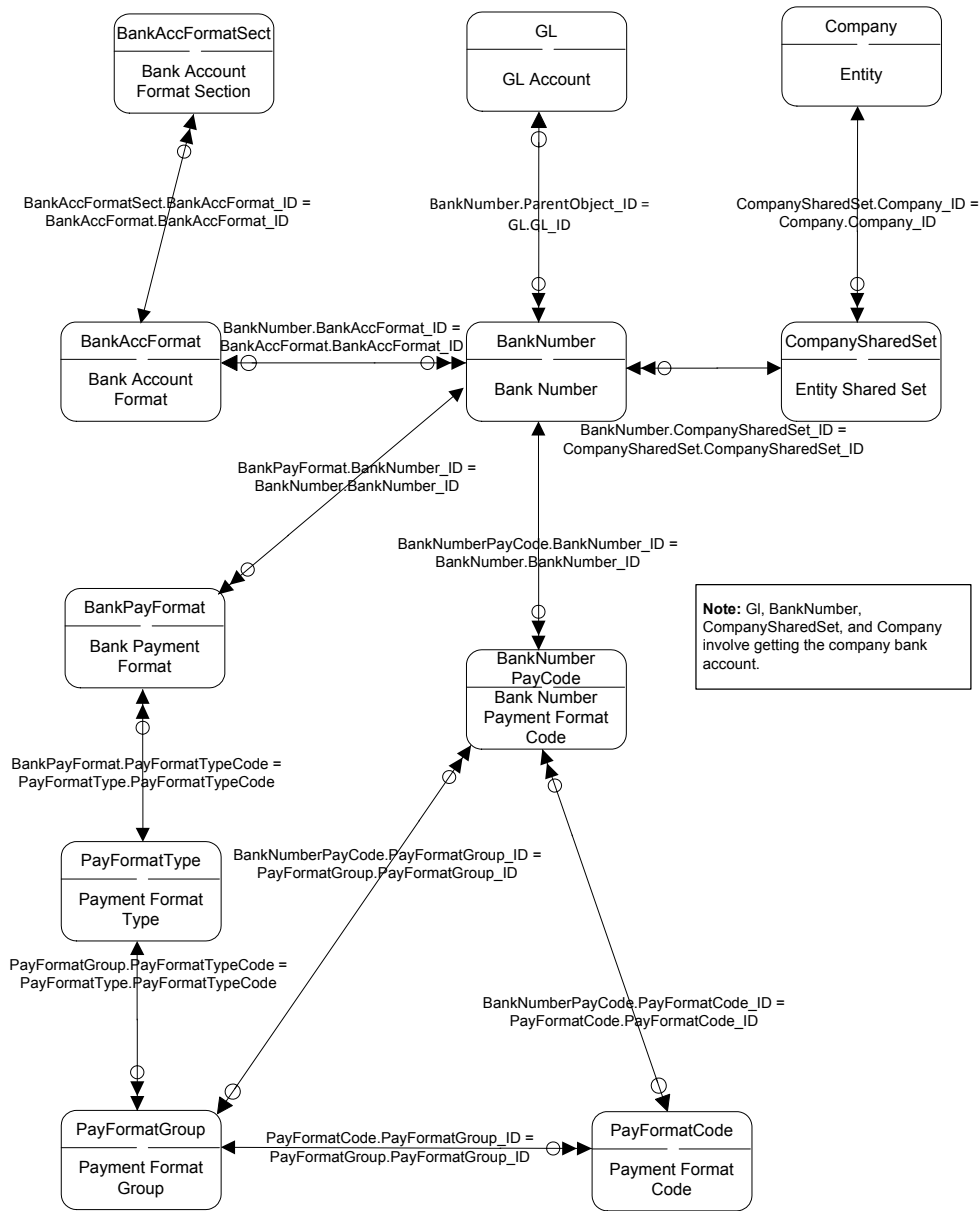


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

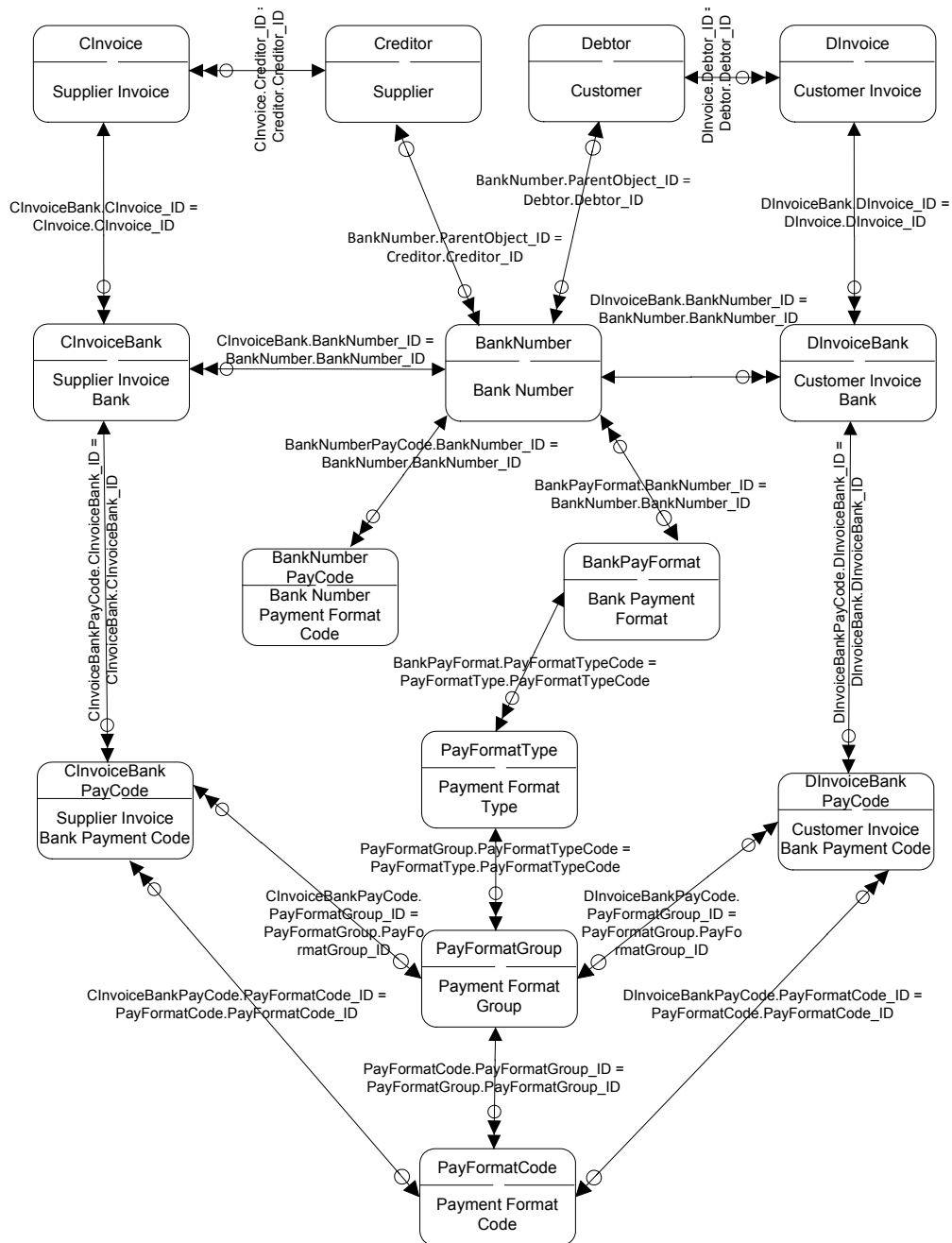
Advanced Self Billing Invoice & Shipments IV



Bank Accounts

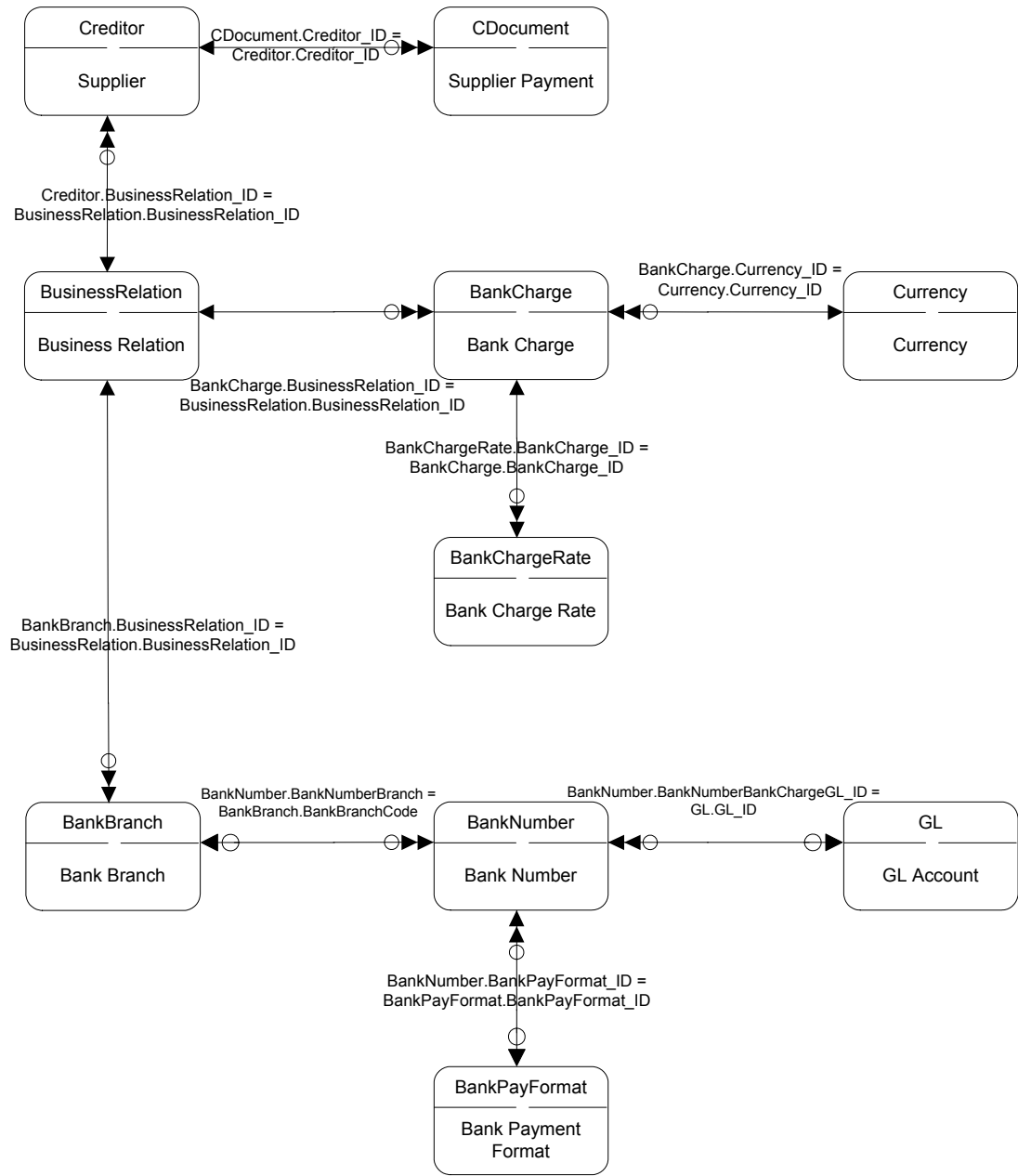


Bank Accounts, Suppliers, Customers



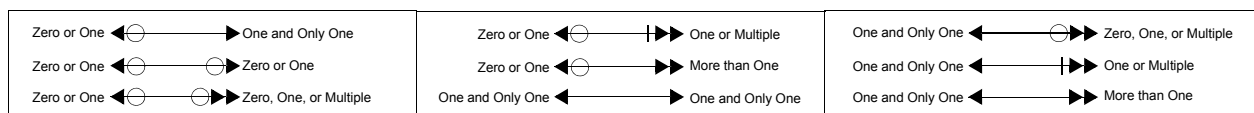
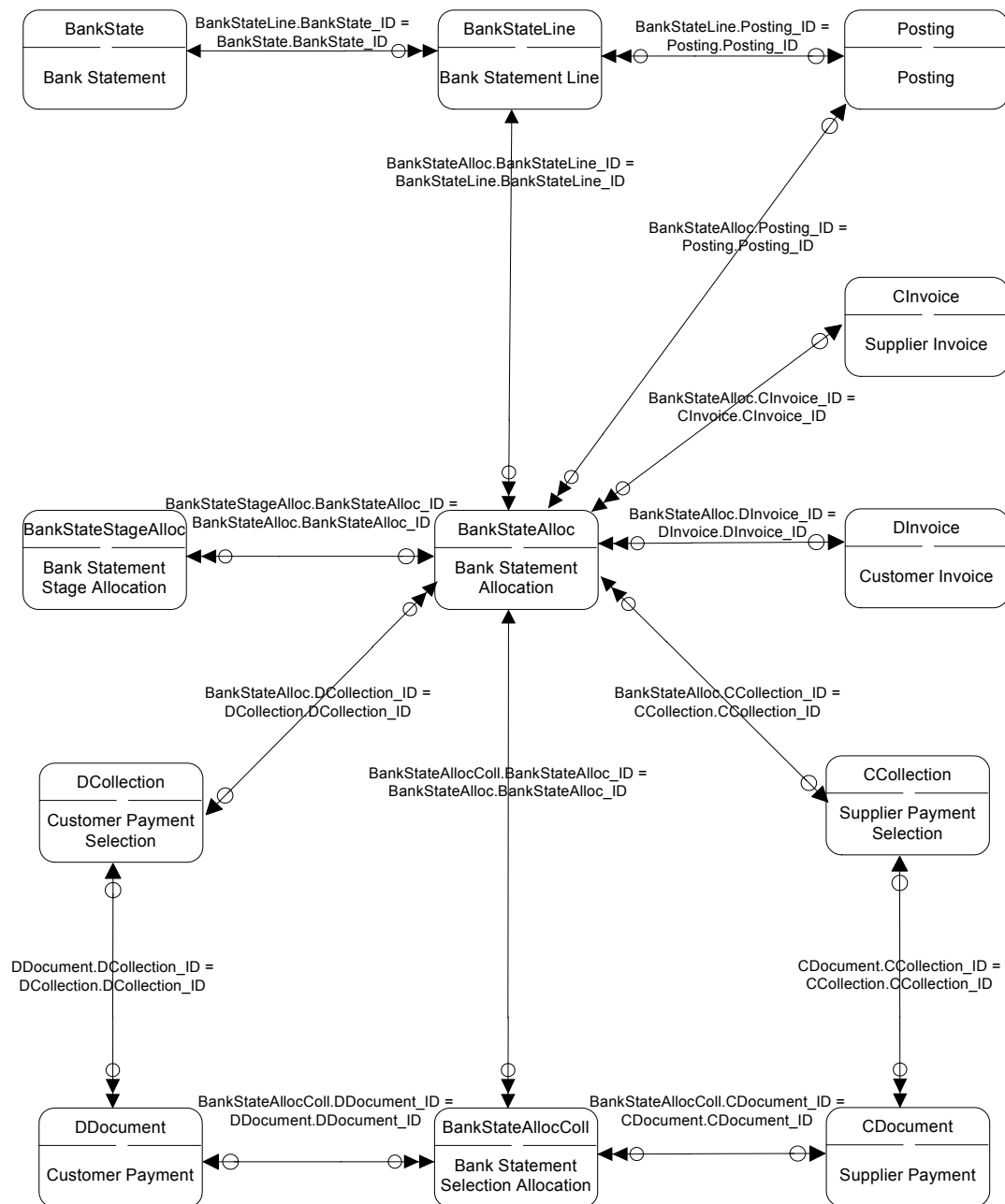
Zero or One	One and Only One	Zero or One	One or Multiple	One and Only One	Zero, One, or Multiple
Zero or One	Zero or One	Zero or One	More than One	One and Only One	One or Multiple
Zero or One	Zero, One, or Multiple	One and Only One	One and Only One	One and Only One	More than One

Bank Charges

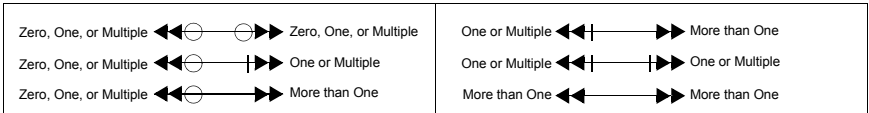
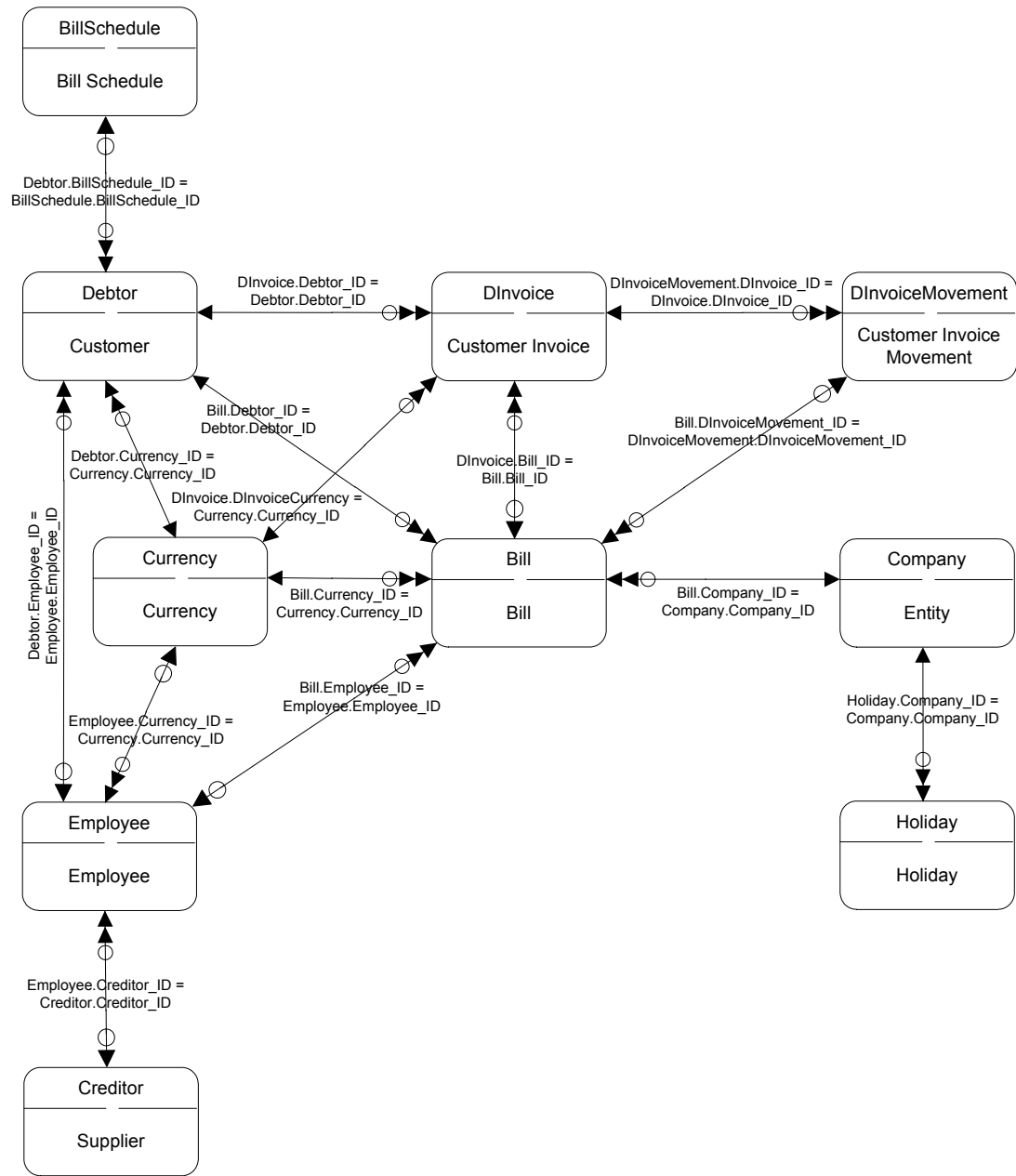


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

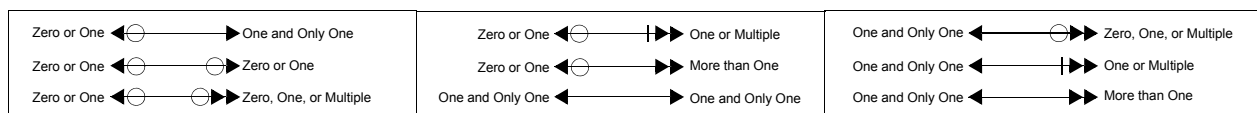
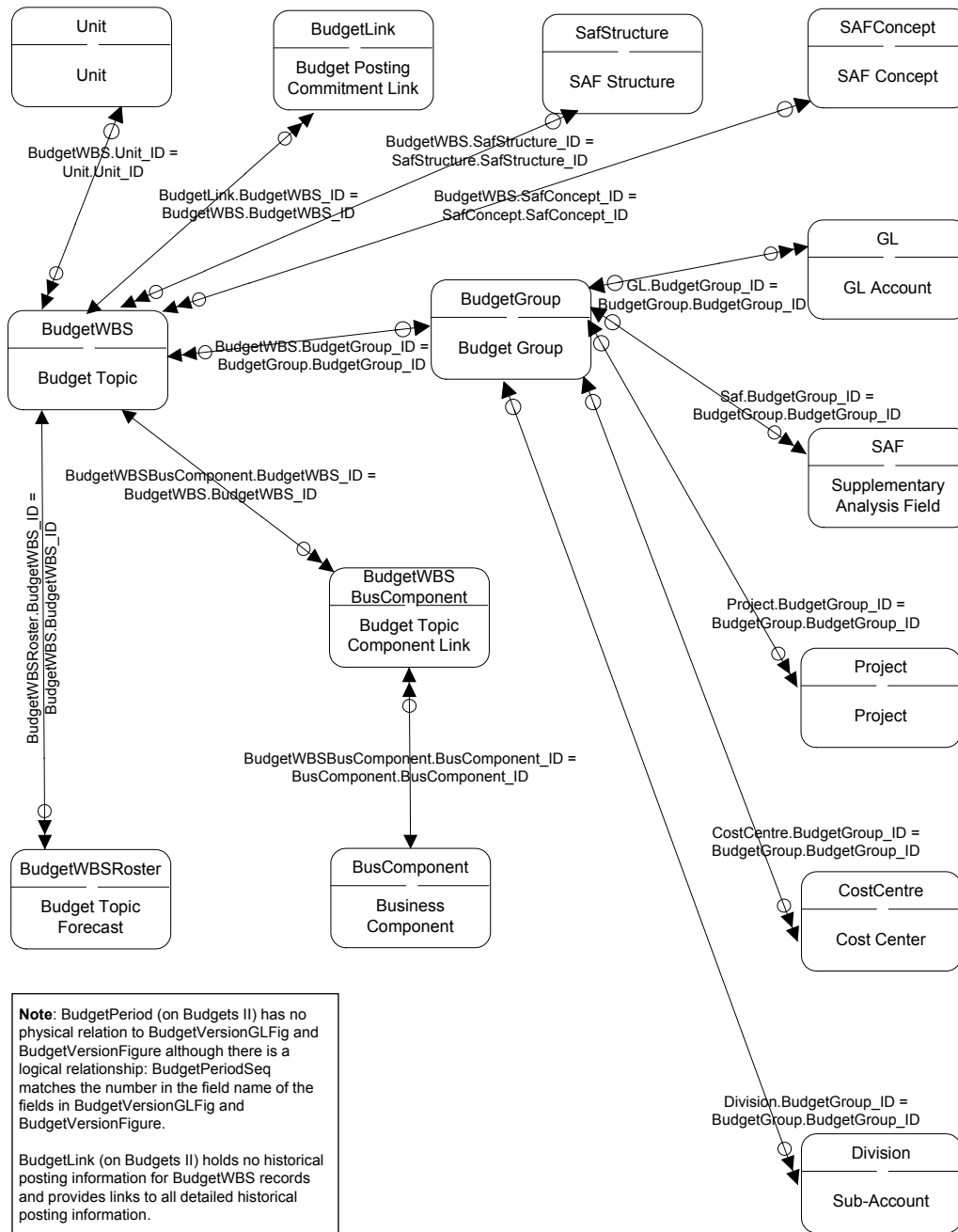
Bank Entries



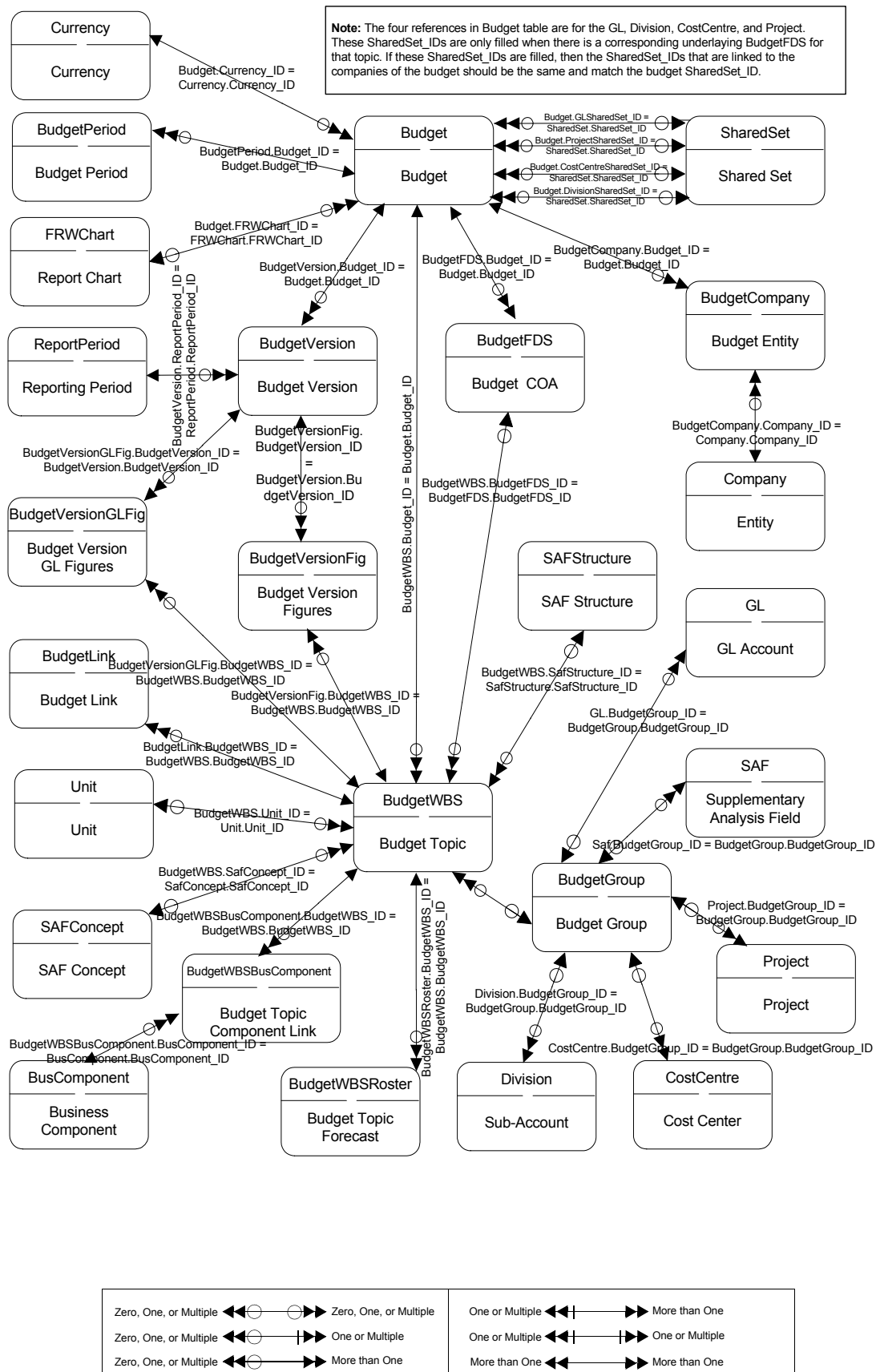
Billing



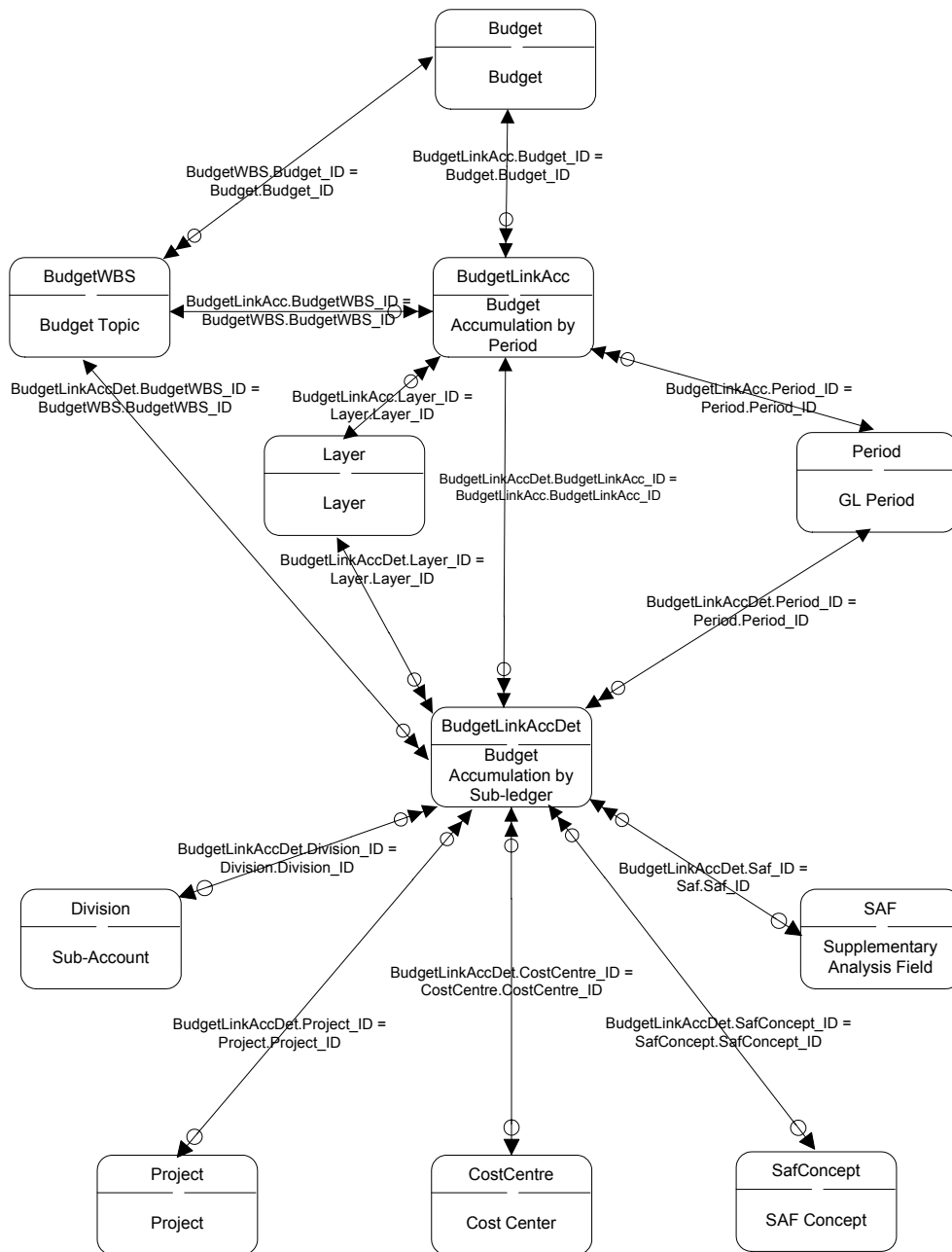
Budgets I





















Budgets II

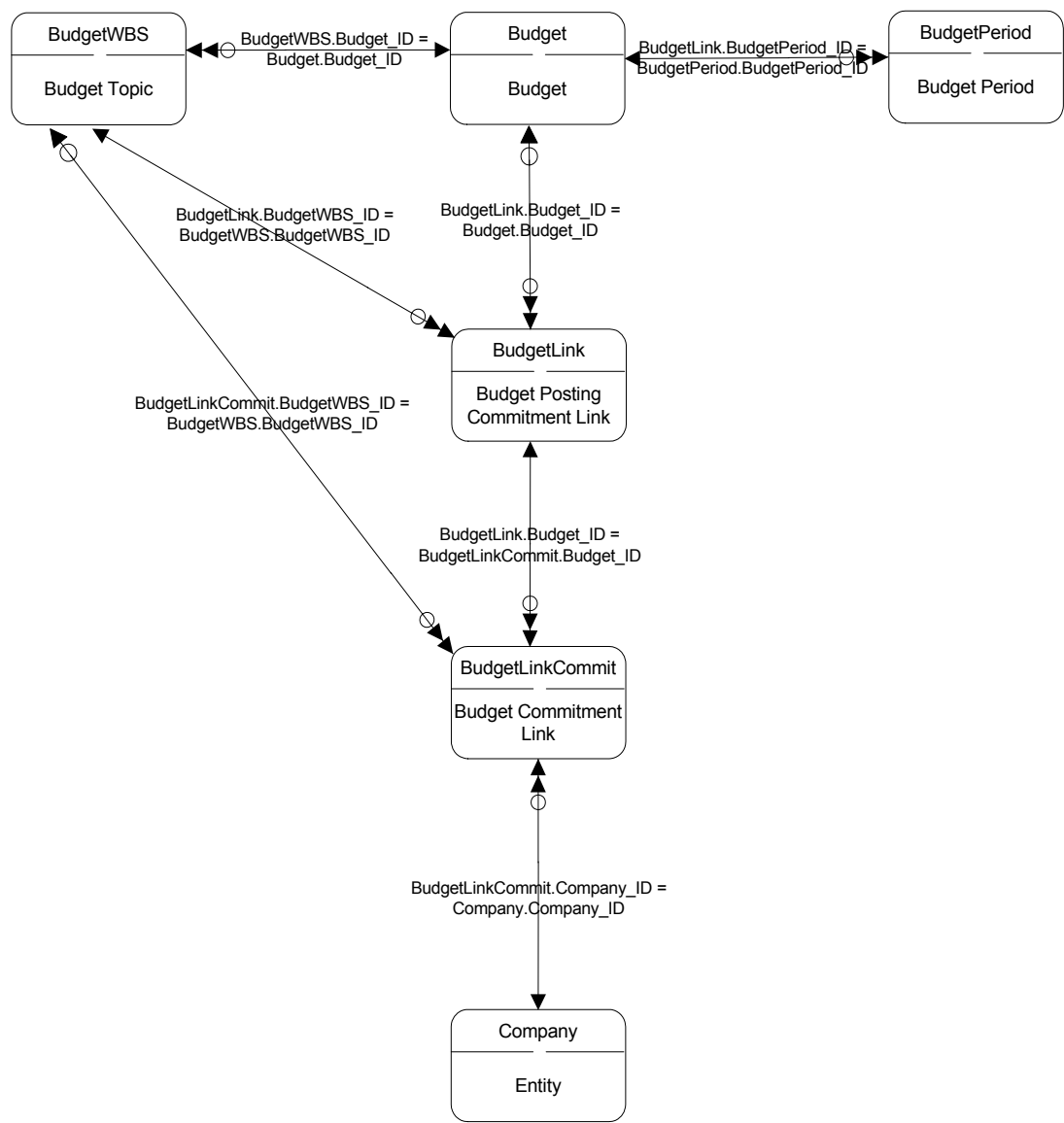


Budget Allocations



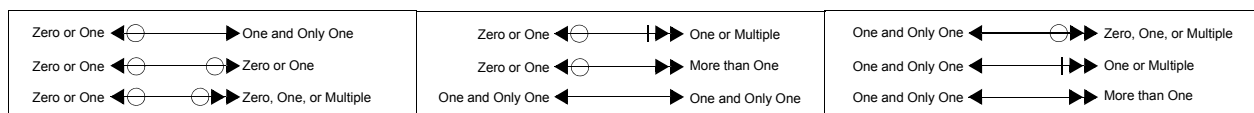
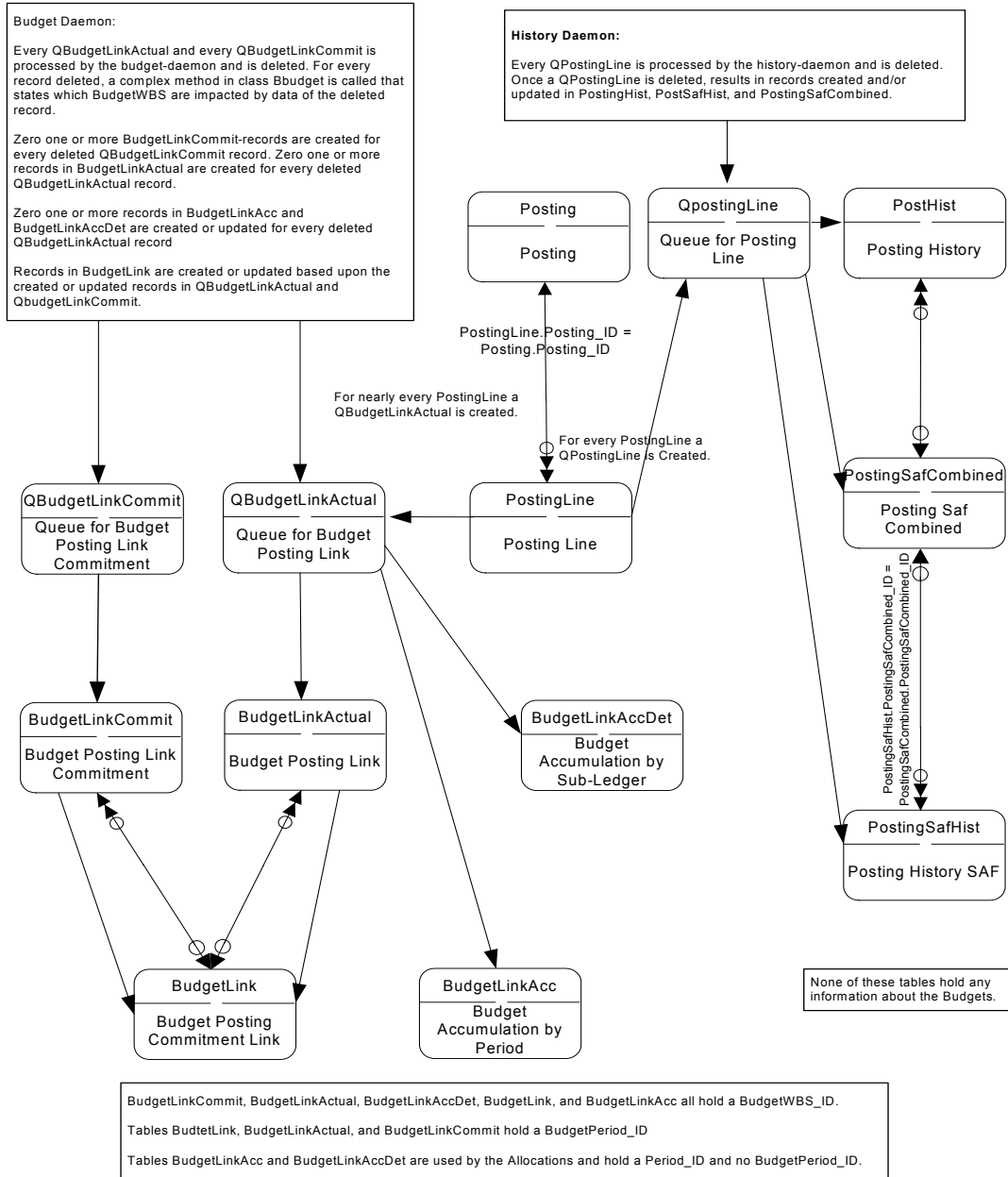
Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 

Budget Commitments

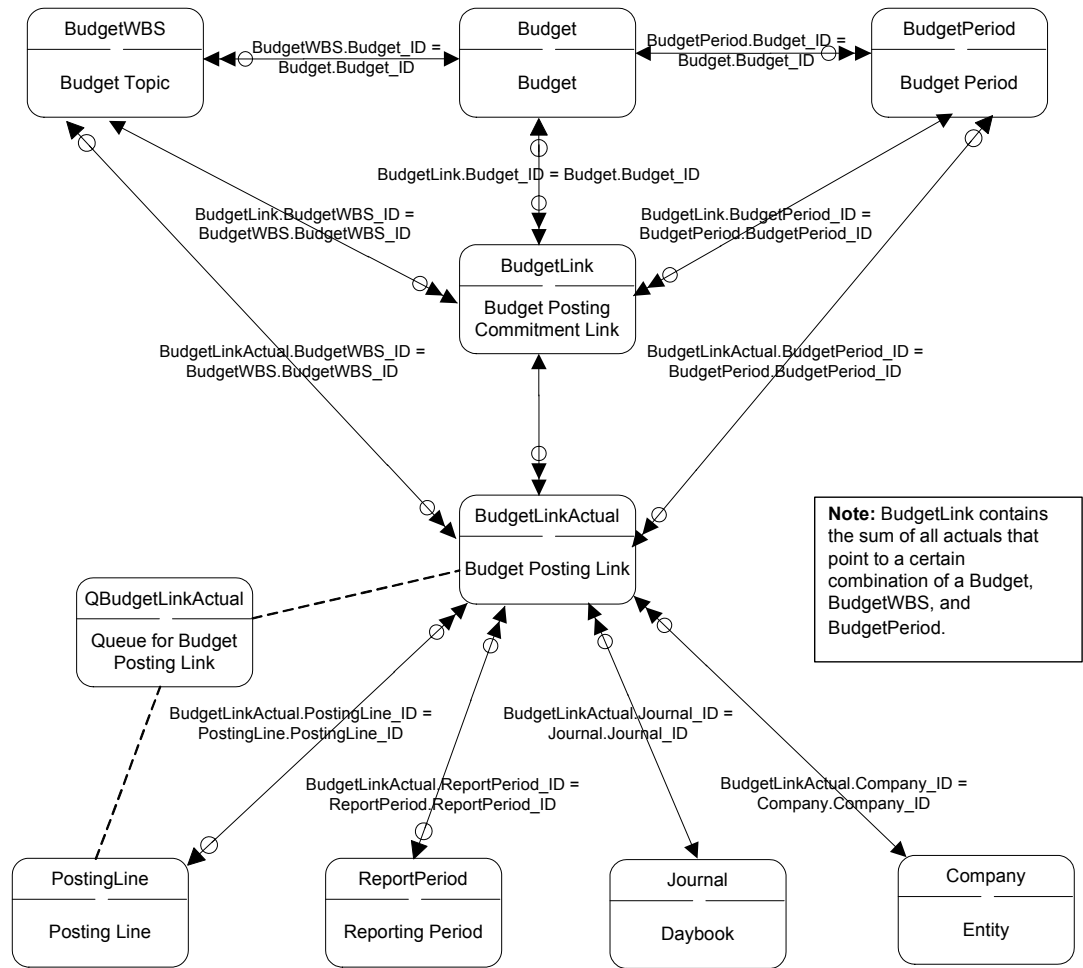


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Budget Flow



Budget History

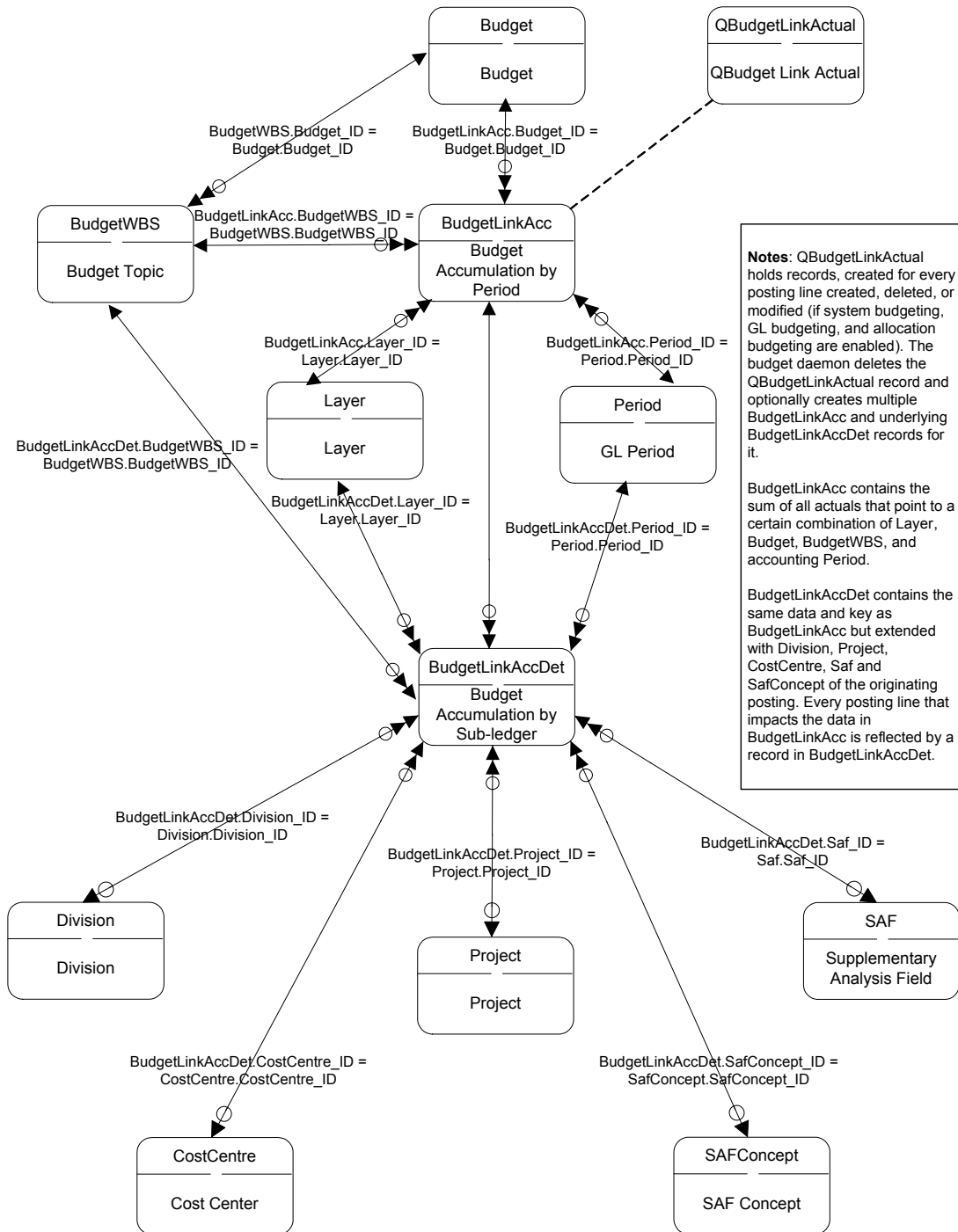


Note: Table QBudgetLinkActual is a table that holds records that are created for every posting line that is created, deleted, or modified (if the budgeting has been turned on for the system and the GL is enabled for budgeting). The budget daemon will delete the QBudgetLinkActual record and will optionally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

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

Budget History Allocations

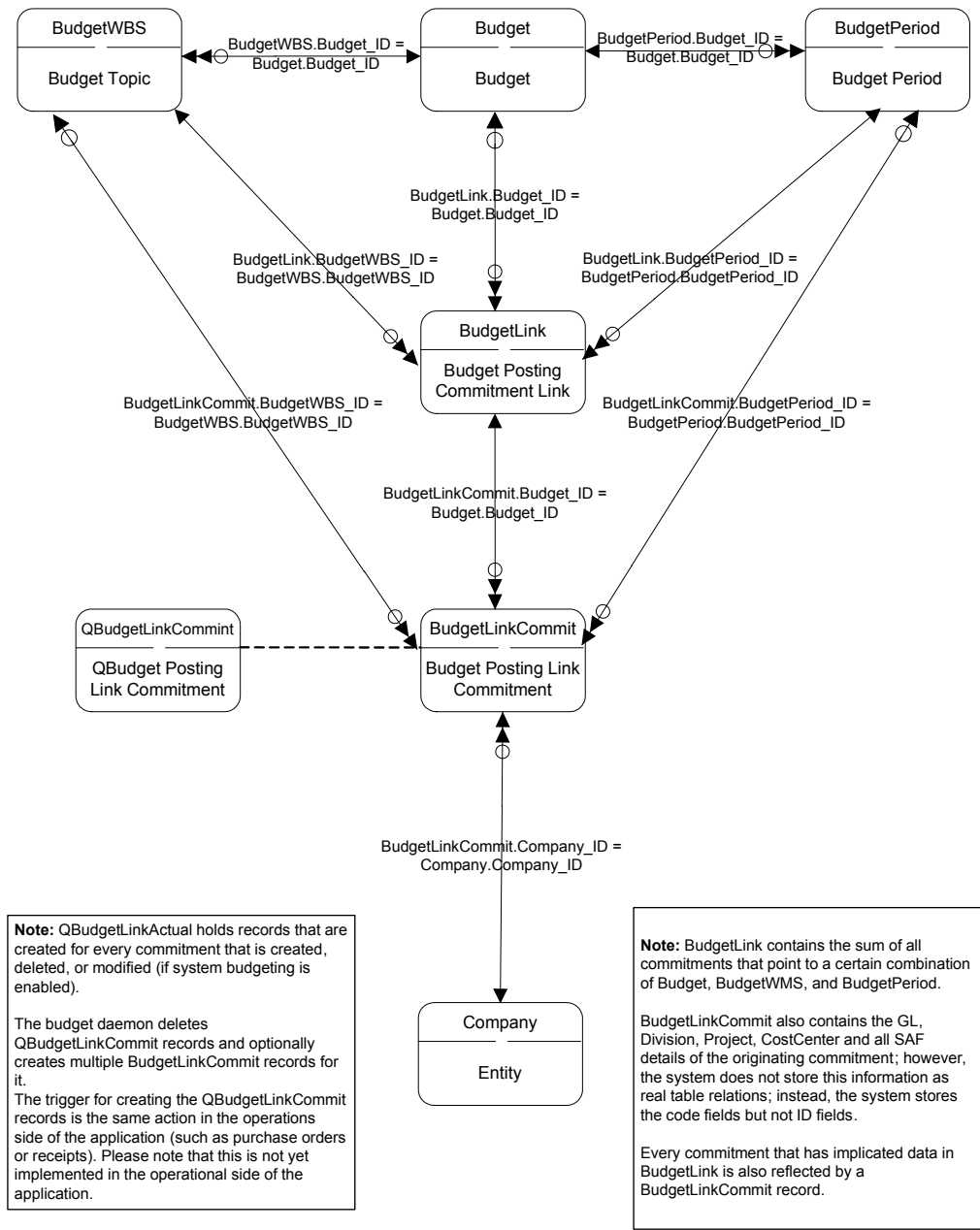


Zero or One One and Only One
 Zero or One Zero or One
 Zero or One Zero, One, or Multiple

Zero or One One or Multiple
 Zero or One More than One
 One and Only One One and Only One

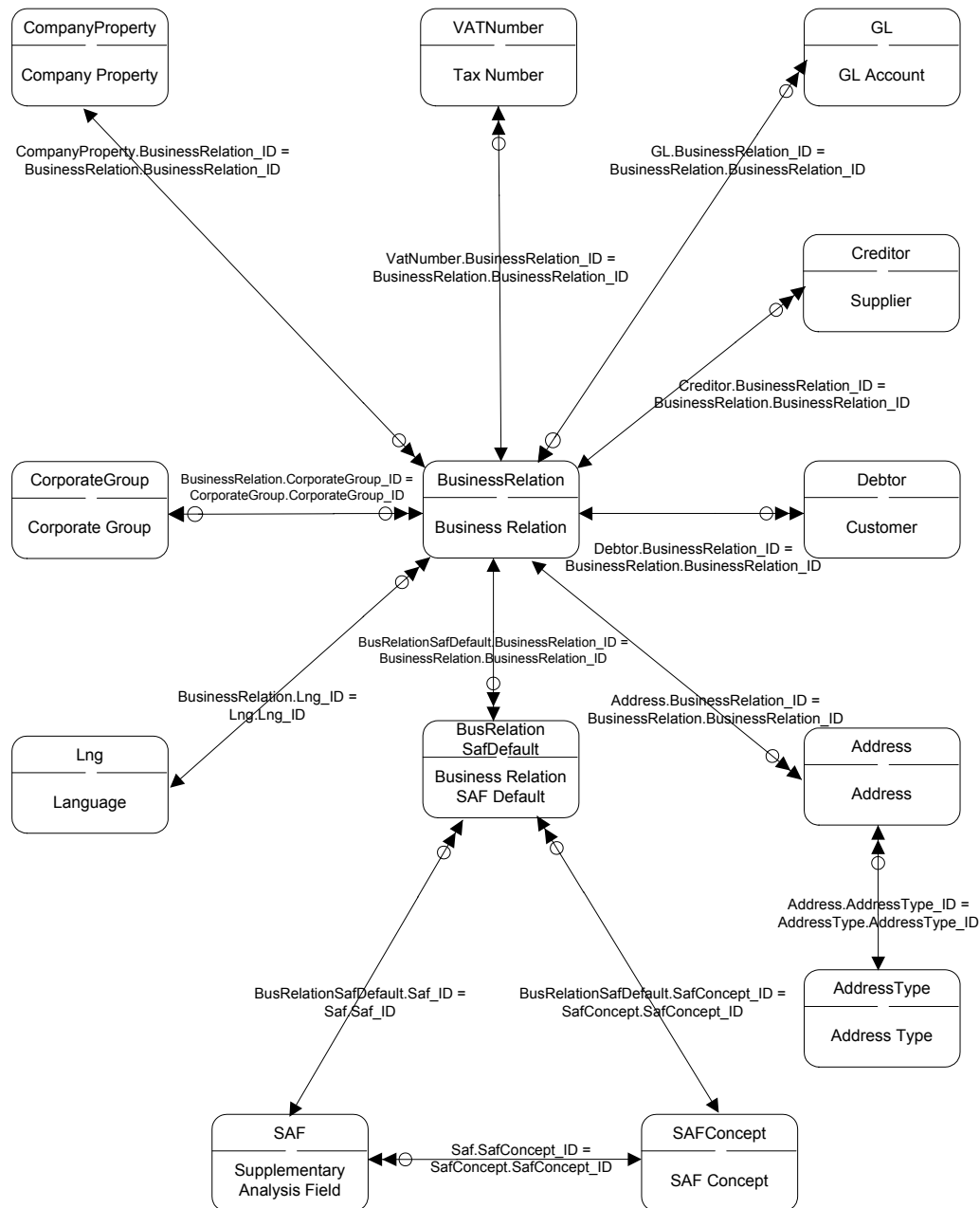
One and Only One Zero, One, or Multiple
 One and Only One One or Multiple
 One and Only One More than One

Budget History Commitment



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

Business Relations I

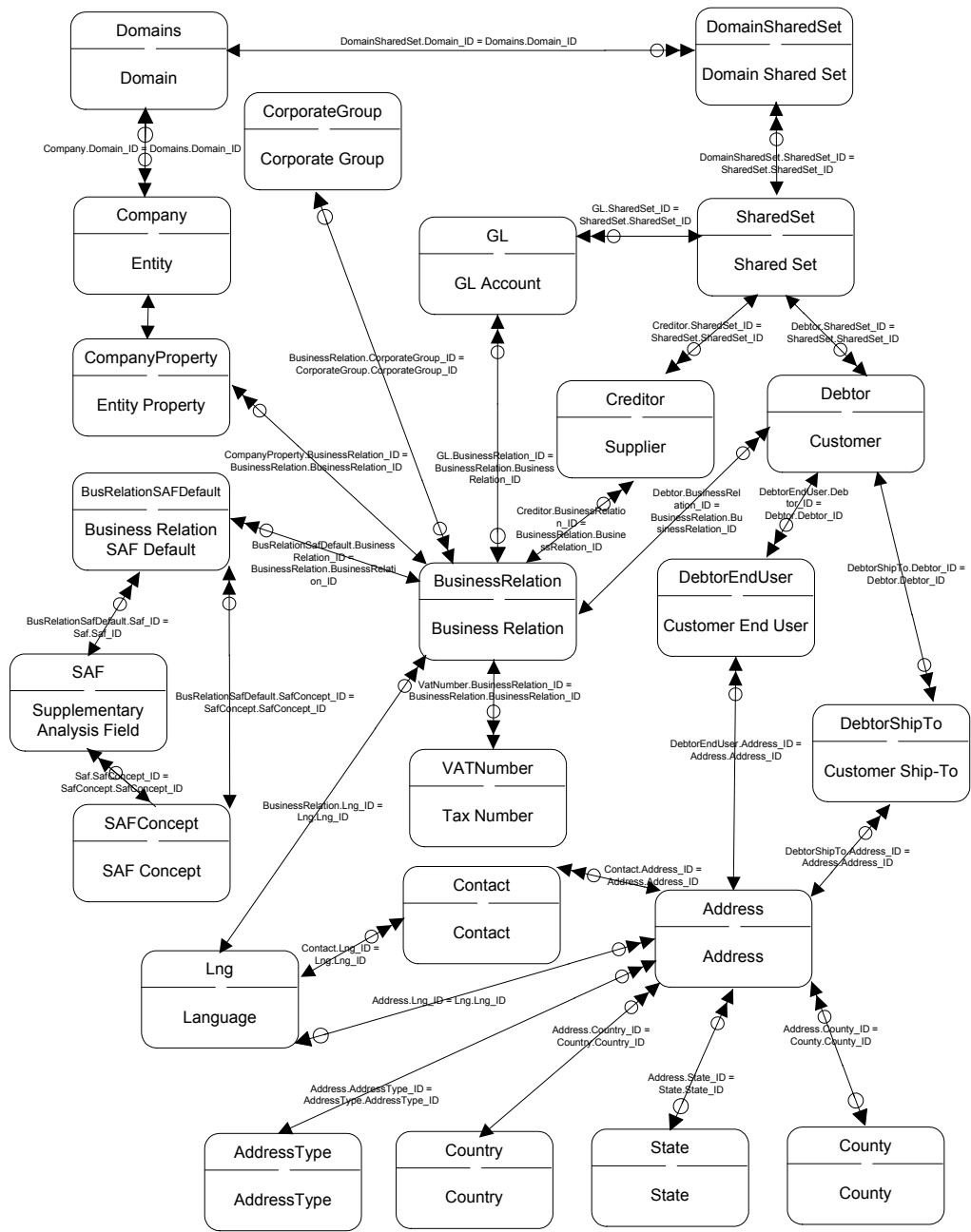


Zero or One $\leftarrow \bigcirc \rightarrow$ One and Only One
 Zero or One $\leftarrow \bigcirc \rightarrow \bigcirc$ Zero or One
 Zero or One $\leftarrow \bigcirc \rightarrow \bigcirc$ Zero, One, or Multiple

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

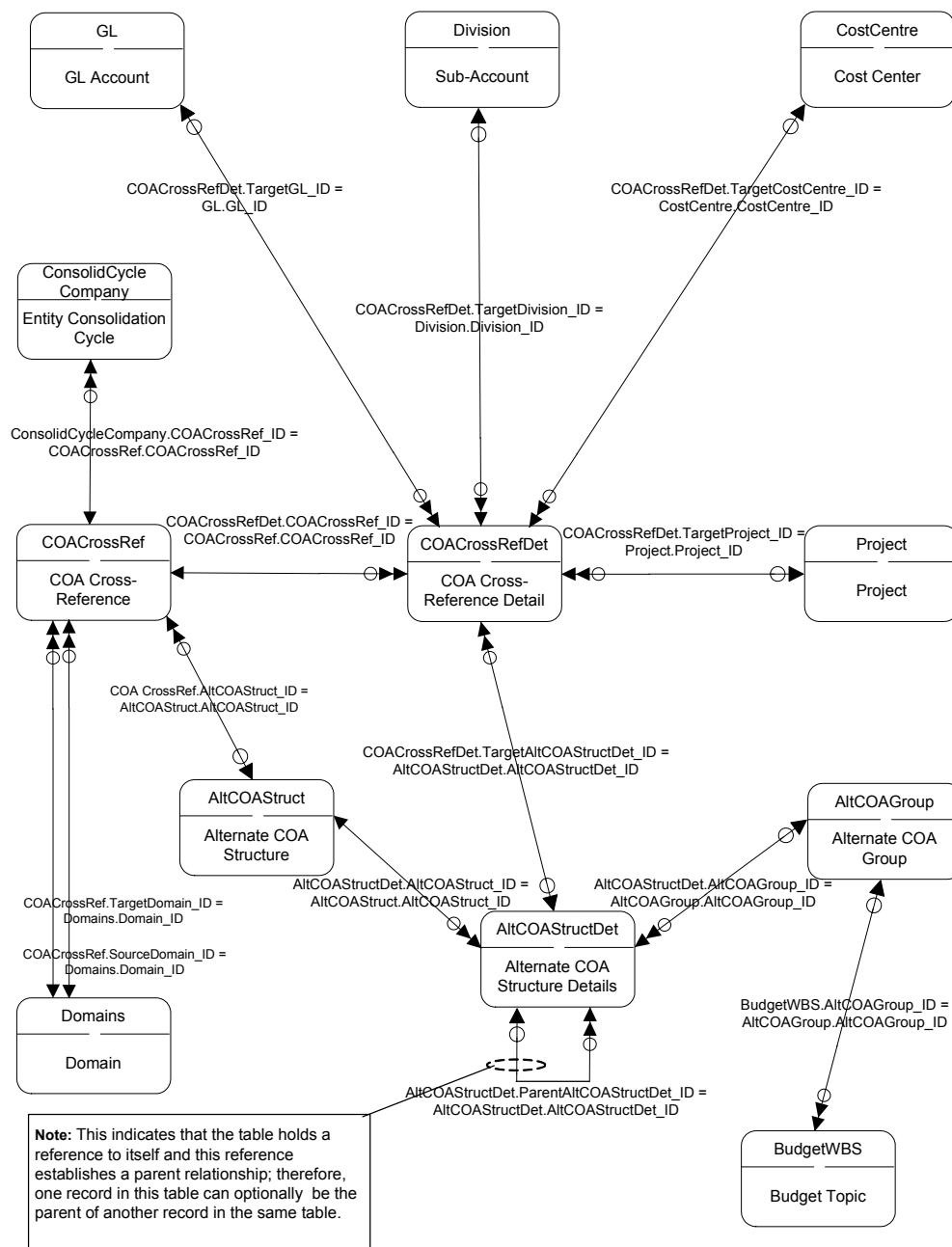
One and Only One $\leftarrow \bigcirc \rightarrow \bigcirc$ Zero, One, or Multiple
 One and Only One $\leftarrow \bigcirc \rightarrow \parallel$ One or Multiple
 One and Only One $\leftarrow \bigcirc \rightarrow \parallel$ More than One

Business Relations II



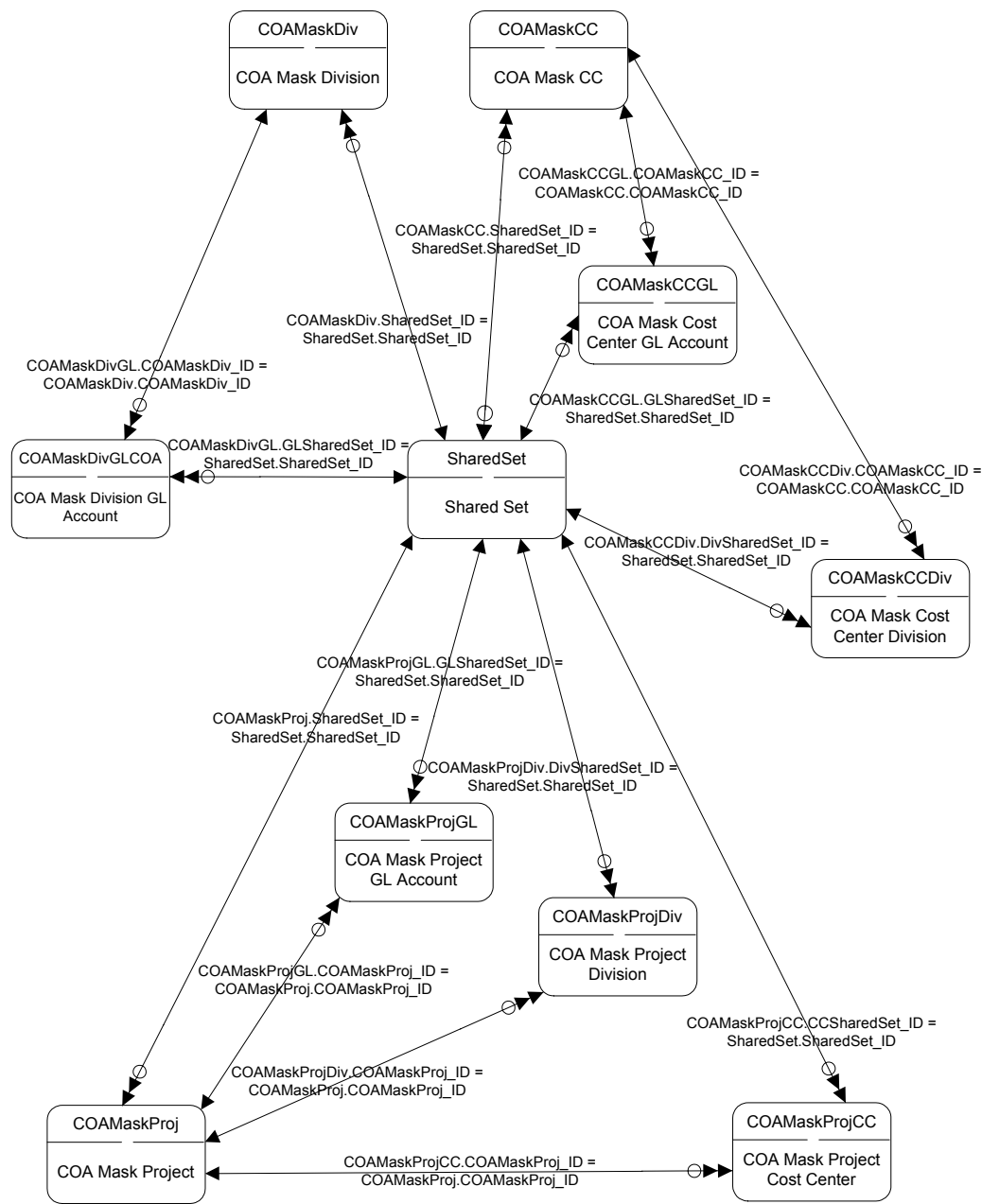
Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

COA Cross-Reference



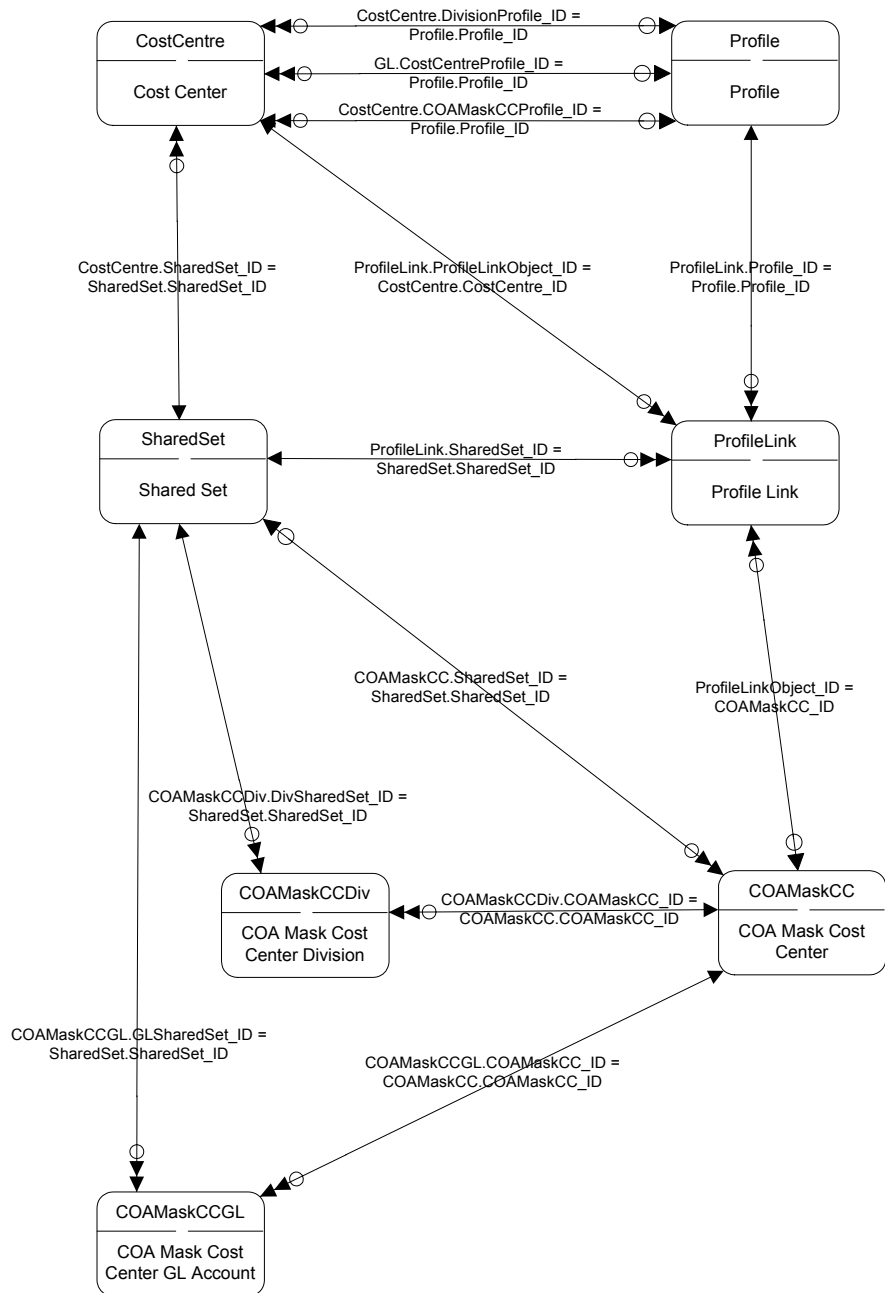
Zero or One	One and Only One	Zero or One	One or Multiple	One and Only One	Zero, One, or Multiple
Zero or One	Zero or One	Zero or One	More than One	One and Only One	One or Multiple
Zero or One	Zero, One, or Multiple	One and Only One	One and Only One	One and Only One	More than One

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

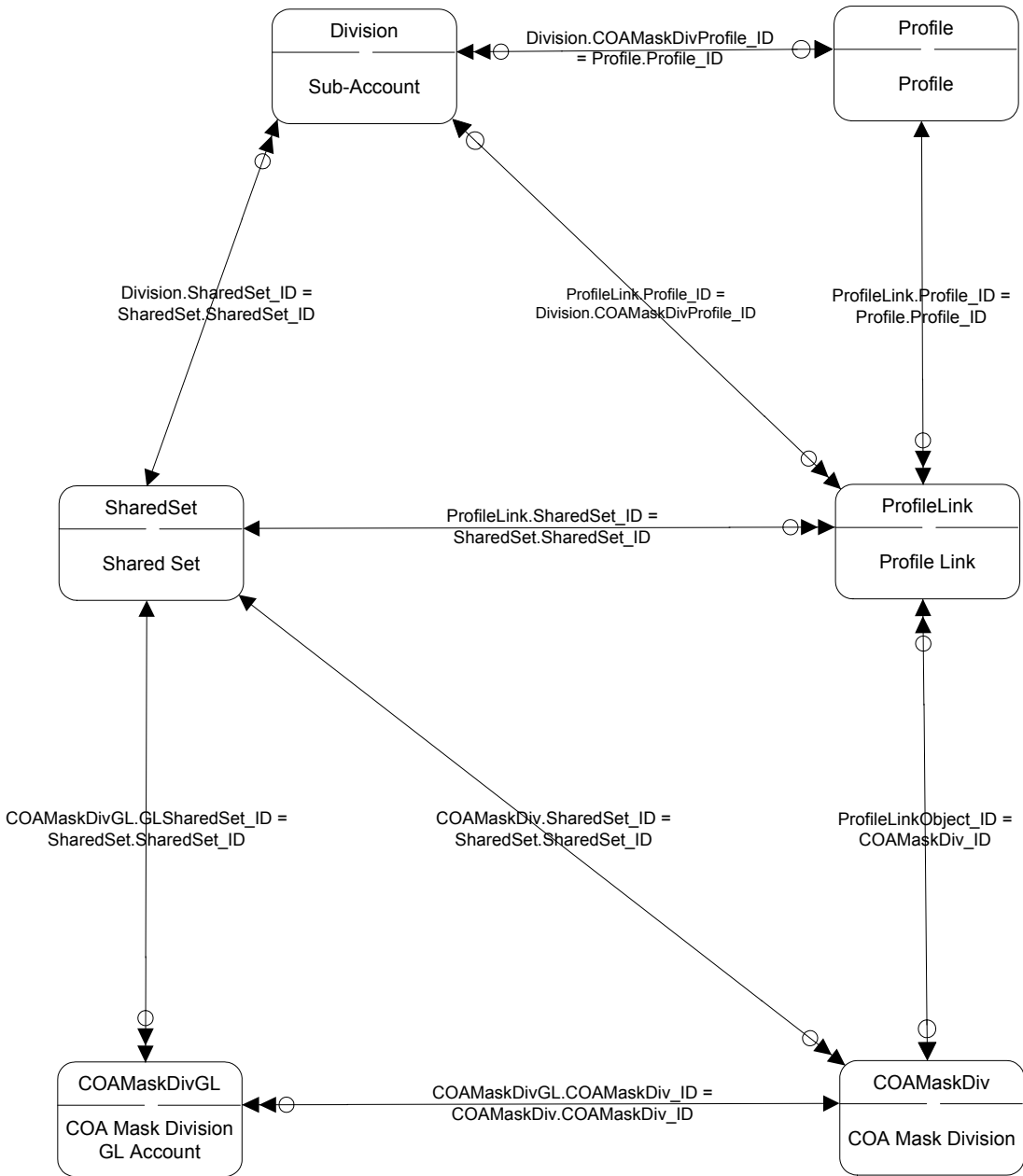


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One
 Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One
 Zero or One $\leftarrow \ominus \rightarrow \oplus$ Zero, One, or Multiple

Zero or One $\leftarrow \ominus \dashrightarrow$ One or Multiple
 Zero or One $\leftarrow \ominus \rightarrow \oplus$ More than One
 One and Only One $\leftarrow \ominus \rightarrow \oplus$ One and Only One

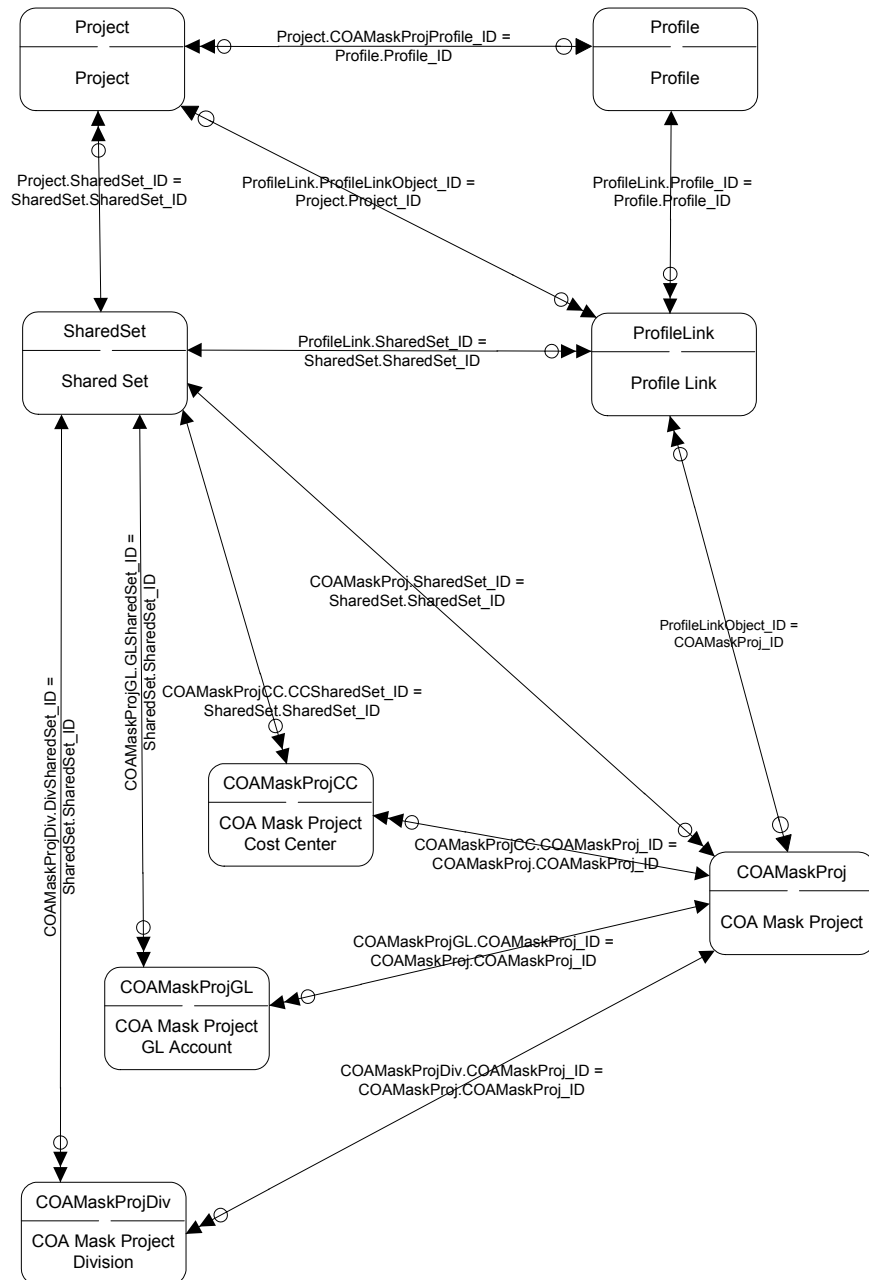
One and Only One $\leftarrow \ominus \rightarrow \oplus$ Zero, One, or Multiple
 One and Only One $\leftarrow \ominus \dashrightarrow$ One or Multiple
 One and Only One $\leftarrow \ominus \rightarrow \oplus$ More than One

COA Mask Division



Zero, One, or Multiple	One or Multiple	Zero, One, or Multiple	One or Multiple
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 Project

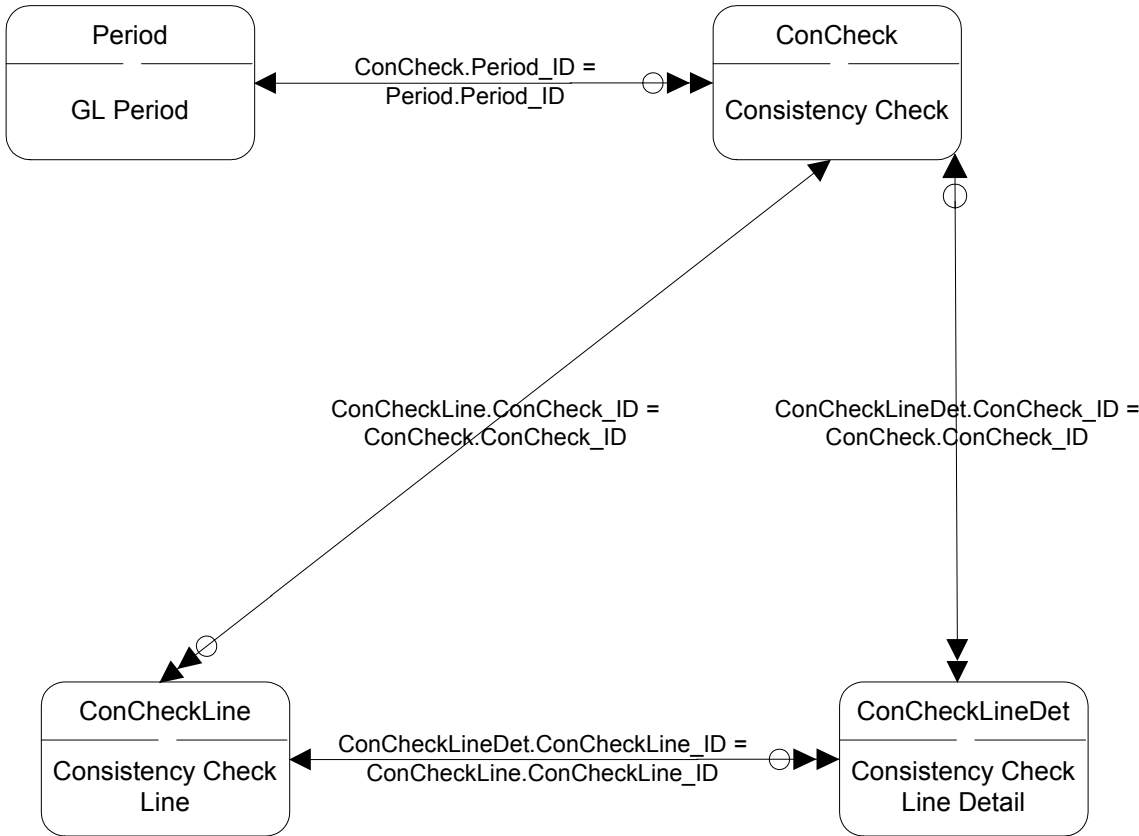


Zero or One $\leftarrow \bigcirc \rightarrow$ One and Only One
 Zero or One $\leftarrow \bigcirc \rightarrow$ Zero or One
 Zero or One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple

Zero or One $\leftarrow \bigcirc \dashrightarrow$ One or Multiple
 Zero or One $\leftarrow \bigcirc \dashrightarrow$ More than One
 One and Only One $\leftarrow \bigcirc \rightarrow$ One and Only One

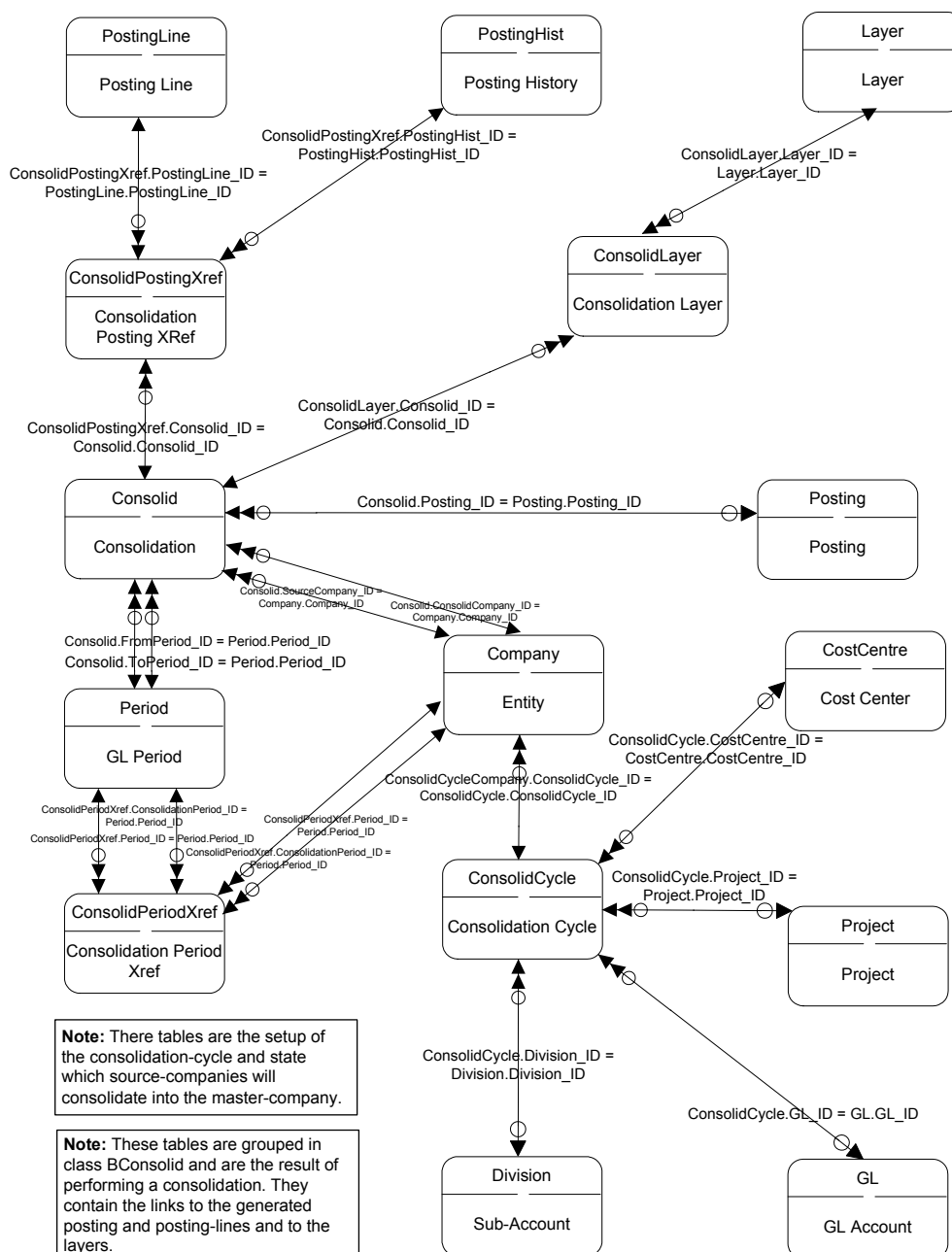
One and Only One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple
 One and Only One $\leftarrow \bigcirc \dashrightarrow$ One or Multiple
 One and Only One $\leftarrow \bigcirc \dashrightarrow$ More than One

Consistency Check



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

Consolidation I

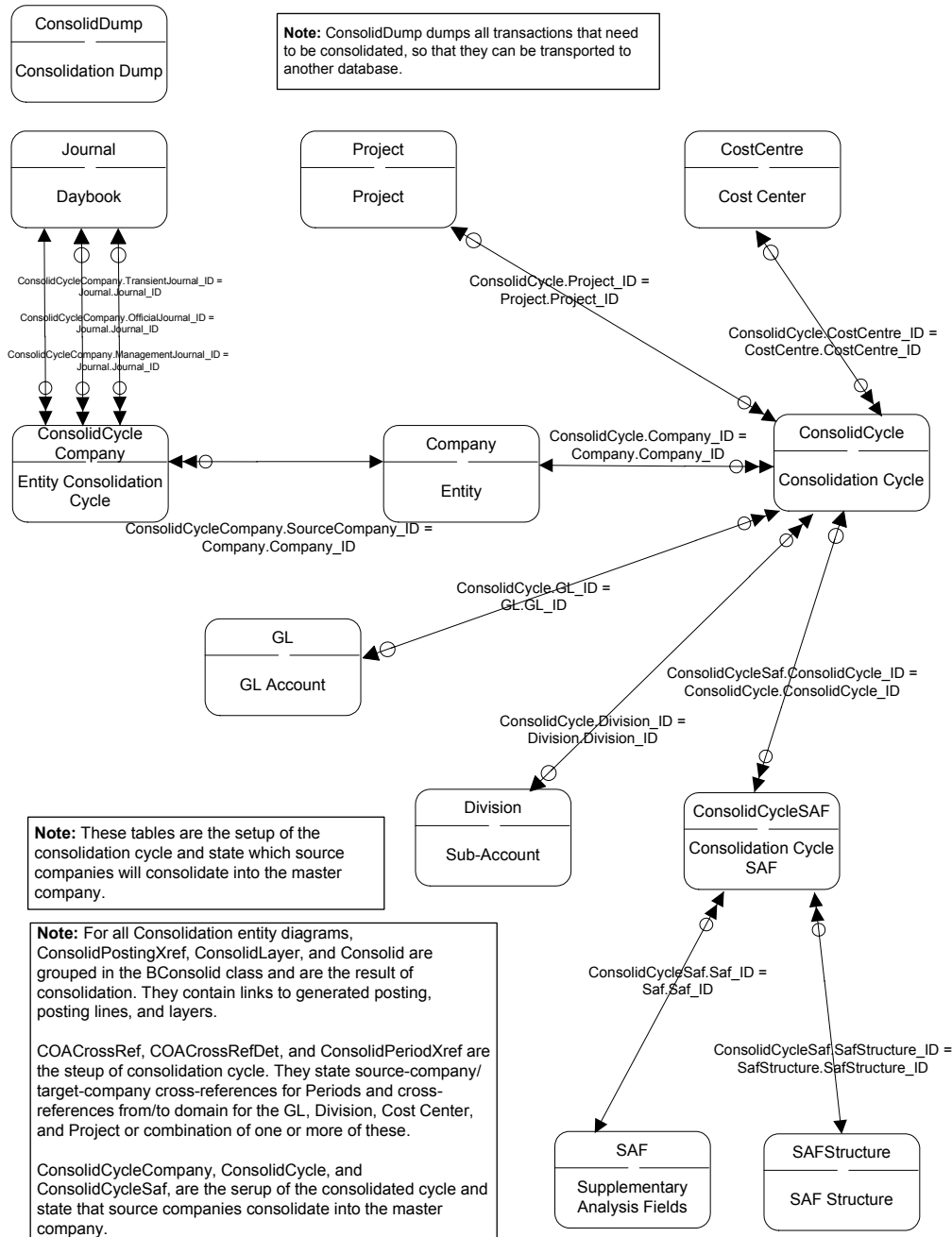


Zero or One One and Only One
 Zero or One Zero or One
 Zero or One Zero, One, or Multiple

Zero or One One or Multiple
 Zero or One More than One
 One and Only One One and Only One

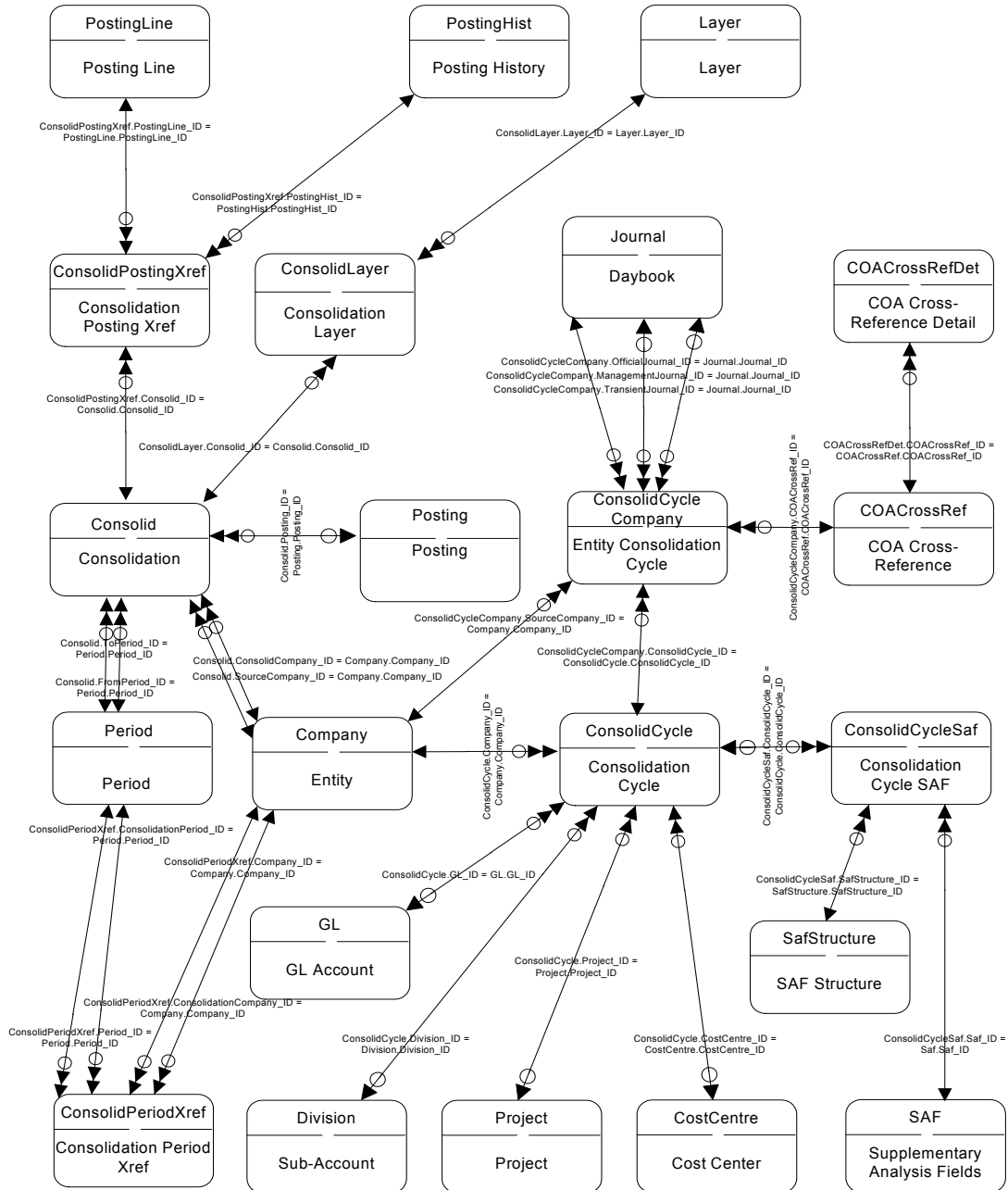
One and Only One Zero, One, or Multiple
 One and Only One One or Multiple
 One and Only One More than One



















Consolidation II



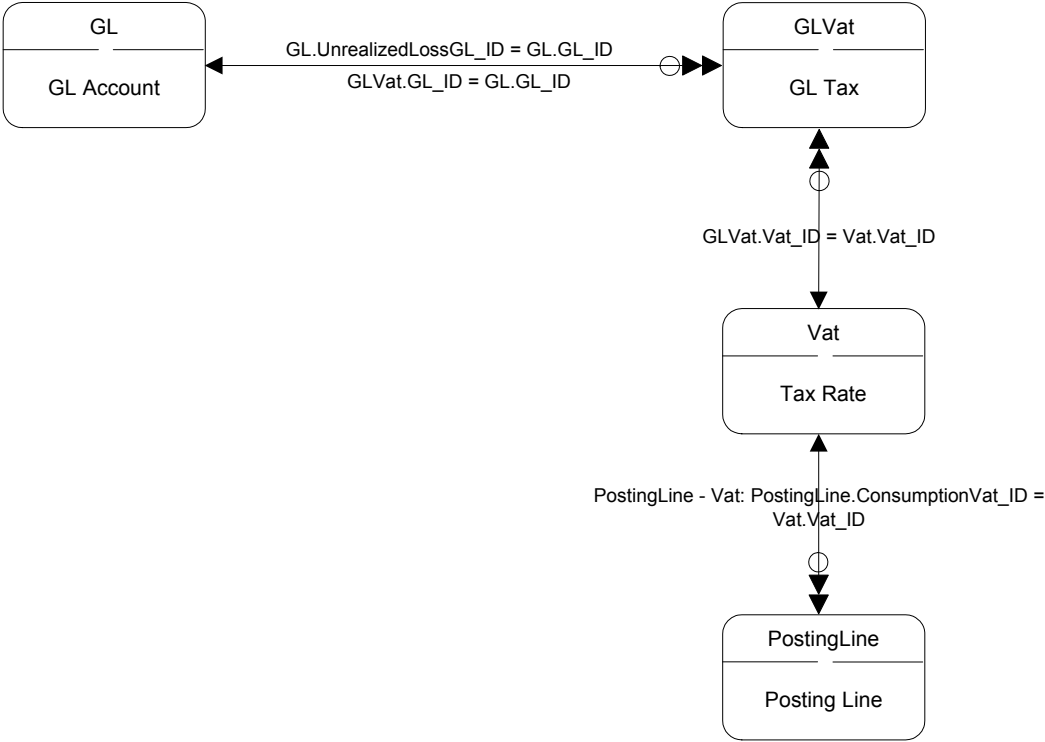
Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Consolidation III



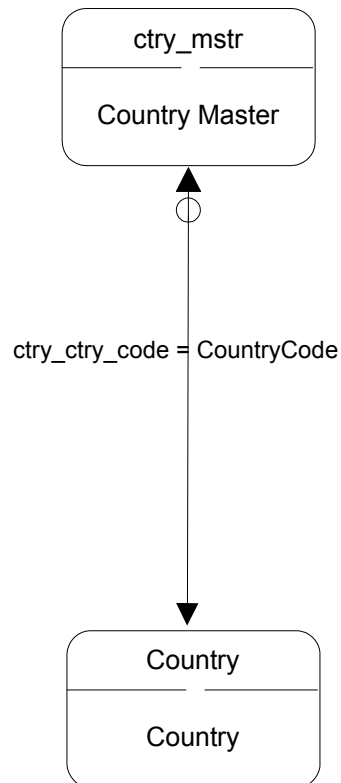
Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 







Consumption Tax















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

Country

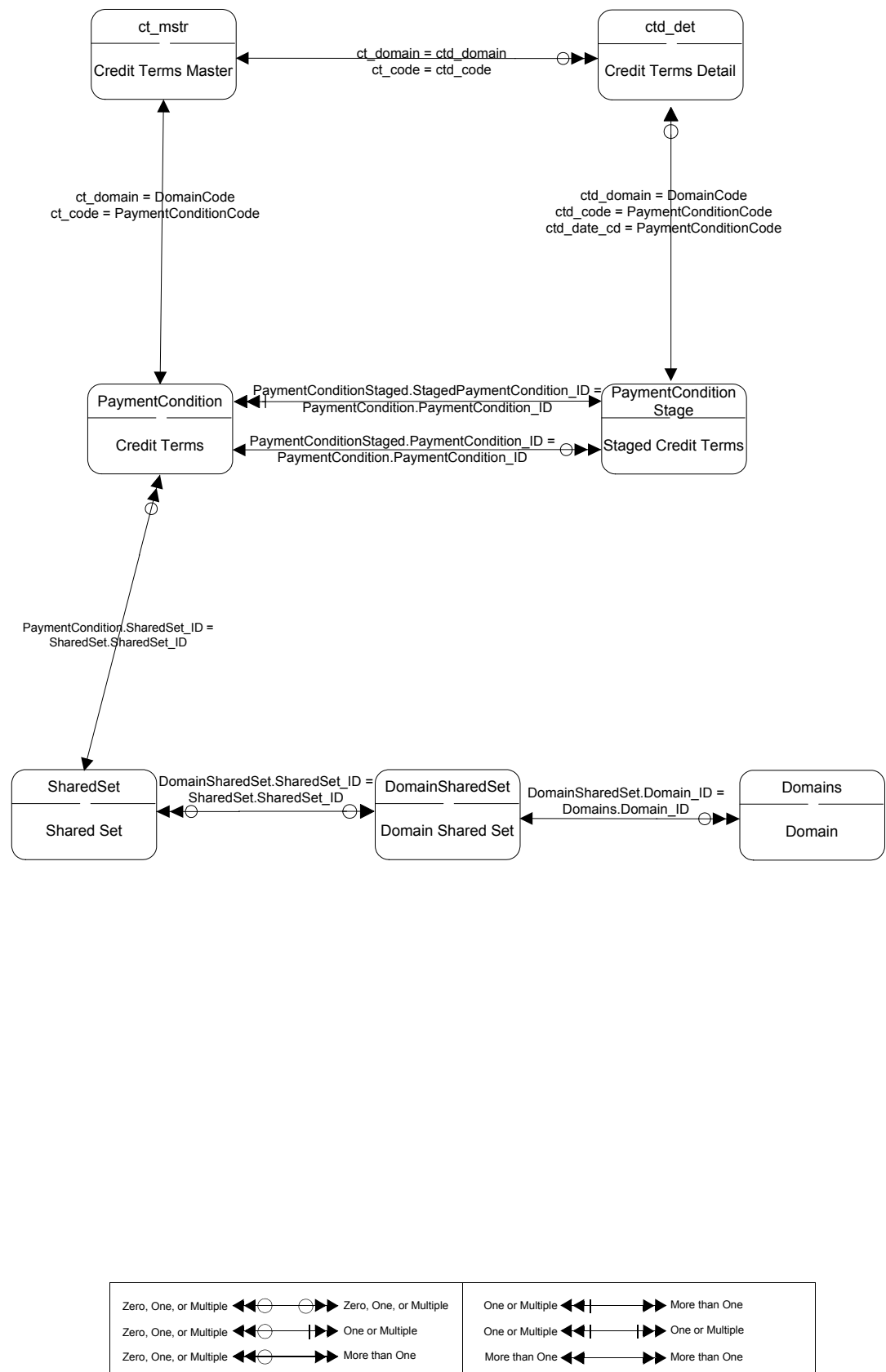


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

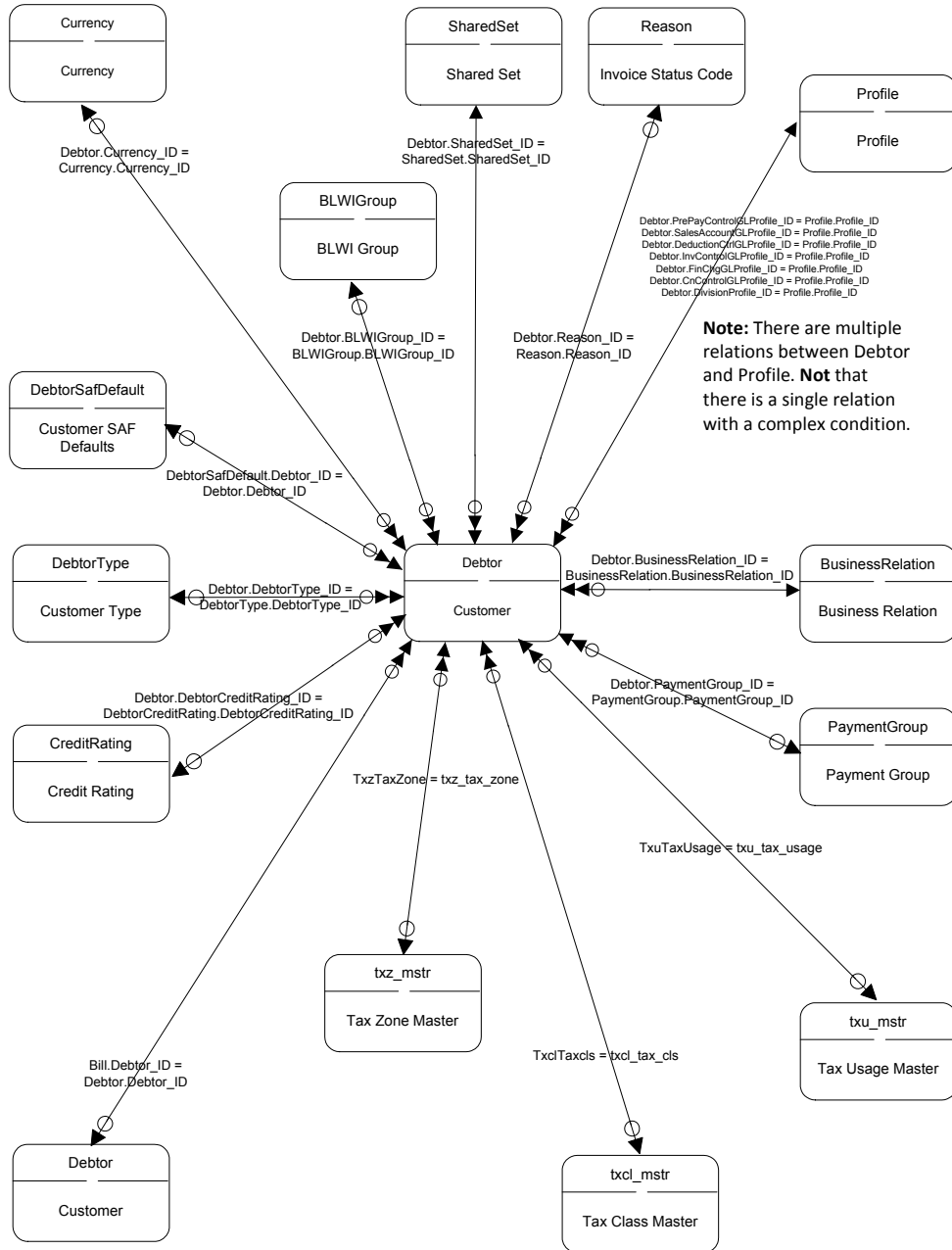
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 




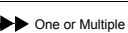





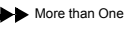





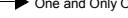


One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Credit Terms

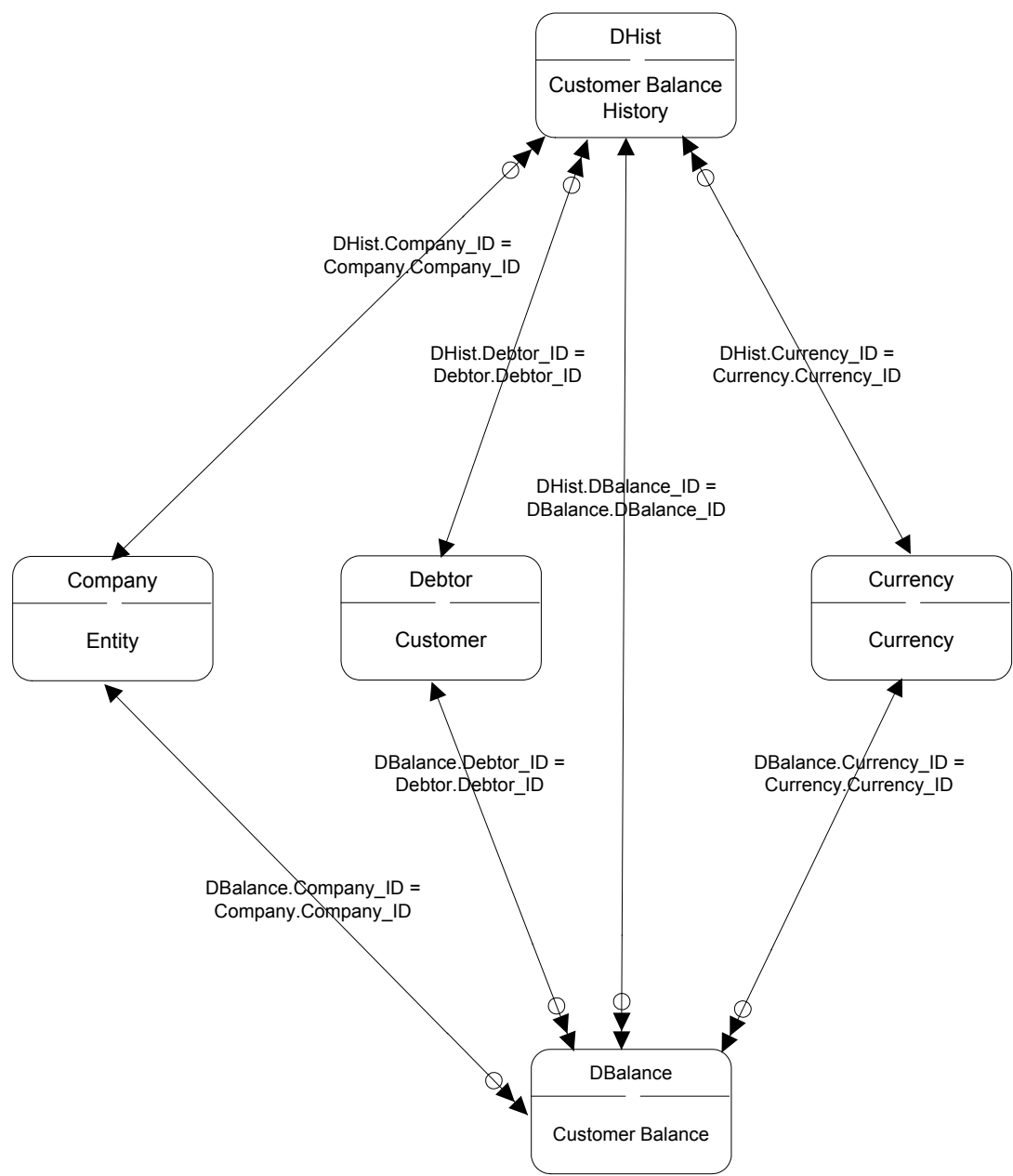


Customer



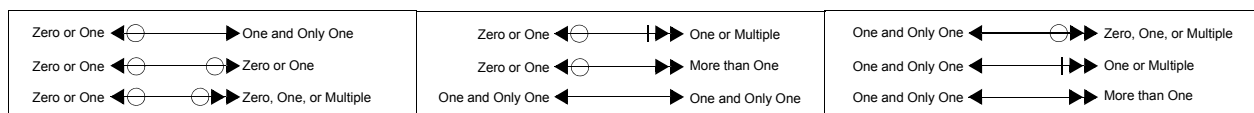
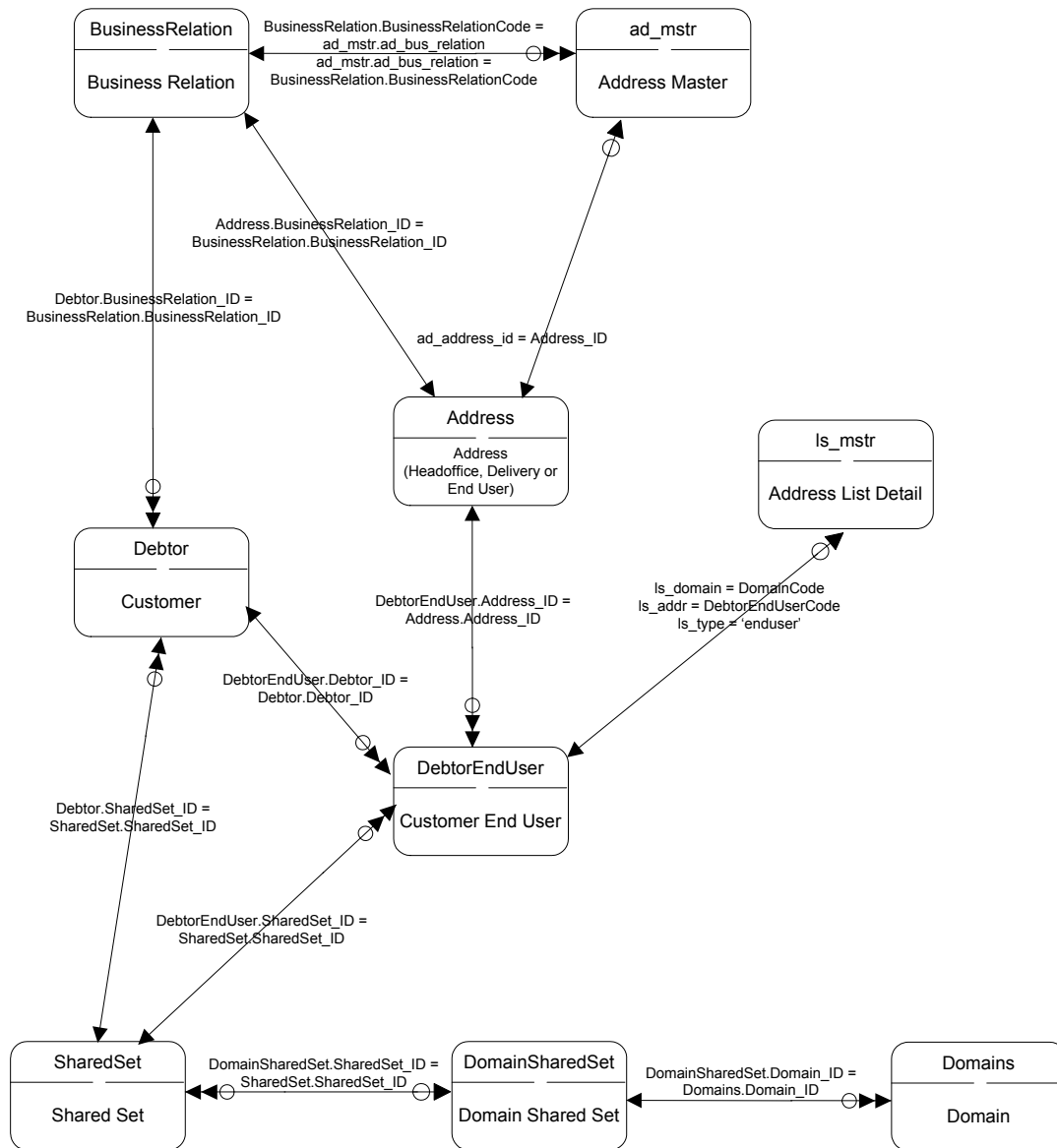
Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 

Customer Balance

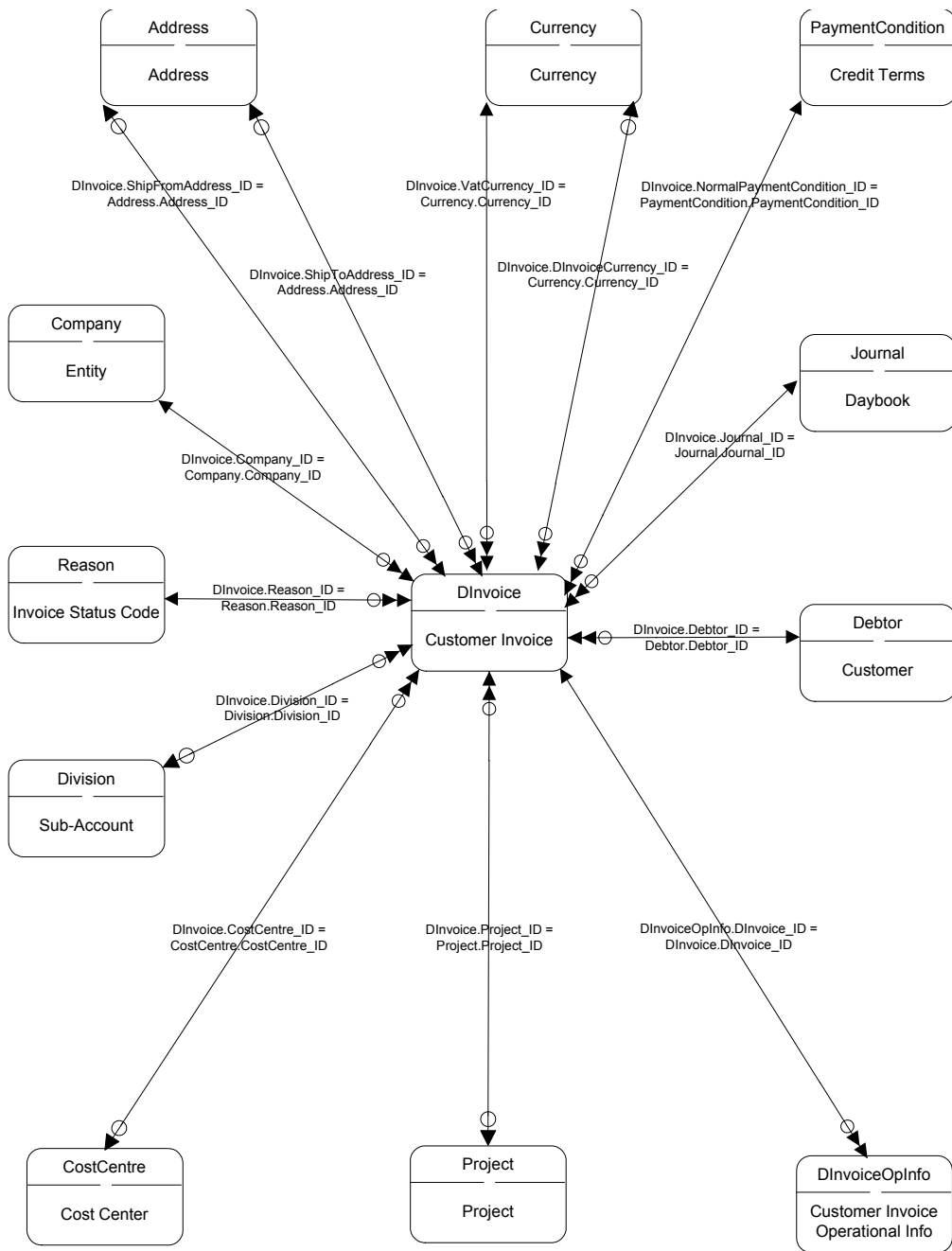


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Customer End User

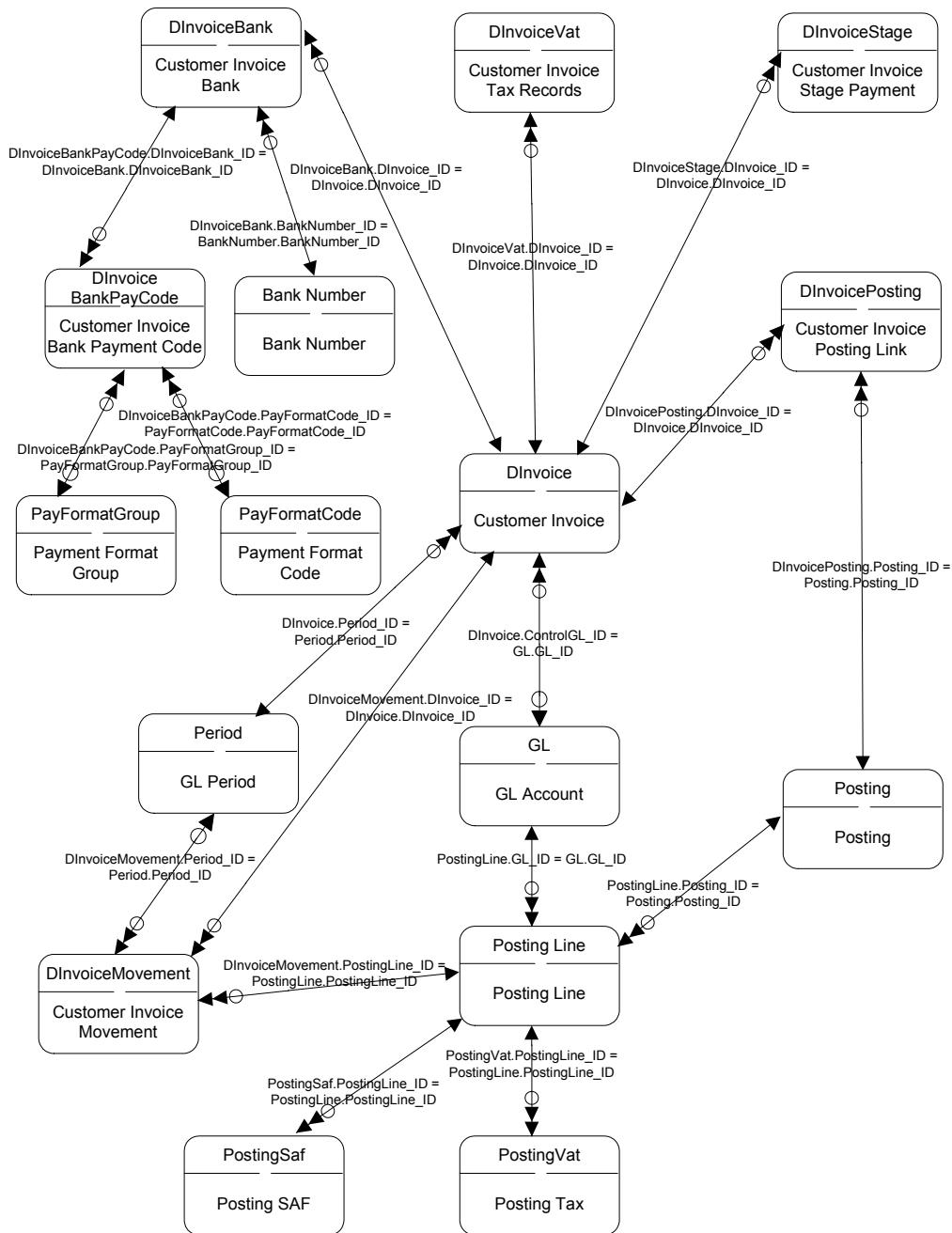


Customer Invoice I



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

Customer Invoice II

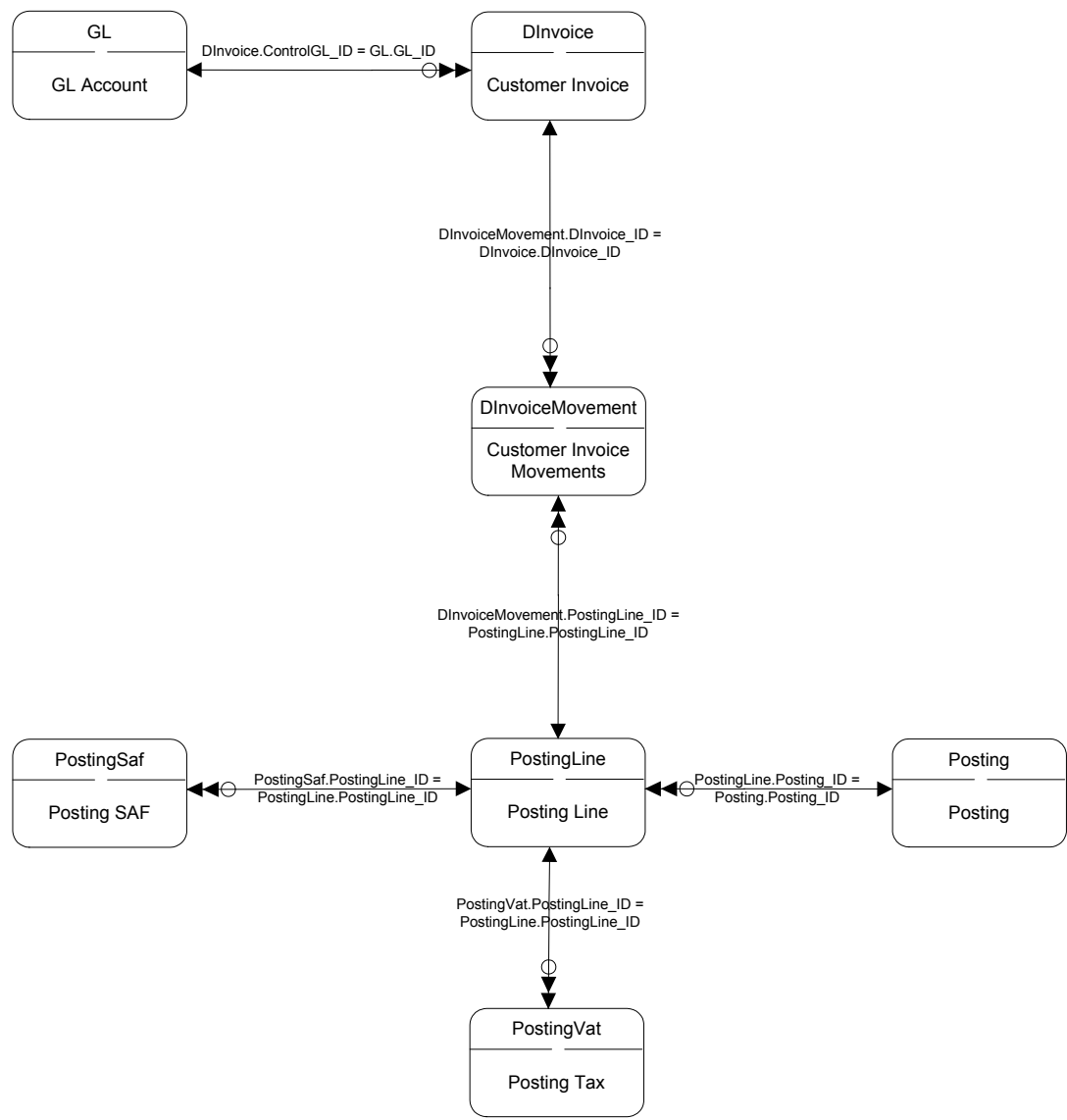


Zero or One One and Only One
 Zero or One Zero or One
 Zero or One Zero, One, or Multiple

Zero or One One or Multiple
 Zero or One More than One
 One and Only One One and Only One

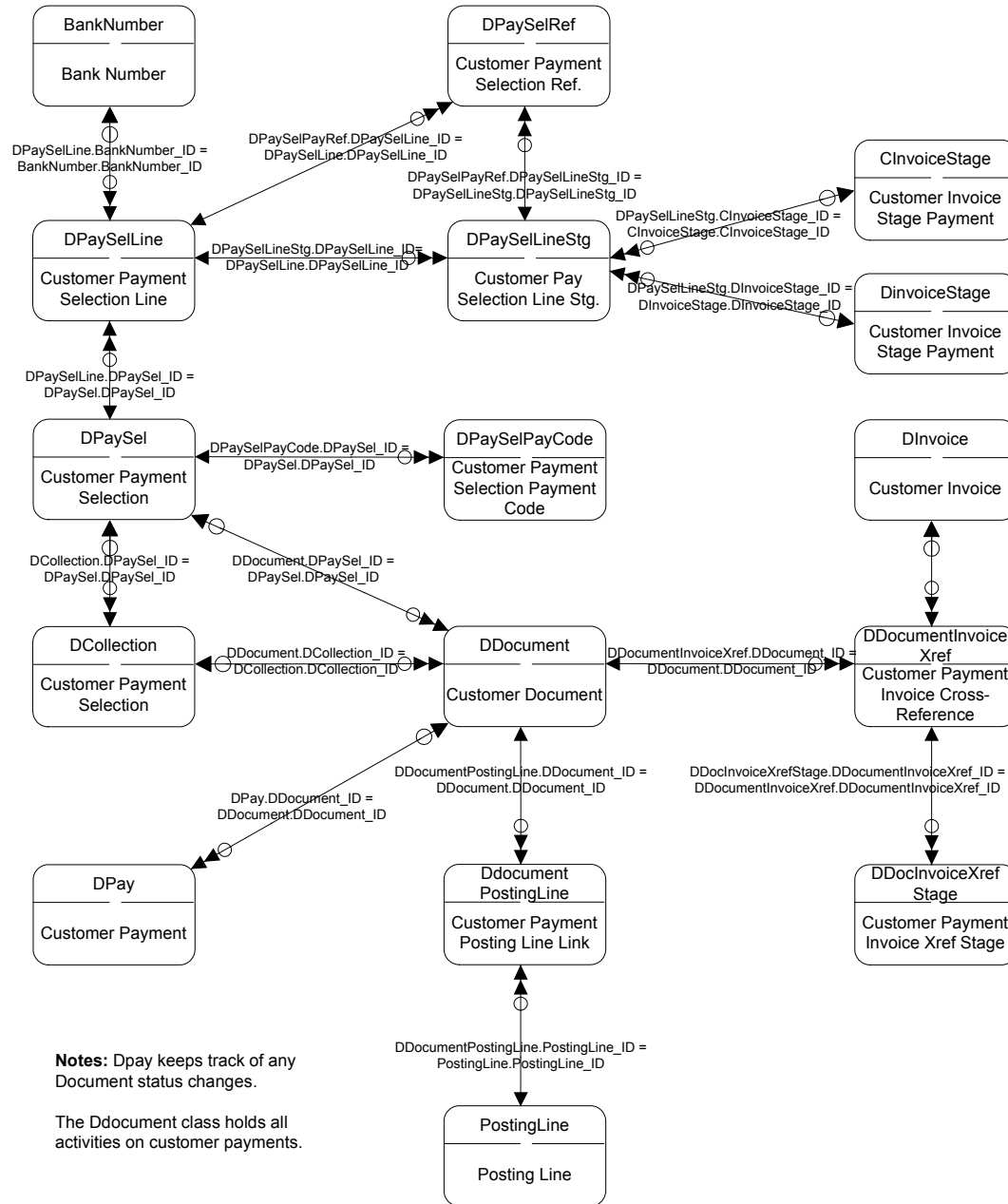
One and Only One Zero, One, or Multiple
 One and Only One One or Multiple
 One and Only One More than One

Customer Invoice Movement



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

Customer Payments

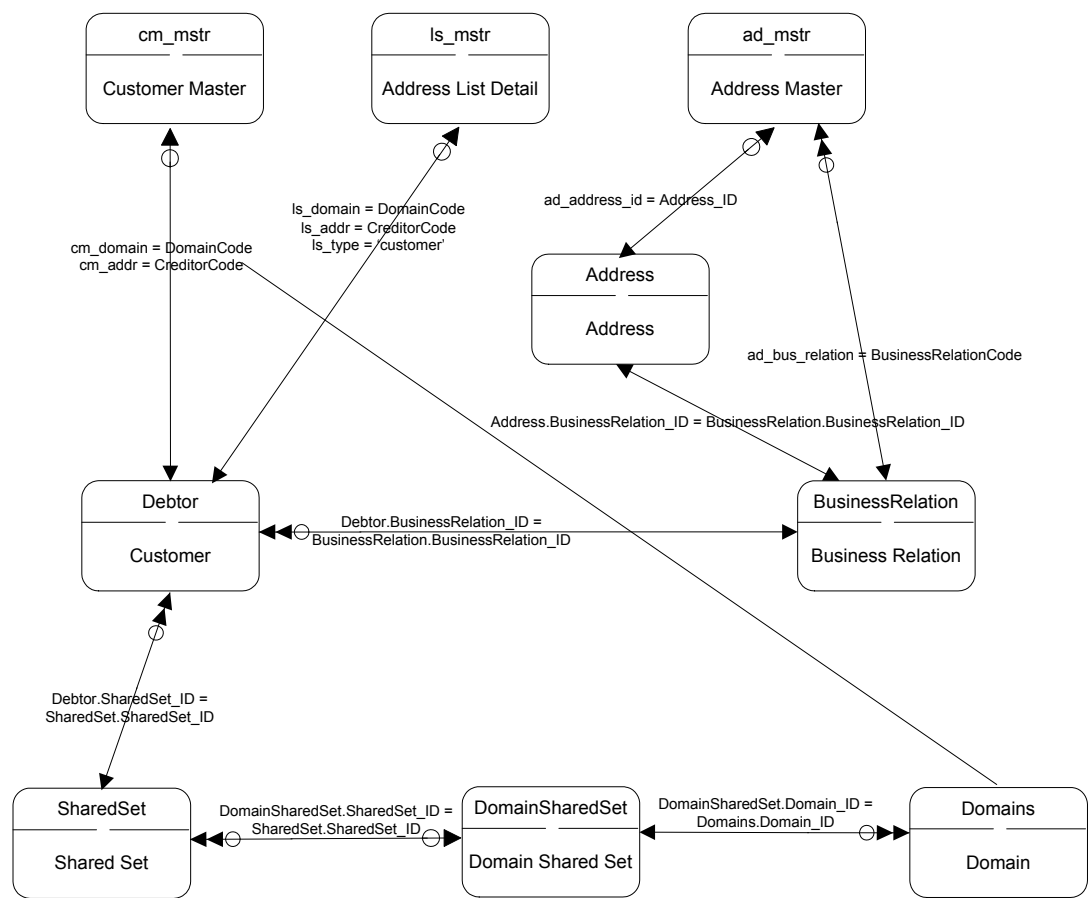


Zero or One One and Only One
 Zero or One Zero or One
 Zero or One Zero, One, or Multiple

Zero or One One or Multiple
 Zero or One More than One
 One and Only One One and Only One

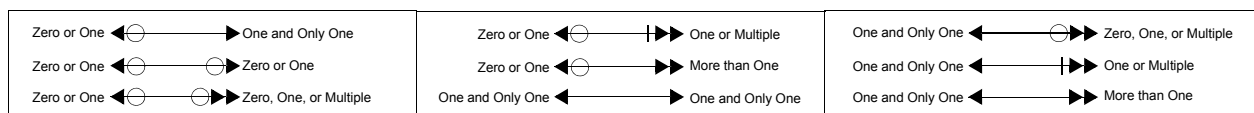
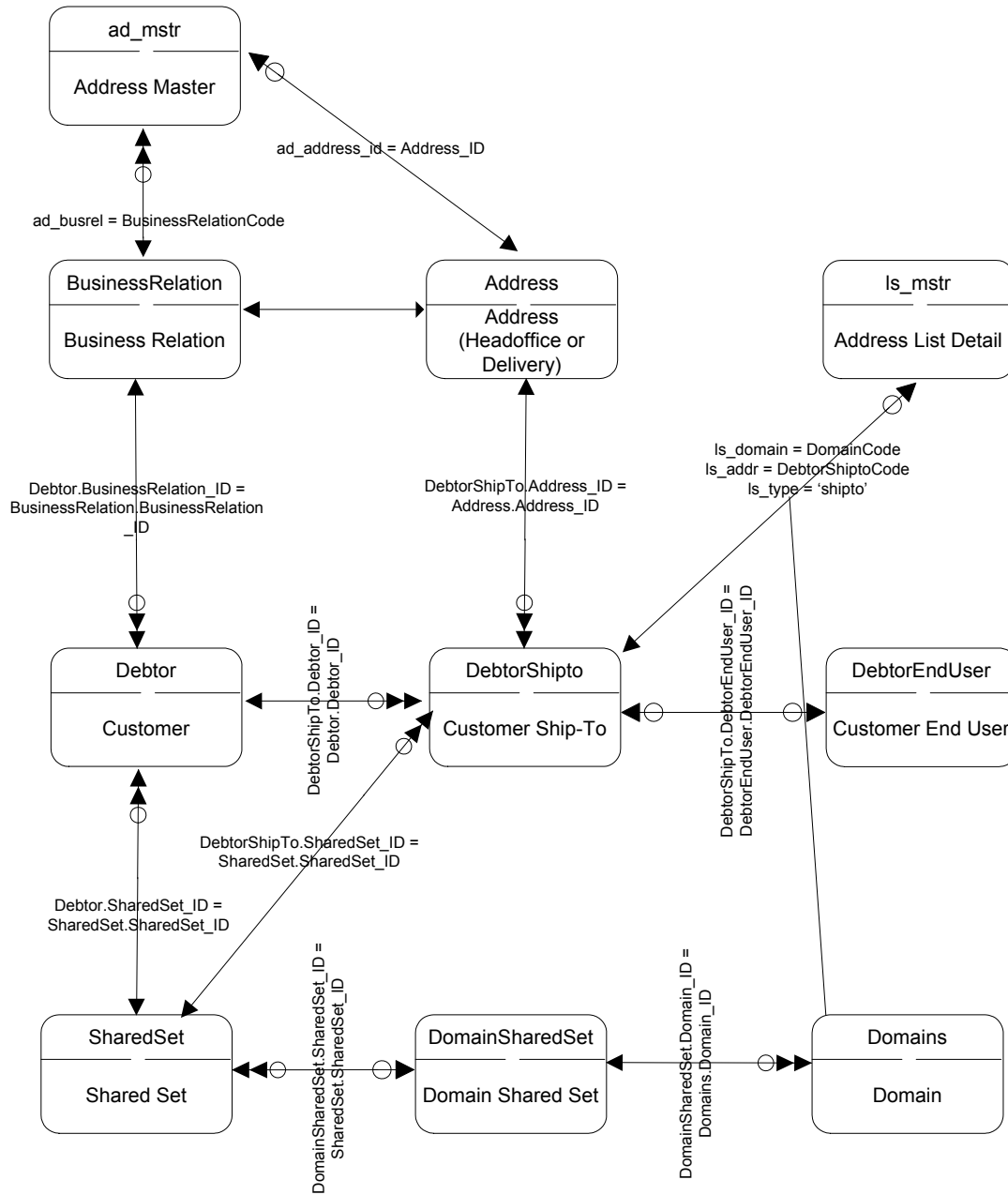
One and Only One Zero, One, or Multiple
 One and Only One One or Multiple
 One and Only One More than One

Customer Replication

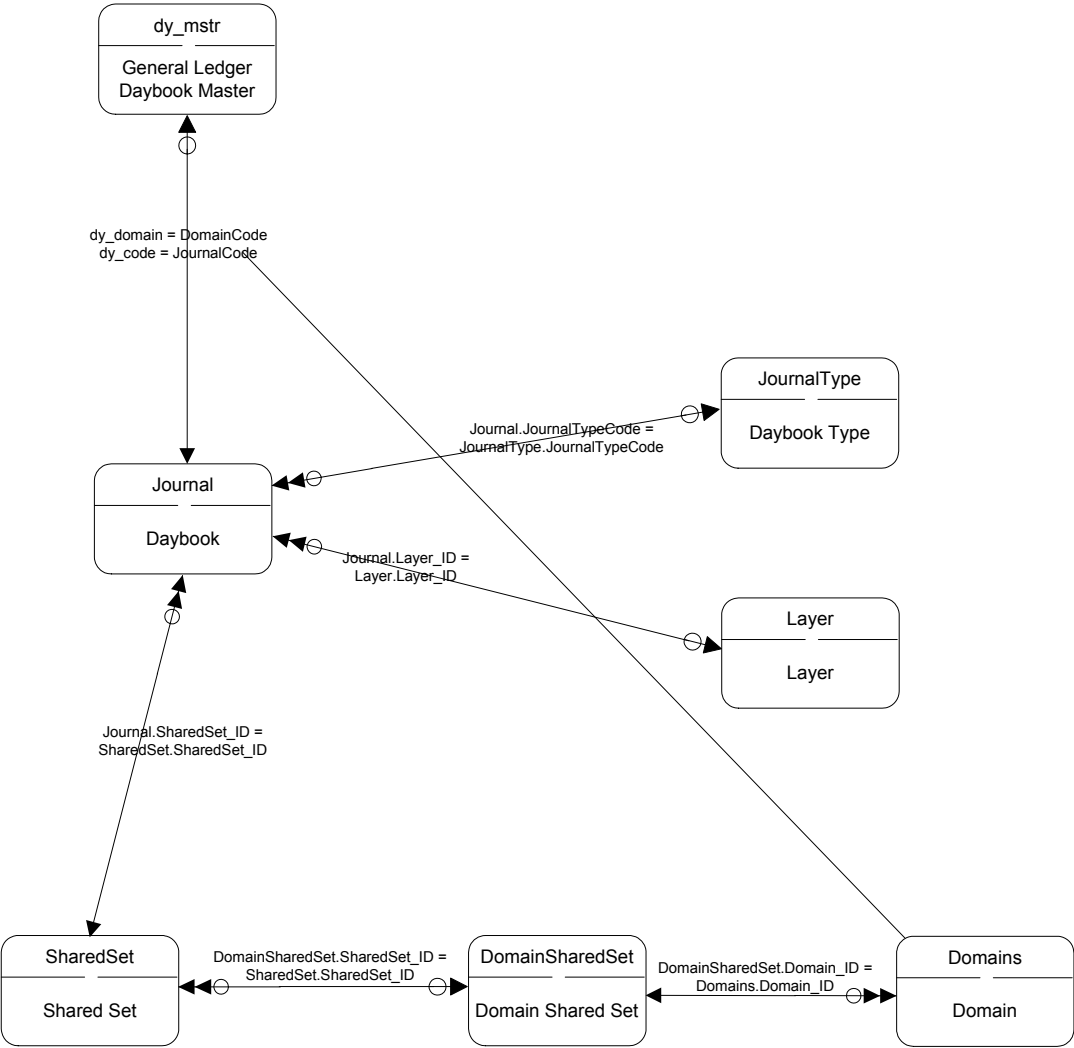


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Customer Ship-To

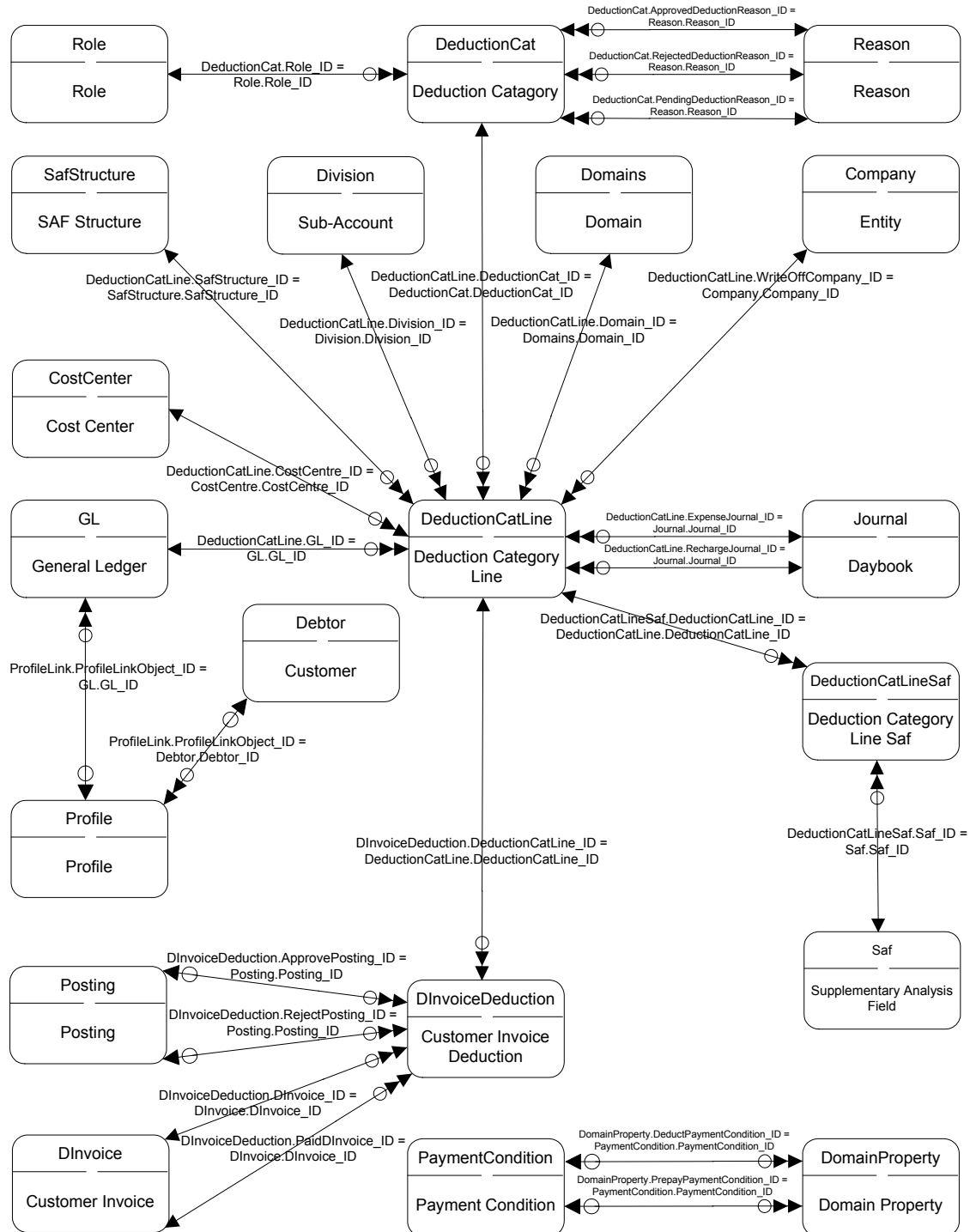


Daybook



Zero, One, or Multiple	One or Multiple	Zero, One, or Multiple	One or Multiple
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

Deductions

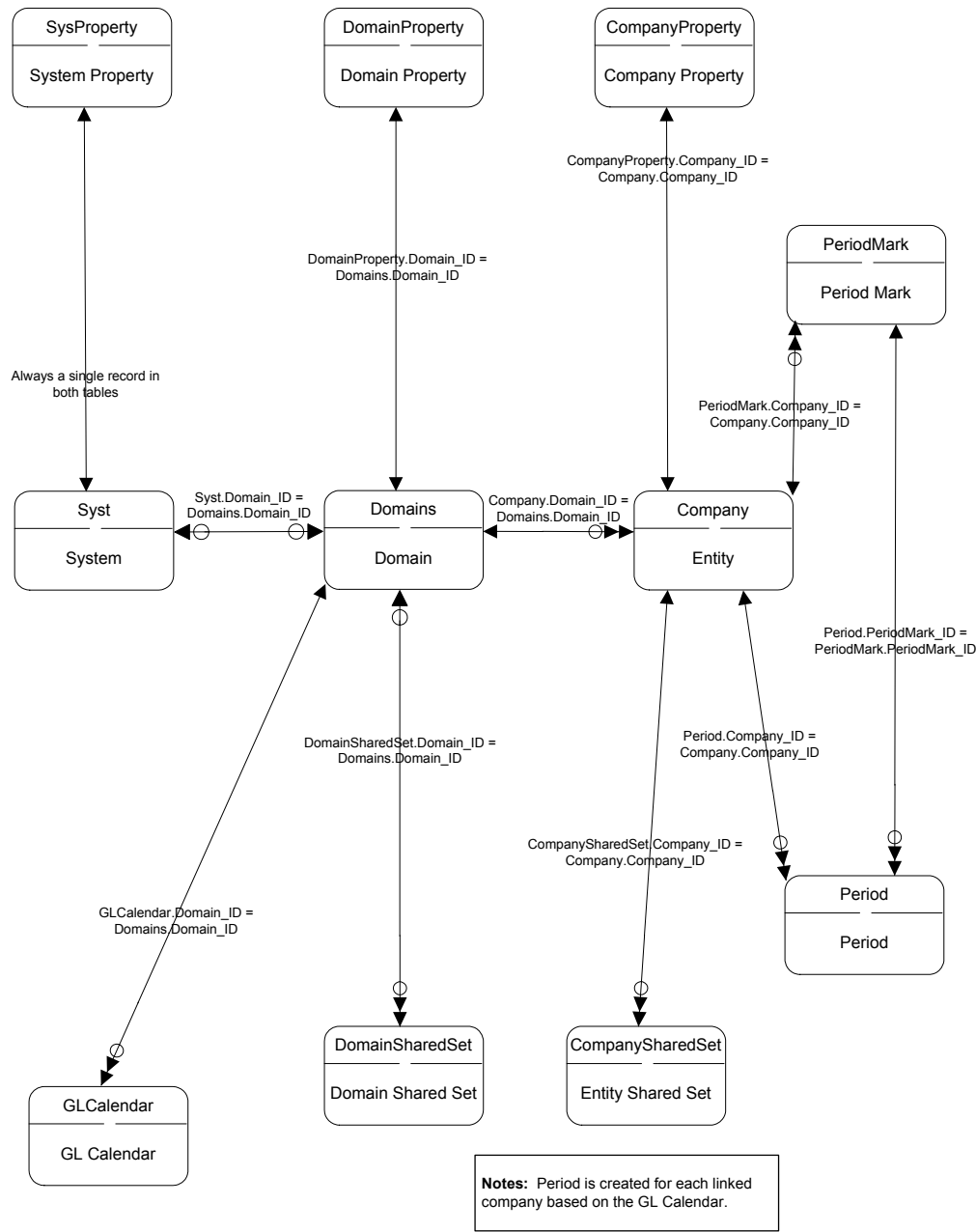


Zero or One $\leftarrow \bigcirc \rightarrow$ One and Only One
 Zero or One $\leftarrow \bigcirc \rightarrow$ Zero or One
 Zero or One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple

Zero or One $\leftarrow \bigcirc \dashrightarrow$ One or Multiple
 Zero or One $\leftarrow \bigcirc \dashrightarrow$ More than One
 One and Only One $\leftarrow \bigcirc \rightarrow$ One and Only One

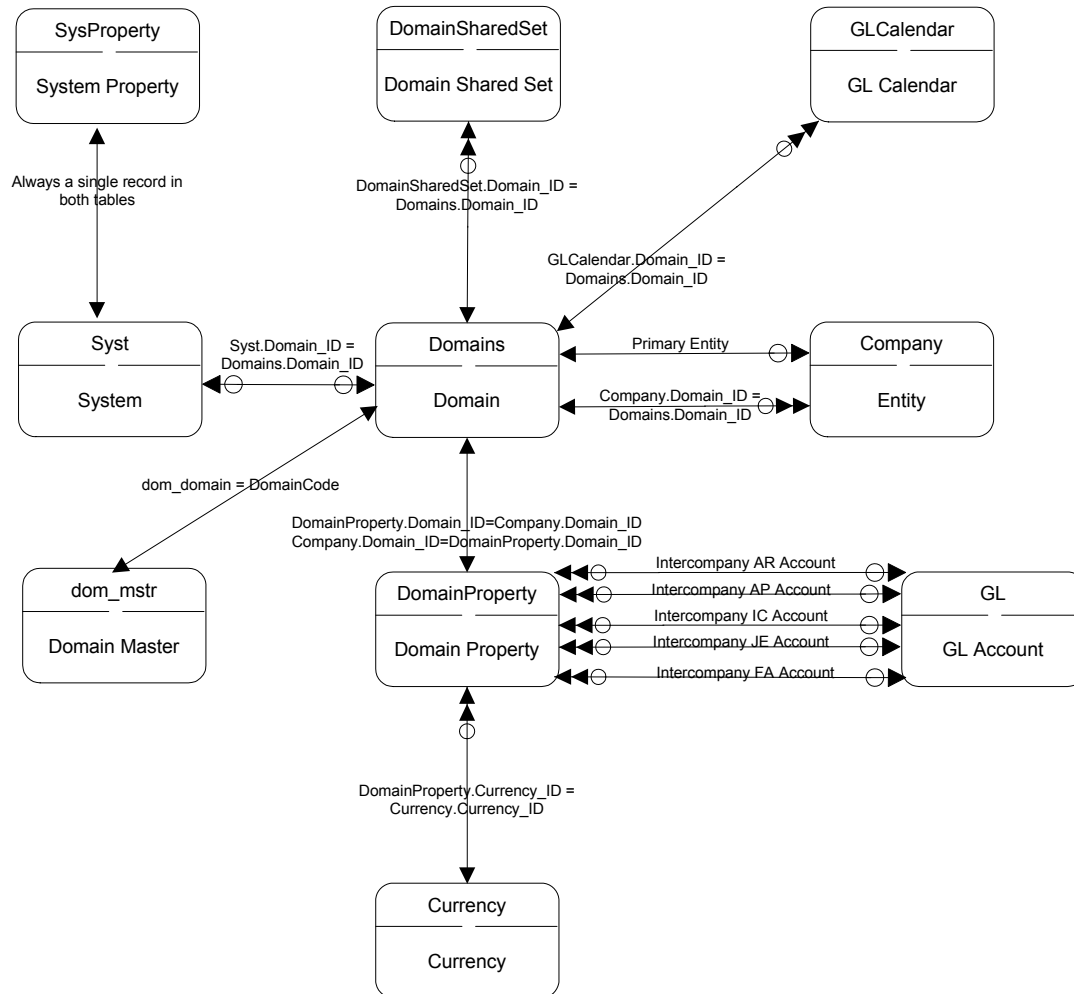
One and Only One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple
 One and Only One $\leftarrow \bigcirc \dashrightarrow$ One or Multiple
 One and Only One $\leftarrow \bigcirc \dashrightarrow$ More than One

Domain Company



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

Domains

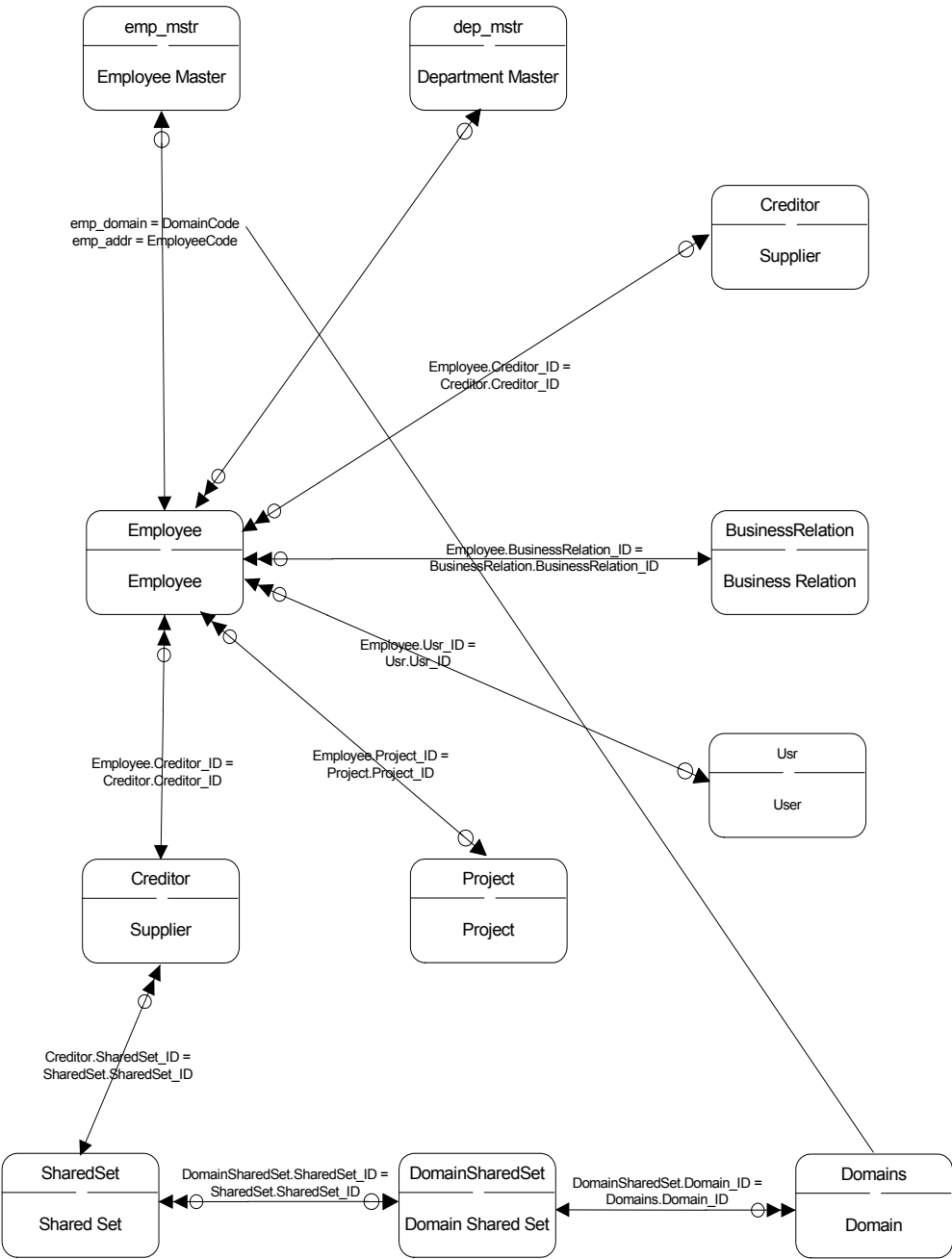


Zero or One	One and Only One
Zero or One	Zero or One
Zero or One	Zero, One, or Multiple

Zero or One	One or Multiple
Zero or One	More than One
One and Only One	One and Only One

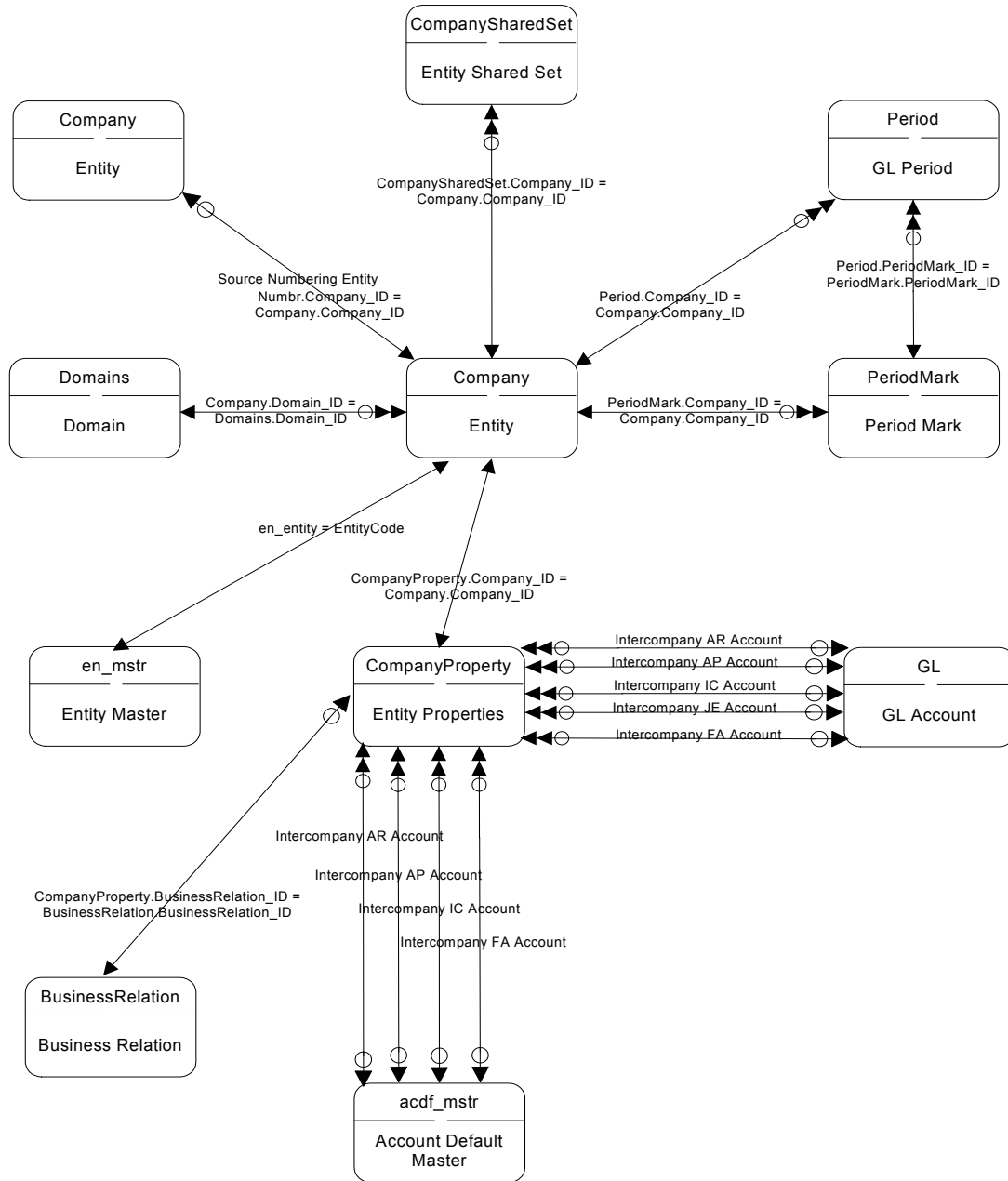
One and Only One	Zero, One, or Multiple
One and Only One	One or Multiple
One and Only One	More than One

Employee



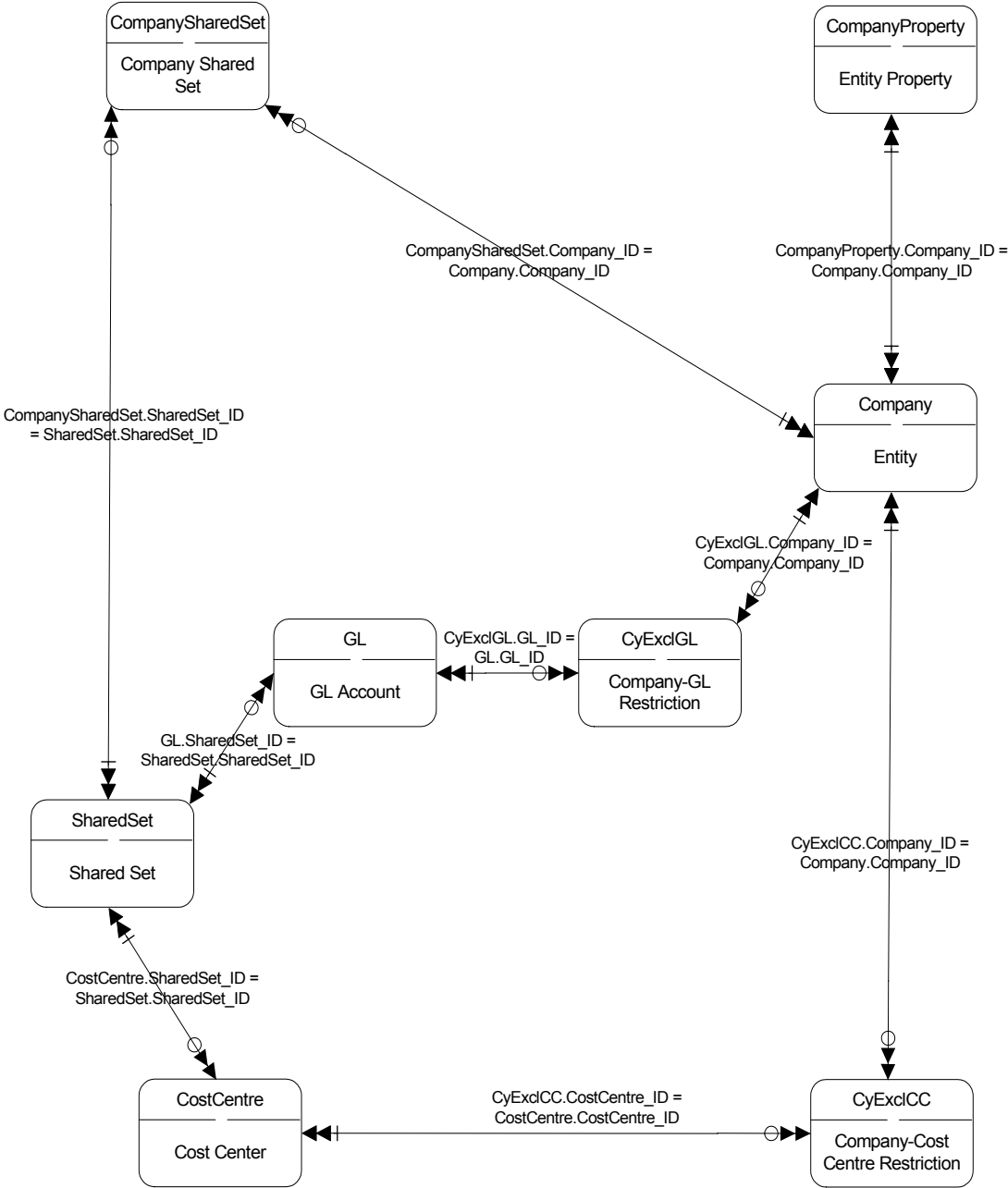
Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Entities



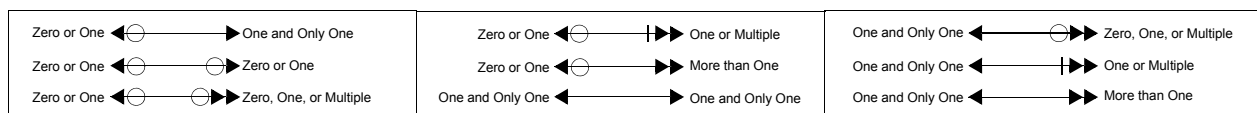
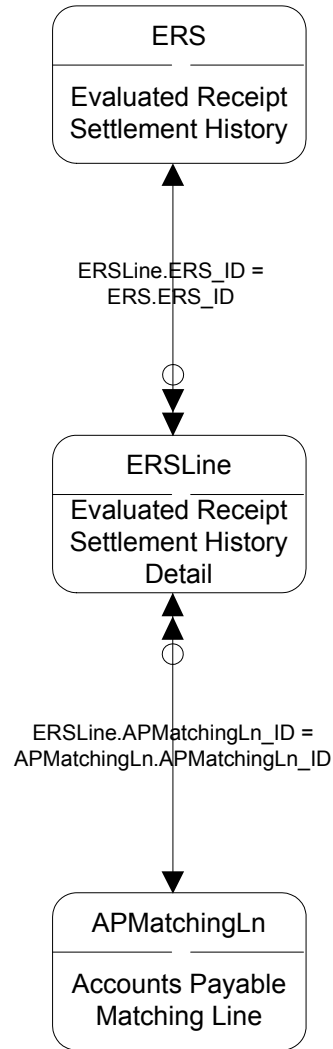
Zero or One	One and Only One	Zero or One	One or Multiple	One and Only One	Zero, One, or Multiple
Zero or One	Zero or One	Zero or One	More than One	One and Only One	One or Multiple
Zero or One	Zero, One, or Multiple	One and Only One	One and Only One	One and Only One	More than One

Entity FDS Restrictions

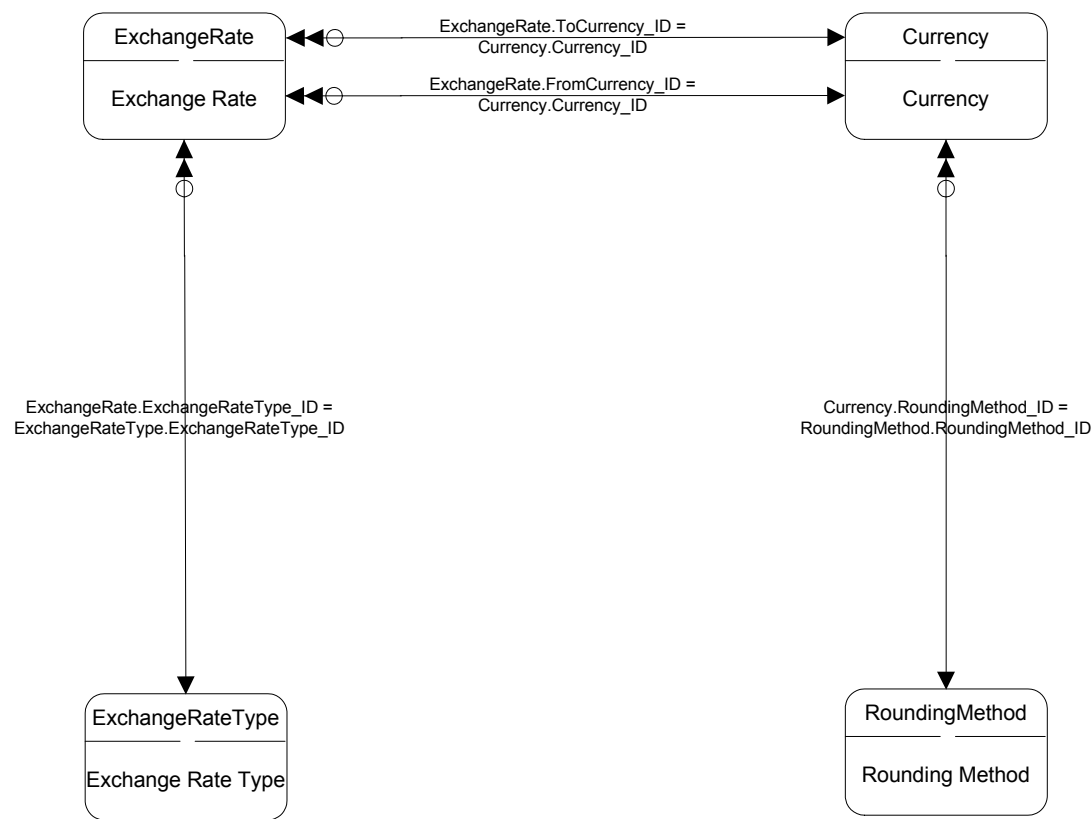


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

ERS

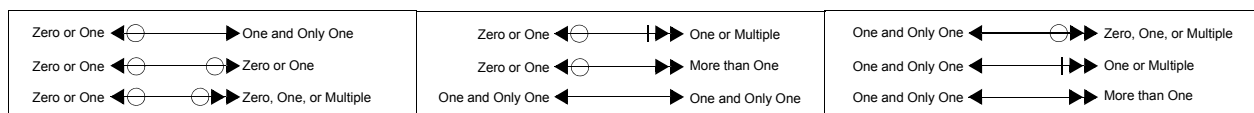
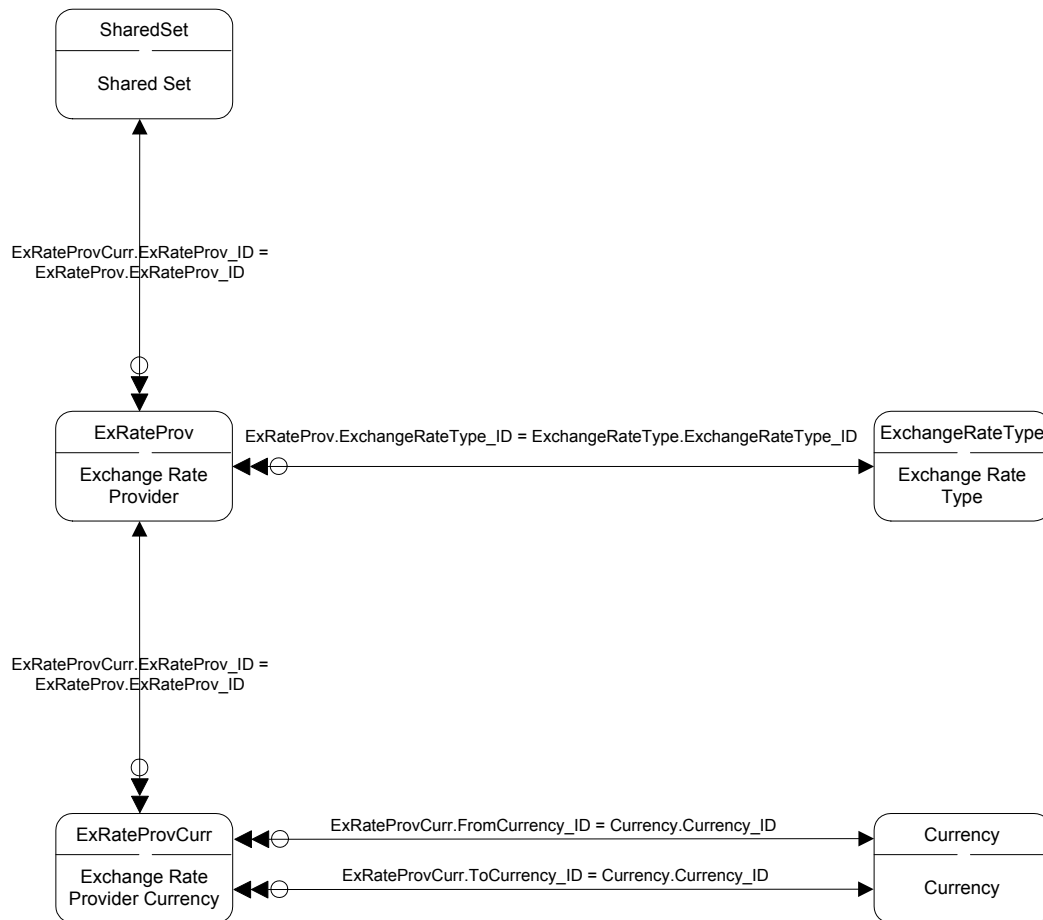


Exchange Rates

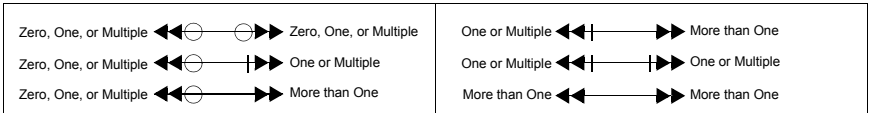
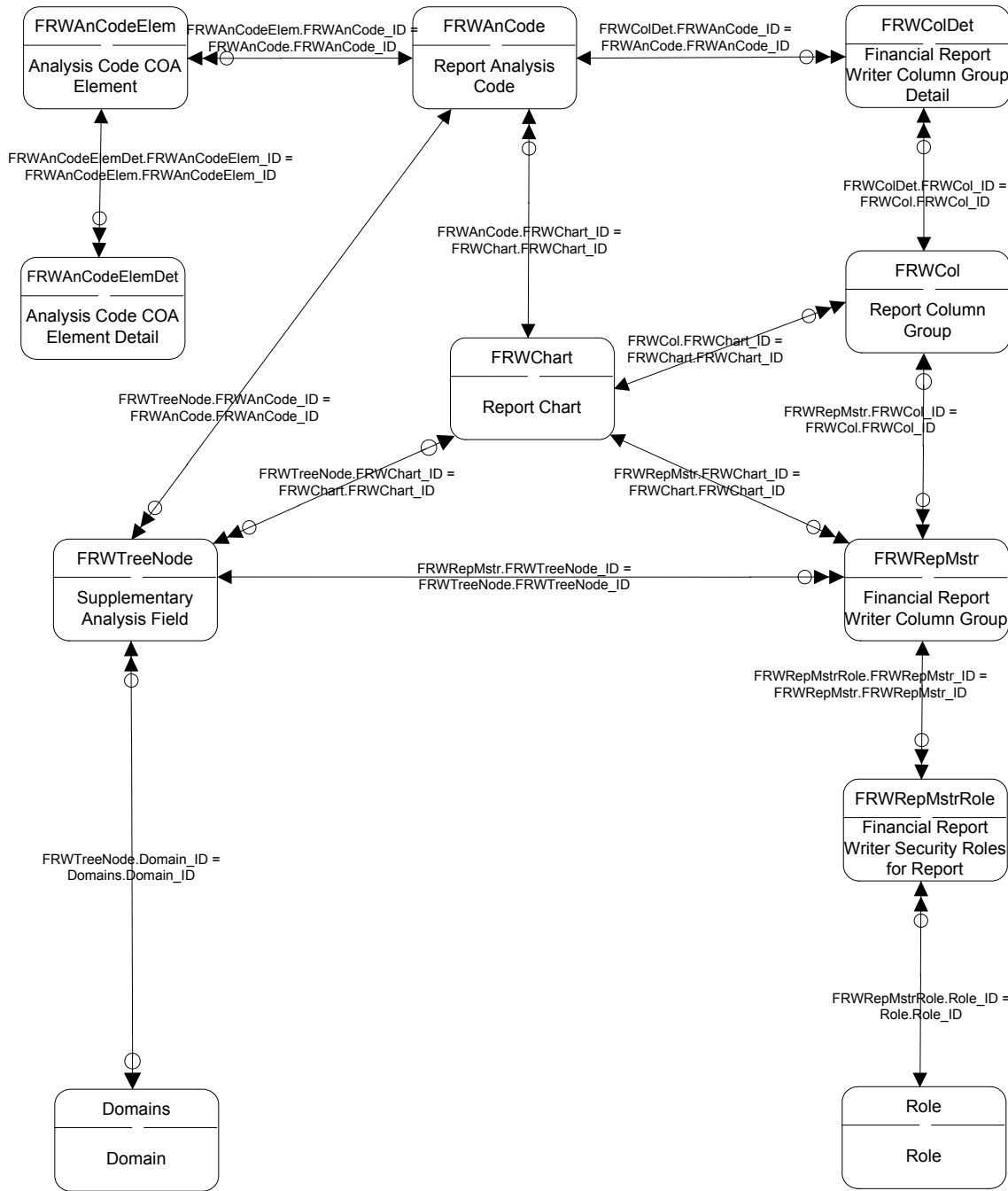


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

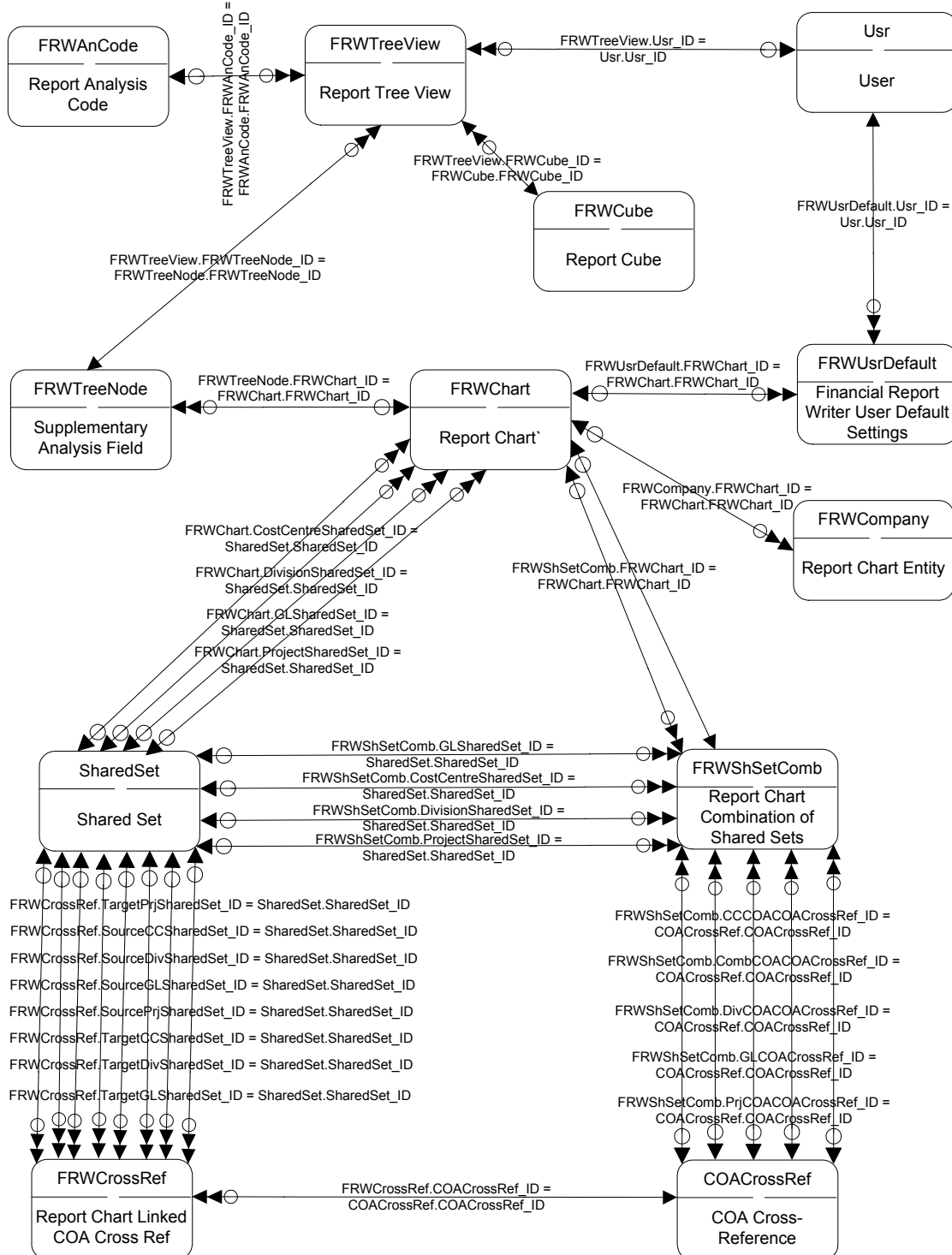
Exchange Rate Integration in Exchange Rate Provider



Financial Report Writer I



Financial Report Writer II

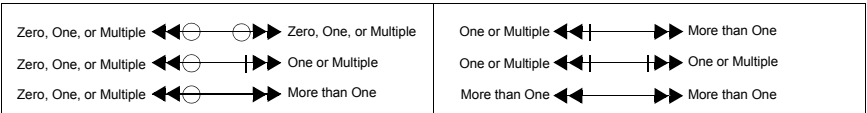
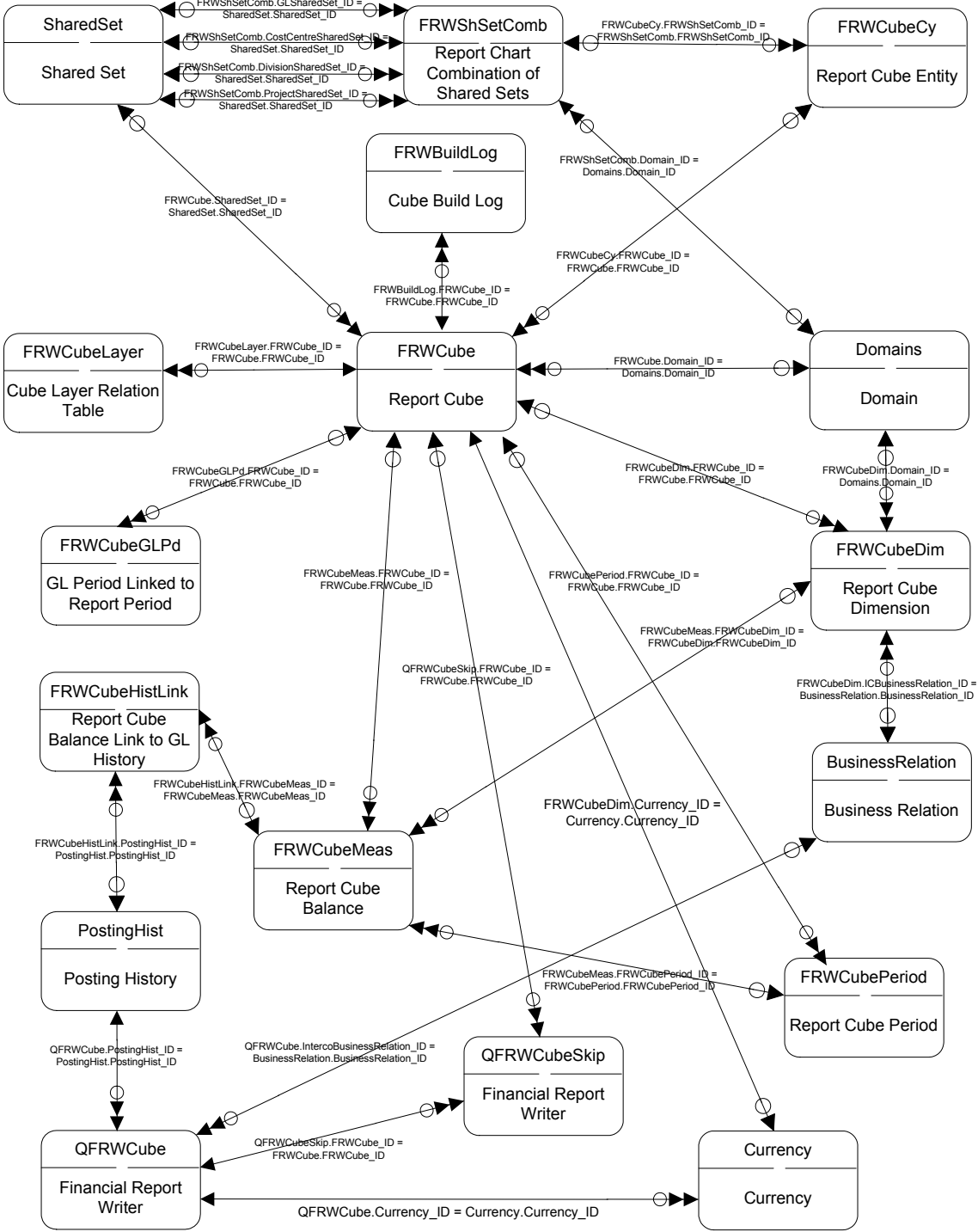


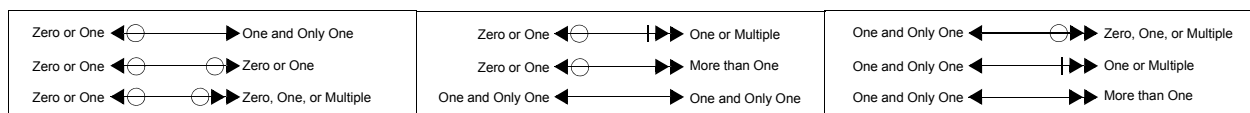
Zero or One $\leftarrow \bigcirc \rightarrow$ One and Only One
Zero or One $\leftarrow \bigcirc \rightarrow$ Zero or One
Zero or One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple

Zero or One $\leftarrow \bigcirc \vdash \rightarrow$ One or Multiple
Zero or One $\leftarrow \bigcirc \rightarrow$ More than One
One and Only One $\leftarrow \bigcirc \rightarrow$ One and Only One

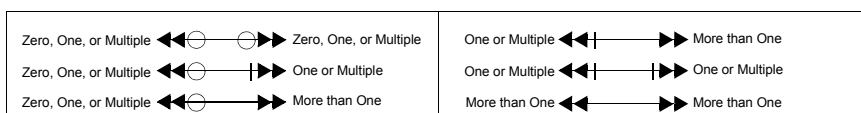
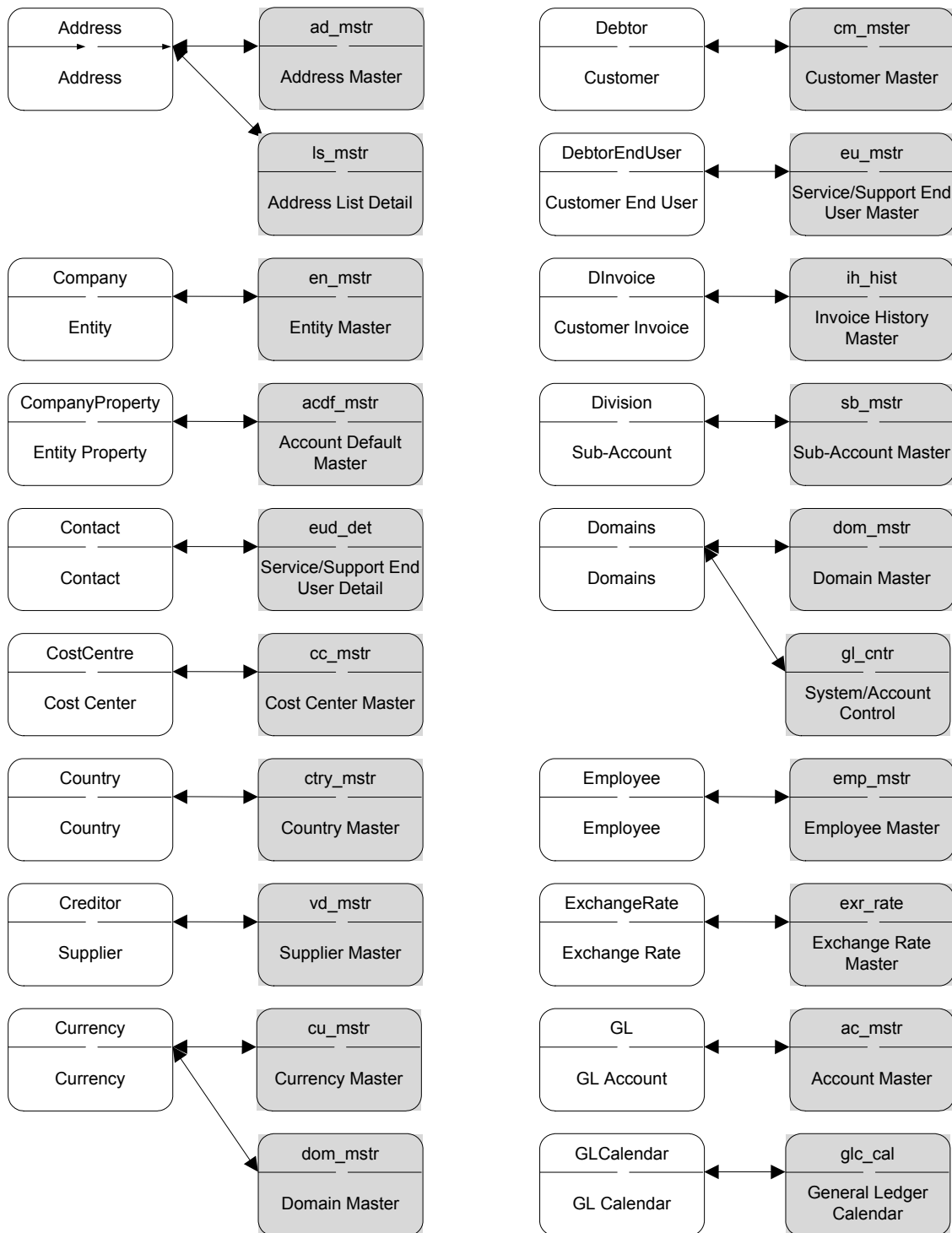
One and Only One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple
One and Only One $\leftarrow \bigcirc \vdash \rightarrow$ One or Multiple
One and Only One $\leftarrow \bigcirc \rightarrow$ More than One

Financial Report Writer III

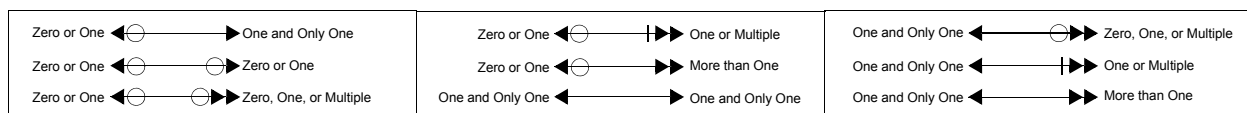
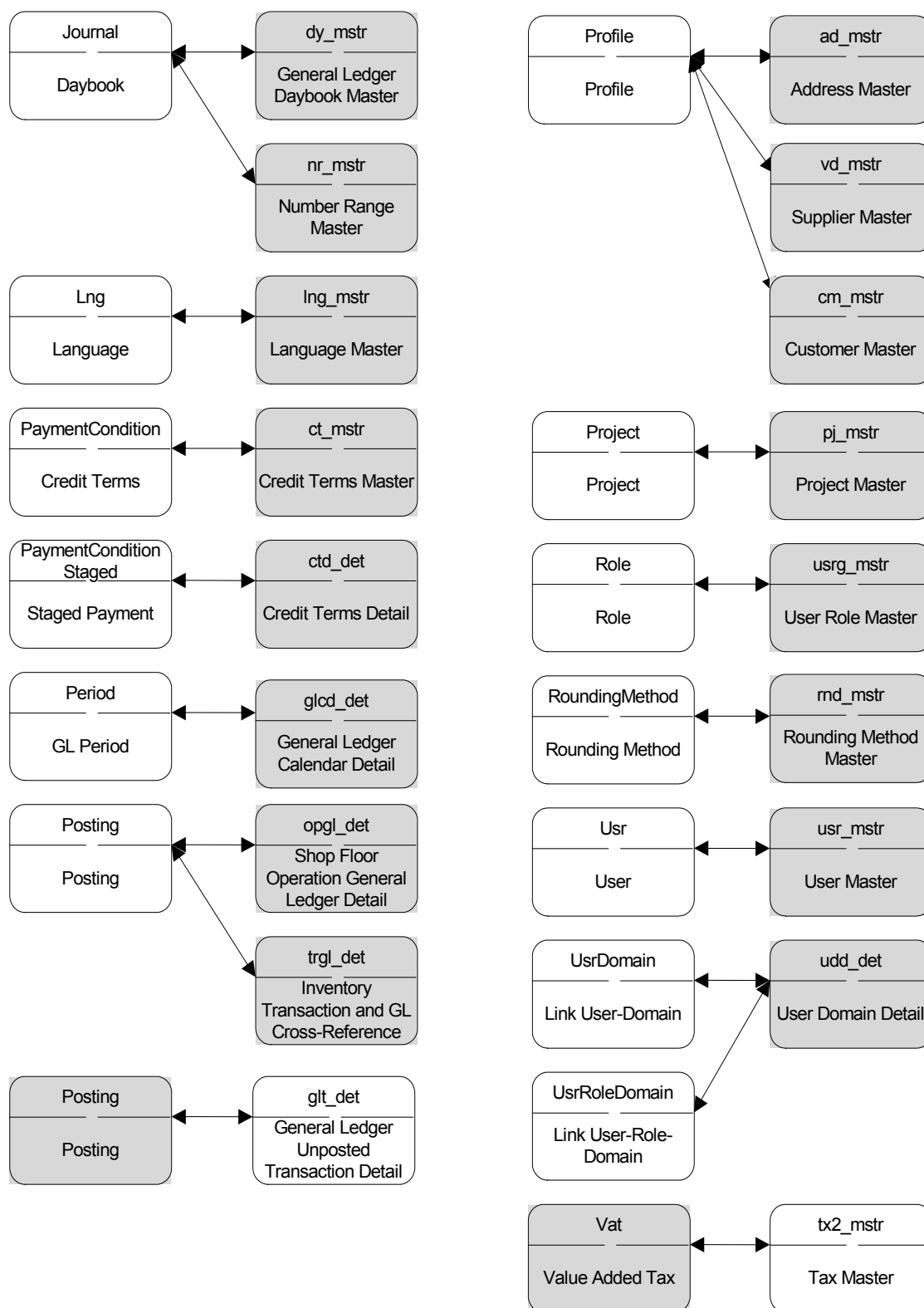




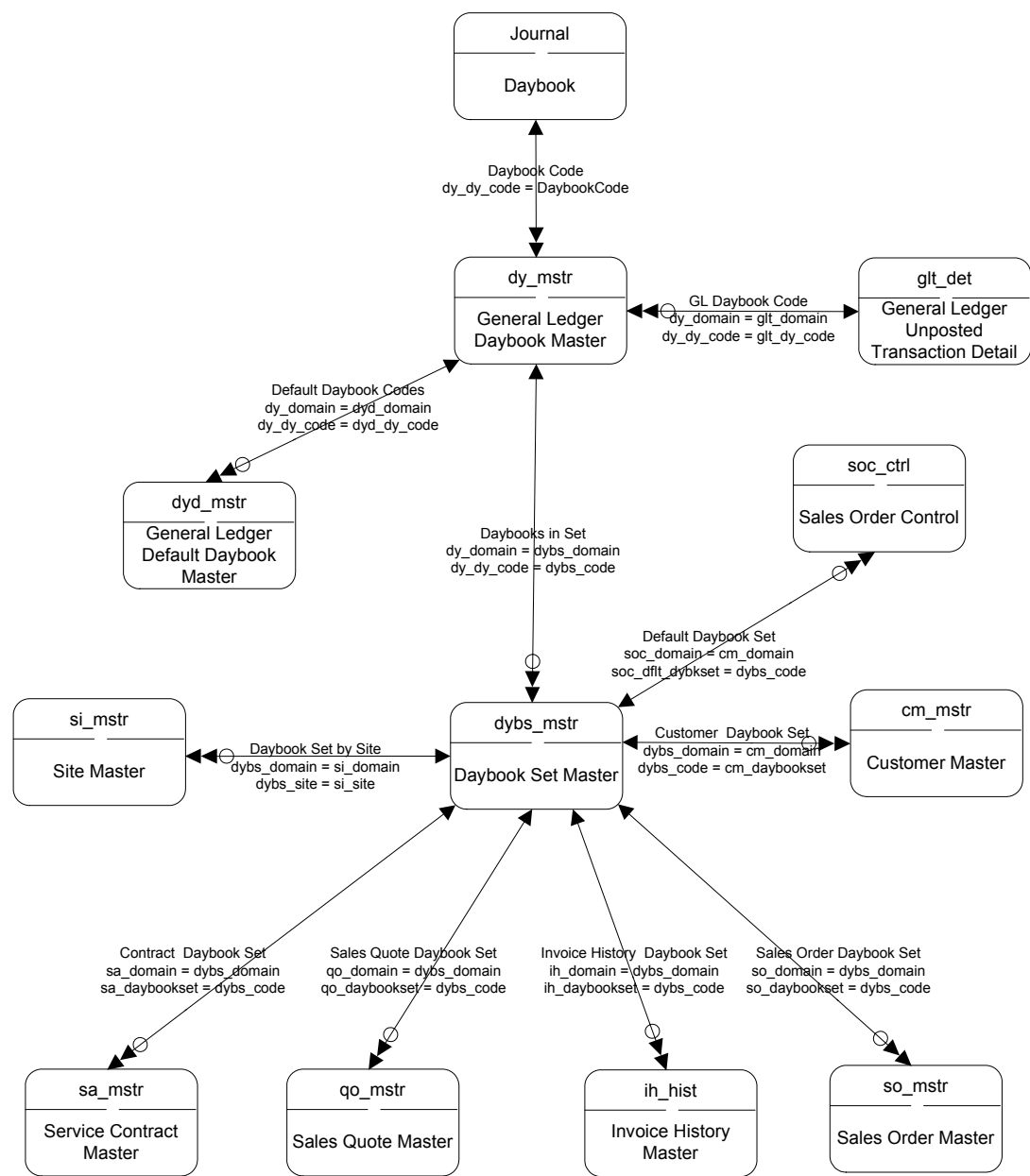
Financials vs Operations Replication I



Financials vs Operations Replication II

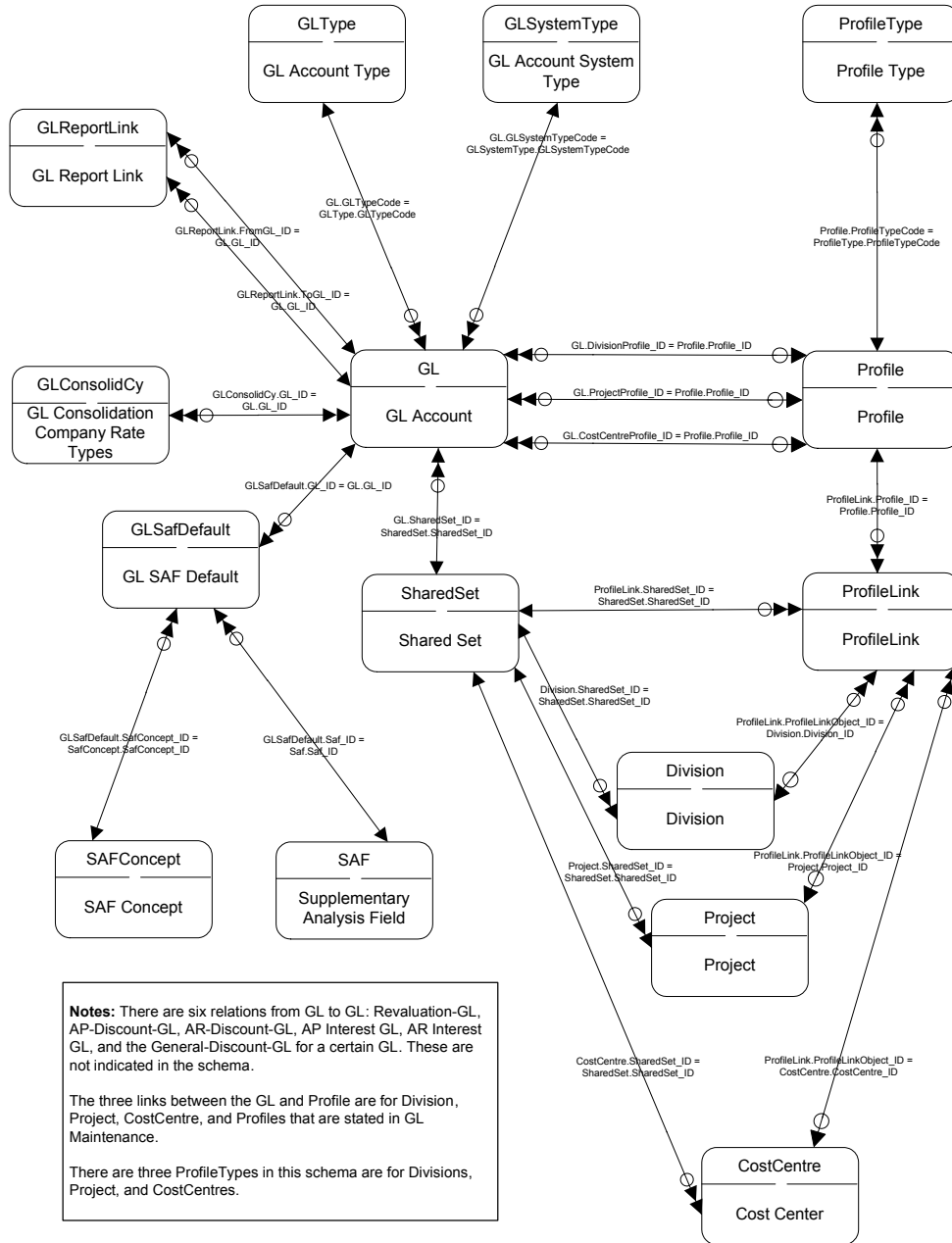



General Ledger Daybooks





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


GL Account





Zero or One  One and Only One


Zero or One  Zero or One


Zero or One  Zero, One, or Multiple


Zero or One  One or Multiple

Zero or One  More than One

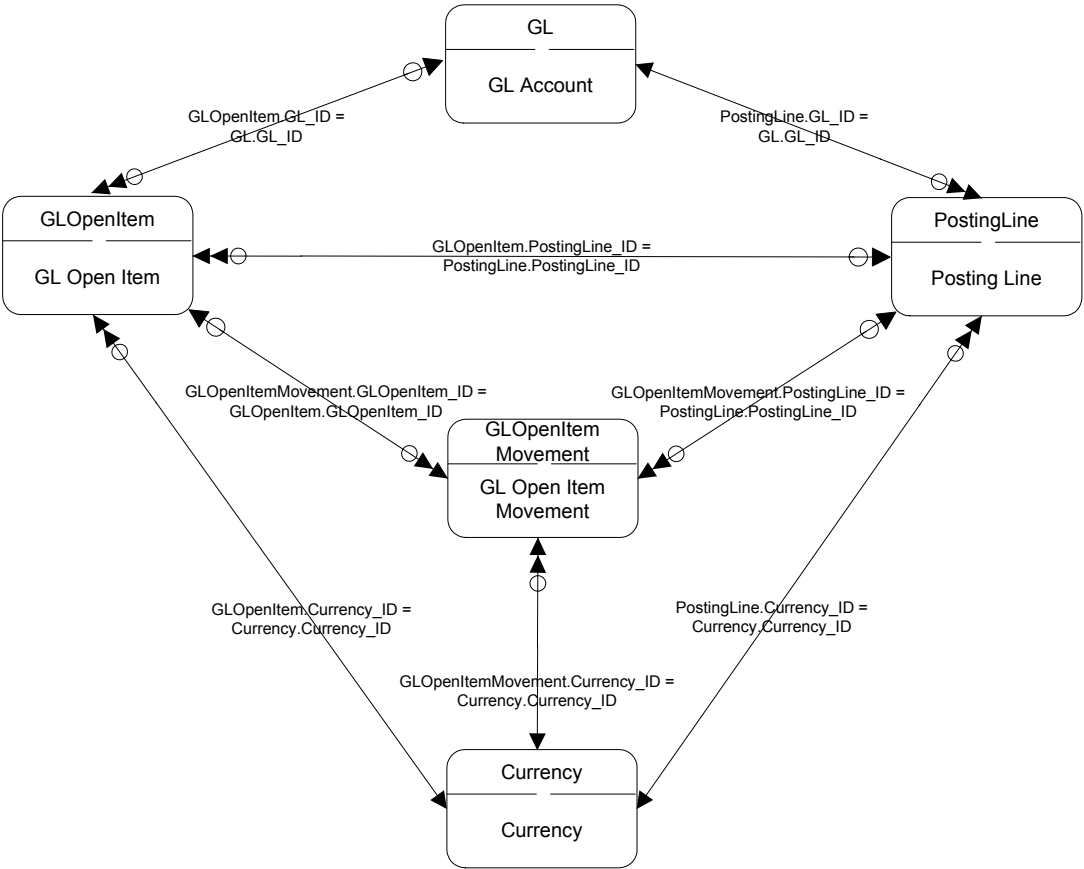
One and Only One  One and Only One

One and Only One  Zero, One, or Multiple

One and Only One  One or Multiple

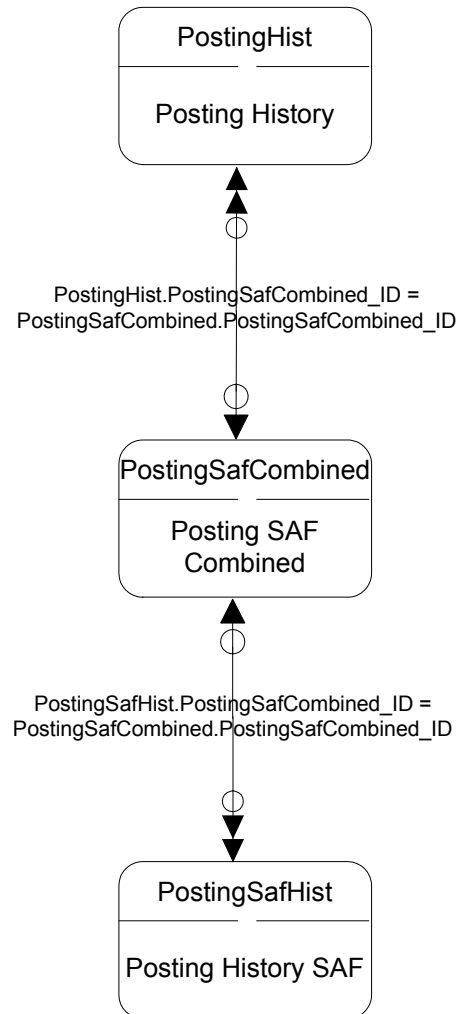
One and Only One  More than One







GL Open Item















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

GL Posting History

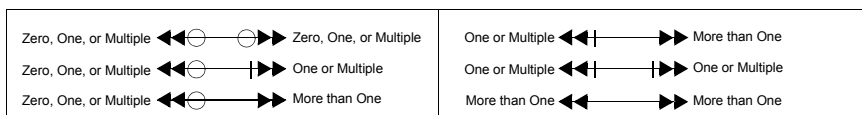
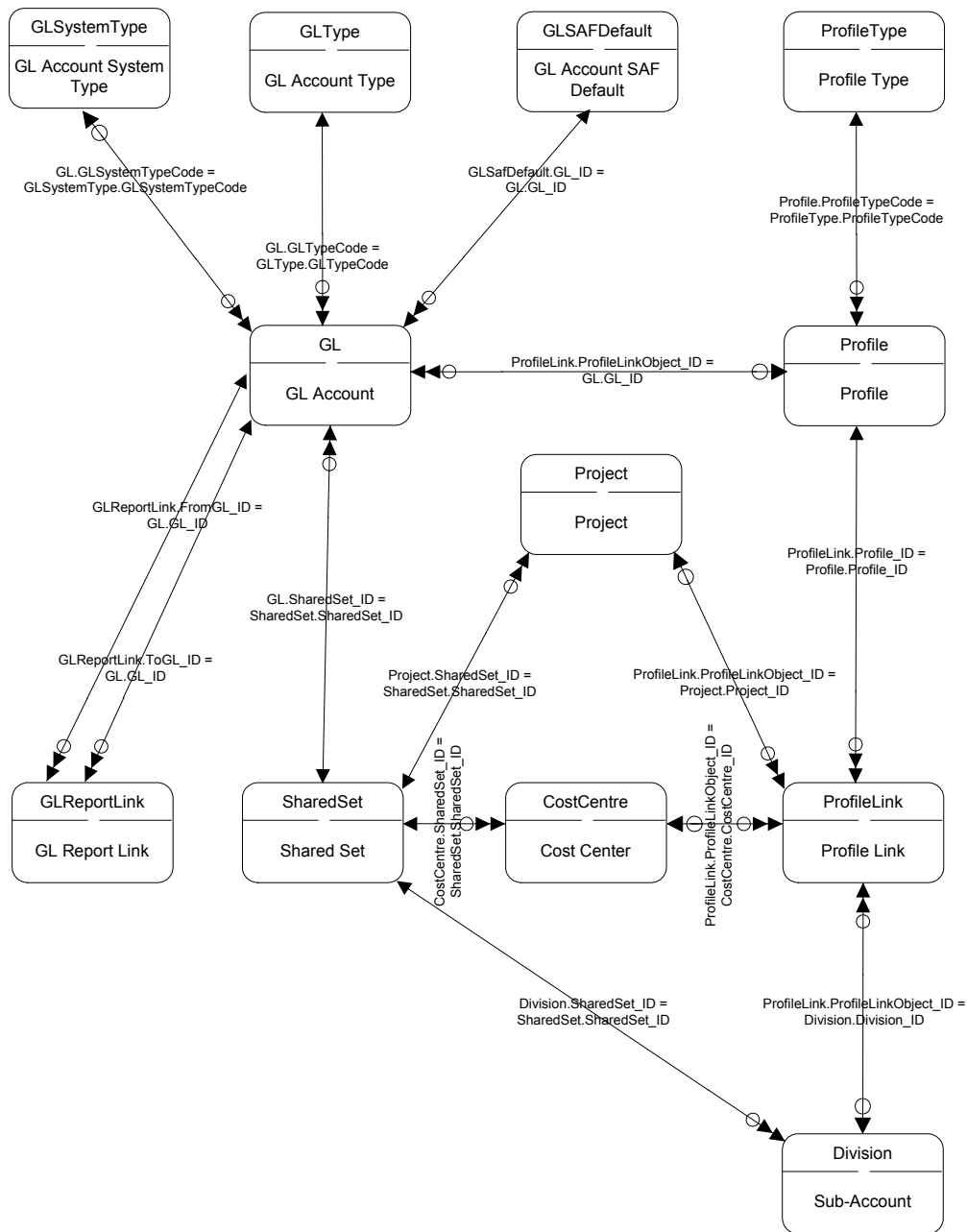


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

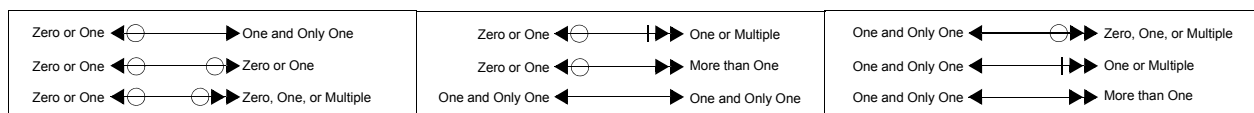
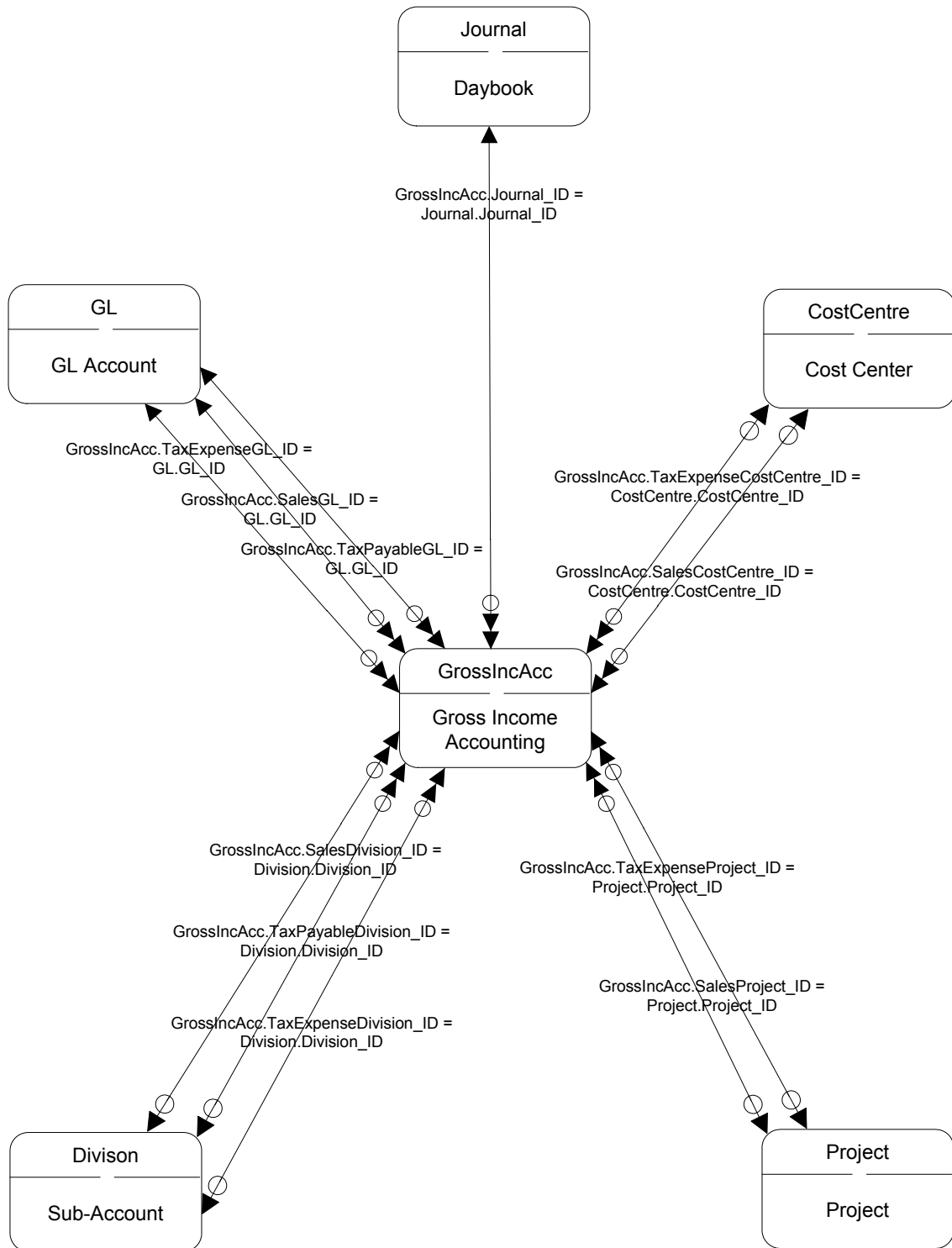
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

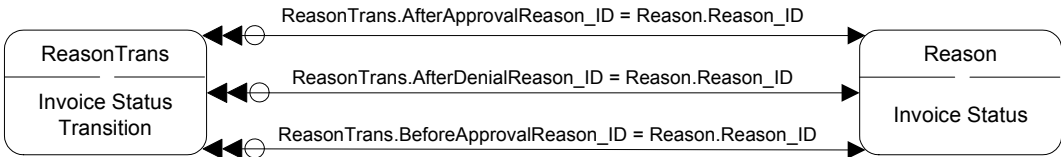
GL Setup



Gross Income Accounting

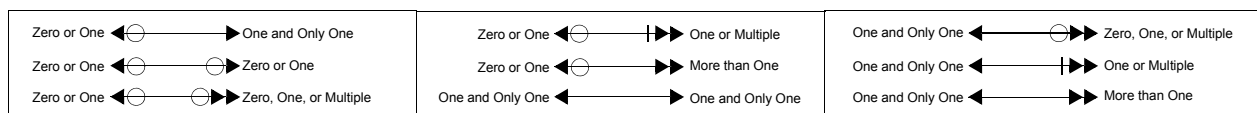
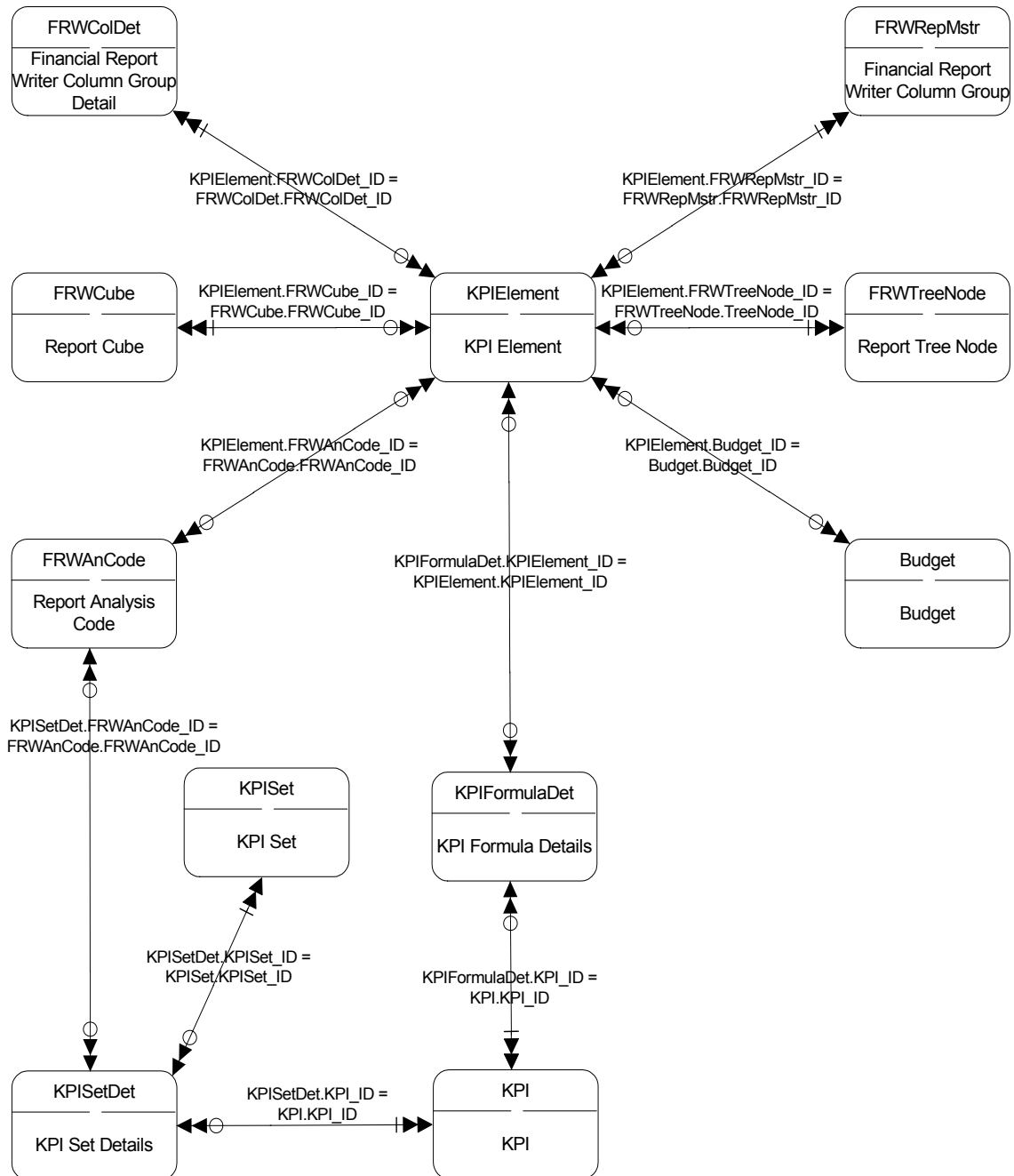


Invoice Status Transition

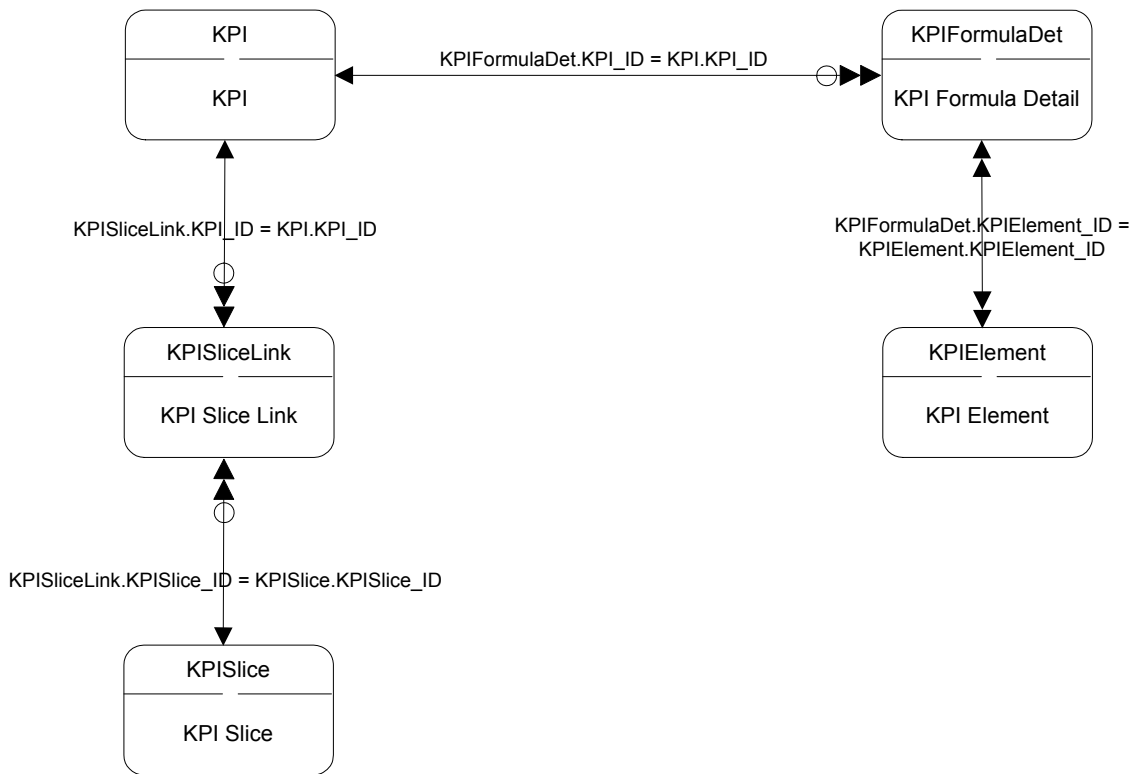


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

KPI

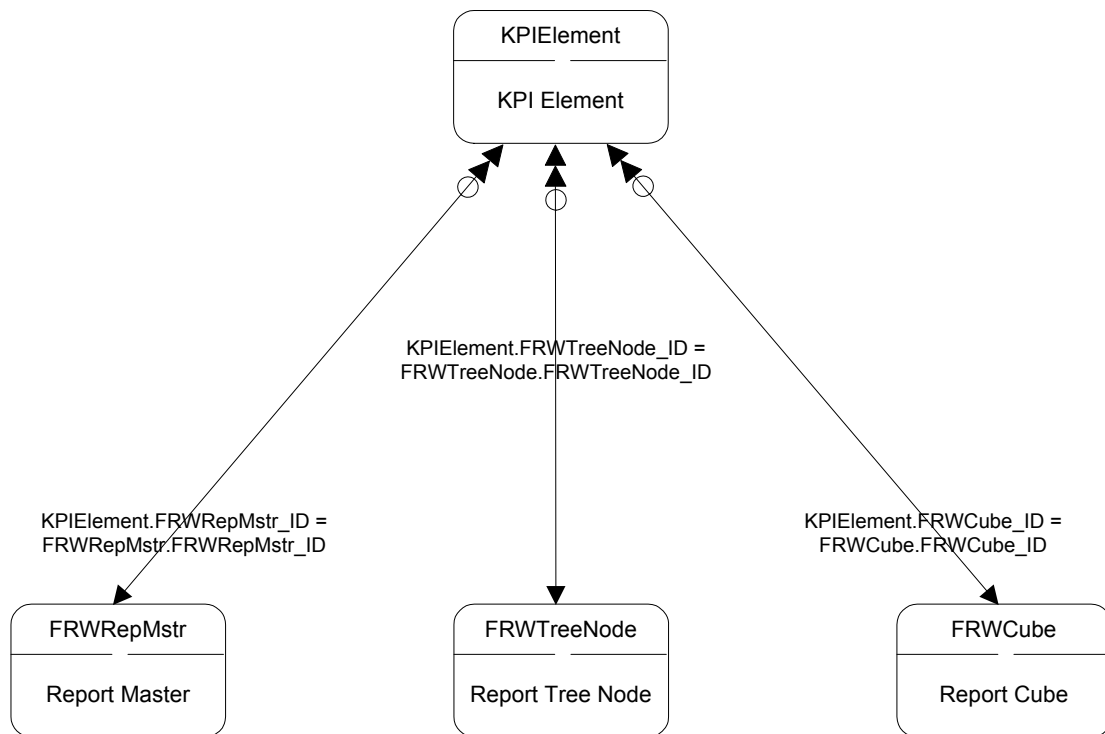


KPI II



Zero, One, or Multiple	One or Multiple	Zero, One, or Multiple	One or Multiple
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

KPI Element

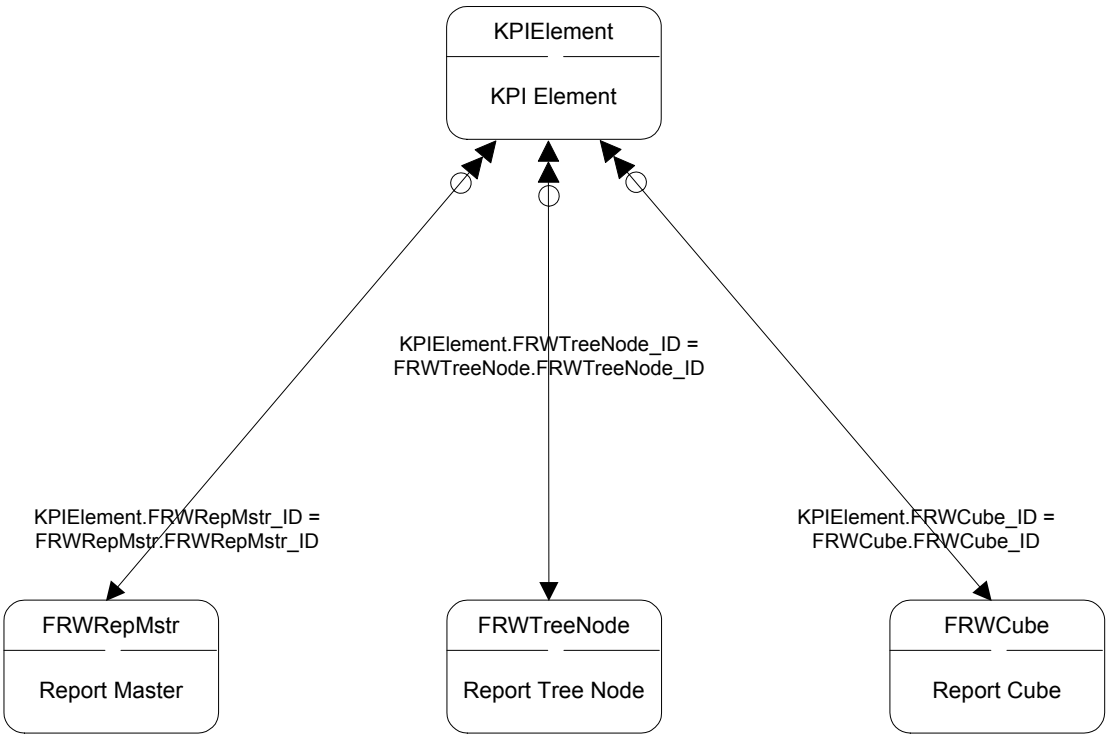


Zero or One	One and Only One
Zero or One	Zero or One
Zero or One	Zero, One, or Multiple

Zero or One	One or Multiple
Zero or One	More than One
One and Only One	One and Only One

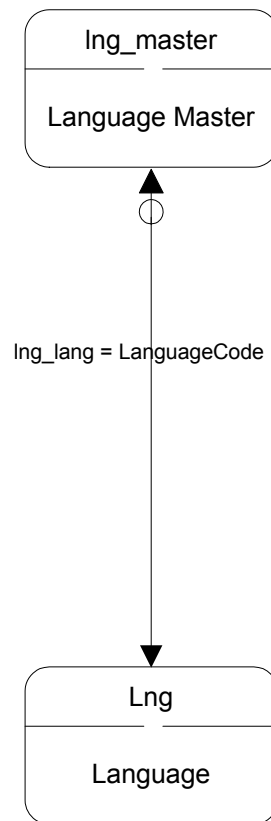
One and Only One	Zero, One, or Multiple
One and Only One	One or Multiple
One and Only One	More than One










KPI Slice



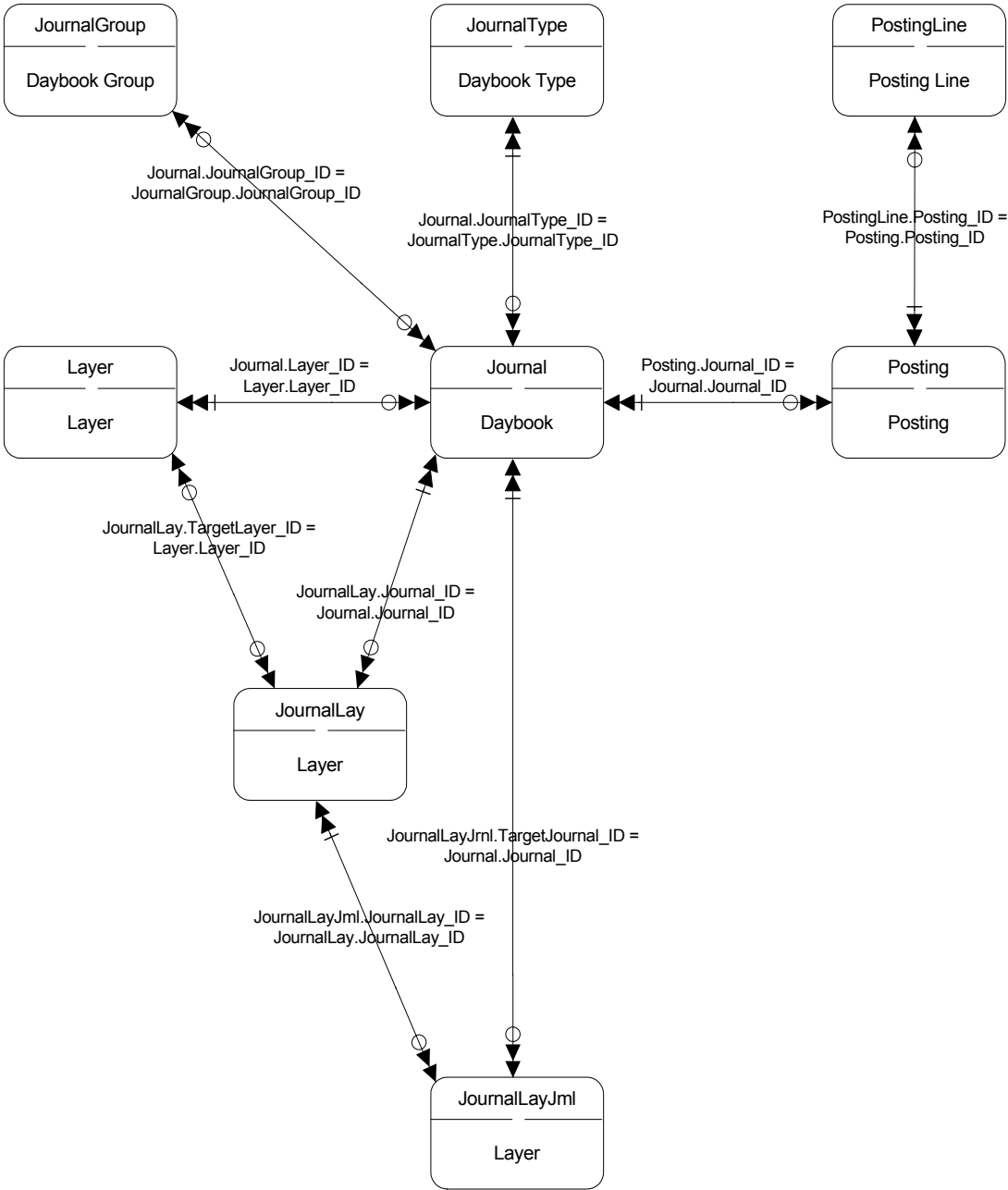
Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One
One or Multiple	◀◀	▶▶	More than One
One or Multiple	◀◀	▶▶	One or Multiple
More than One	◀◀▶▶	▶▶	More than One

Language



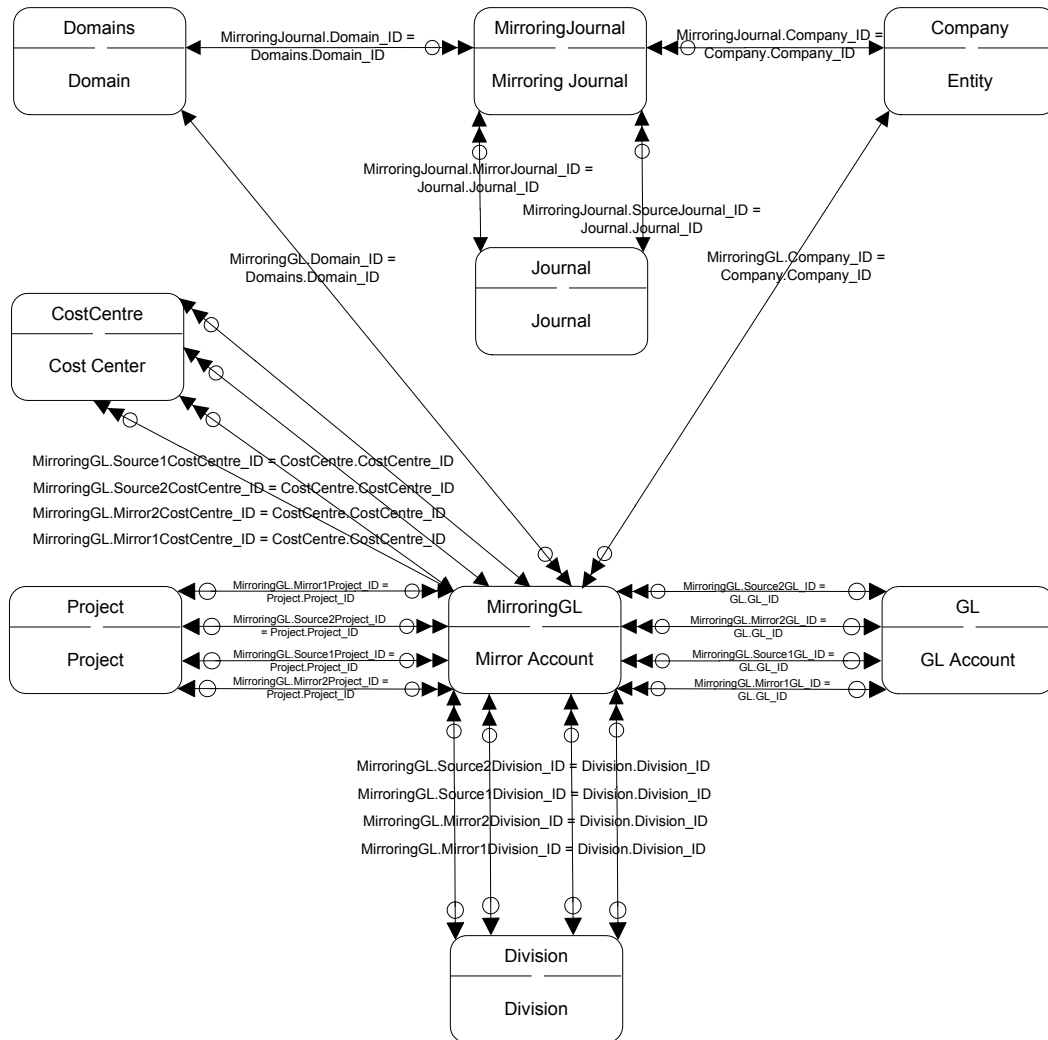
<p>Zero or One  One and Only One</p> <p>Zero or One  Zero or One</p> <p>Zero or One  Zero, One, or Multiple</p>	<p>Zero or One  One or Multiple</p> <p>Zero or One  More than One</p> <p>One and Only One  One and Only One</p>	<p>One and Only One  Zero, One, or Multiple</p> <p>One and Only One  One or Multiple</p> <p>One and Only One  More than One</p>
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Layer Transfer




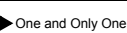


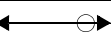


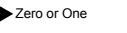


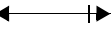


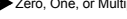




Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Mirror Accounting

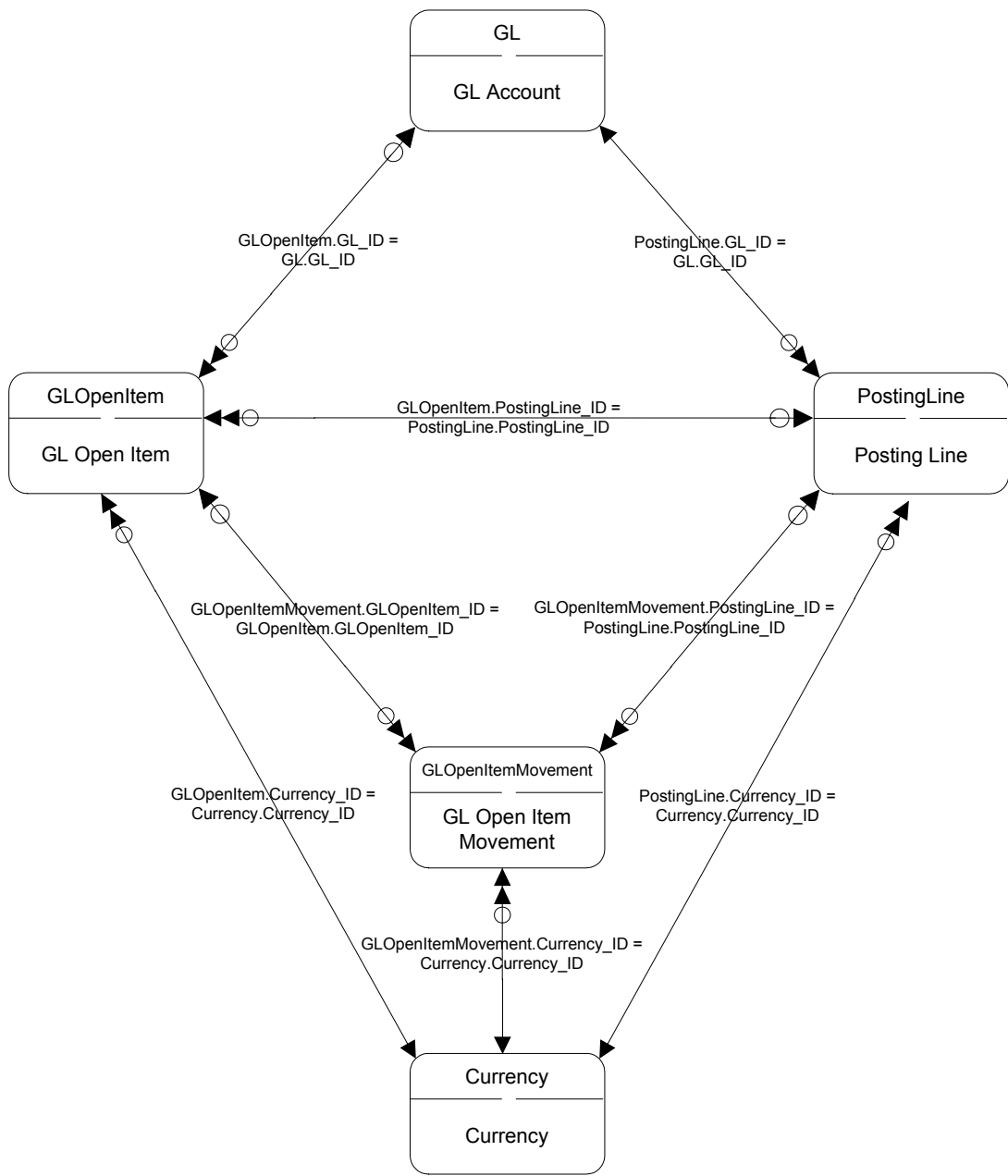


Notes: MirroringGL has four relationships to GL, Division, CostCentre, and Project. For Source 1, Source 2, Mirror1, and Mirror2.

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

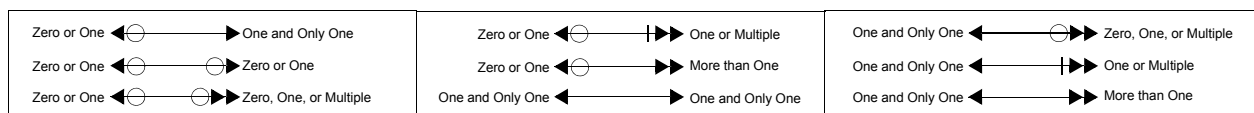
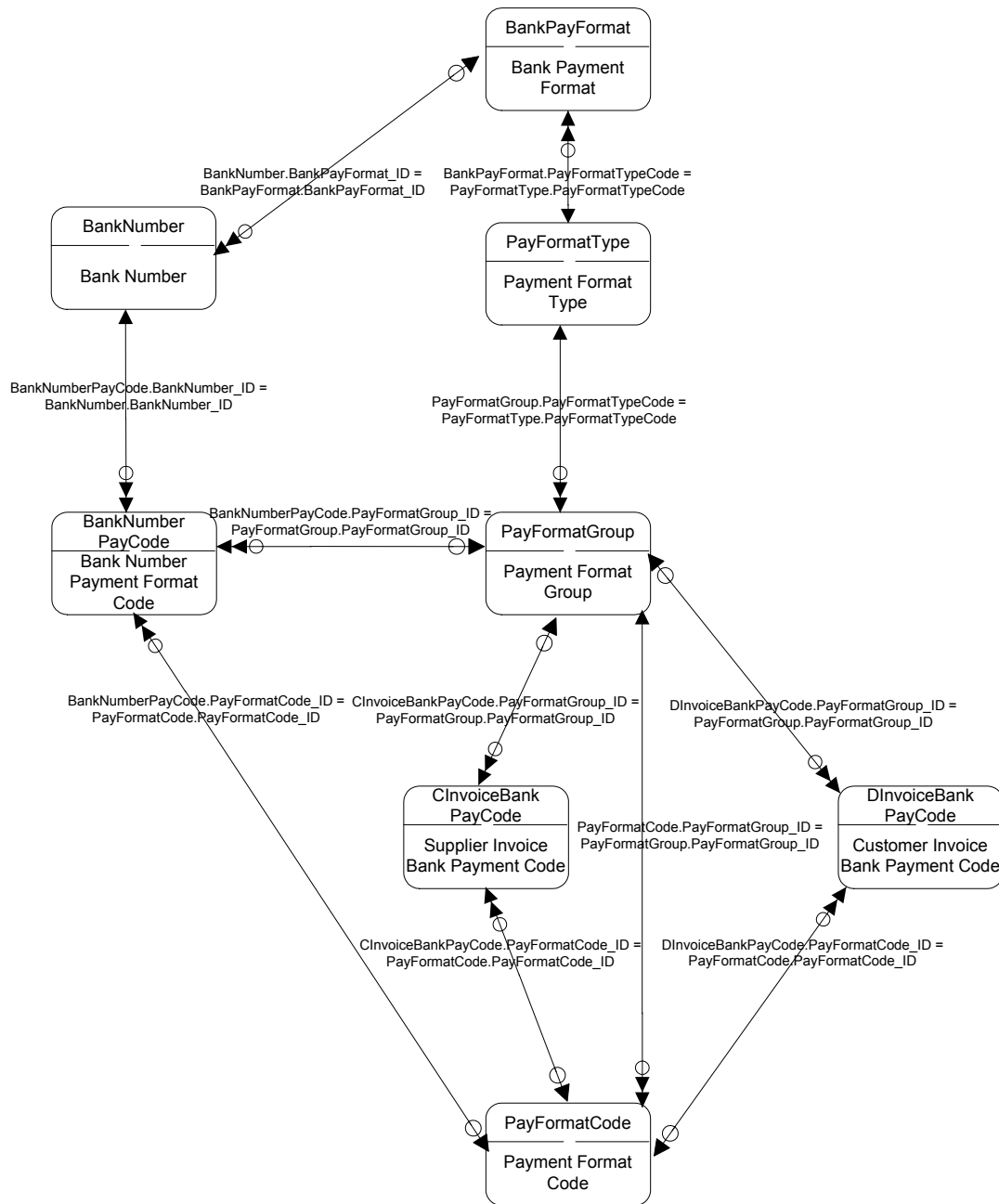
Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 

Open Item Adjustment

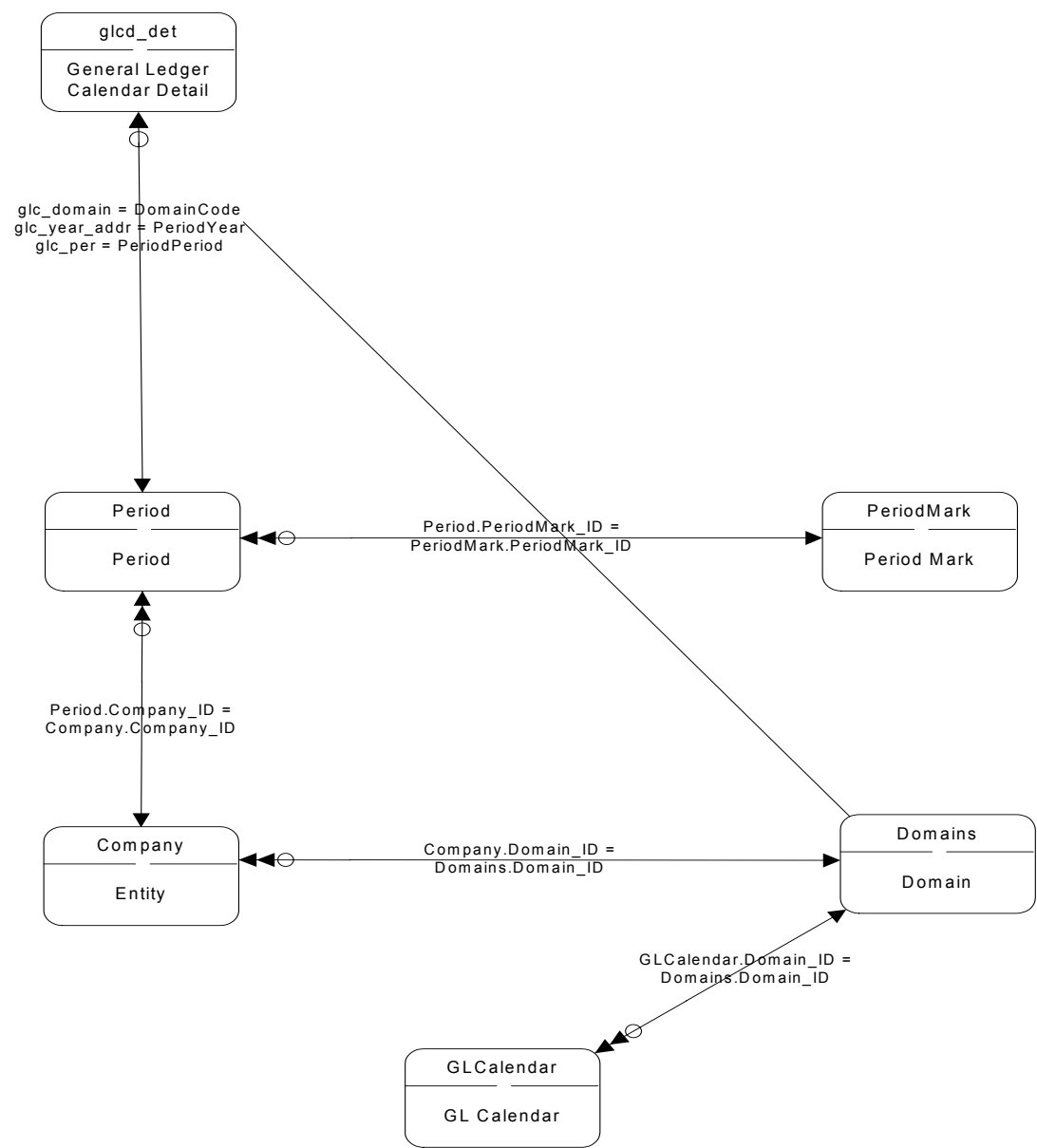


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Payment Formats

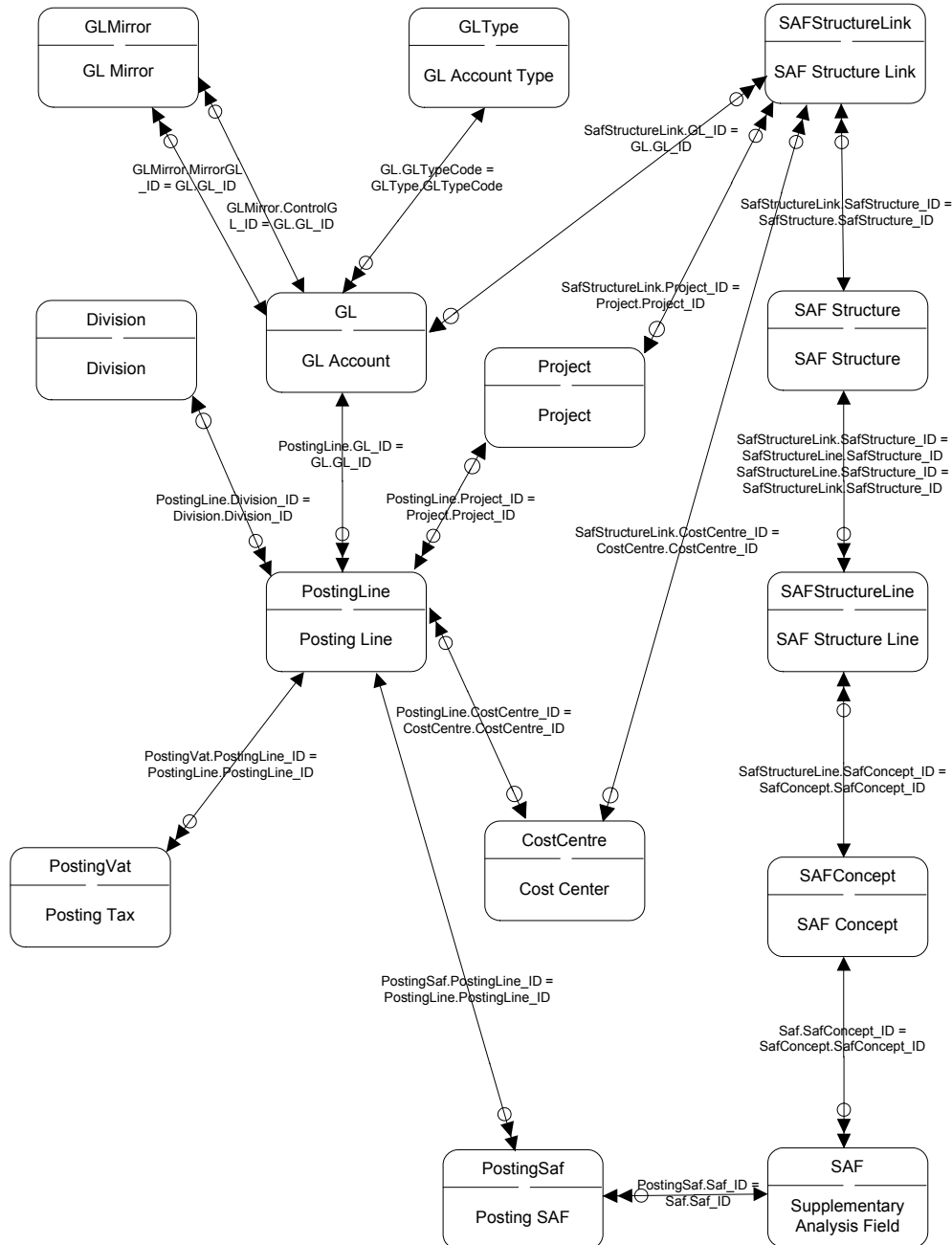


Period



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

Posting I

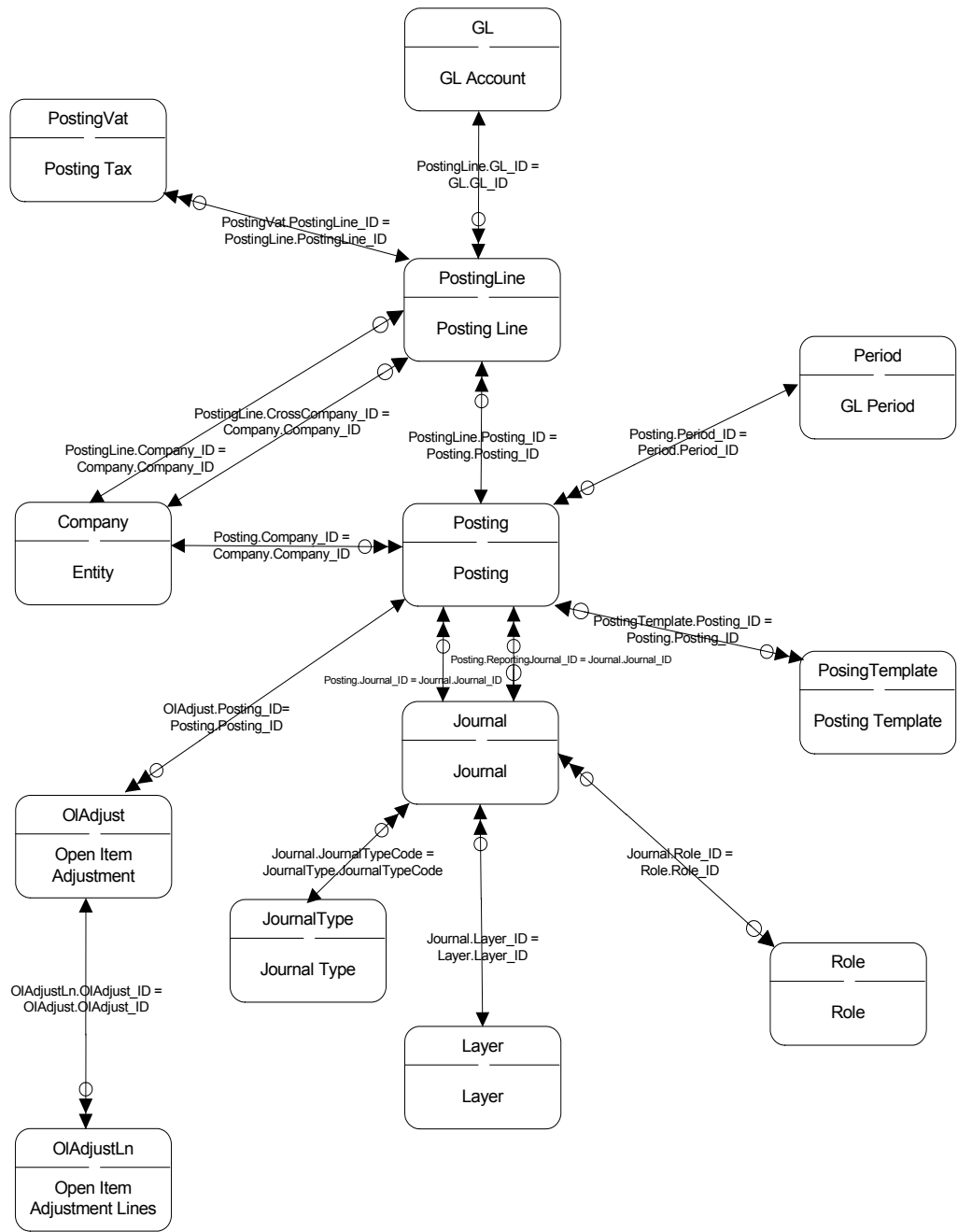


Zero or One $\leftarrow \bigcirc \rightarrow$ One and Only One
 Zero or One $\leftarrow \bigcirc \rightarrow$ Zero or One
 Zero or One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple

Zero or One $\leftarrow \bigcirc \vdash \rightarrow$ One or Multiple
 Zero or One $\leftarrow \bigcirc \rightarrow$ More than One
 One and Only One $\leftarrow \bigcirc \rightarrow$ One and Only One

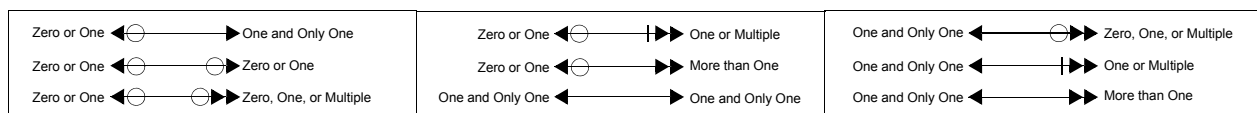
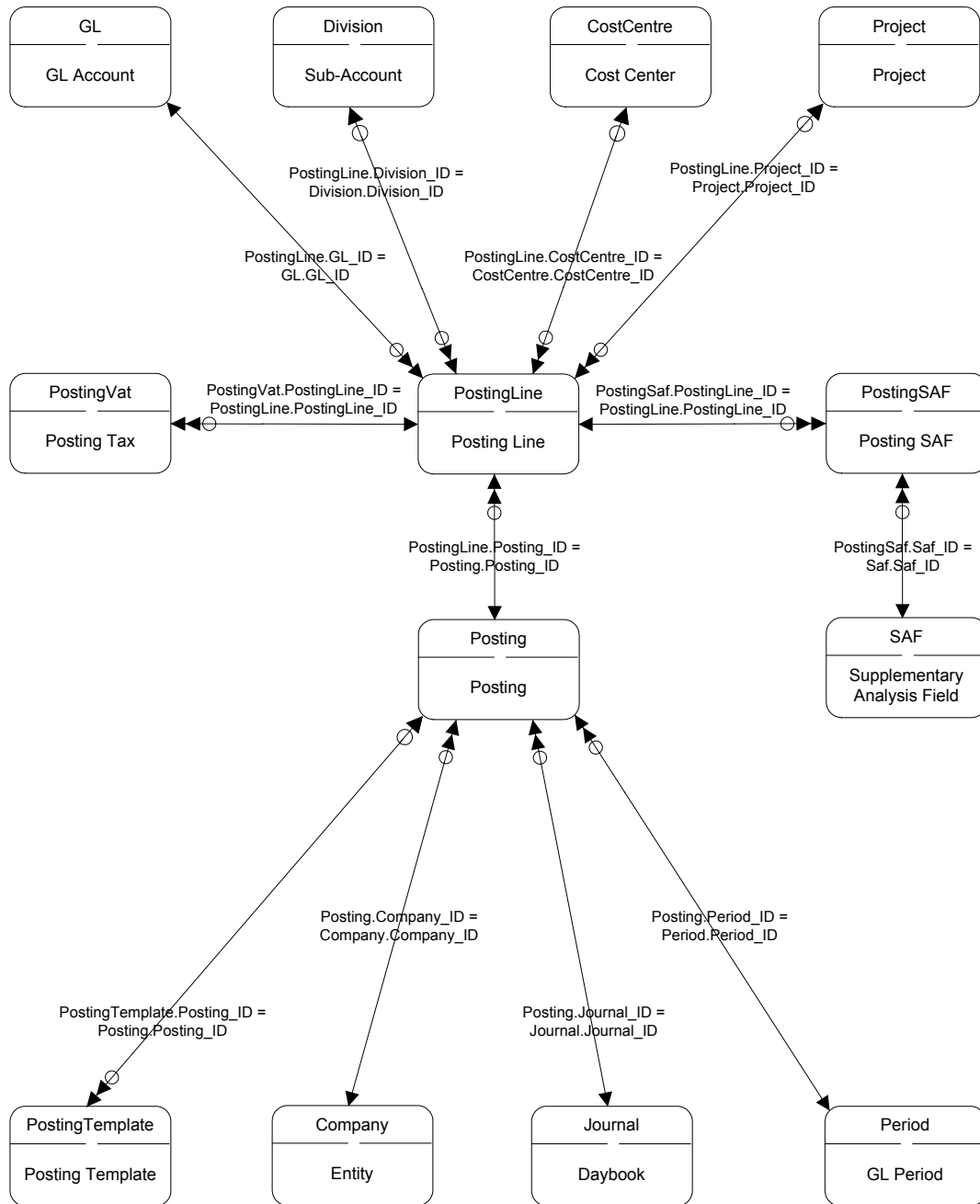
One and Only One $\leftarrow \bigcirc \rightarrow$ Zero, One, or Multiple
 One and Only One $\leftarrow \bigcirc \vdash \rightarrow$ One or Multiple
 One and Only One $\leftarrow \bigcirc \rightarrow$ More than One

Posting II

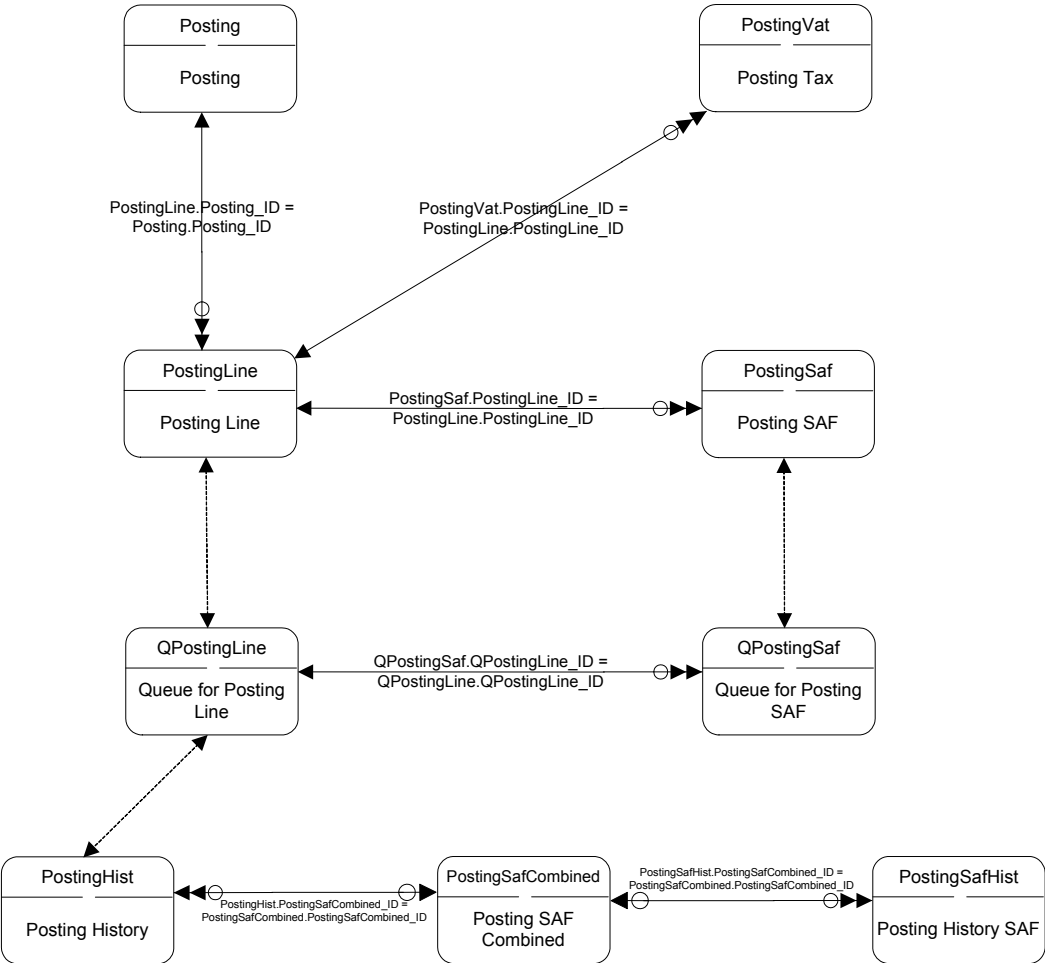


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Posting III



Posting History

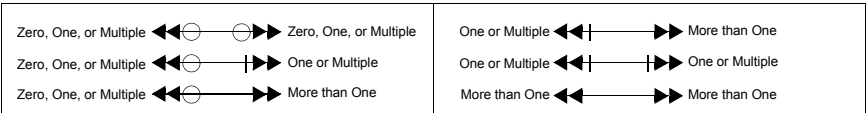


Notes: Every QPostingLine is directly linked to a PostingLine and every QPostingSaf is directly linked to a PostingLine although there is no physical relation between the normal tables and the q-variants (to avoid performance overhead).

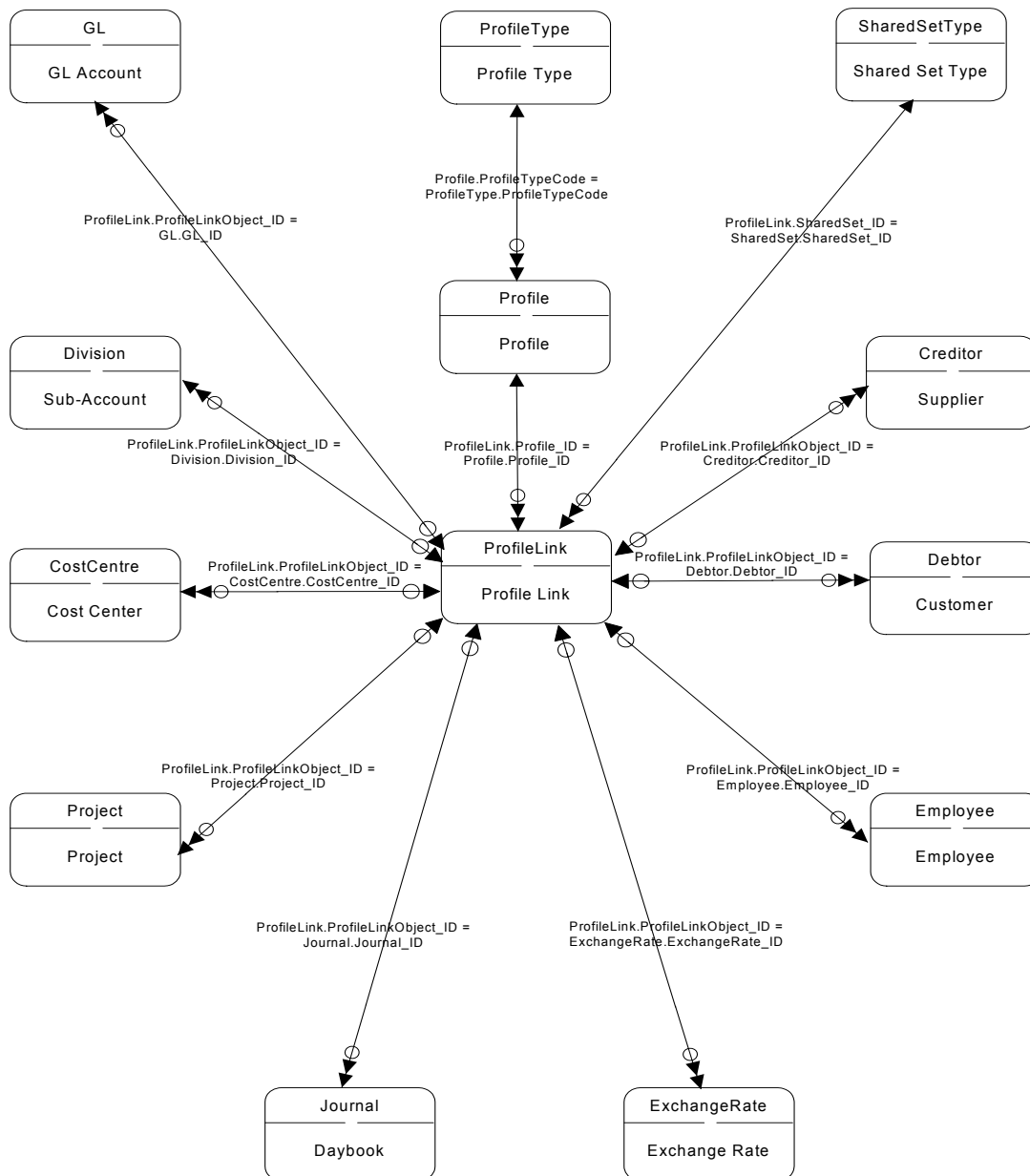
The q-records are created when a posting is created, changed, or modified and is picked up by the history daemon.

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.

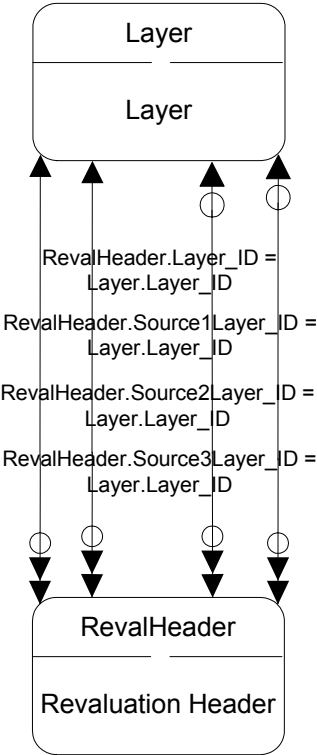


Profiles



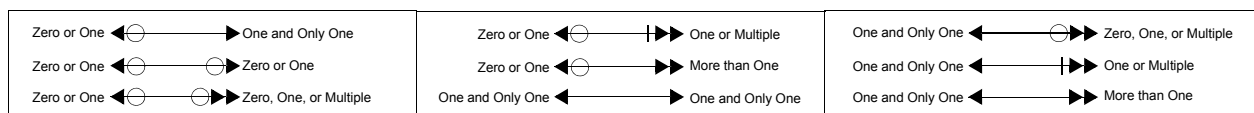
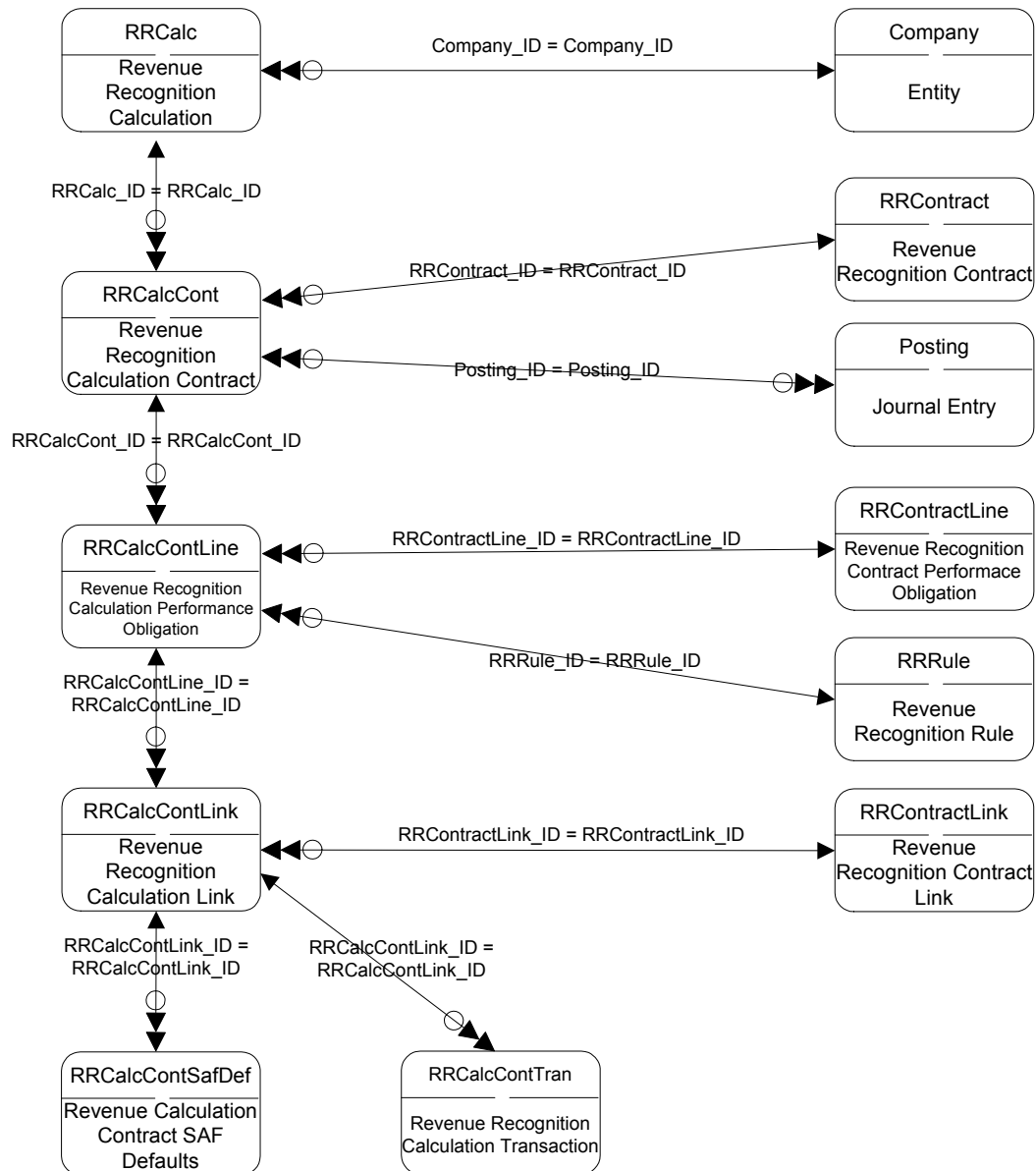
Zero or One	One and Only One	Zero or One	One or Multiple	One and Only One	Zero, One, or Multiple
Zero or One	Zero or One	Zero or One	More than One	One and Only One	One or Multiple
Zero or One	Zero, One, or Multiple	One and Only One	One and Only One	One and Only One	More than One

Revaluations

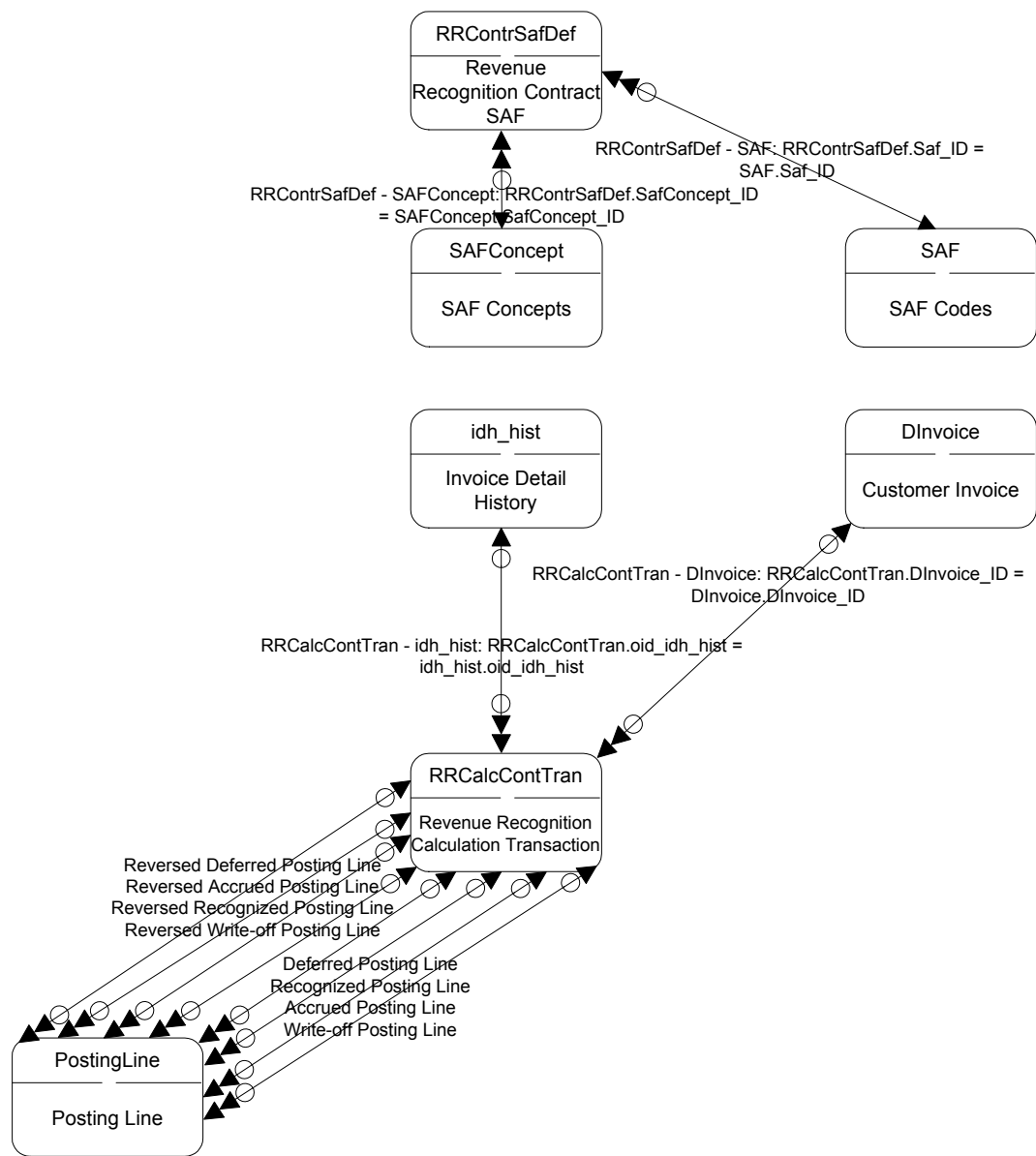


Zero, One, or Multiple	◀◀○	○▶▶	Zero, One, or Multiple
Zero, One, or Multiple	◀◀○	▶▶	One or Multiple
Zero, One, or Multiple	◀◀○	▶▶	More than One
One or Multiple	◀◀	▶▶	More than One
One or Multiple	◀◀	▶▶	One or Multiple
More than One	◀◀	▶▶	More than One

Revenue Recognition Calculation I

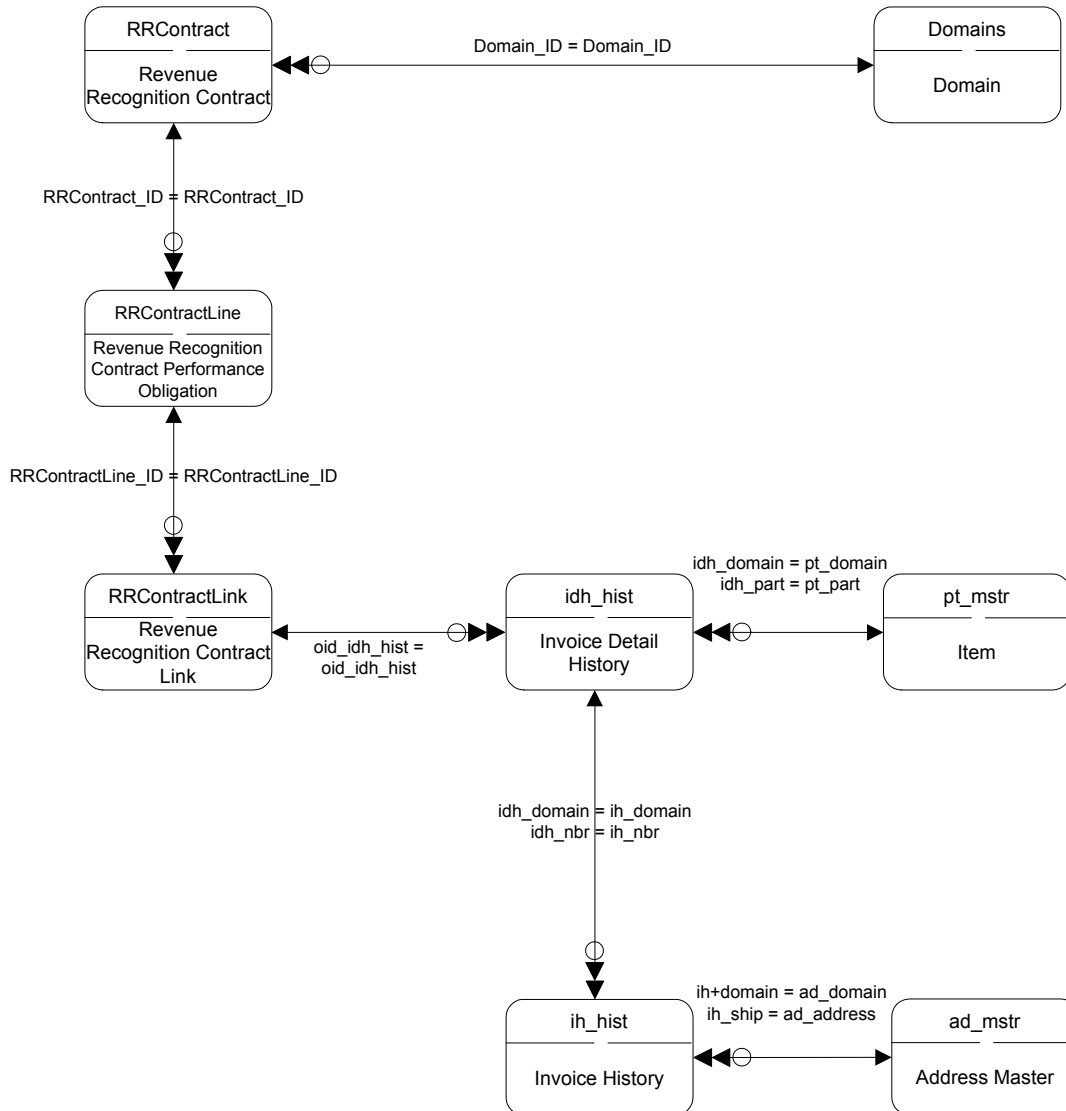


Revenue Recognition Calculation II



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

Revenue Recognition Contract Invoice View

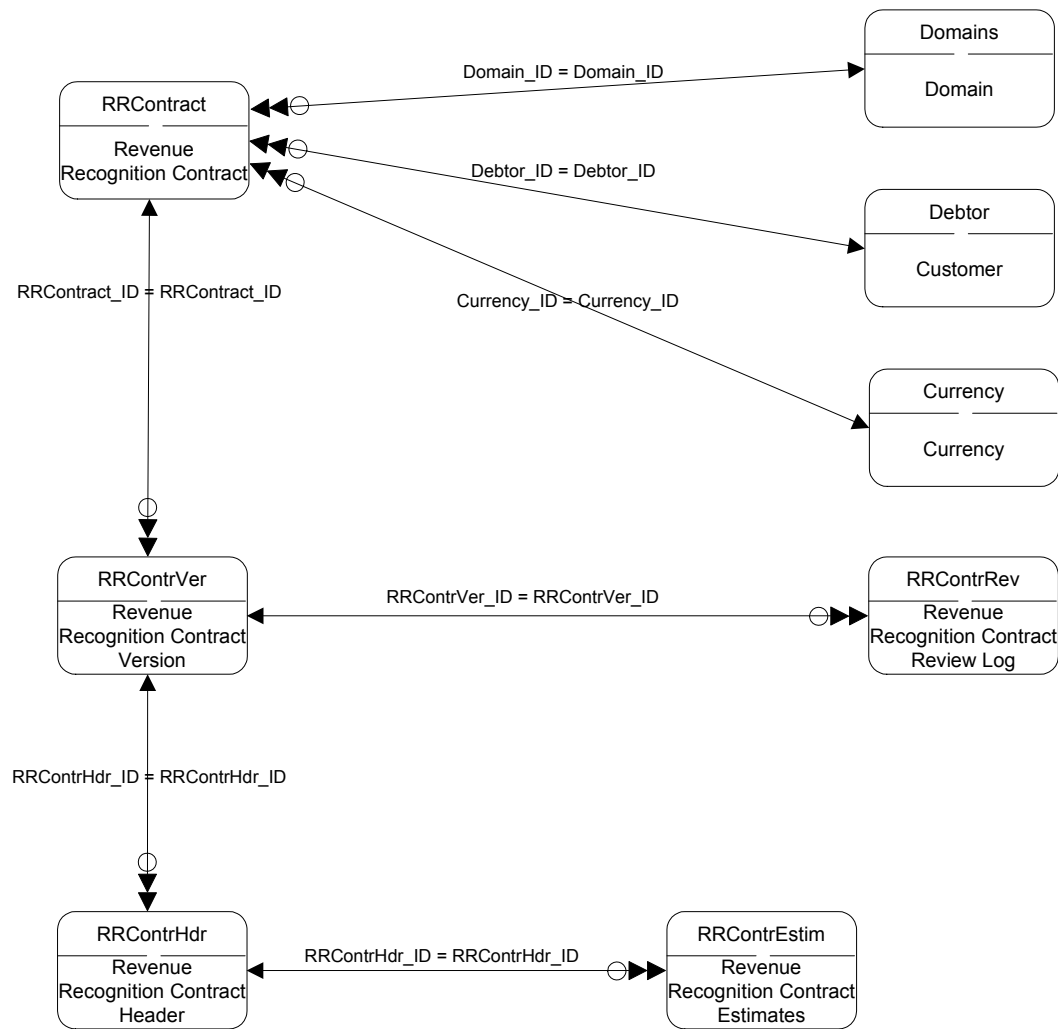


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One
 Zero or One $\leftarrow \ominus \rightarrow \ominus$ Zero or One
 Zero or One $\leftarrow \ominus \rightarrow \oplus$ Zero, One, or Multiple

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

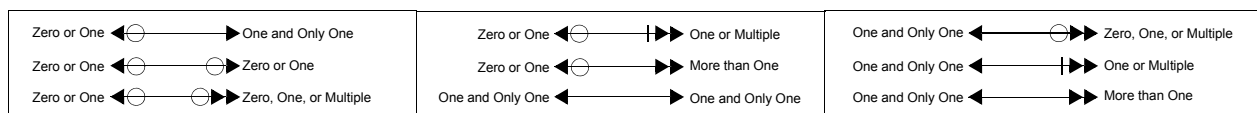
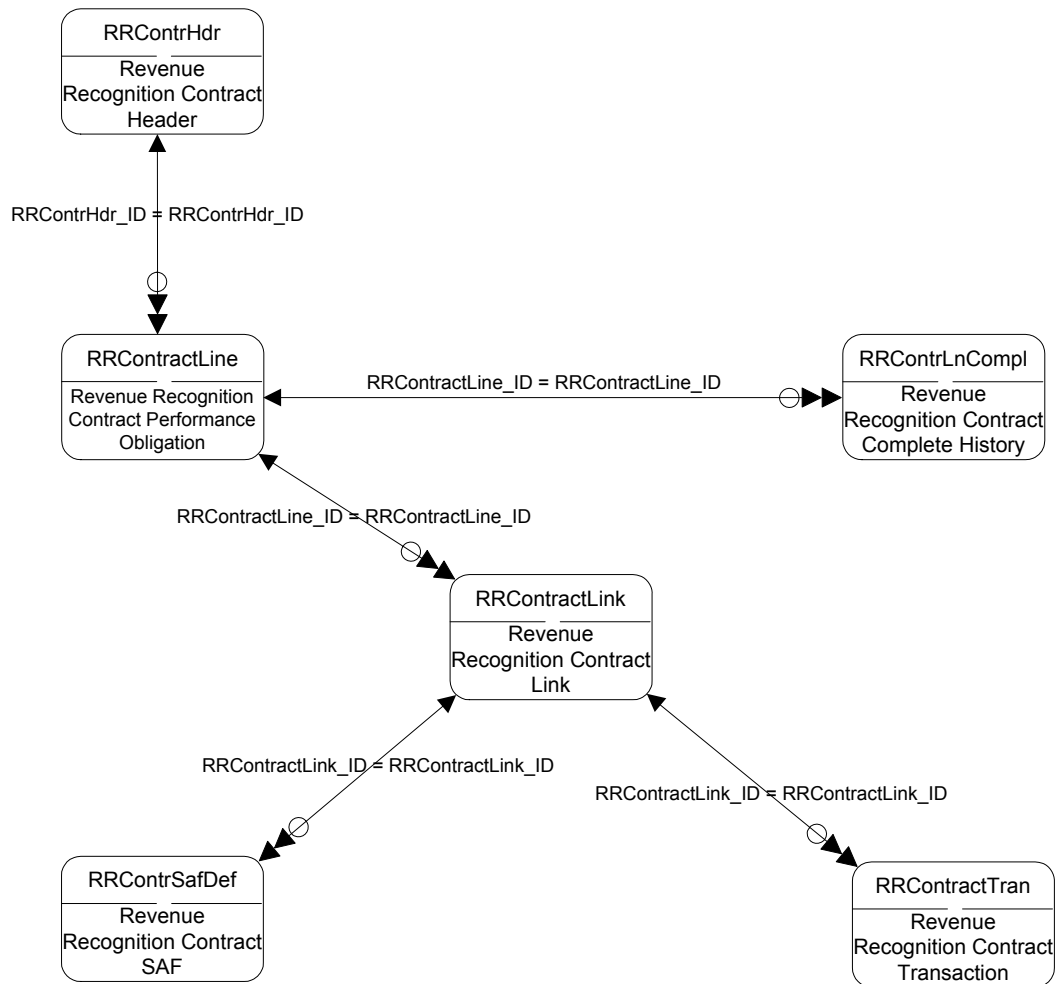
One and Only One $\leftarrow \ominus \rightarrow \oplus$ Zero, One, or Multiple
 One and Only One $\leftarrow \ominus \rightarrow \vdash$ One or Multiple
 One and Only One $\leftarrow \ominus \rightarrow \vdash \vdash$ More than One

Revenue Recognition Contract Maintenance I

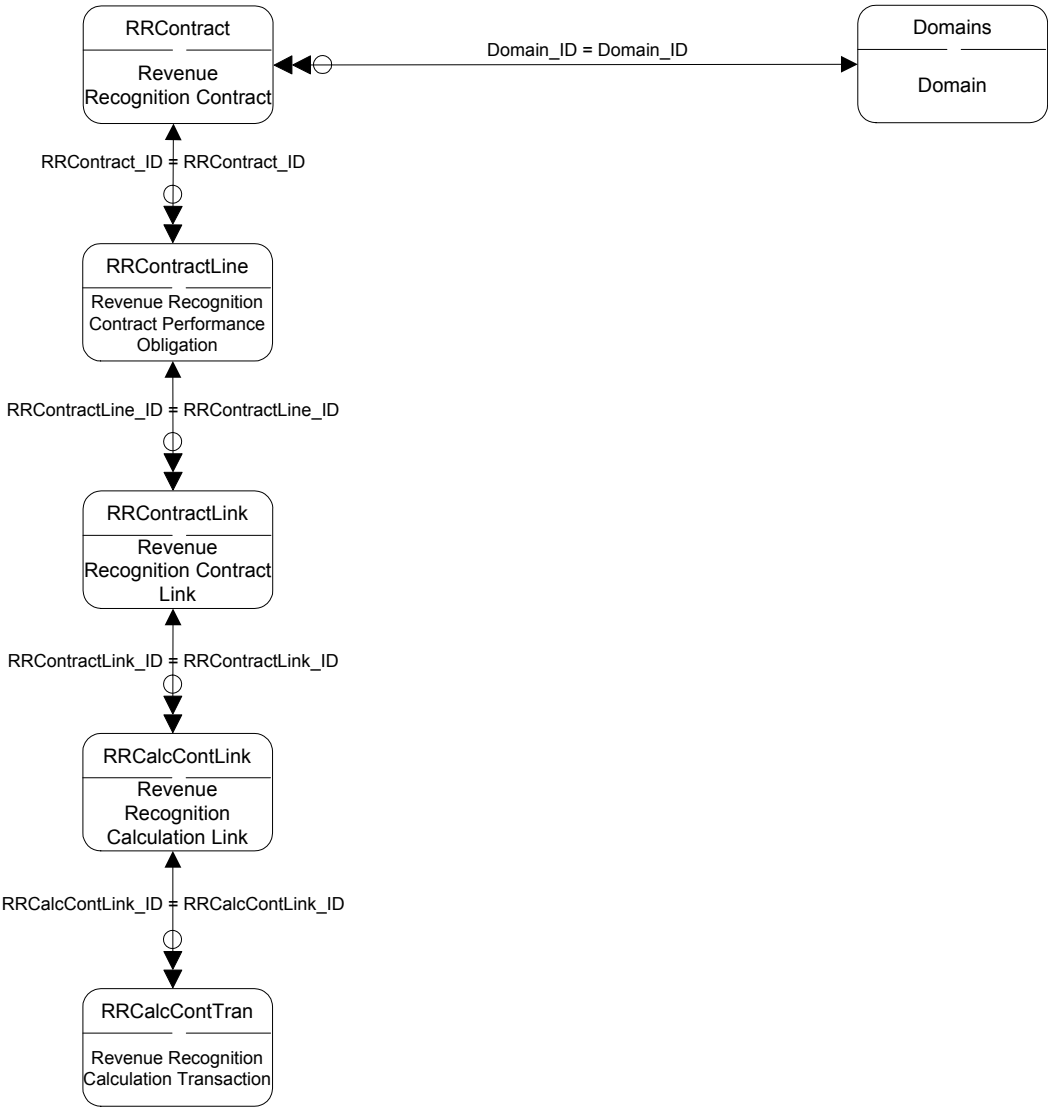


Zero, One, or Multiple	One or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One	More than One

Revenue Recognition Contract Maintenance II

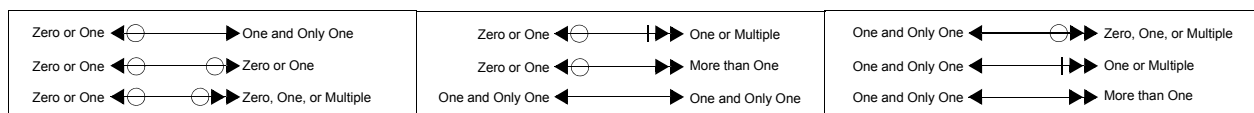
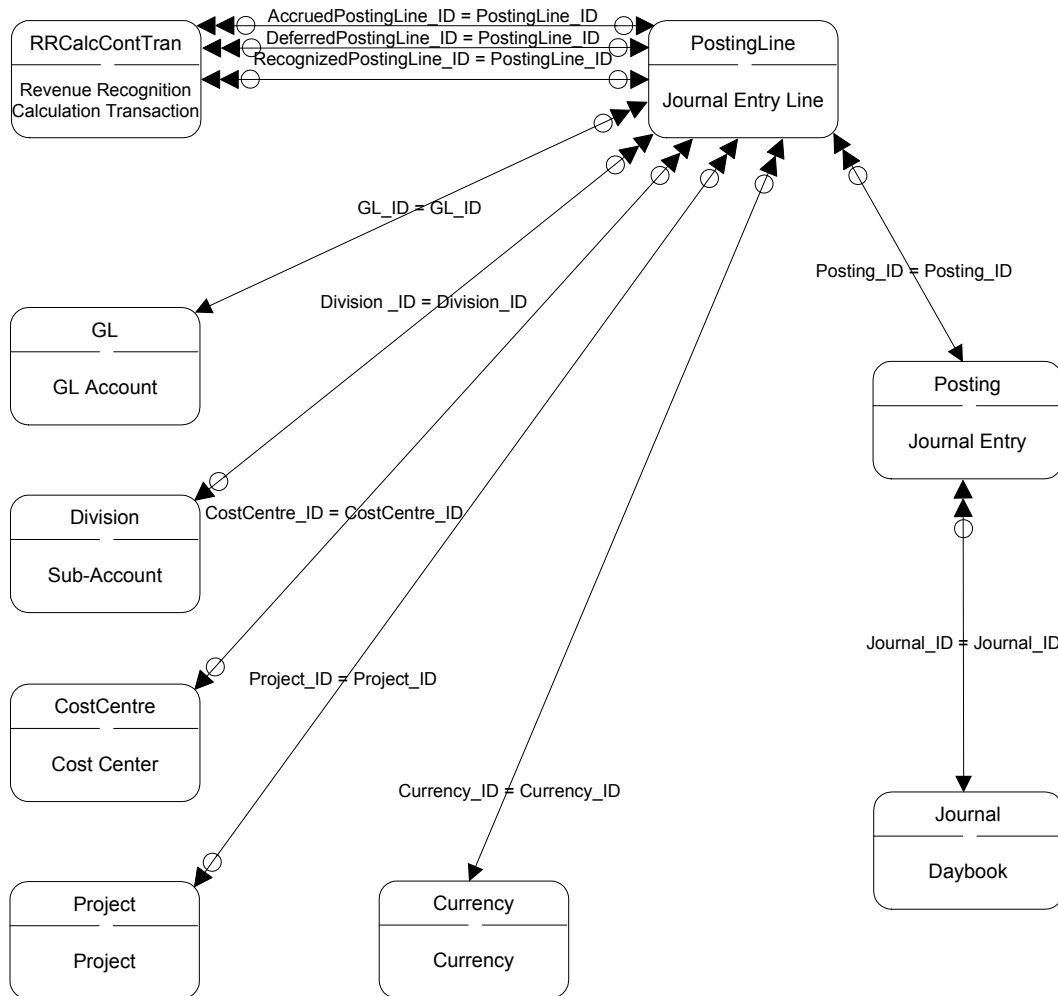


Revenue Recognition Contract Transaction View I

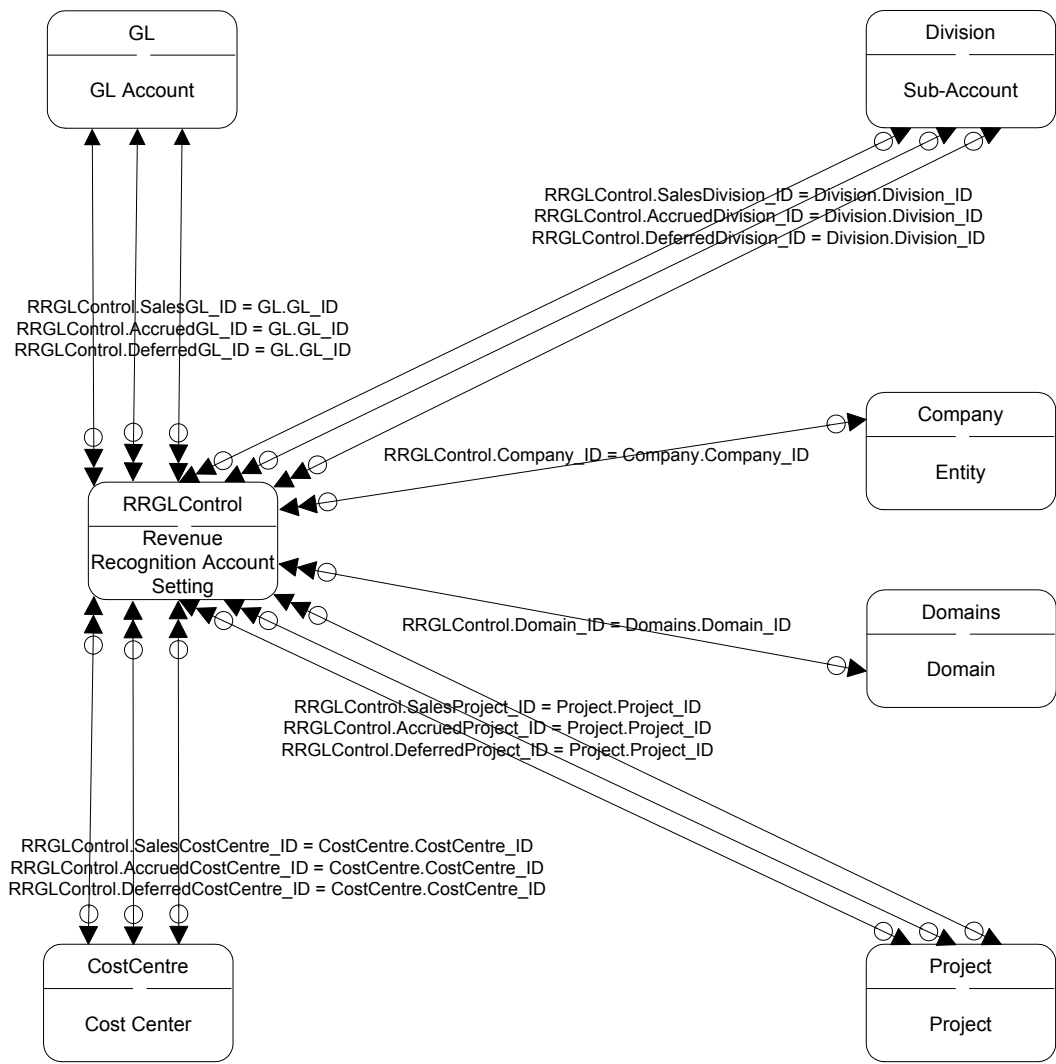


Zero, One, or Multiple	One or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One	More than One

Revenue Recognition Contract Transaction View II

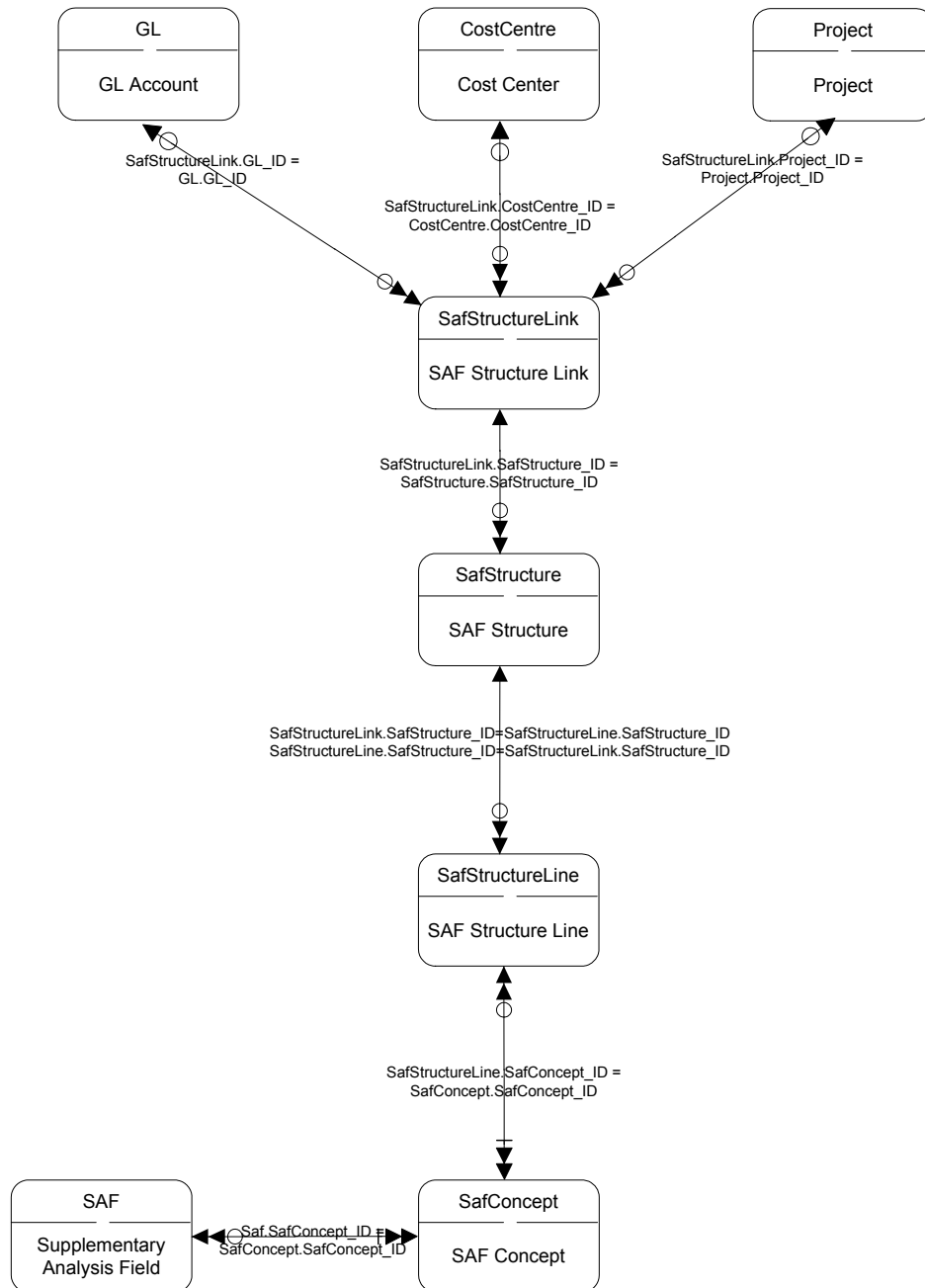


Revenue Recognition GL Account Mapping



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

SAF

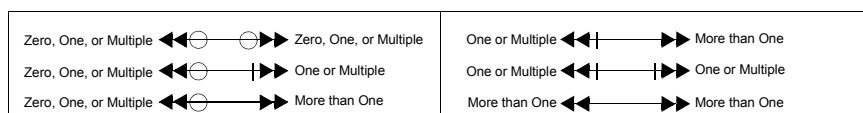
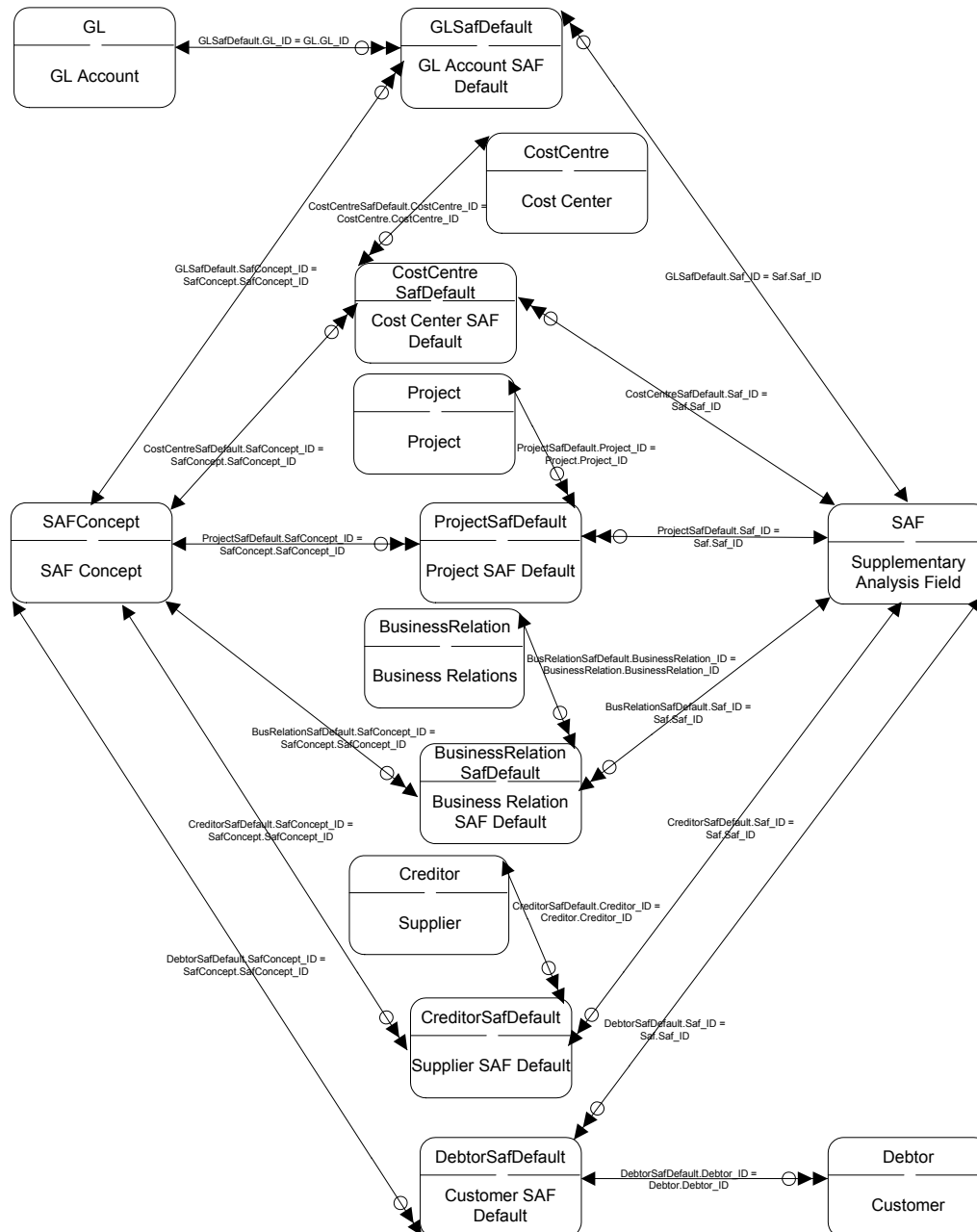


Zero or One $\leftarrow \bigcirc \rightarrow$ One and Only One
 Zero or One $\leftarrow \bigcirc \rightarrow \bigcirc$ Zero or One
 Zero or One $\leftarrow \bigcirc \rightarrow \bigcirc$ Zero, One, or Multiple

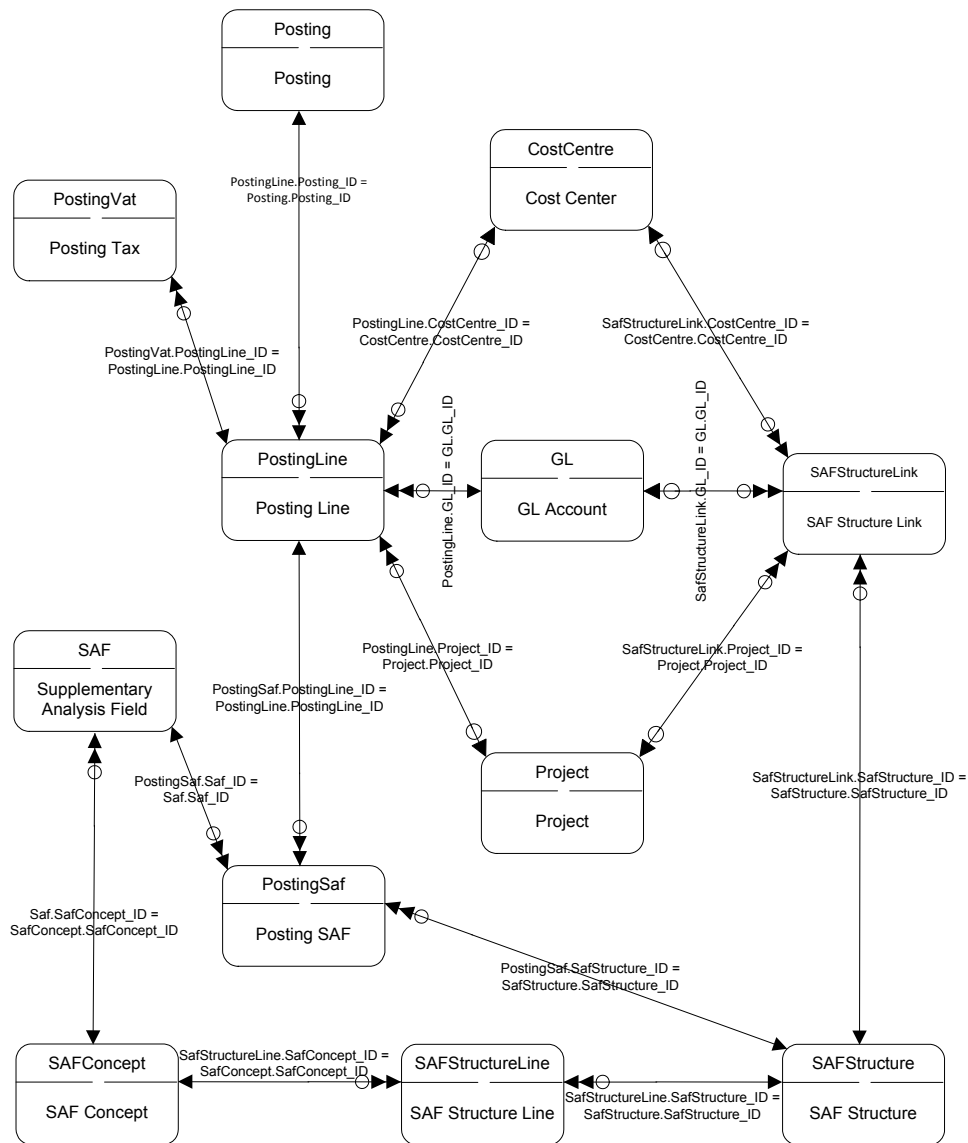
Zero or One $\leftarrow \bigcirc \rightarrow \text{---}$ One or Multiple
 Zero or One $\leftarrow \bigcirc \rightarrow \text{---}$ More than One
 One and Only One $\leftarrow \bigcirc \rightarrow \text{---}$ One and Only One

One and Only One $\leftarrow \text{---} \rightarrow \bigcirc$ Zero, One, or Multiple
 One and Only One $\leftarrow \text{---} \rightarrow \text{---}$ One or Multiple
 One and Only One $\leftarrow \text{---} \rightarrow \text{---}$ More than One

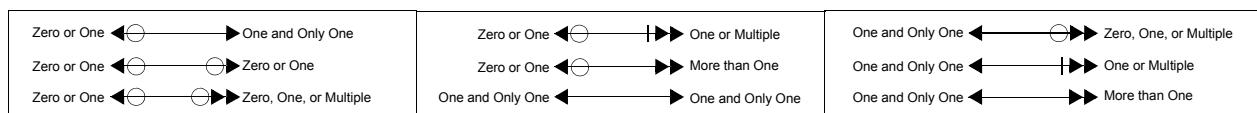
SAF Defaulting



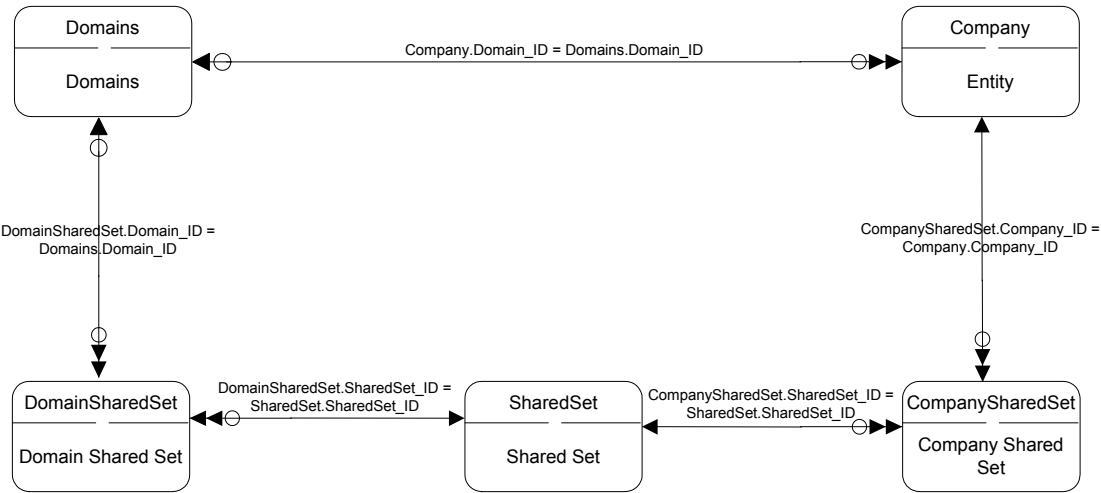
SAF In Posting



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

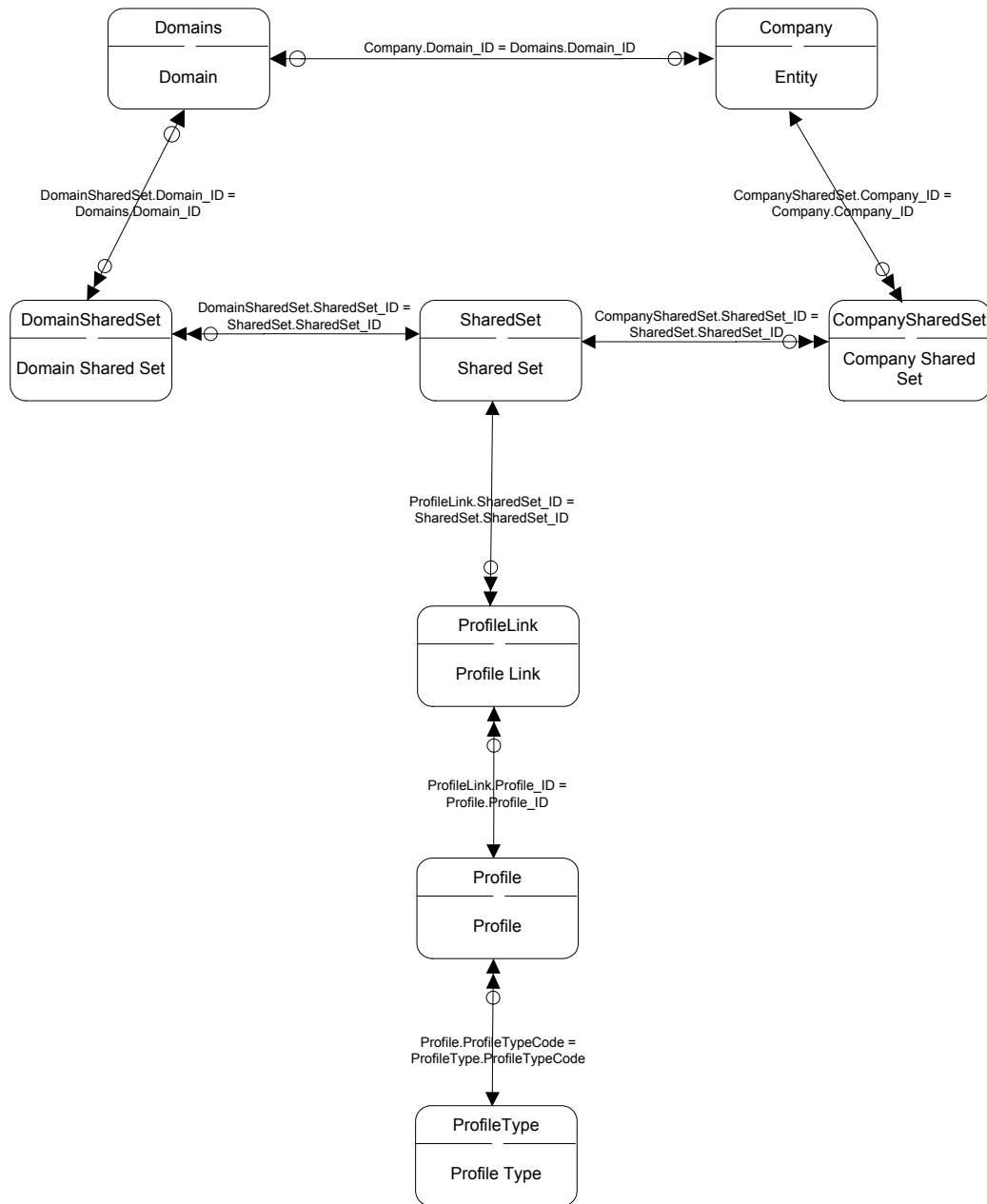








Shared Sets















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

Shared Sets Profiles

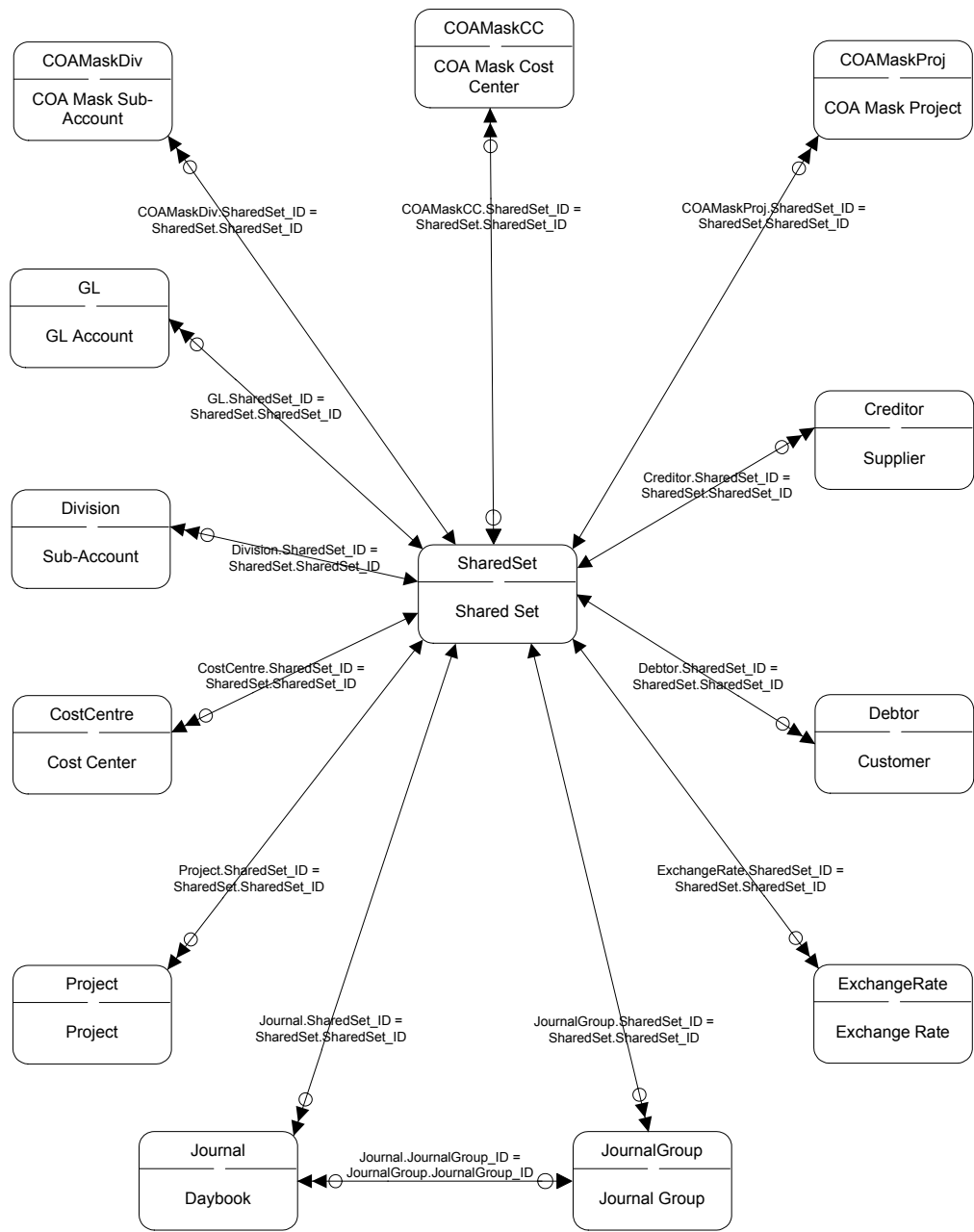


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

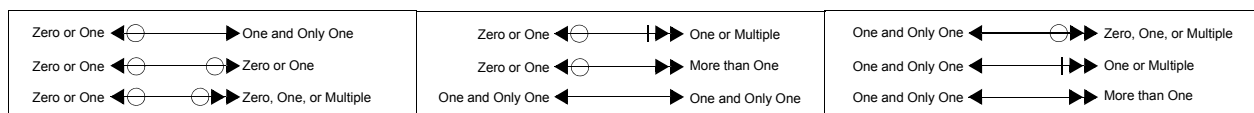
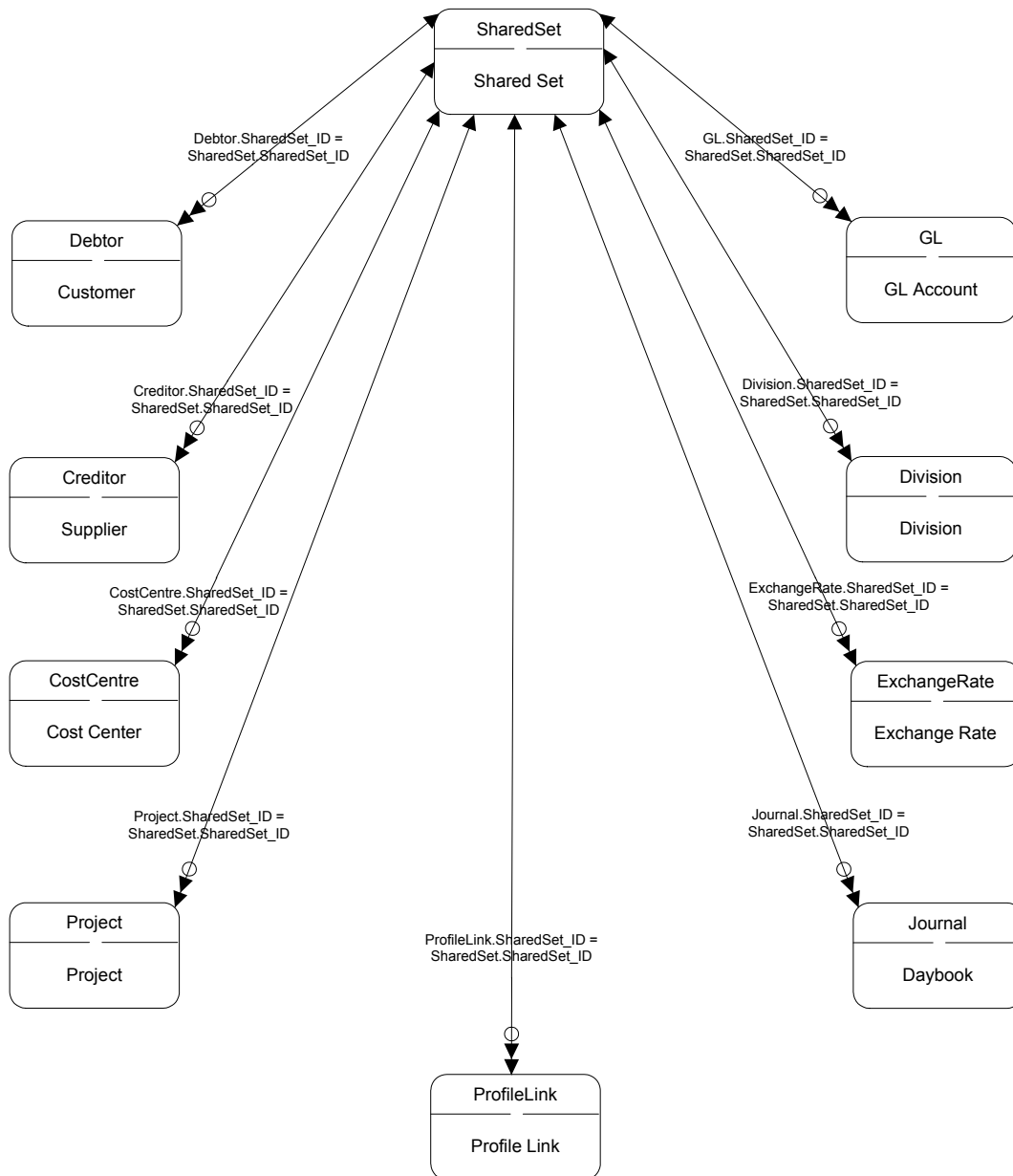
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Shared Sets Type

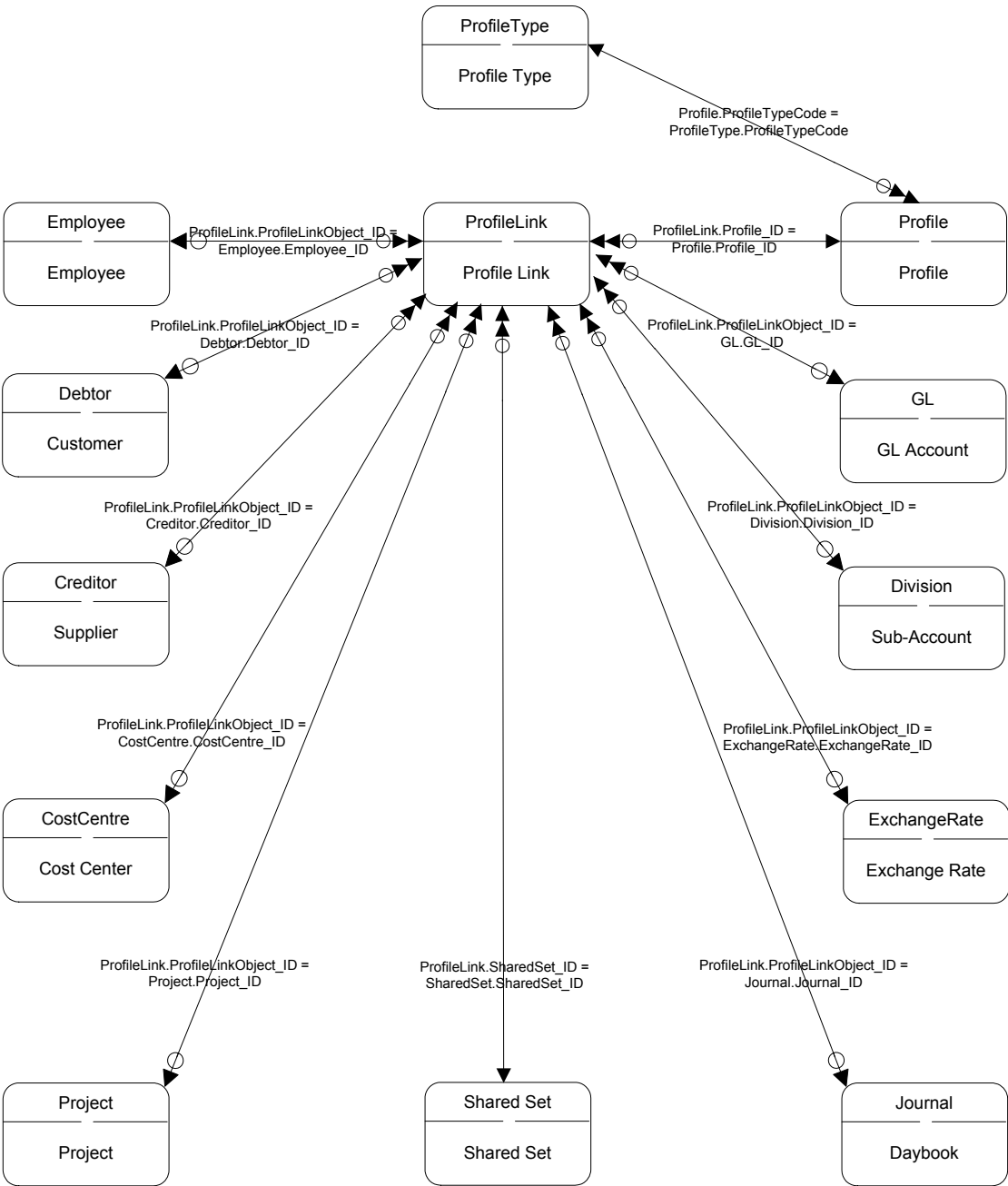


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Shared Sets Type Profile I

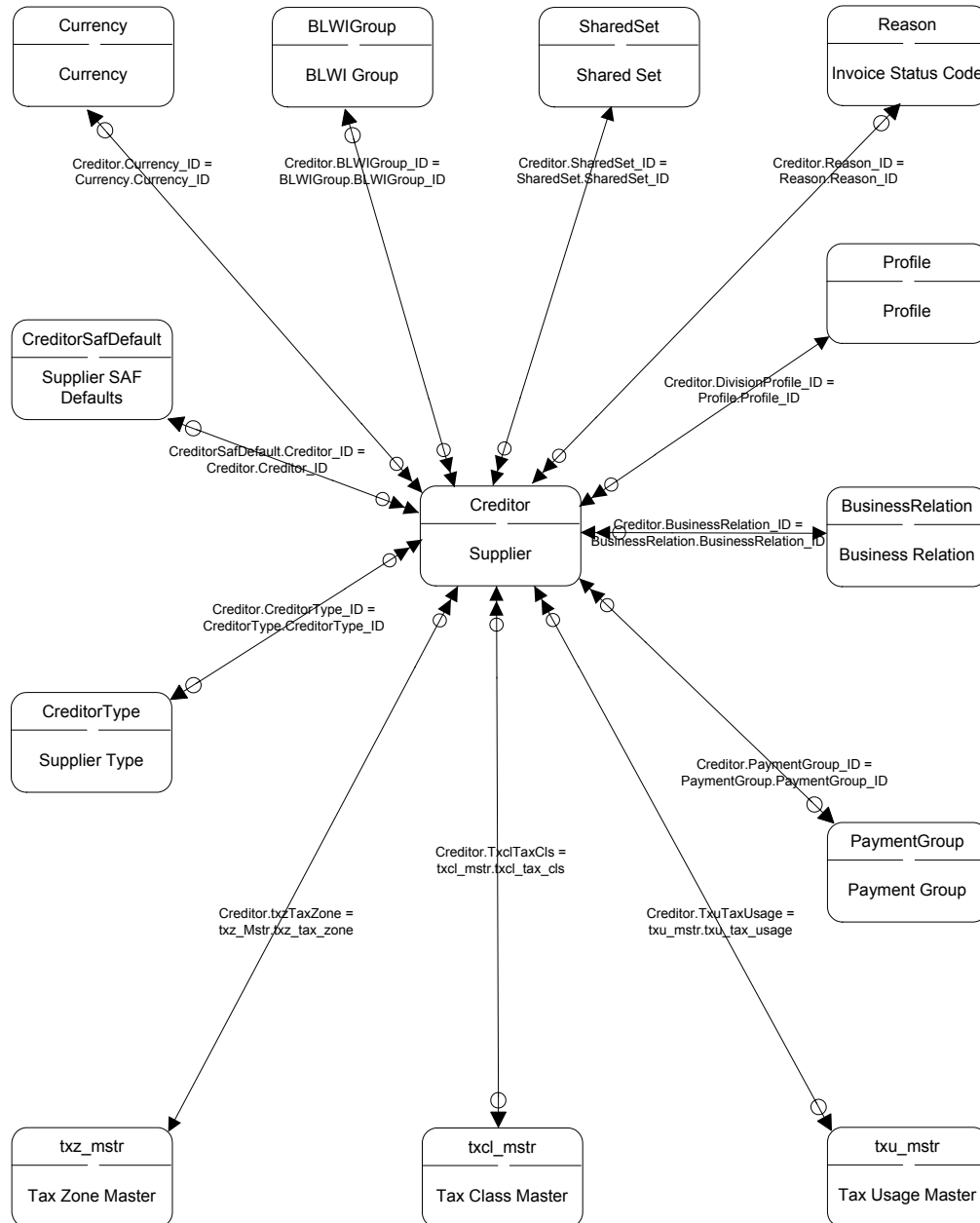




















Shared Sets Type Profile II



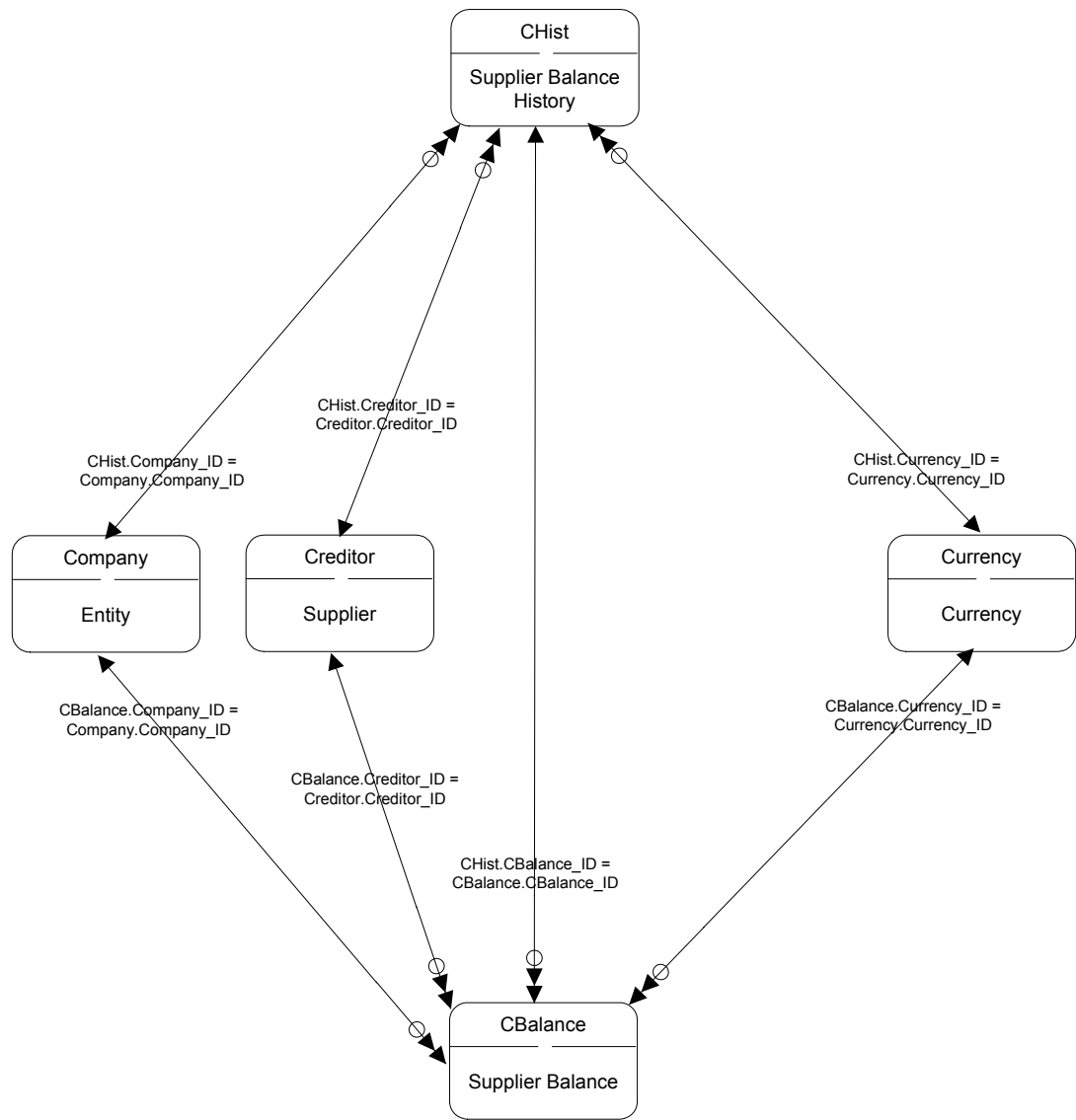
Zero, One, or Multiple	◀◀○◀◀	◀◀○◀◀	Zero, One, or Multiple
Zero, One, or Multiple	◀◀○◀◀	◀◀○◀◀	One or Multiple
Zero, One, or Multiple	◀◀○◀◀	◀◀○◀◀	More than One
One or Multiple	◀◀◀◀◀◀	◀◀◀◀◀◀	More than One
One or Multiple	◀◀◀◀◀◀	◀◀◀◀◀◀	One or Multiple
More than One	◀◀◀◀◀◀	◀◀◀◀◀◀	More than One

Supplier



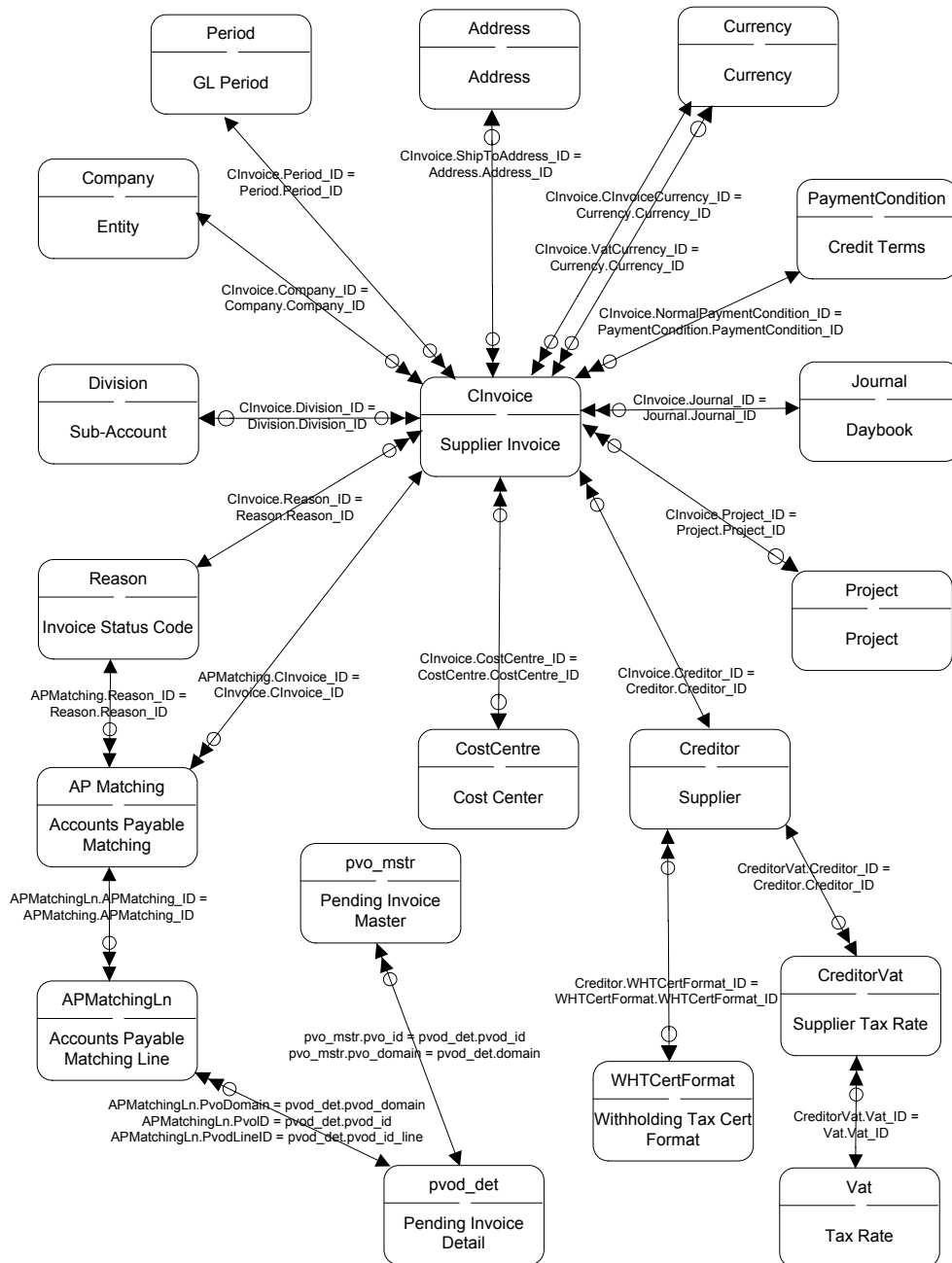
Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 



















Supplier Balance



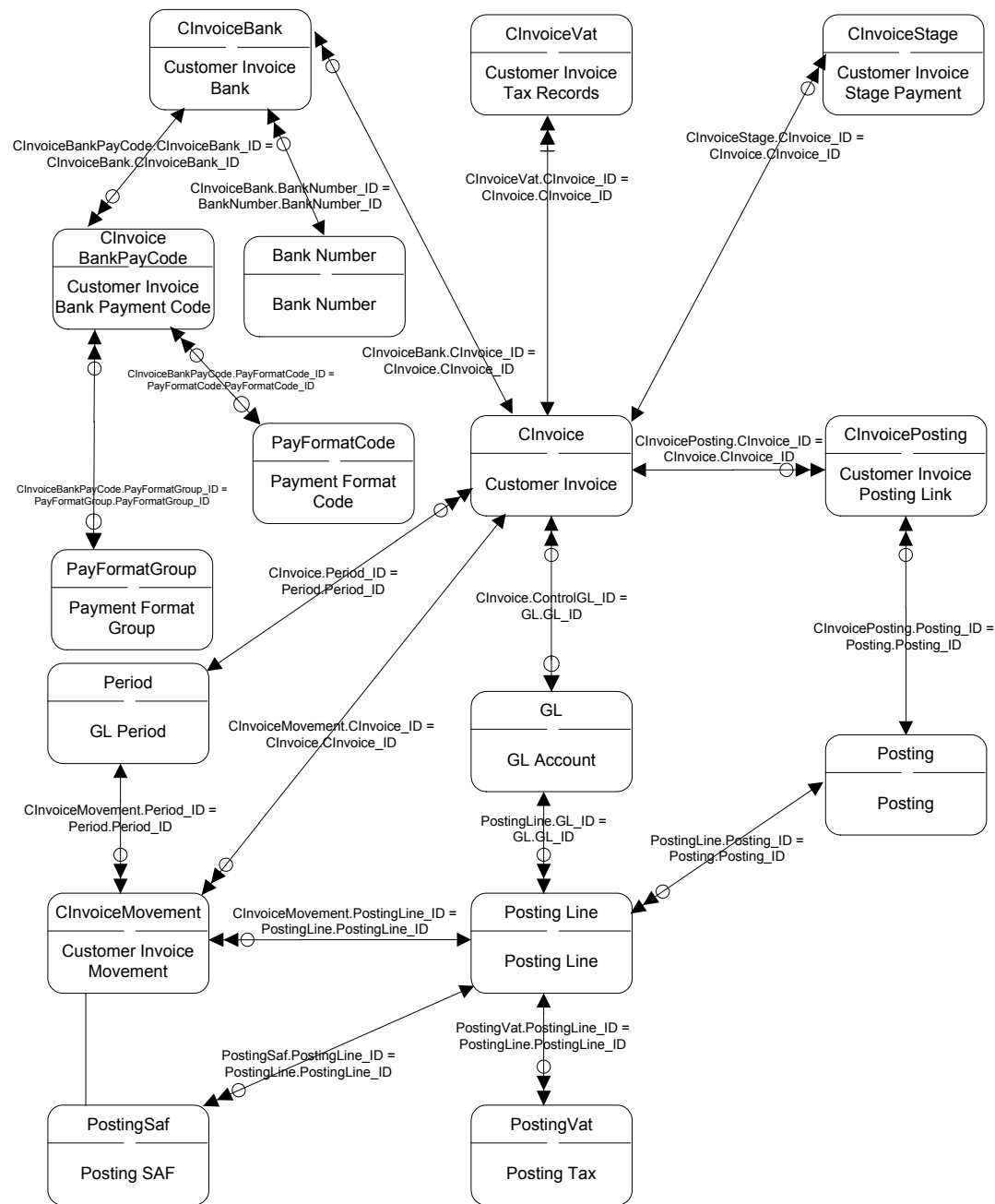
Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Supplier Invoice I



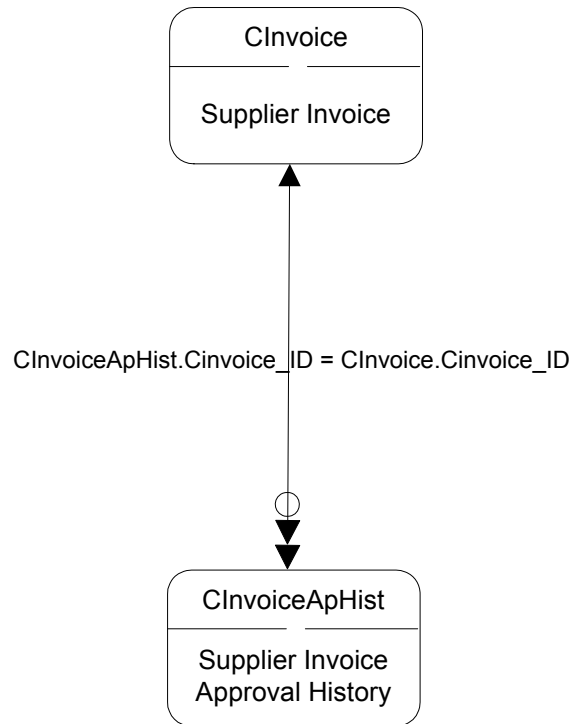
Zero or One 	One and Only One 	Zero or One 	One or Multiple 	One and Only One 	Zero, One, or Multiple 
Zero or One 	Zero or One 	Zero or One 	More than One 	One and Only One 	One or Multiple 
Zero or One 	Zero, One, or Multiple 	One and Only One 	One and Only One 	One and Only One 	More than One 







Supplier Invoice II















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 Approval Workflow History

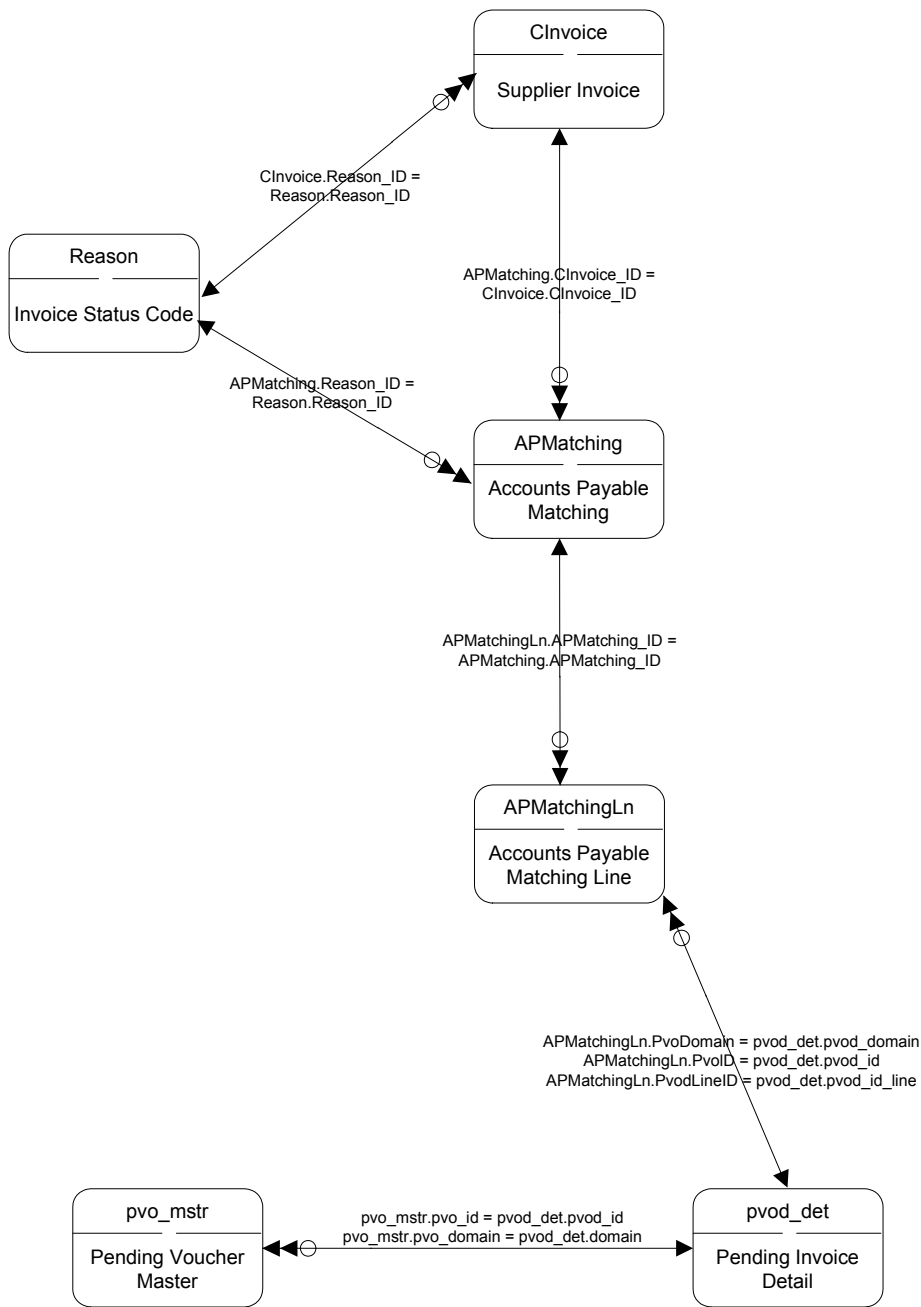


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

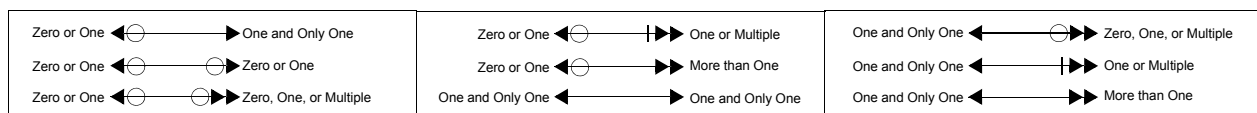
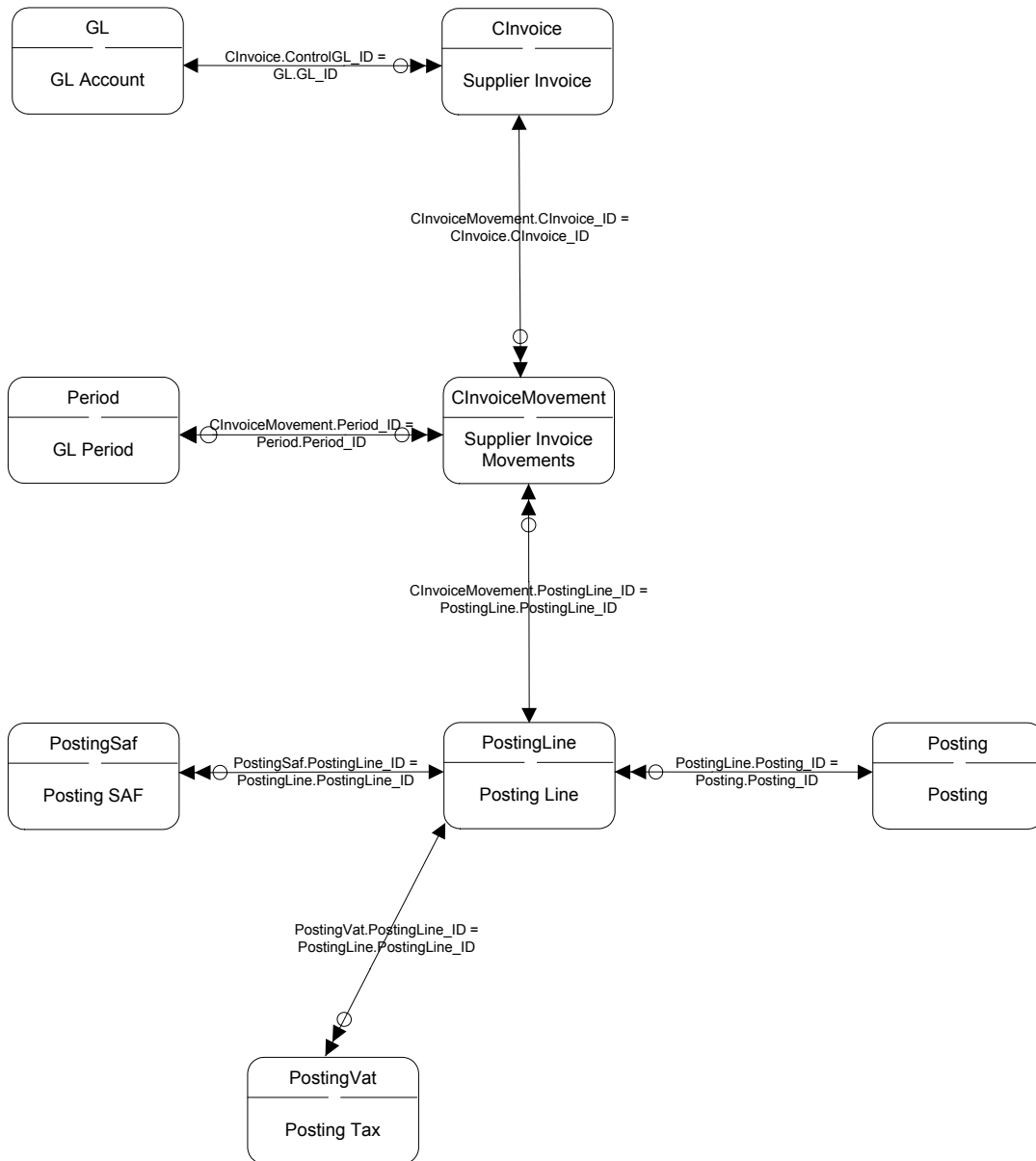
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Supplier Invoice Matching

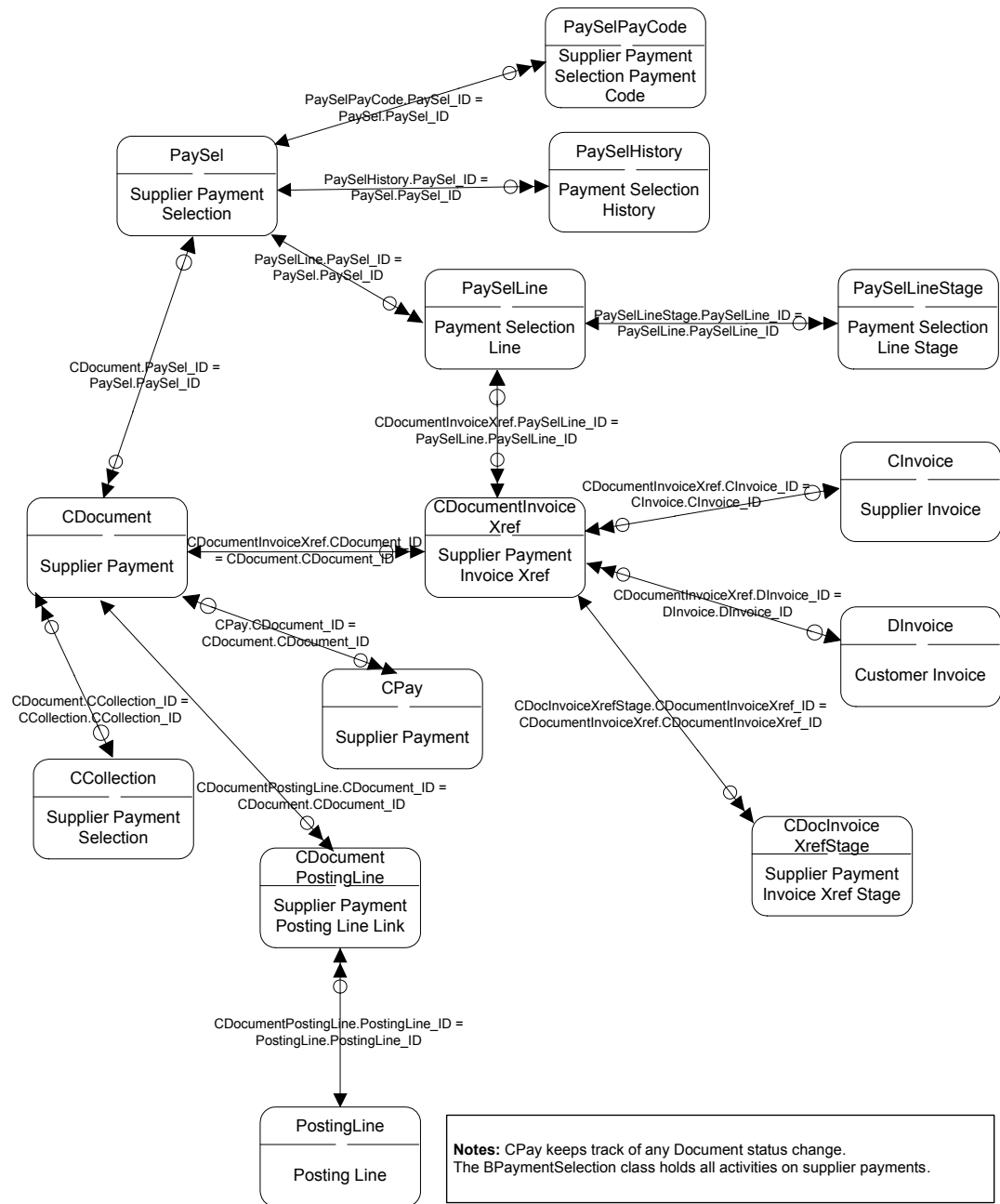


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Supplier Invoice Movement

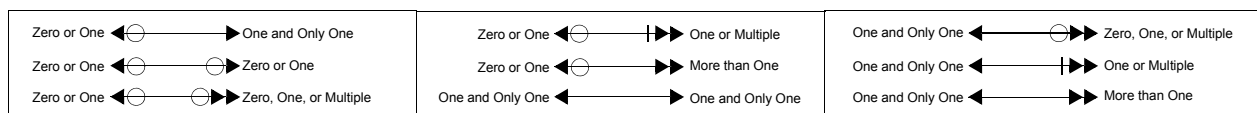
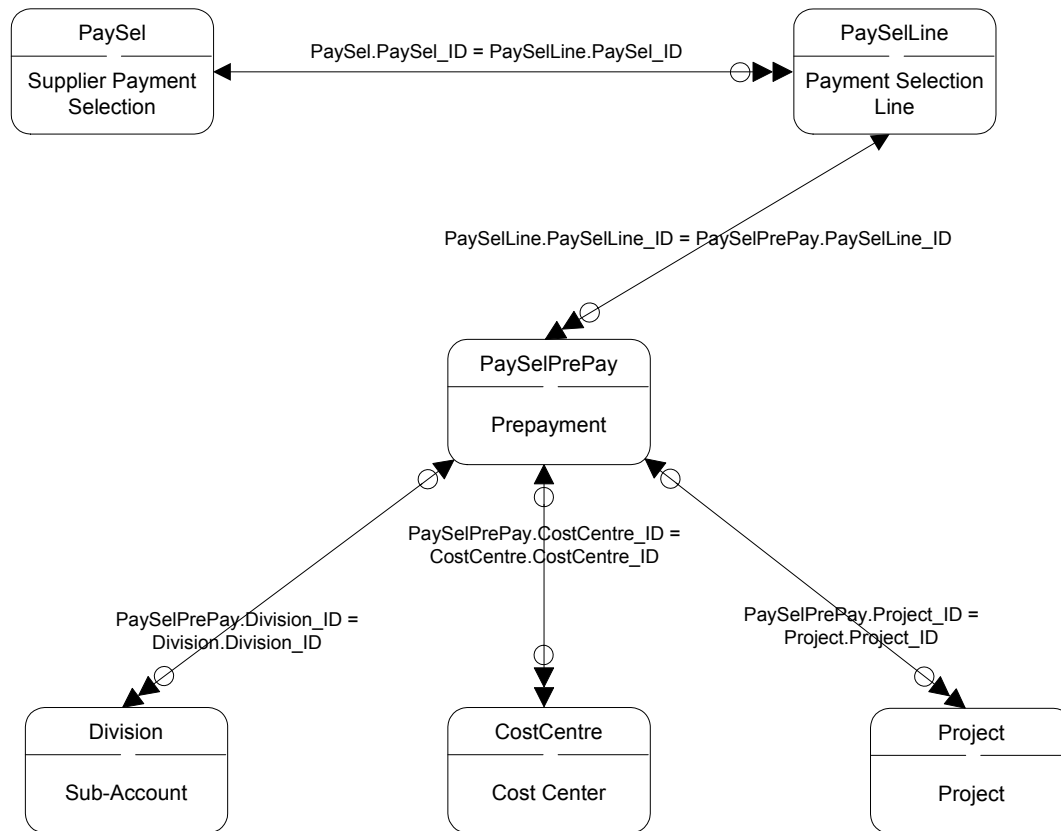


Supplier Payments

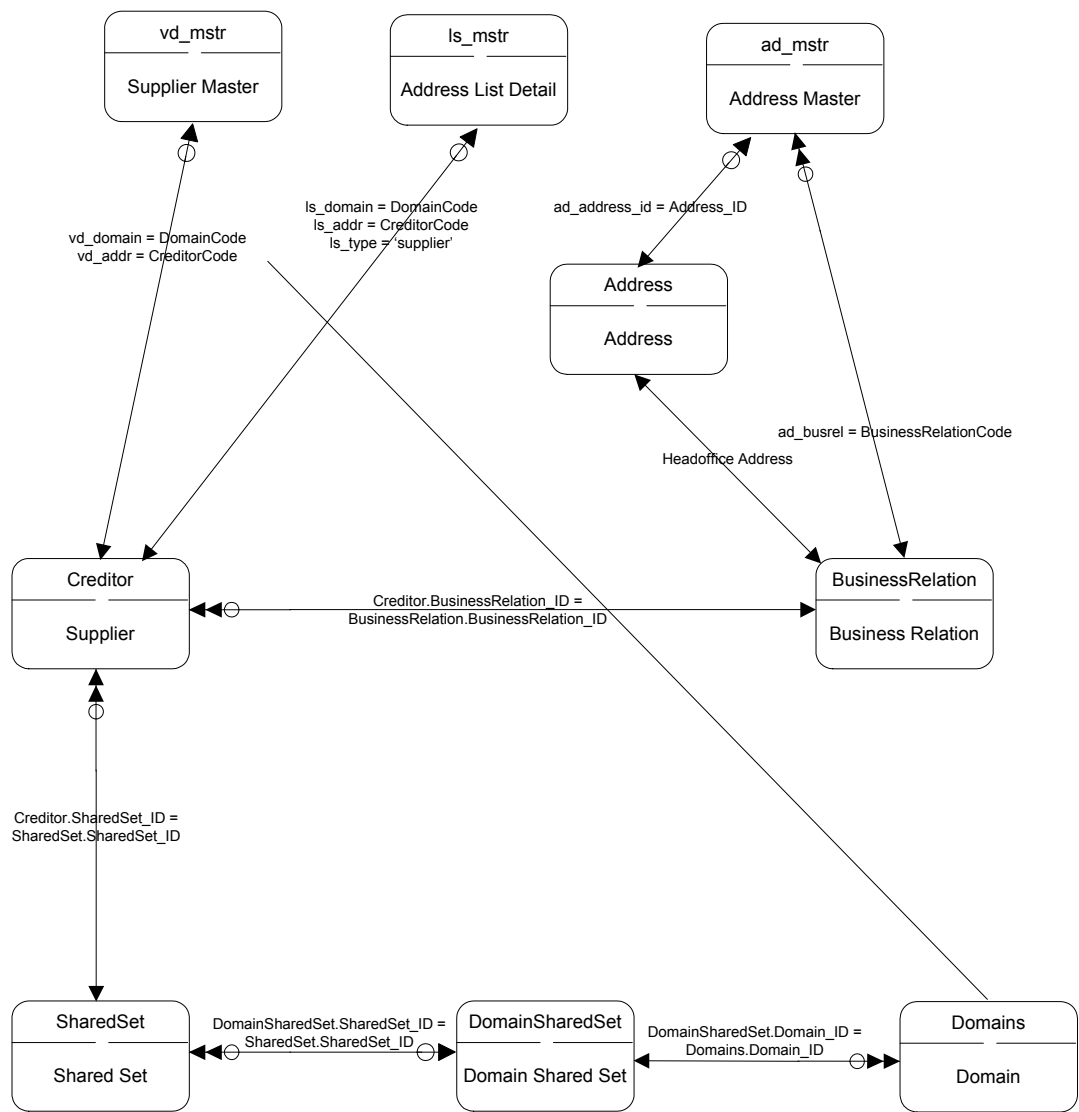


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

Supplier Payments - Prepayments

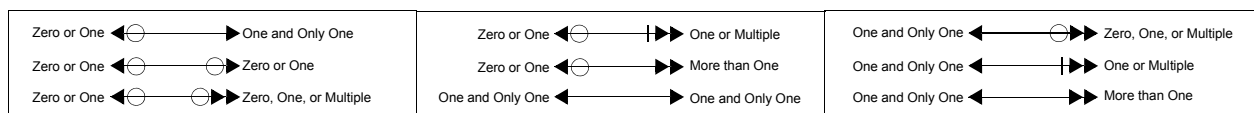
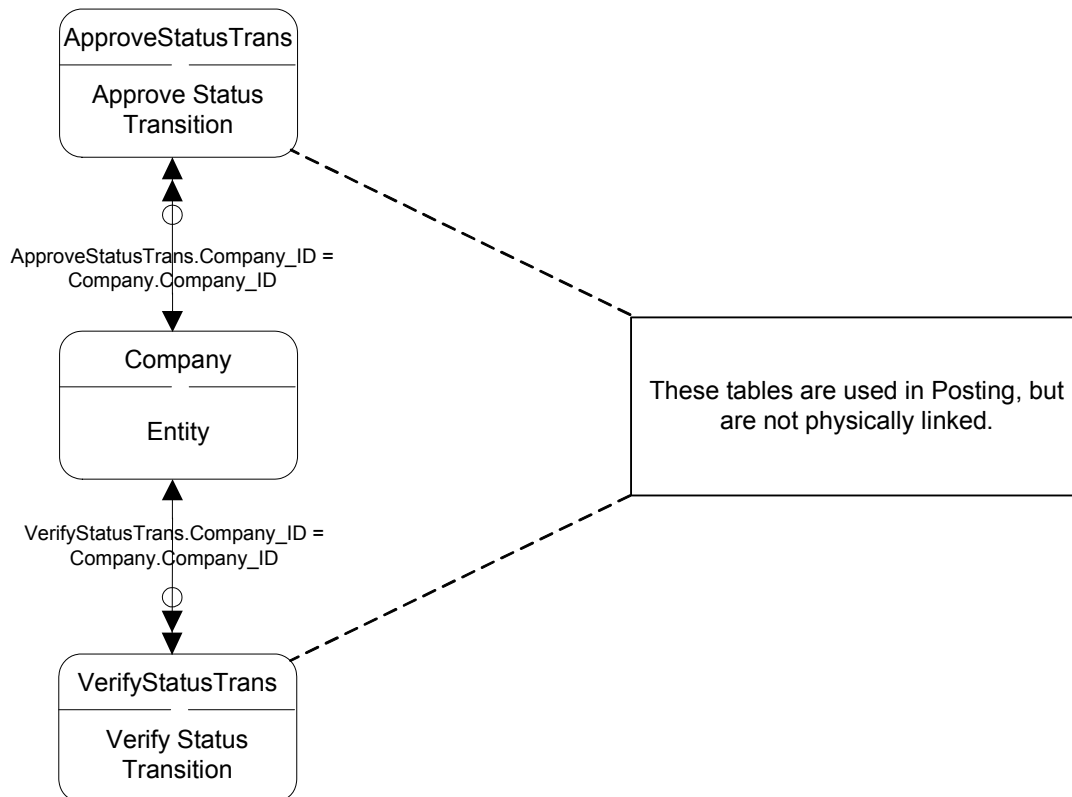
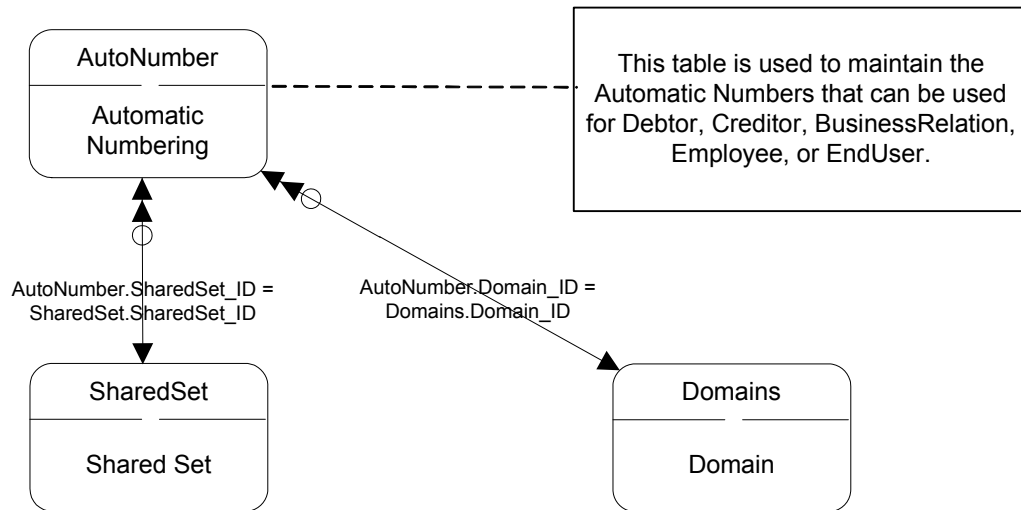


Supplier Replication

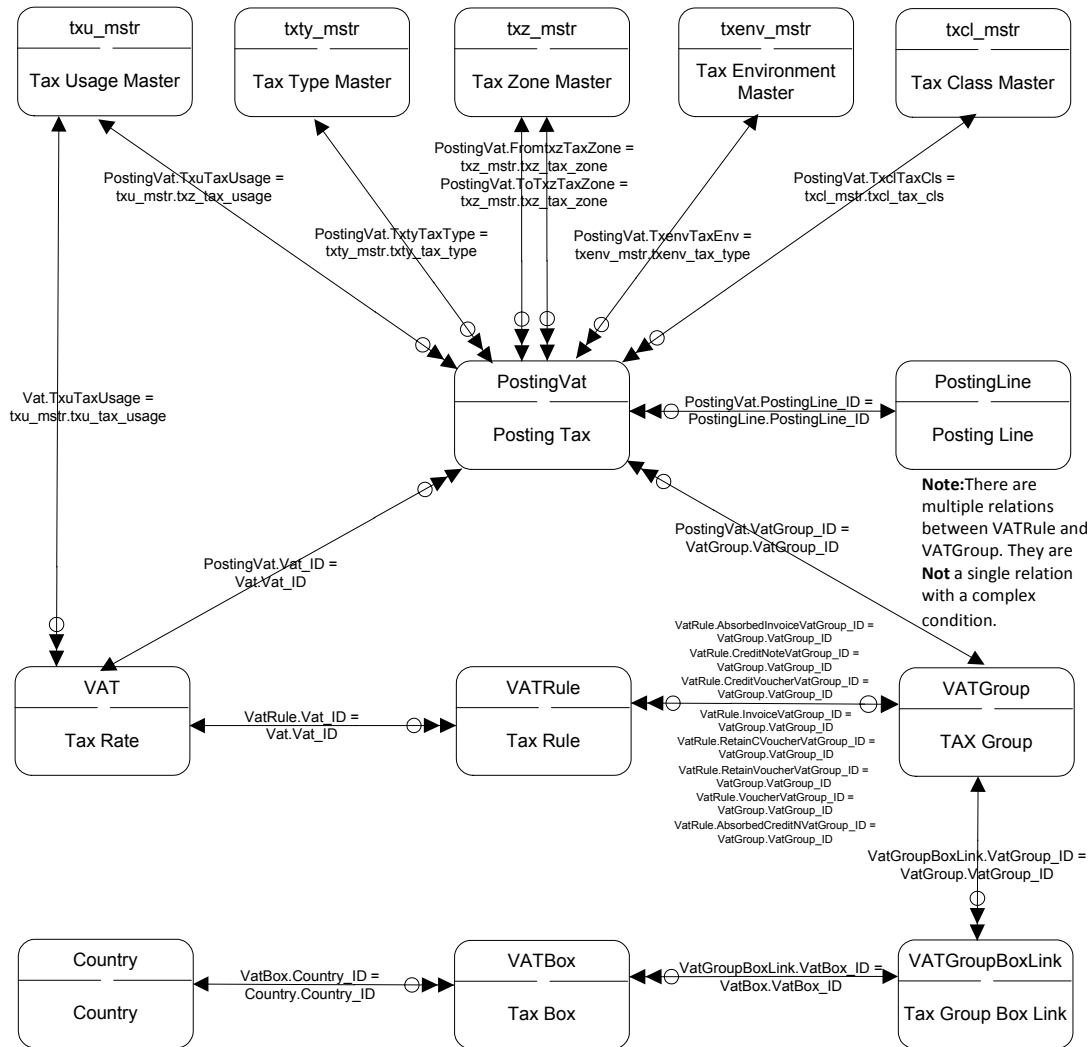


Zero, One, or Multiple	Zero, One, or Multiple	One or Multiple	More than One
Zero, One, or Multiple	One or Multiple	One or Multiple	One or Multiple
Zero, One, or Multiple	More than One	More than One	More than One

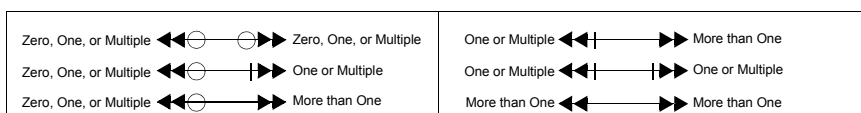
Supportive Tables



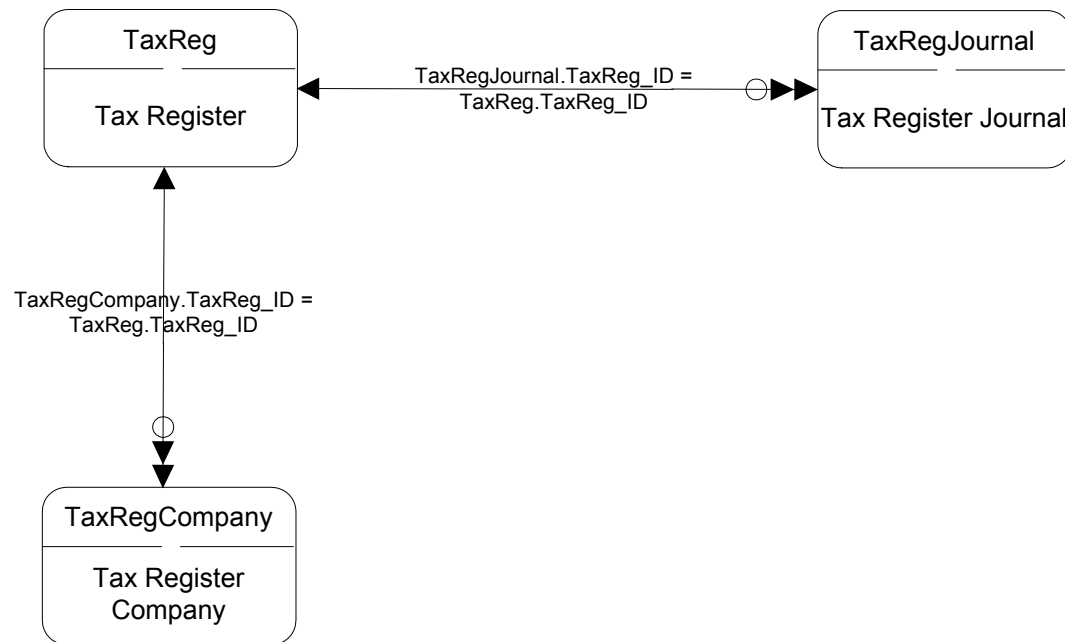
Tax Master















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

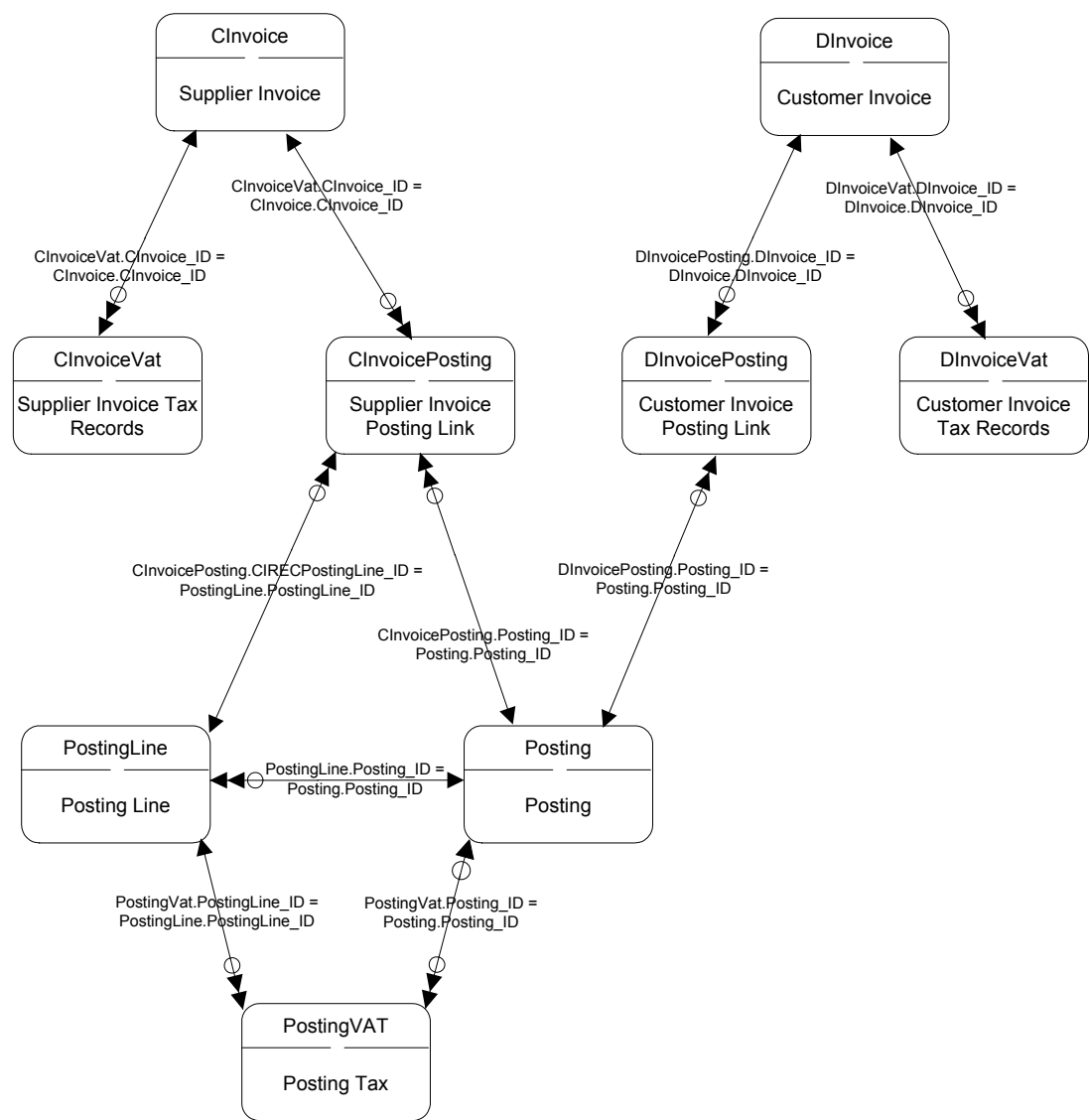


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 

Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 

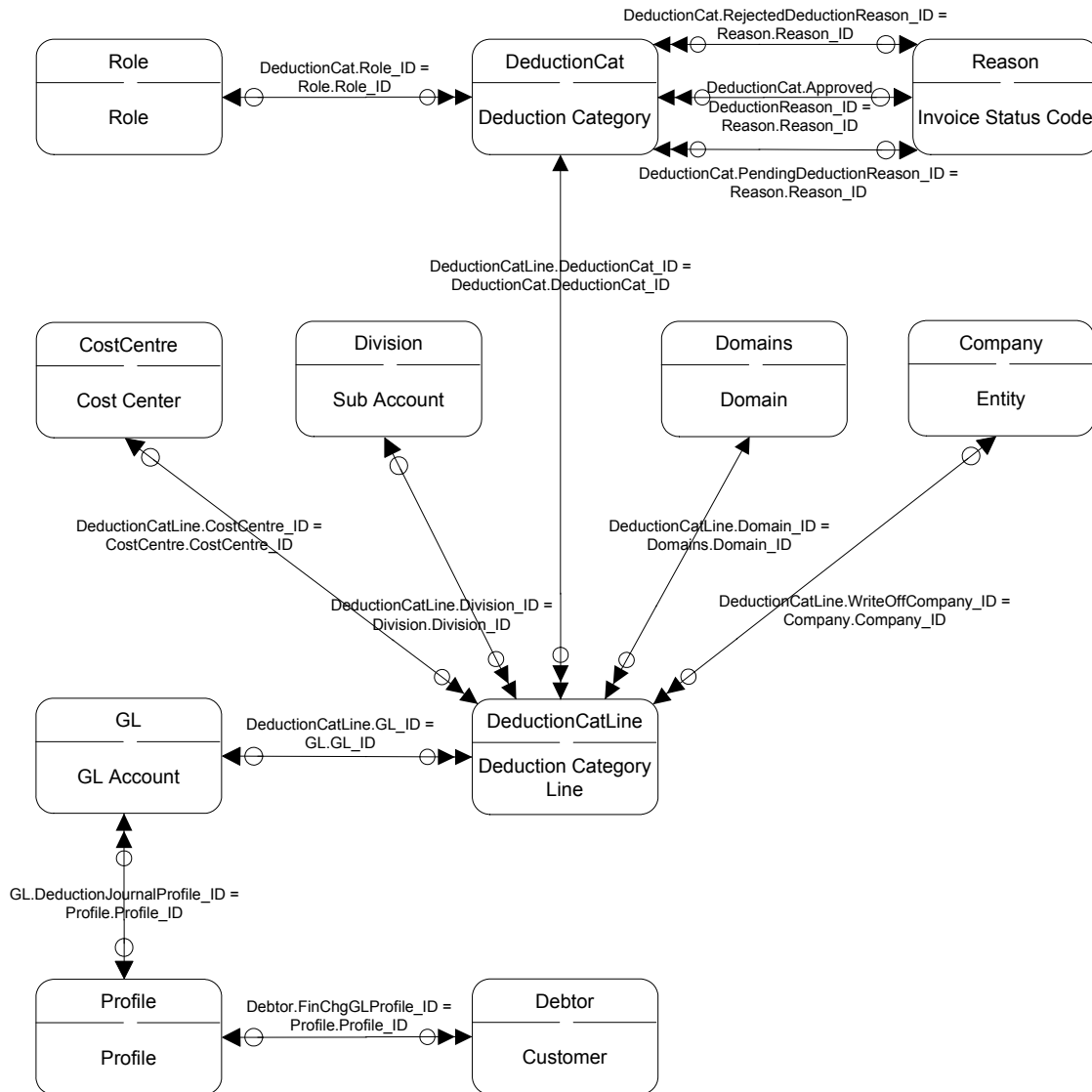
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Tax Transactions



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

TPM Deductions I

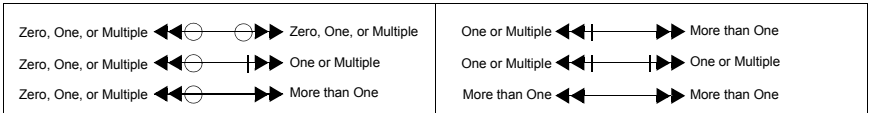
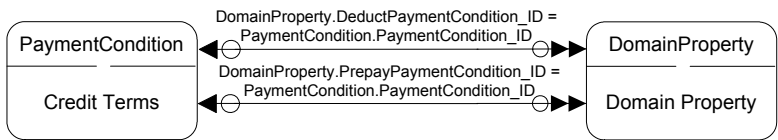
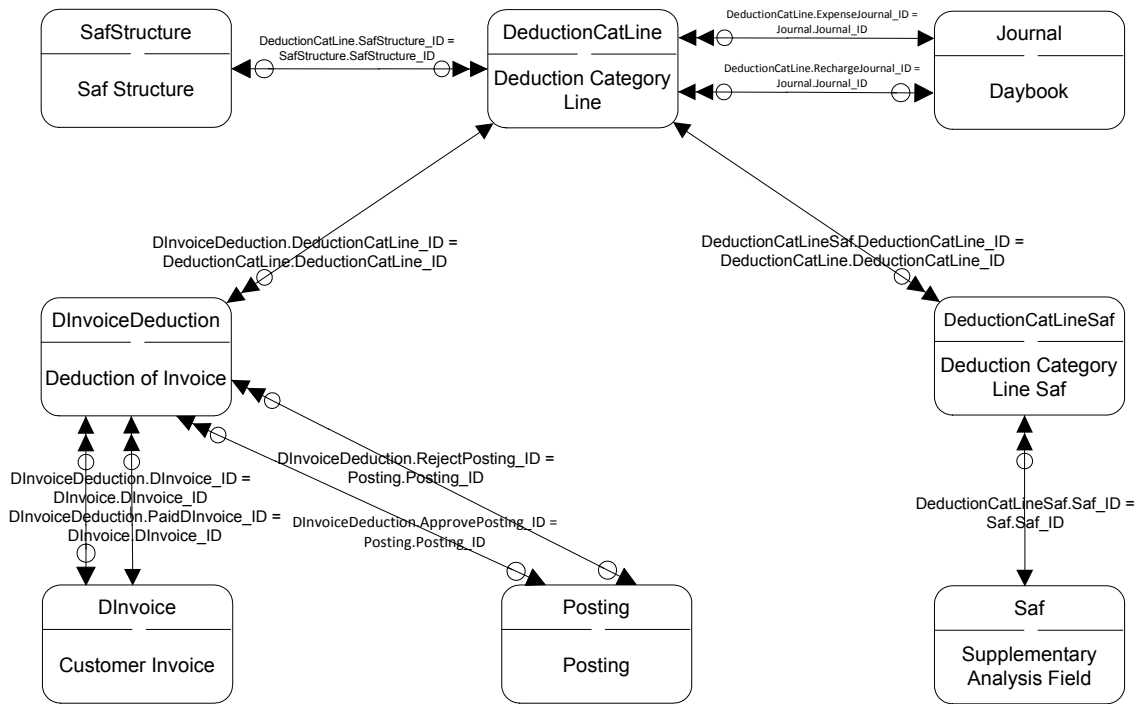


Zero or One $\leftarrow \ominus \rightarrow$ One and Only One
 Zero or One $\leftarrow \ominus \rightarrow$ Zero or One
 Zero or One $\leftarrow \ominus \rightarrow$ Zero, One, or Multiple

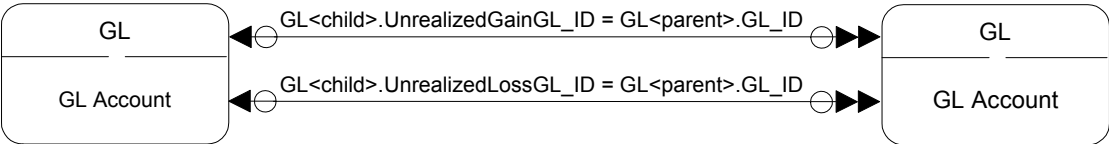
Zero or One $\leftarrow \ominus \dashv \rightarrow$ One or Multiple
 Zero or One $\leftarrow \ominus \rightarrow$ More than One
 One and Only One $\leftarrow \ominus \rightarrow$ One and Only One

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

TPM Deductions II



Unrealized Gain/Loss



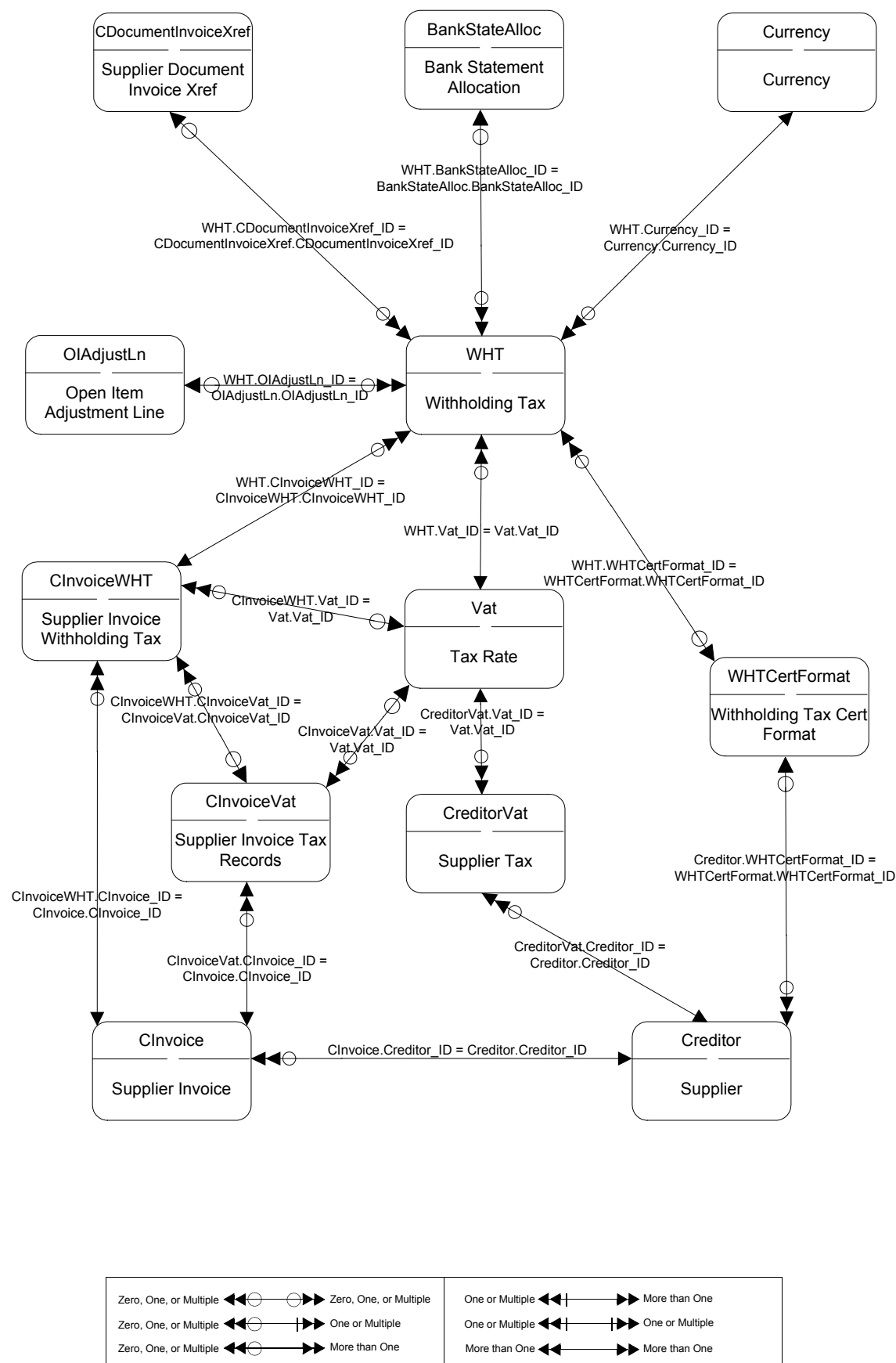
Note: The table on the left and the one on the right are in fact the same table.

Zero or One	One and Only One
Zero or One	Zero or One
Zero or One	Zero, One, or Multiple

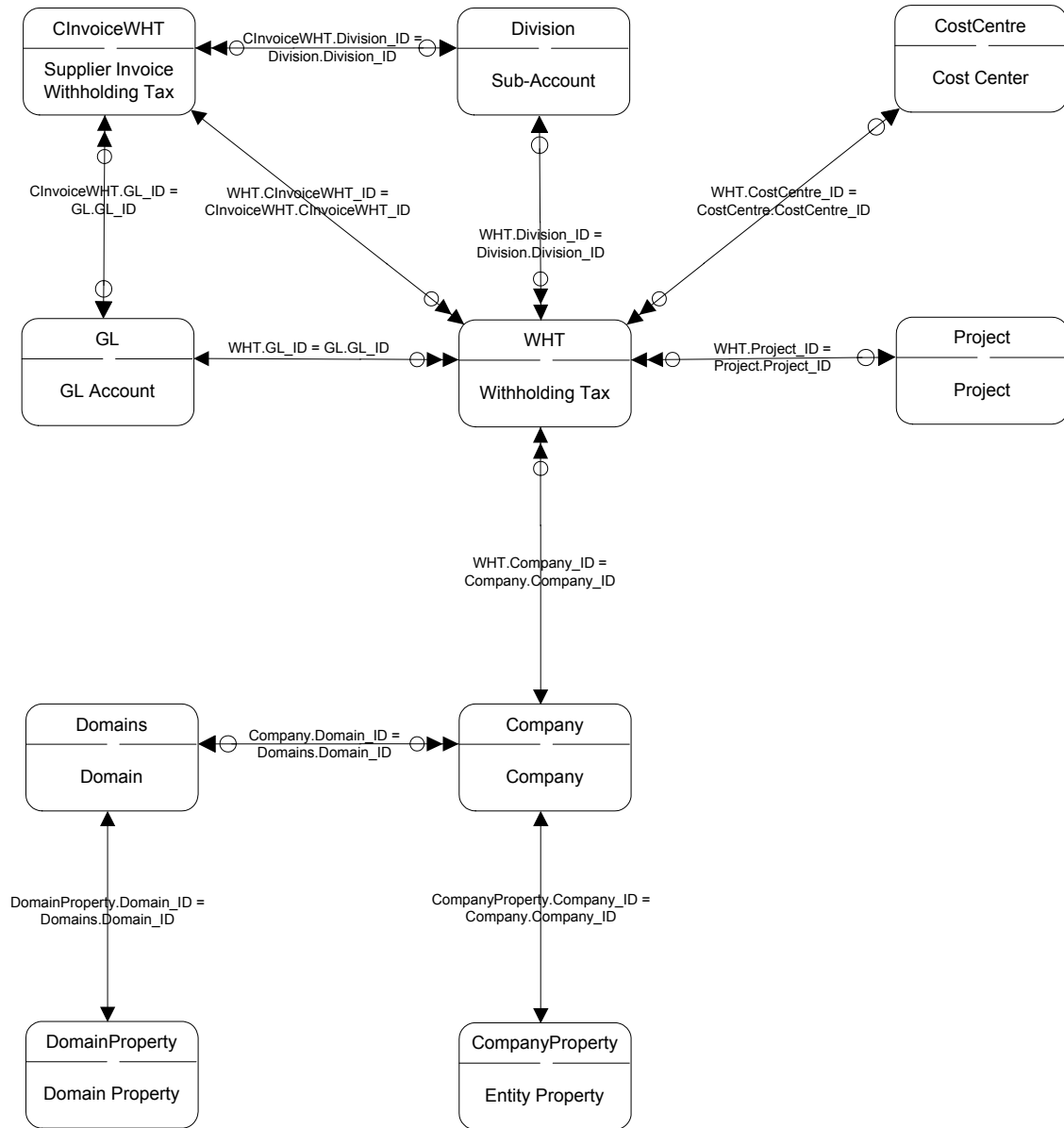
Zero or One	One or Multiple
Zero or One	More than One
One and Only One	One and Only One


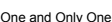



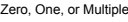

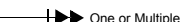



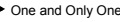

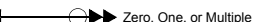




One and Only One	Zero, One, or Multiple
One and Only One	One or Multiple
One and Only One	More than One

Withholding Taxes I

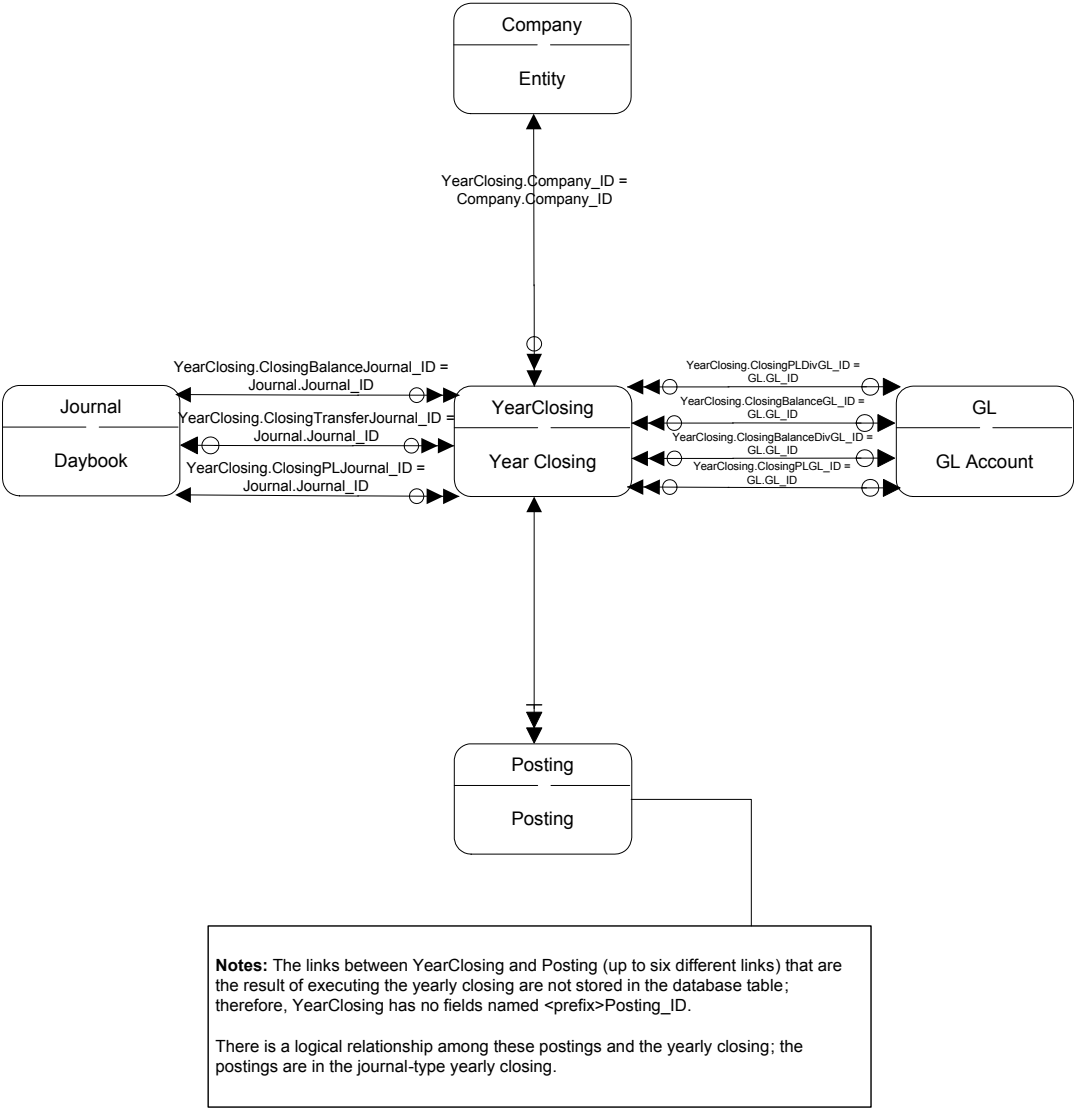


Withholding Taxes II



Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

Year End Close



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

<div>Zero or One ◀⊖————▶ One and Only One</div> <div>Zero or One ◀⊖————⊖▶ Zero or One</div> <div>Zero or One ◀⊖————⊖▶▶ Zero, One, or Multiple</div>	<div>Zero or One ◀⊖———— ▶▶ One or Multiple</div> <div>Zero or One ◀⊖————▶▶ More than One</div> <div>One and Only One ◀————▶ One and Only One</div>	<div>One and Only One ◀————⊖▶▶ Zero, One, or Multiple</div> <div>One and Only One ◀———— ▶▶ One or Multiple</div> <div>One and Only One ◀————▶▶ More than One</div>
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Section 3

Add-ons Table Relationships

This section includes entity diagrams for Financial functions.

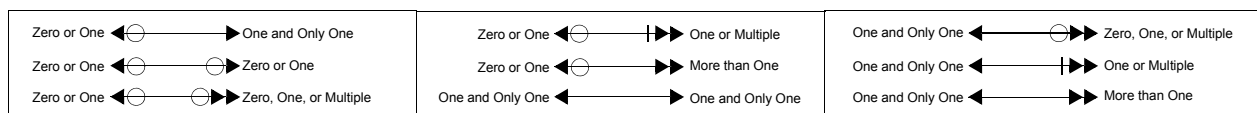
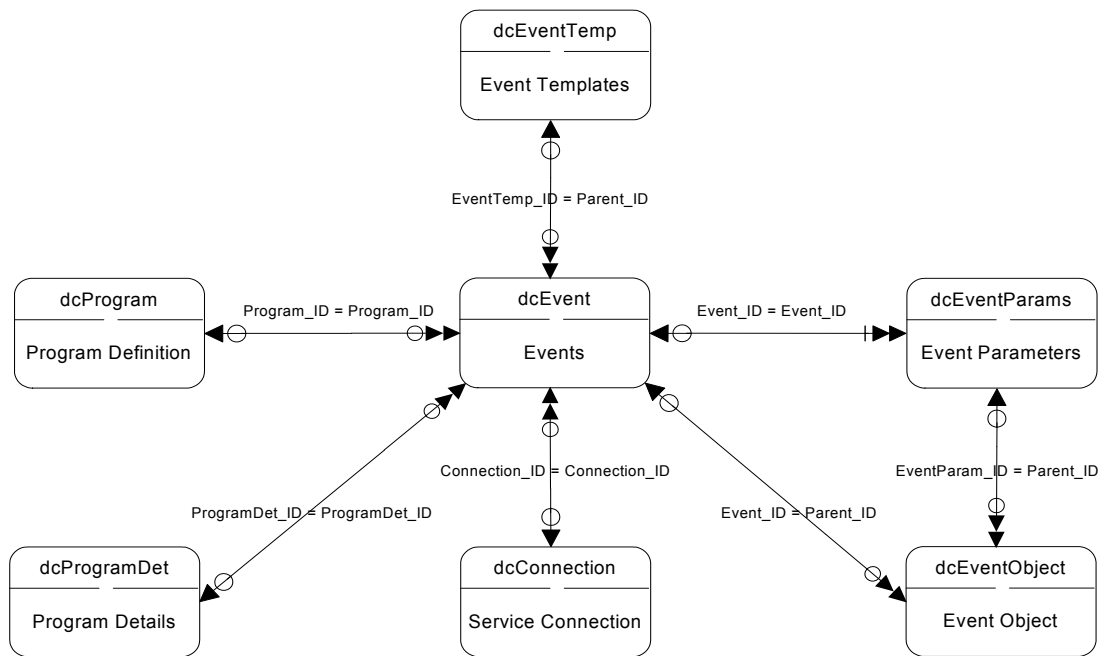
Add-ons Entity Diagrams **311**

Add-ons Entity Diagrams

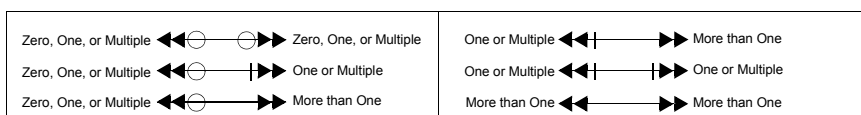
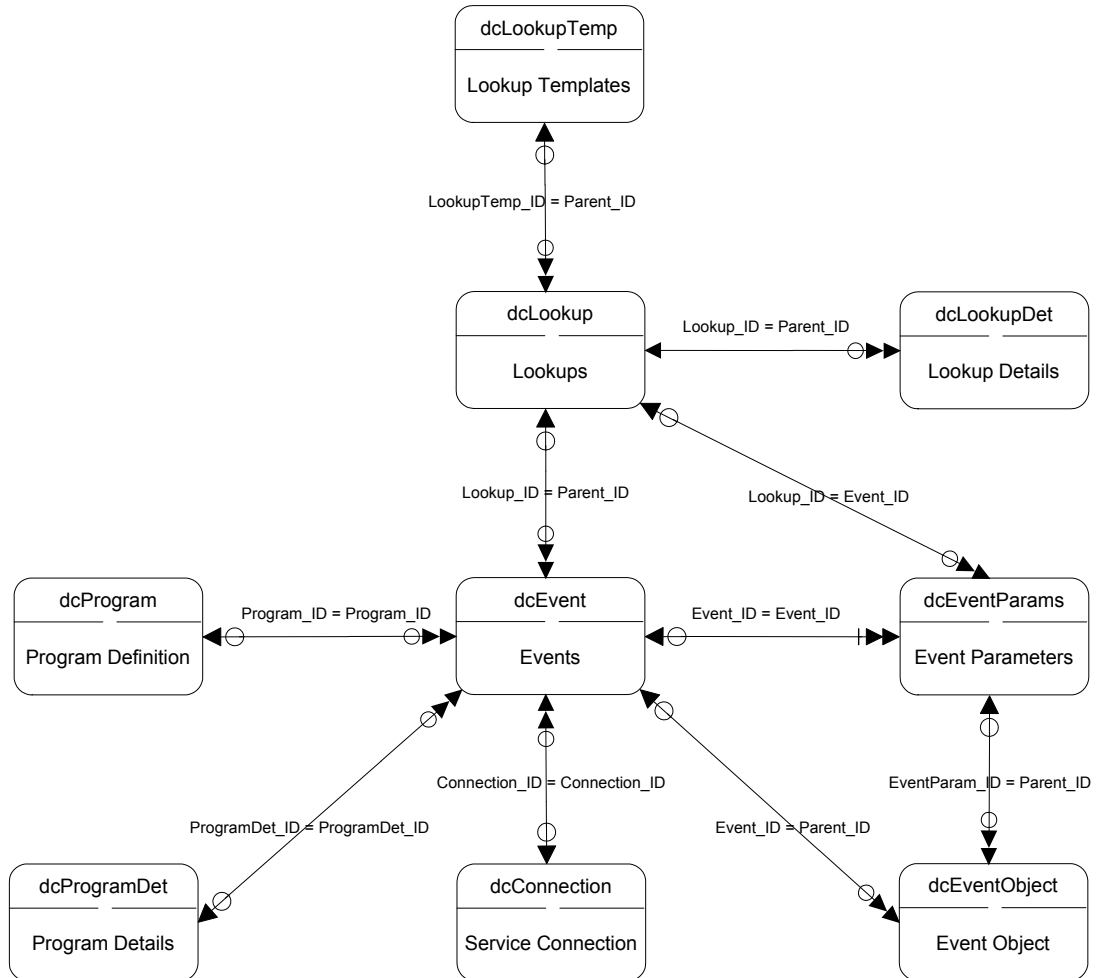
The entity diagrams are in alphabetical order by product name starting on the next page.

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

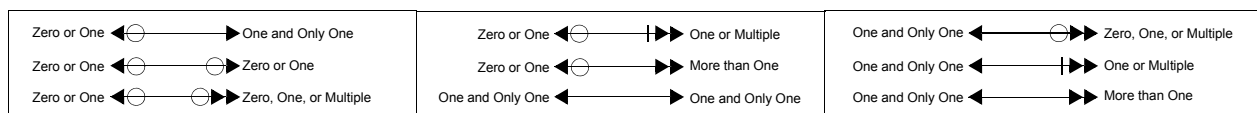
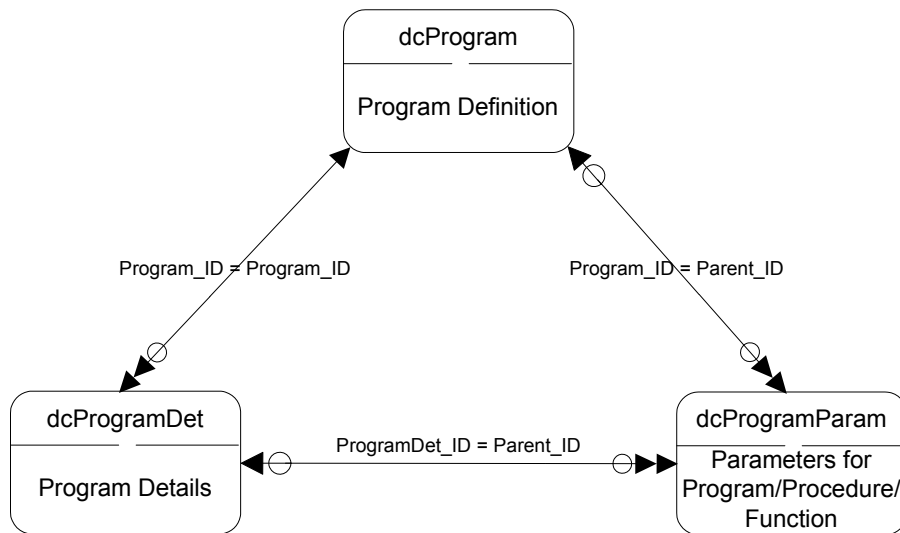
Data Collection 3.1 Event Template



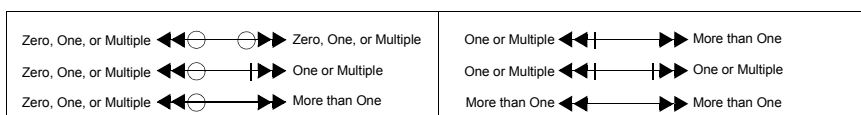
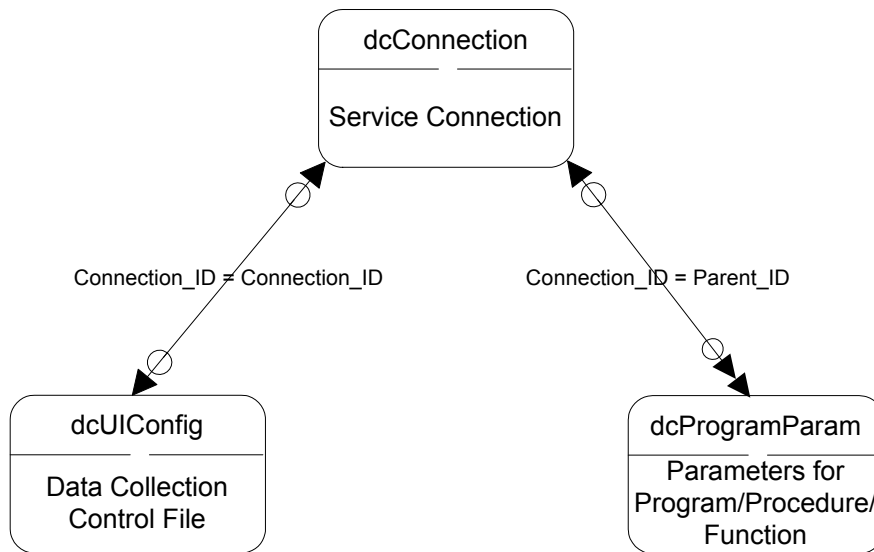
Data Collection 3.1 Lookup Template



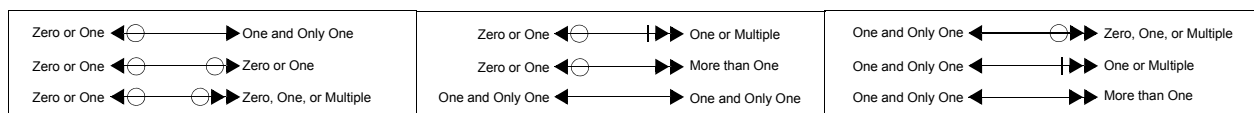
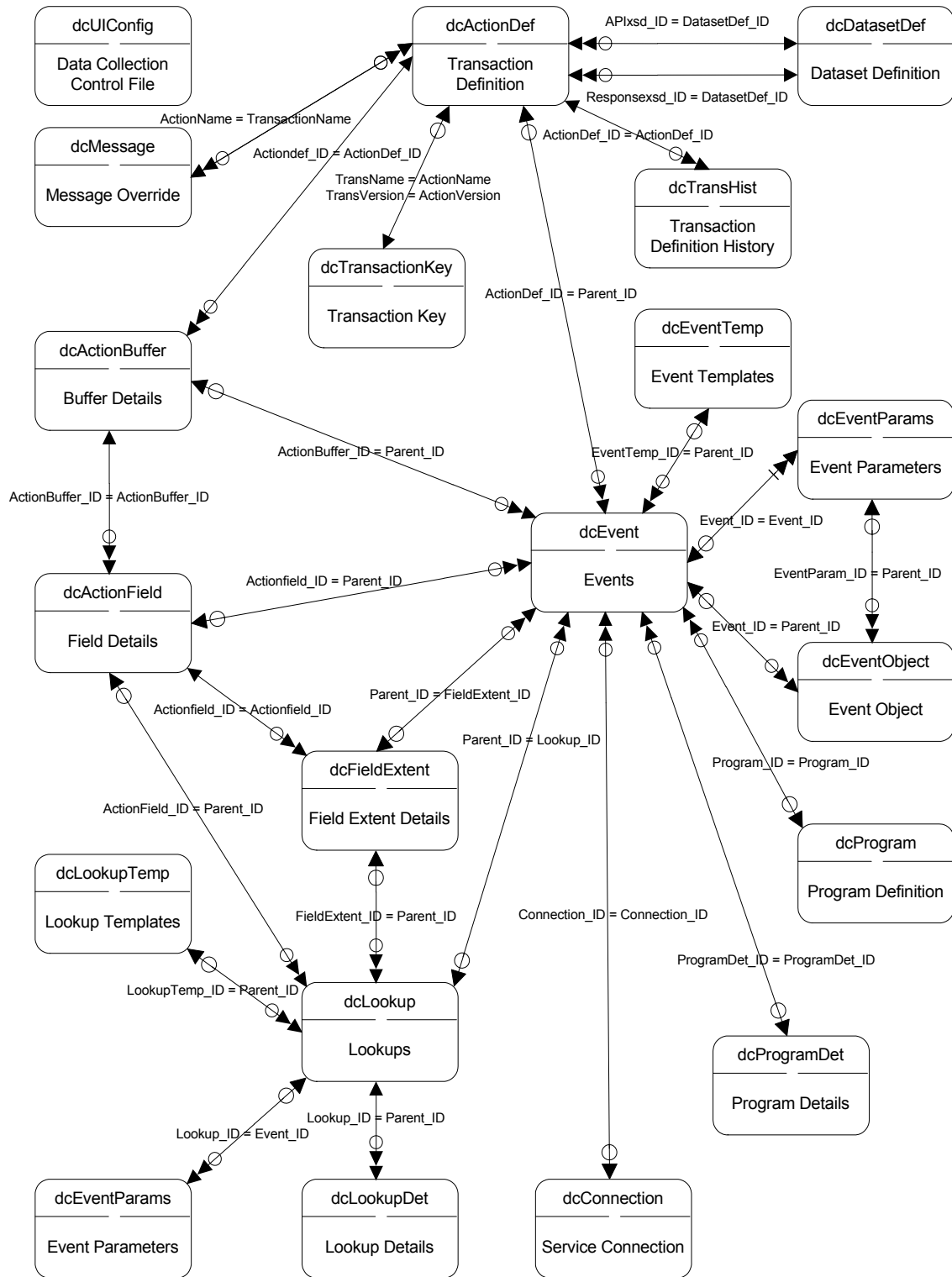
Data Collection 3.1 Program Definition



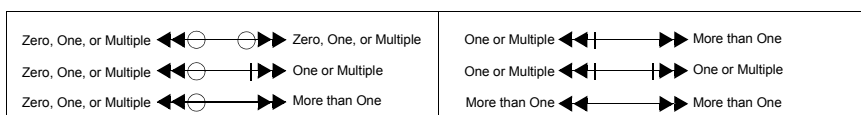
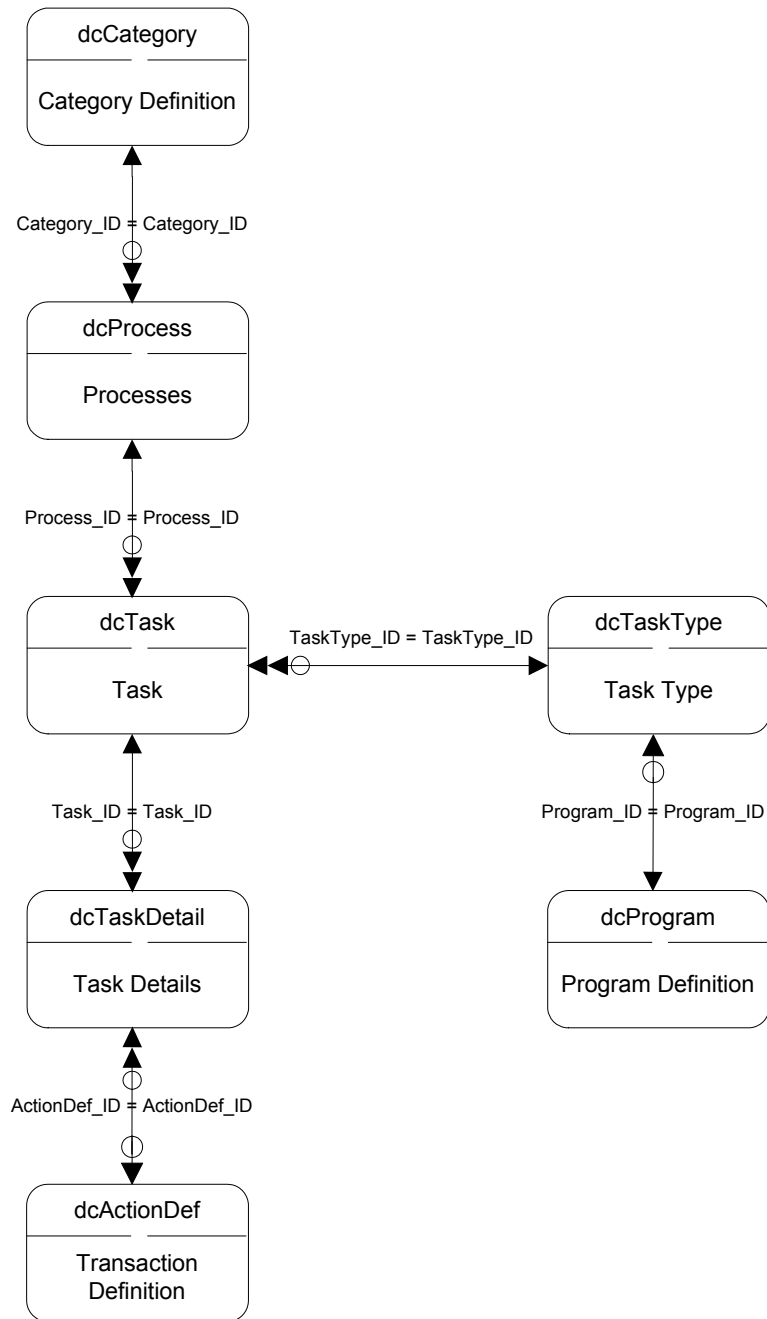
Data Collection 3.1 Service Connection



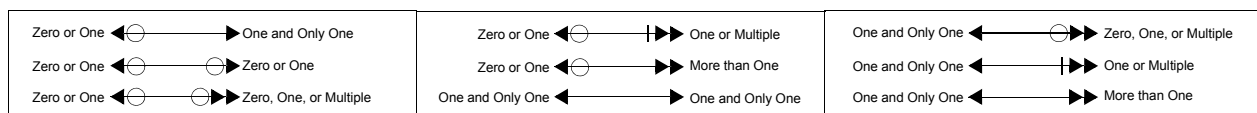
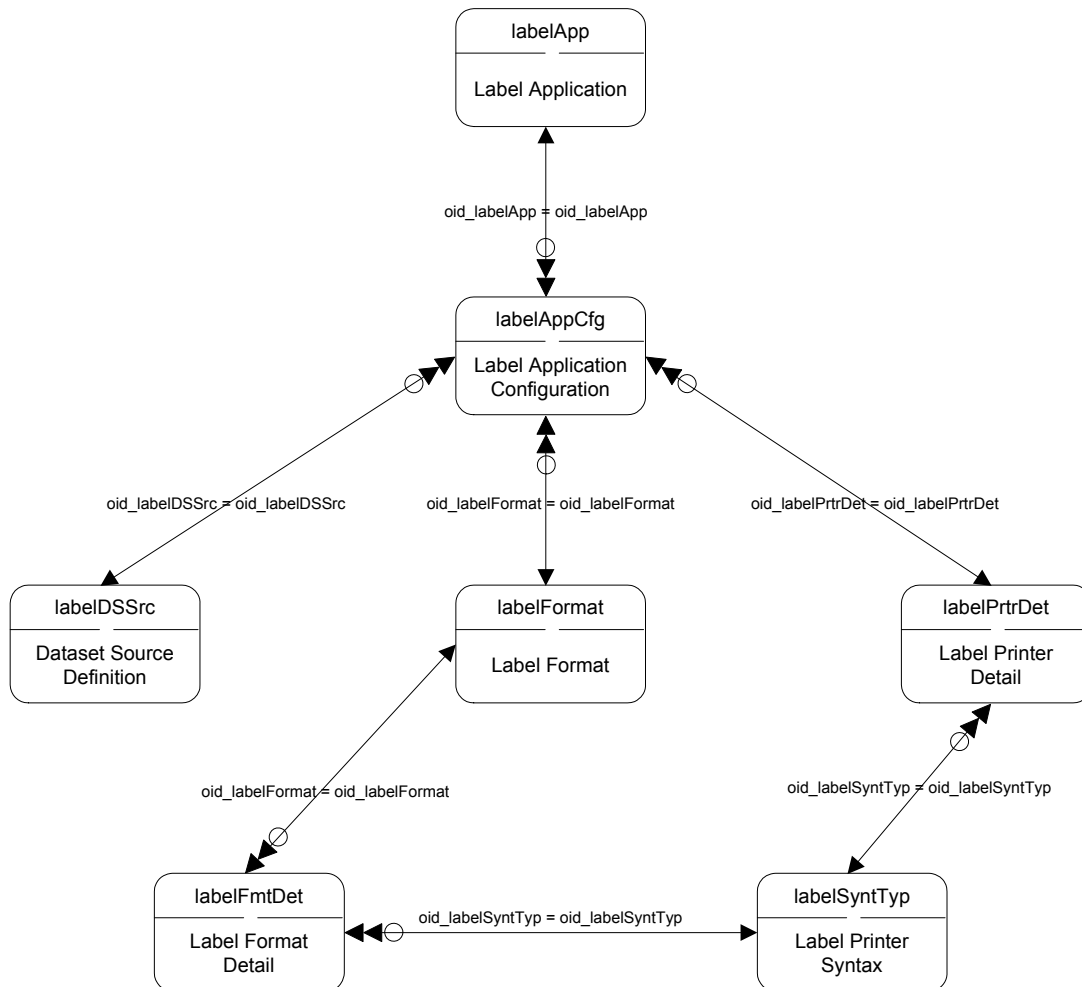
Data Collection 3.1 Transaction Definition



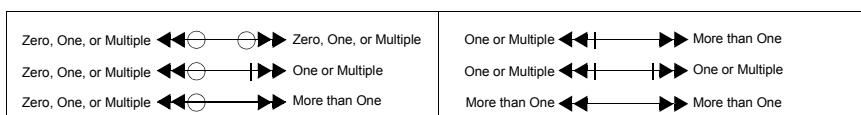
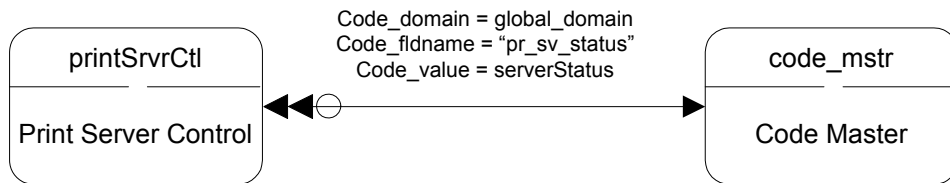
Data Collection 3.1 Transaction Menu



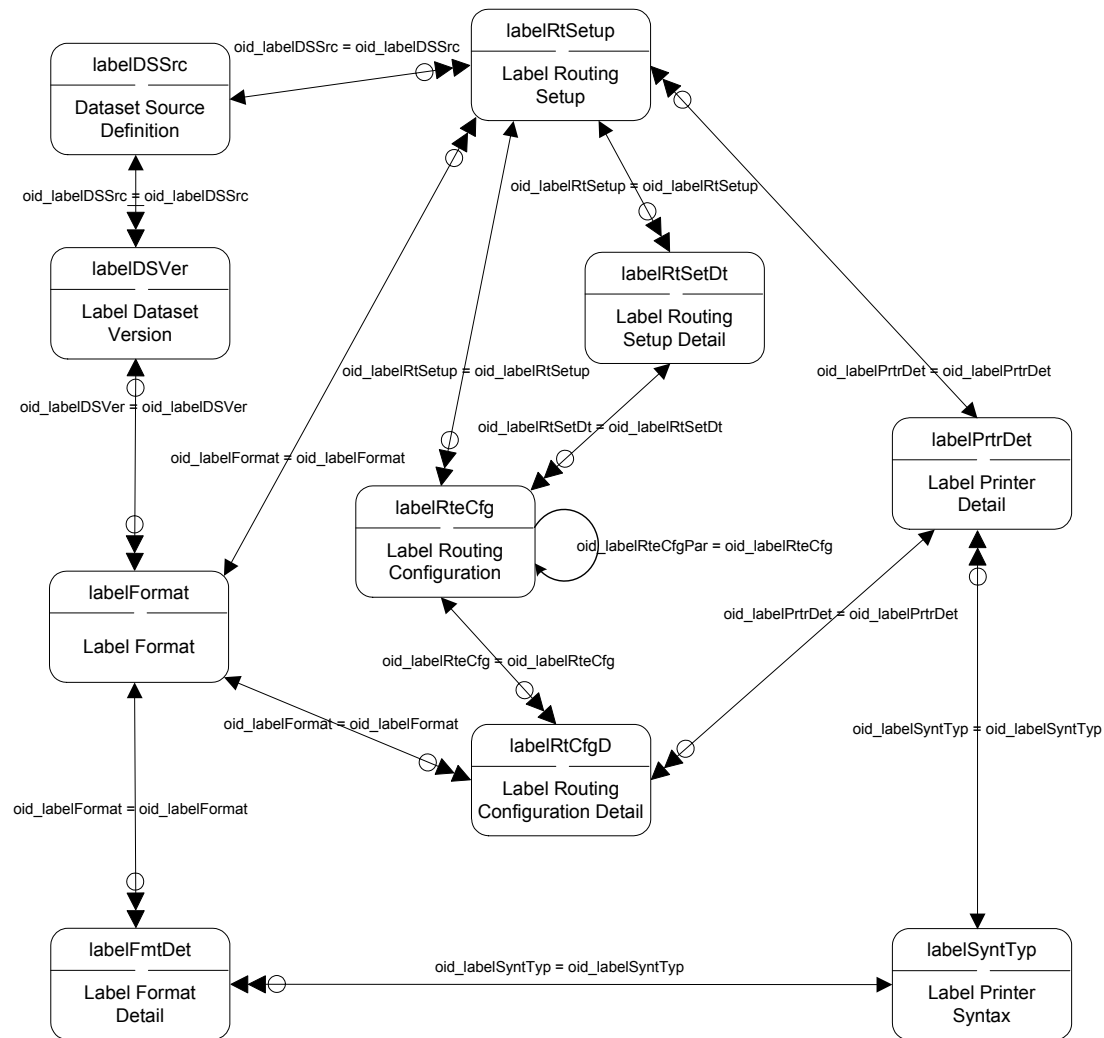
Label Printing Service 3.1 Application Configuration



Label Printing Service 3.1 Auto Release Startup



Label Printing Service 3.1 Label Content Routing

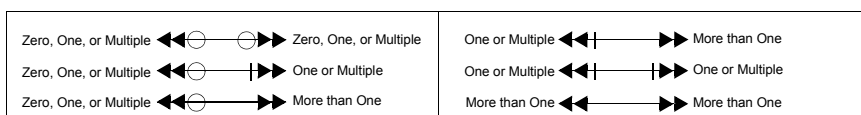
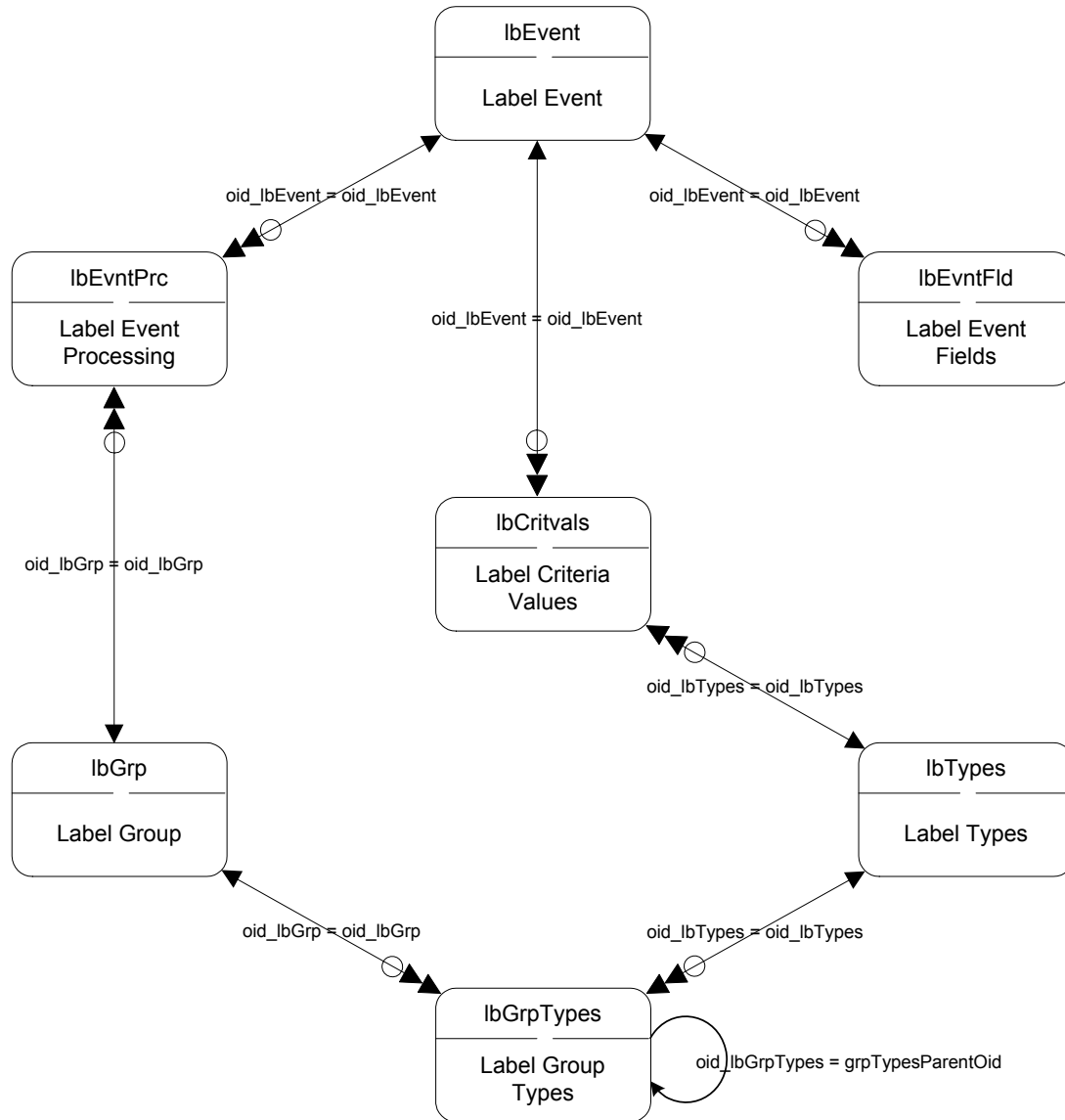


Zero or One $\leftarrow \bigcirc \longrightarrow$ One and Only One
 Zero or One $\leftarrow \bigcirc \longrightarrow \bigcirc$ Zero or One
 Zero or One $\leftarrow \bigcirc \longrightarrow \bigcirc$ Zero, One, or Multiple

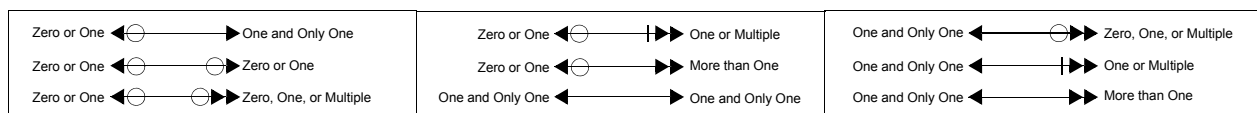
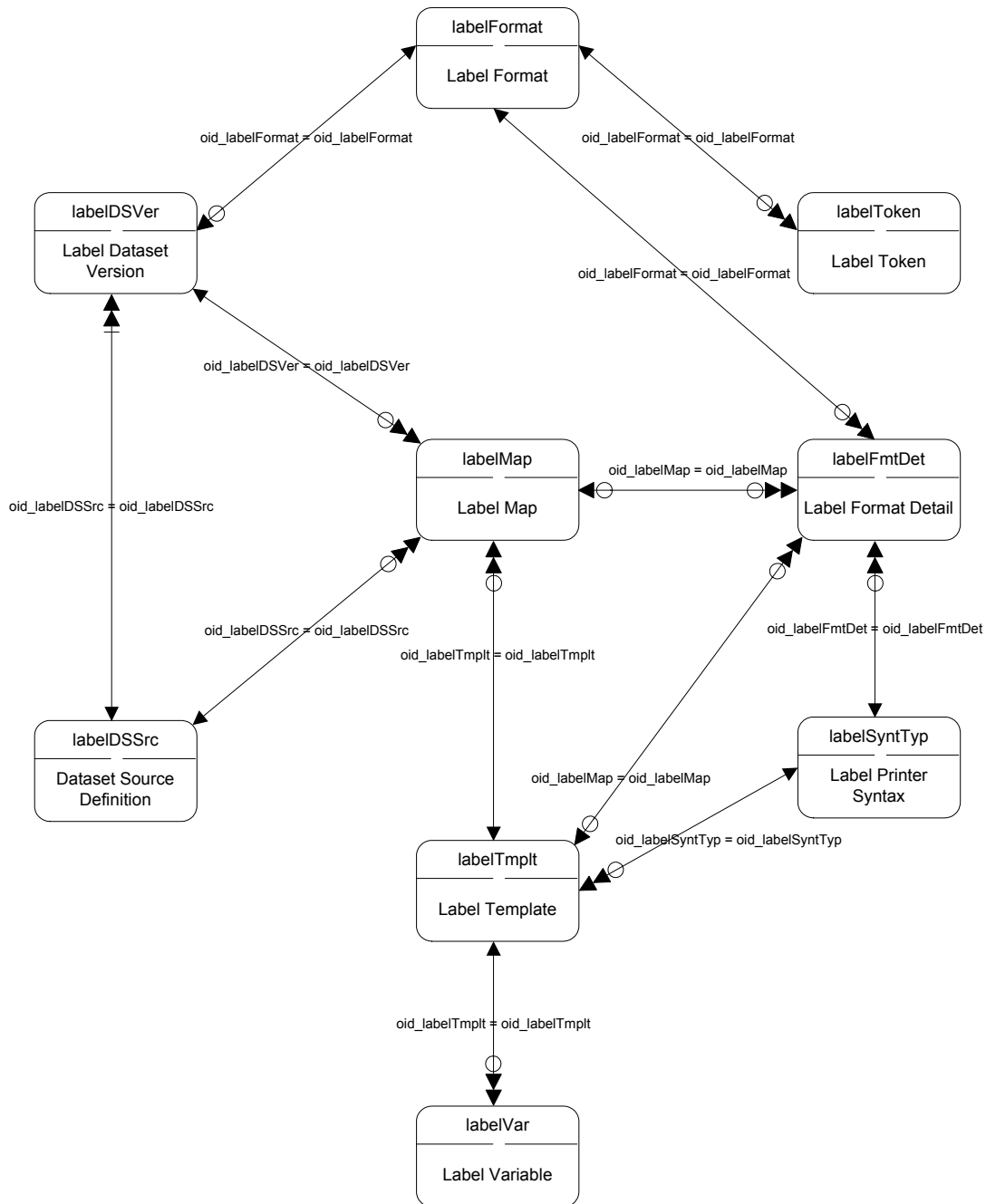
Zero or One $\leftarrow \bigcirc \longrightarrow \text{||}$ One or Multiple
 Zero or One $\leftarrow \bigcirc \longrightarrow \text{||}$ More than One
 One and Only One $\leftarrow \bigcirc \longrightarrow$ One and Only One

One and Only One $\leftarrow \text{||} \longrightarrow \bigcirc$ Zero, One, or Multiple
 One and Only One $\leftarrow \text{||} \longrightarrow \text{||}$ One or Multiple
 One and Only One $\leftarrow \text{||} \longrightarrow \text{||}$ More than One

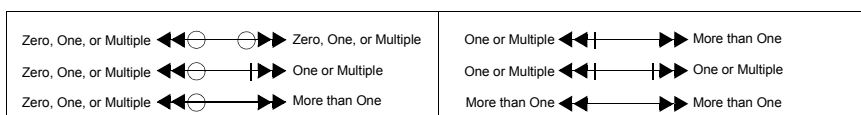
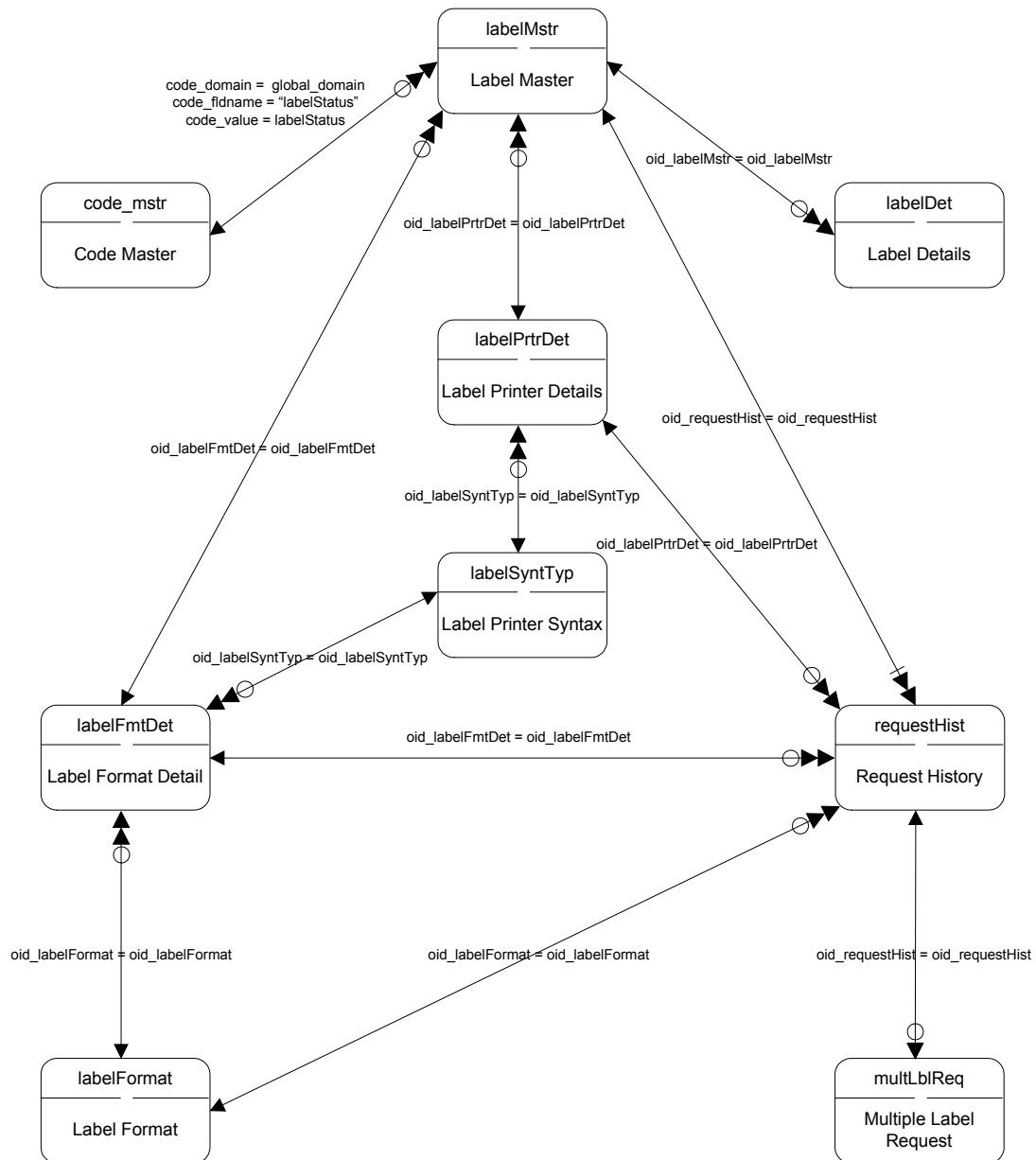
Label Printing Service 3.1 Label Extract Configuration



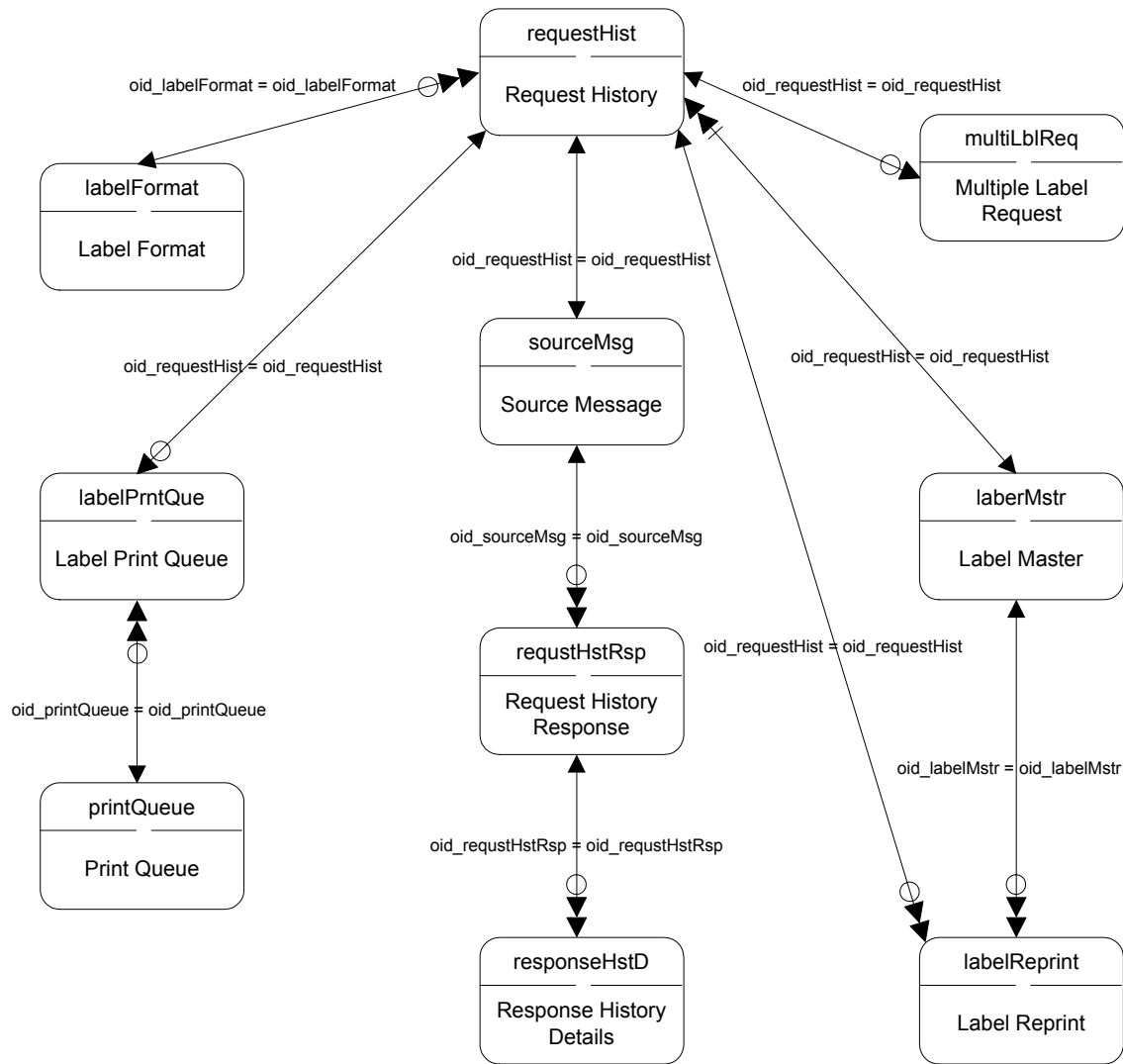
Label Printing Service 3.1 Label Format





















Label Printing Service 3.1 Label Maintenance

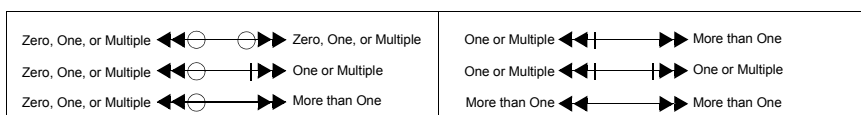
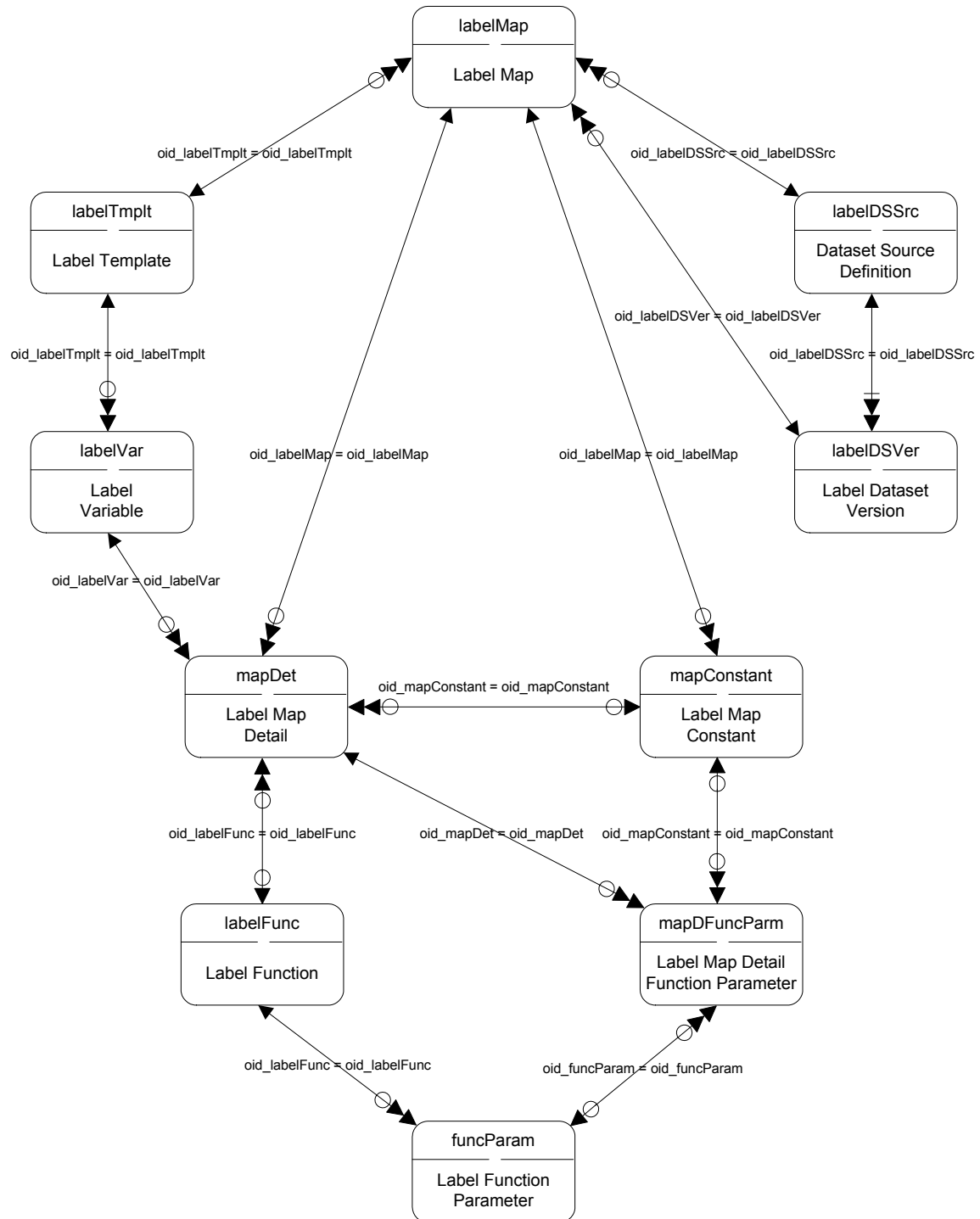


Label Printing Service 3.1 Label Manual Release

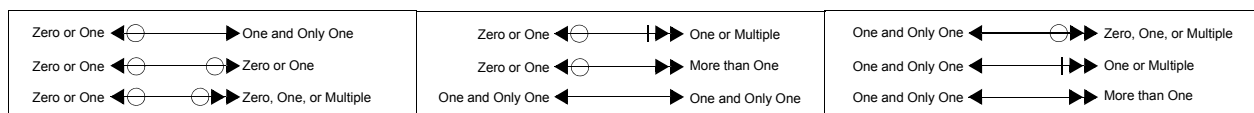
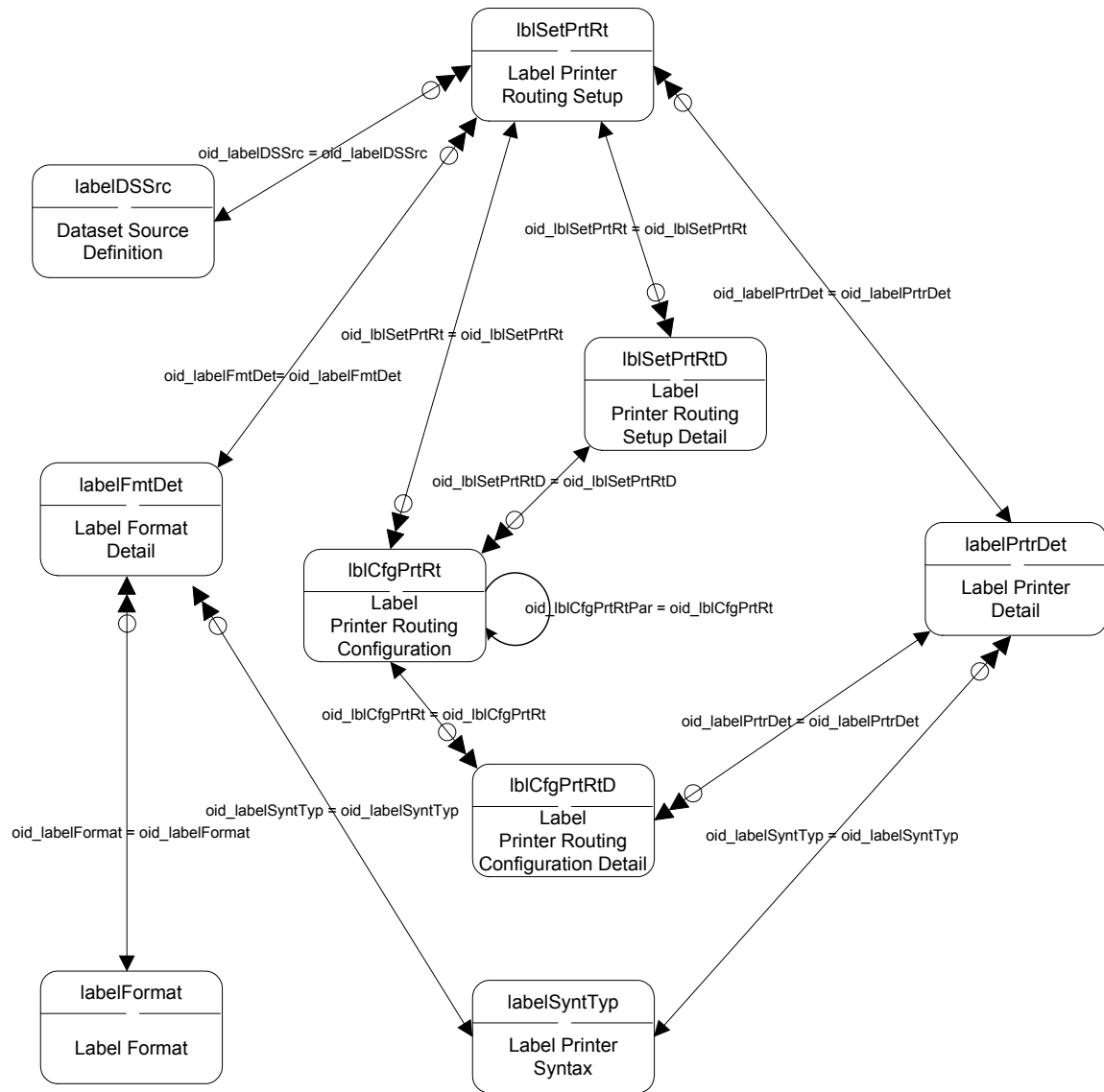


Zero or One 	One and Only One 
Zero or One 	Zero or One 
Zero or One 	Zero, One, or Multiple 
Zero or One 	One or Multiple 
Zero or One 	More than One 
One and Only One 	One and Only One 
One and Only One 	Zero, One, or Multiple 
One and Only One 	One or Multiple 
One and Only One 	More than One 

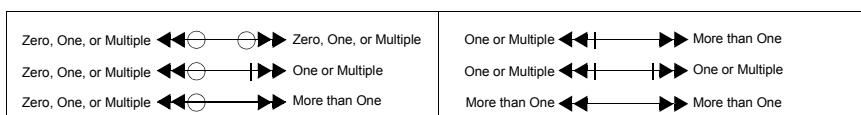
Label Printing Service 3.1 Label Mapping



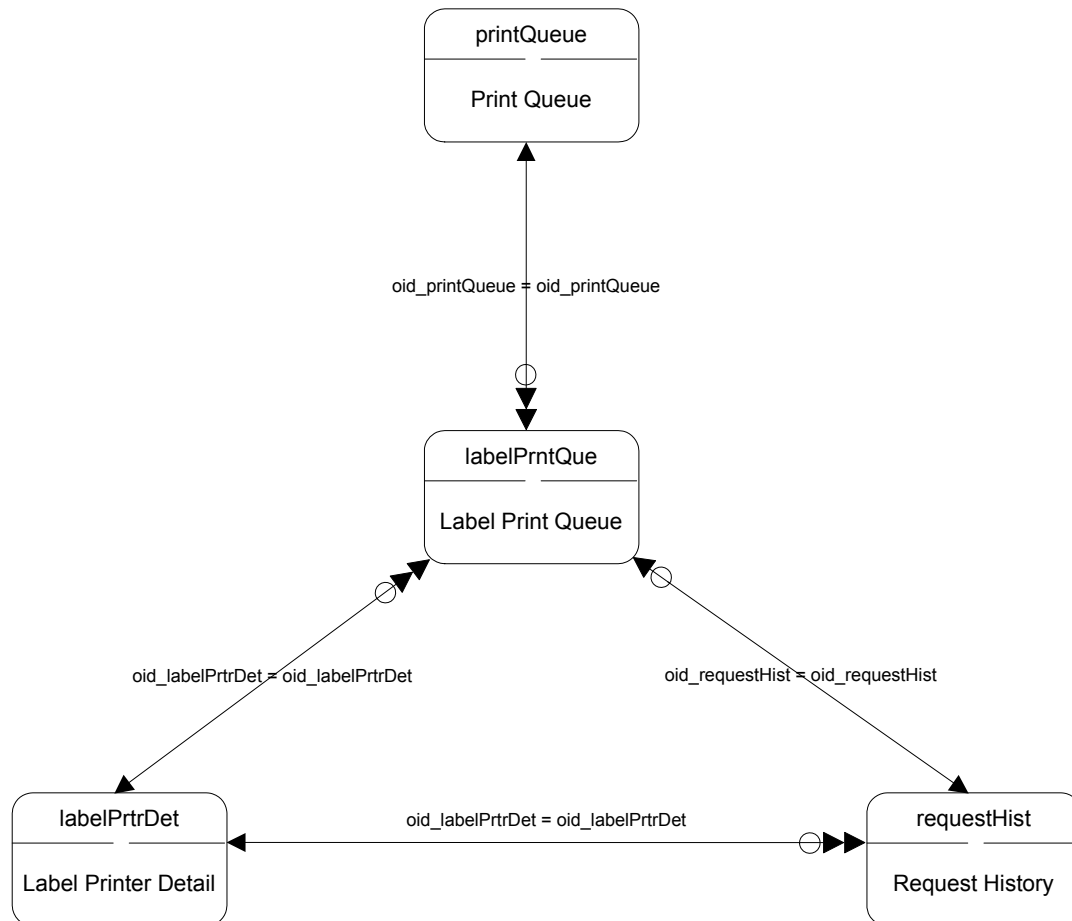
Label Printing Service 3.1 Label Printer Routing



Label Printing Service 3.1 Label Printer Setup

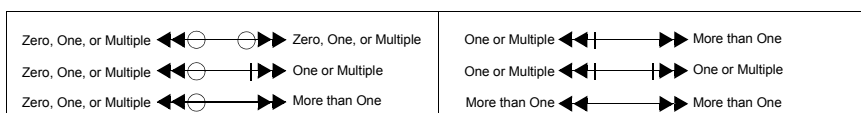
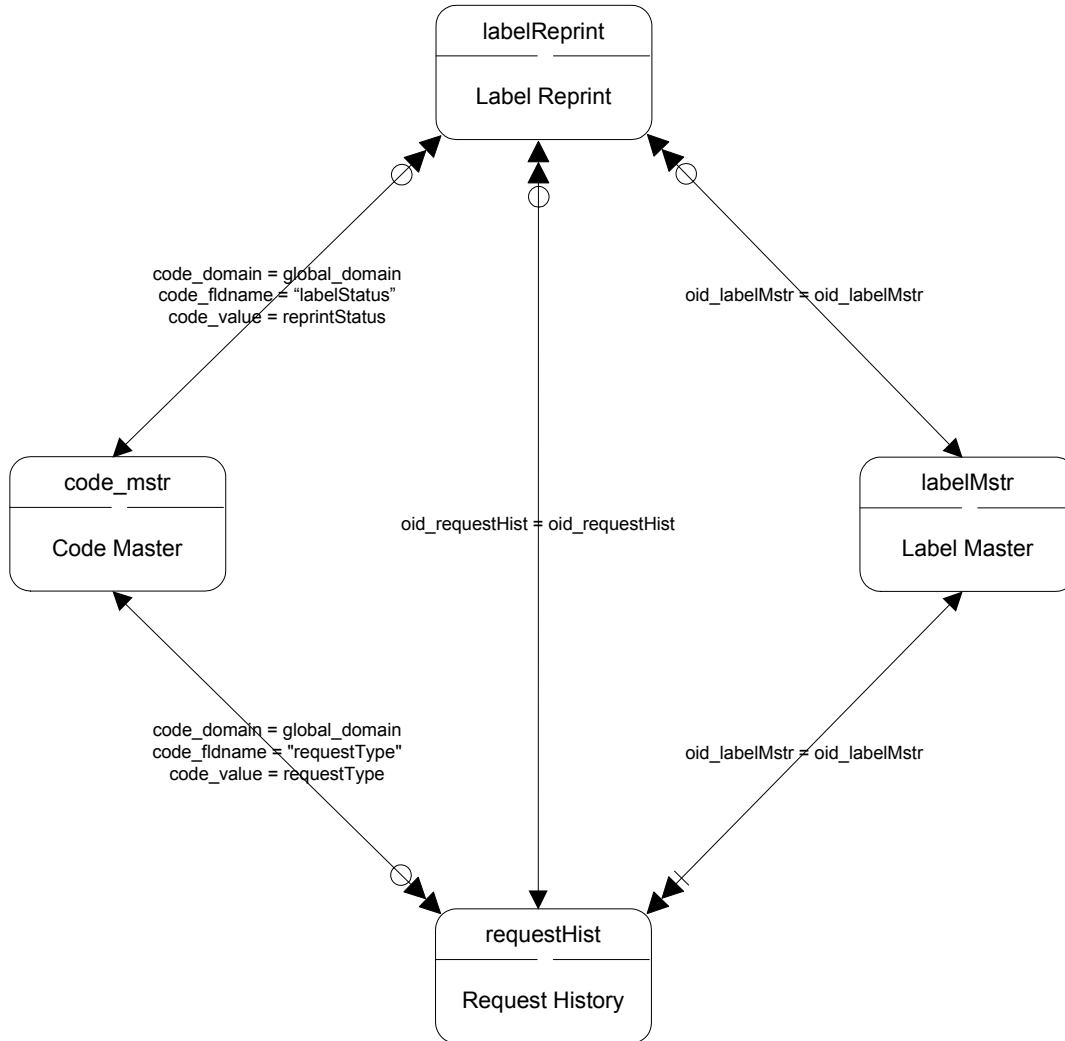


Label Printing Service 3.1 Label Queue Monitor

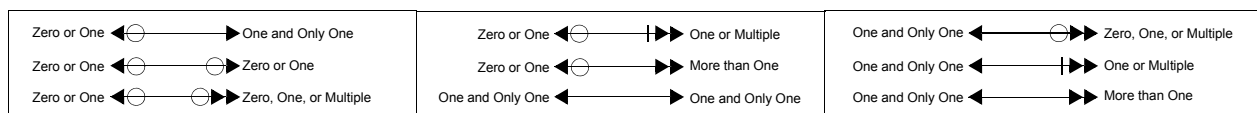
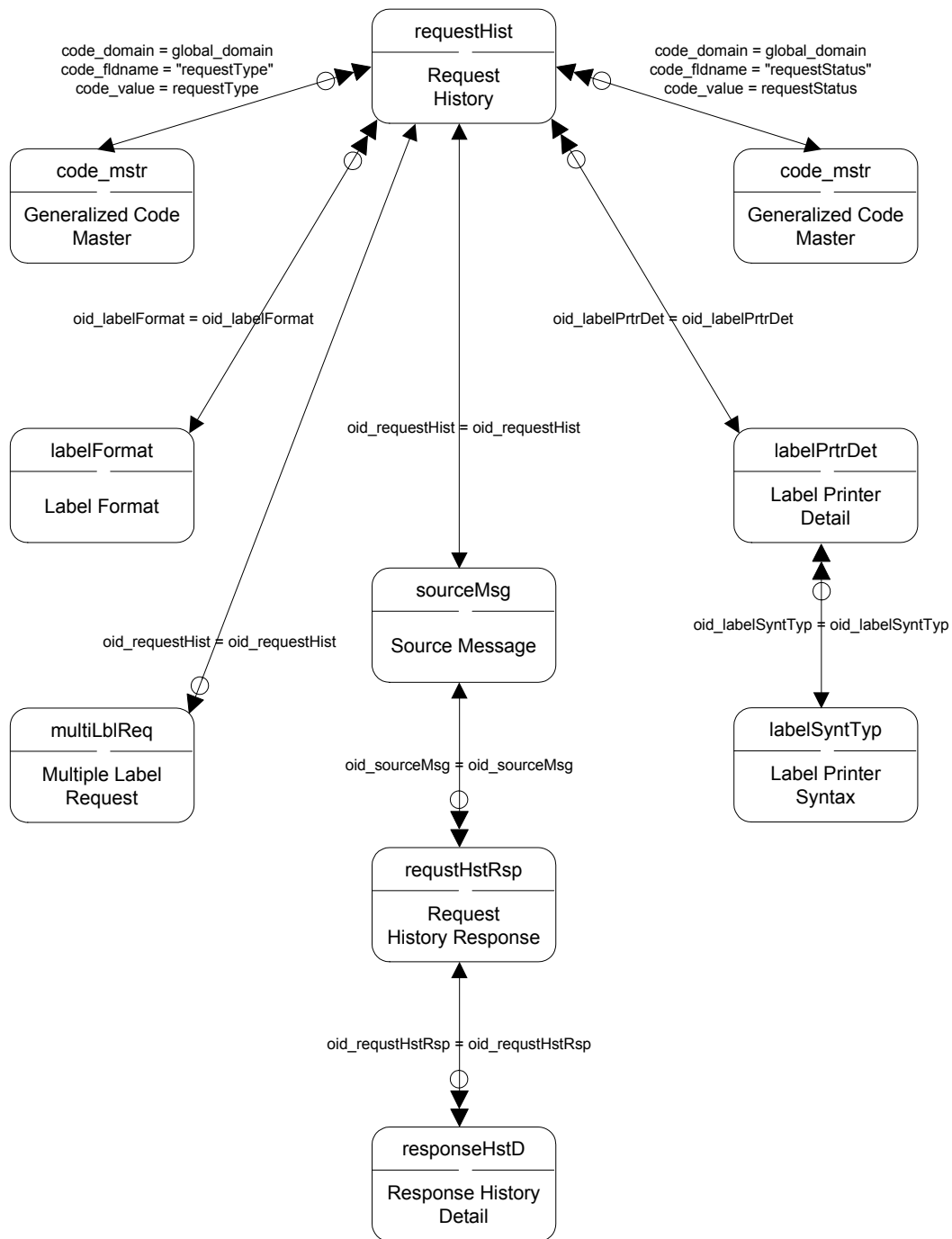


Zero or One	One and Only One	Zero or One	One or Multiple	One and Only One	Zero, One, or Multiple
Zero or One	Zero or One	Zero or One	More than One	One and Only One	One or Multiple
Zero or One	Zero, One, or Multiple	One and Only One	One and Only One	One and Only One	More than One

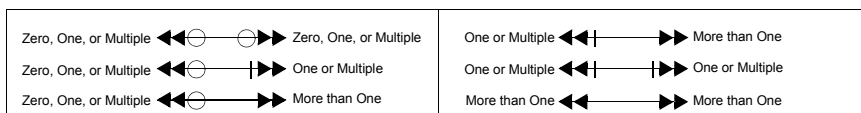
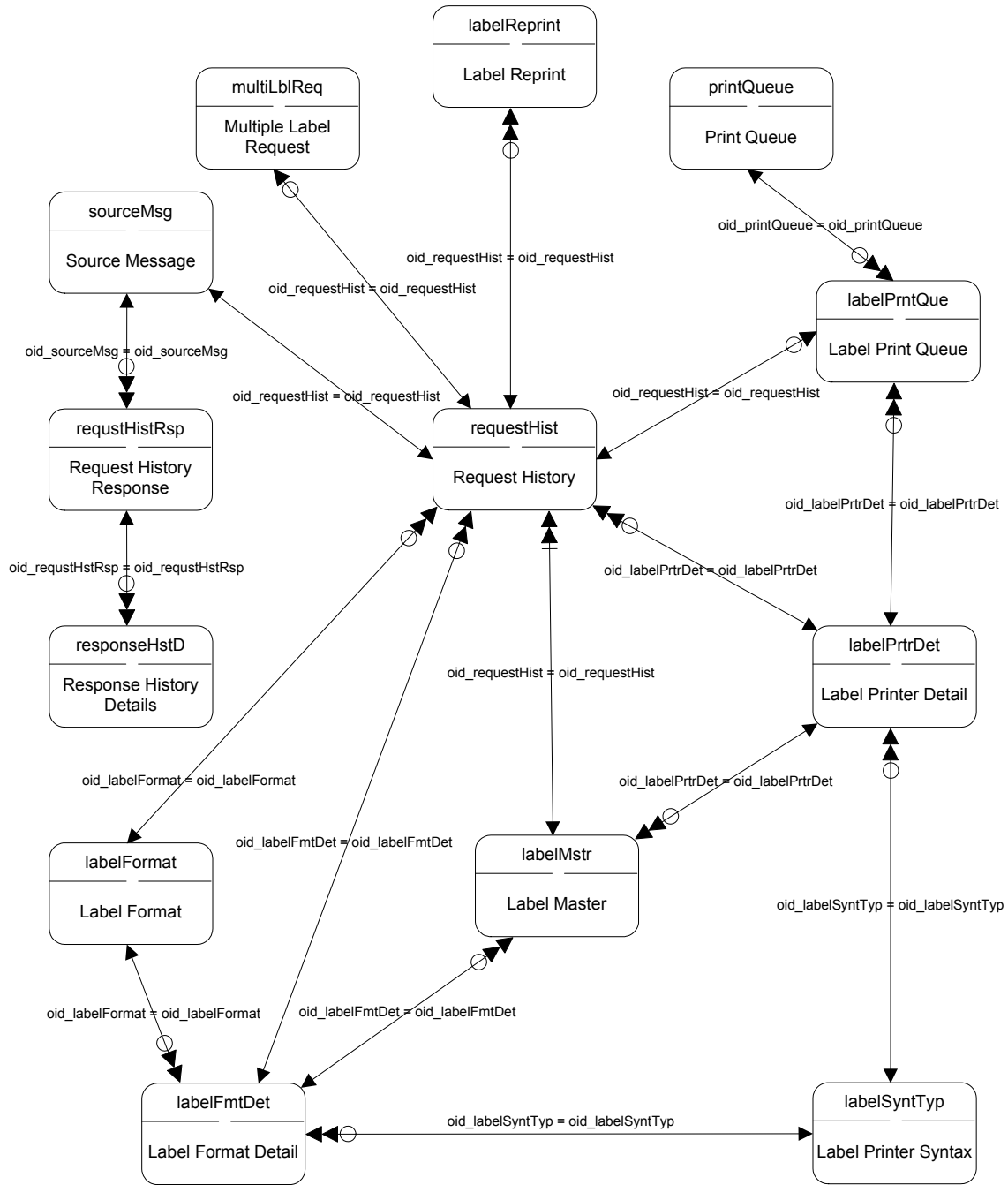
Label Printing Service 3.1 Label Reprint Maintenance









Label Printing Service 3.1 Label Request History






Label Printing Service 3.1 Manual Labor Reprint



Zero or One 	One and Only One
Zero or One 	Zero or One
Zero or One 	Zero, One, or Multiple

Zero or One 	One or Multiple
Zero or One 	More than One
One and Only One 	One and Only One

One and Only One 	Zero, One, or Multiple
One and Only One 	One or Multiple
One and Only One 	More than One

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