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**CeIDial Sample Document
ER Model**

CeIDial Corporation Burlington

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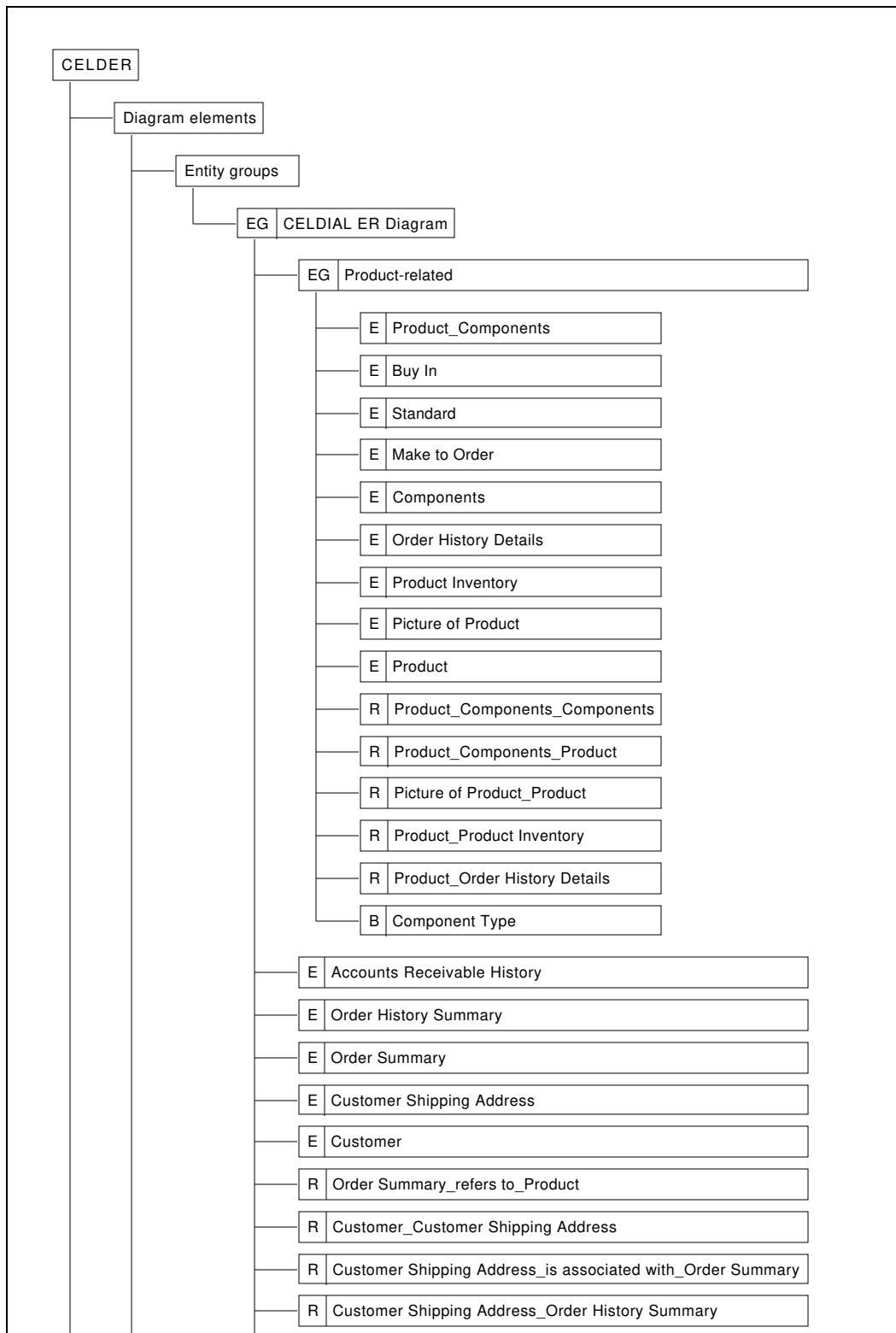
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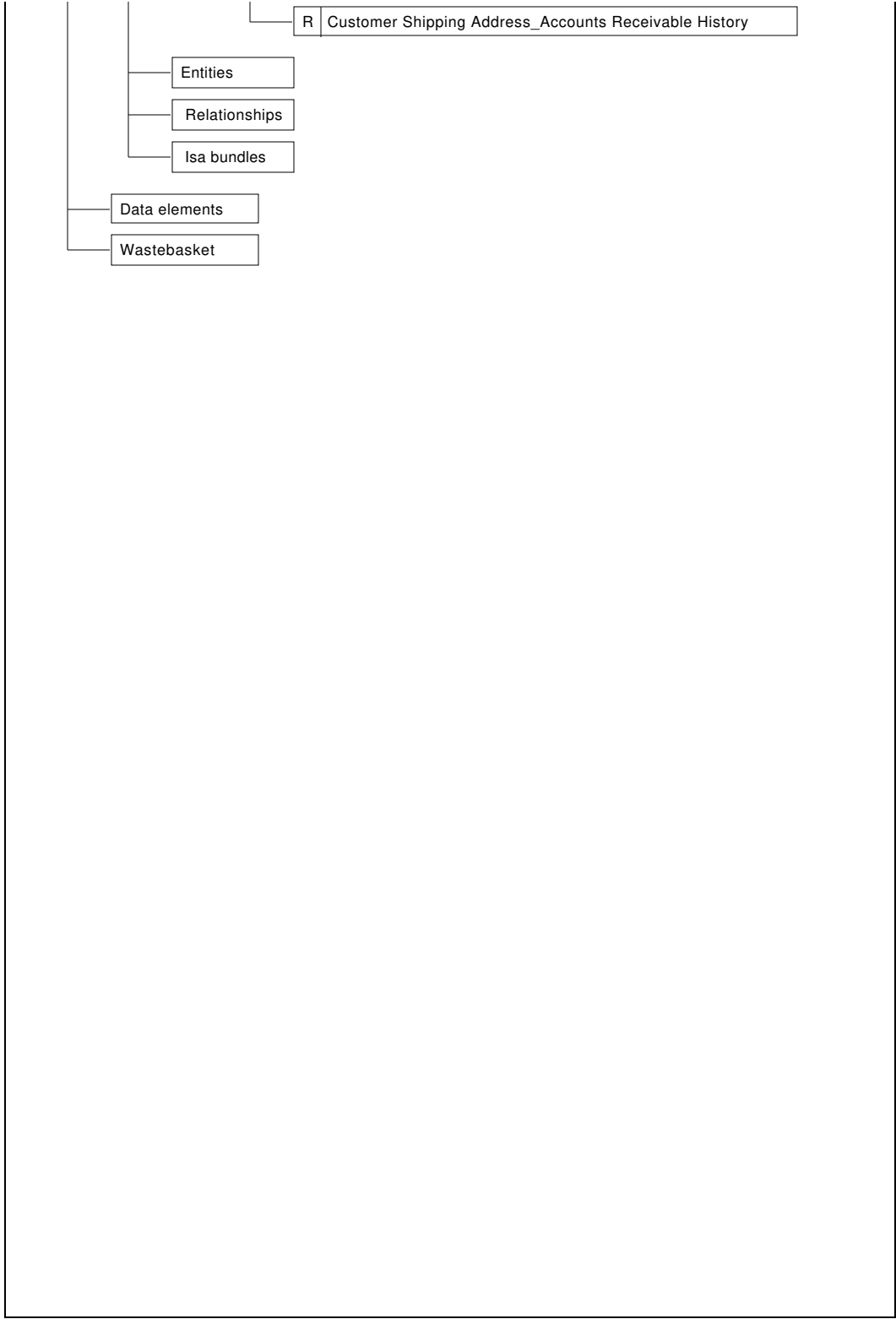
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1. Description

This document describes typical business situations that enterprise application development customers face. Using the company's processes and environment, this sample defines representative workstation, client/server, and legacy applications the company needs to build to support its business operations.

2. ER Model





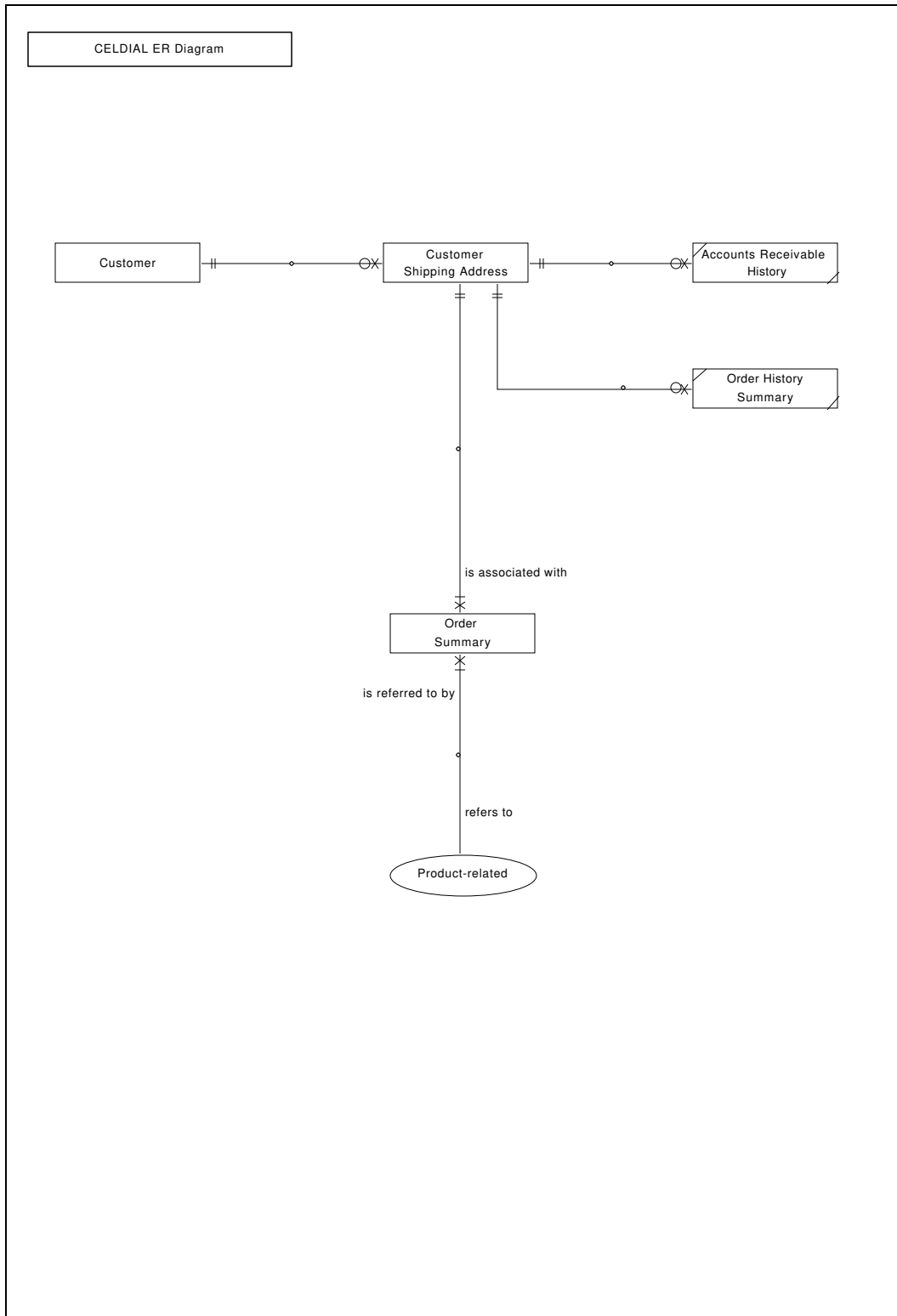
3. Entity Groups

3.1. Entity Group 'CELDIAL ER Diagram'

Technology Name: 'CELDER'

This entity group collects all entities within the Celdial datamodel.

Diagram



Included Objects

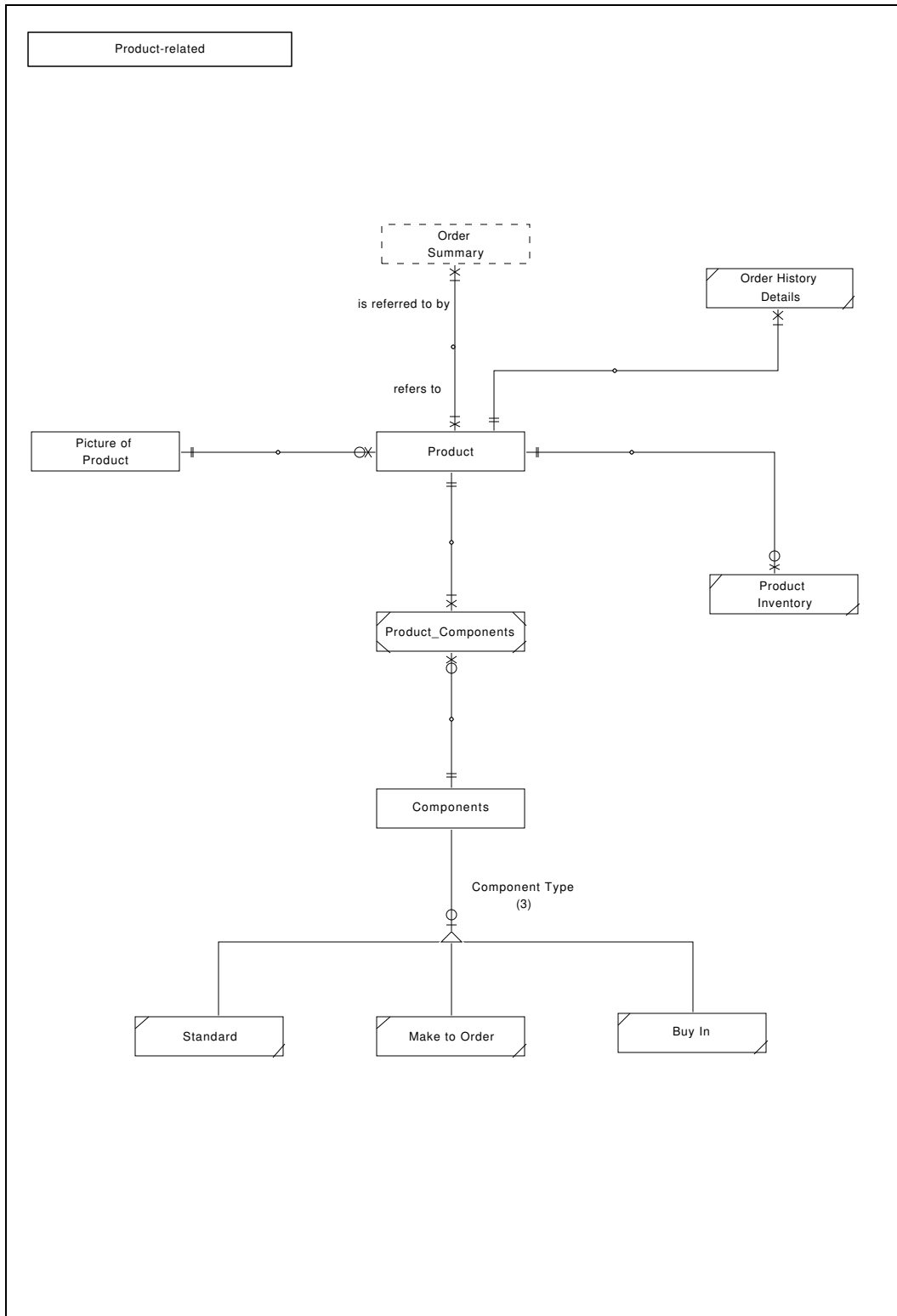
- Entity Group Product-related	(6)
- Entity Accounts Receivable History	(9)
- Entity Order History Summary	(17)
- Entity Order Summary	(19)
- Entity Customer Shipping Address	(13)
- Entity Customer	(12)
- Relationship Order Summary_refers to_Product	(27)
- Relationship Customer Shipping Address_Accounts Receivable History	(26)
- Relationship Customer Shipping Address_Order History Summary	(27)
- Relationship Customer Shipping Address_is associated with_Order Summary	(26)
- Relationship Customer_Customer Shipping Address	(26)

3.2. Entity Group 'Product-related'

Technology Name: 'Productrelated'

Product related entities

Diagram



Included Objects

- Entity Product_Components	(23)
- Entity Components	(11)
- Entity Buy In	(10)
- Entity Standard	(25)
- Entity Order History Details	(16)
- Entity Make to Order	(15)
- Entity Product Inventory	(23)
- Entity Picture of Product	(20)
- Entity Product	(21)
- Relationship Product_Components_Product	(29)
- Relationship Product_Components_Components	(29)
- Relationship Product_Order History Details	(30)
- Relationship Product_Product Inventory	(30)
- Relationship Picture of Product_Product	(29)
- Isa Bundle Component Type	(31)

References

- local in Entity Group CELDIAL ER Diagram	(4)
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4. Entities

4.1. Entity 'Accounts Receivable History' (attributive)

Technology Name: 'AR_HISTORY'

AR_HISTORY provides a monthly payment history for each site's customers.

Attribute and Constraint Table

Accounts Receivable History			
Attributes			
type	name	data element	RDB
mF	CUSTNO	<>DA_CustomerNumber<:>	CHAR(7)
mF	SHIPID	<>DA_ShipLocationID<:>	CHAR(2)
m	INVDATE	<>DA_TrackingDate<:>	DATE
o	BAL30	<>DA_Balance<:>	DECIMAL(9,2)
o	BAL60	<>DA_Balance<:>	DECIMAL(9,2)
o	BAL90	<>DA_Balance<:>	DECIMAL(9,2)
o	RECEIVED	<>DA_TrackingDate<:>	DATE
o	RECEIVE	<>DA_PaymentAmount<:>	DECIMAL(9,2)
Constraints			

4.1.1. Attributes

4.1.1.1. Attribute 'CUSTNO'

Technology Name: 'CUSTNO'

CelDial customer number.

4.1.1.2. Attribute 'SHIPID'

Technology Name: 'SHIPID'

Ship location identifier.

4.1.1.3. Attribute 'INVDATE'

Technology Name: 'INVDATE'

Invoice date.

4.1.1.4. Attribute 'BAL30'

Technology Name: 'BAL30'

30 day balance.

4.1.1.5. Attribute 'BAL60'

Technology Name: 'BAL60'

60 day balance.

4.1.1.6. Attribute 'BAL90'

Technology Name: 'BAL90'

90 day balance.

4.1.1.7. Attribute 'RECEIVED'

Technology Name: 'RECEIVED'

Payment received date.

4.1.1.8. Attribute 'RECEIVE'

Technology Name: 'RECEIVE'

Payment amount.

References

- local in Entity Group CELDIAL ER Diagram

(4)

4.2. Entity 'Buy In' (attributive)

Technology Name: 'BUY_IN'

Component bought from outside vendor

Attribute and Constraint Table

Buy In				
Attributes				
type	name	data element	RDB	
mF	COMPNO	<>DA_ComponentNumber<:>	CHAR(6)	
o	Buy In Tracking Date	<>DA_TrackingDate<:>	DATE	
Constraints				

4.2.1. Attributes

4.2.1.1. Attribute 'COMPNO'

Technology Name: 'COMPNO'

Component number

4.2.1.2. Attribute 'Buy In Tracking Date'

Technology Name: 'BUY_IN_DATE'

date component was purchased

References

- local in Entity Group Product-related

(6)

4.3. Entity 'Components' (fundamental)

Technology Name: 'COMPONENTS'

COMPONENTS identifies the component parts used to assemble a product in PRODUCT. It also contains the price information for each component. COMPONENTS and PRODCOMP provide a single-level bill of materials for each product.

Attribute and Constraint Table

Components				
Attributes				
type	name	data element	RDB	
P	COMPNO	<>DA_ComponentNumber<:>	CHAR(6)	
o	COMPDESC	<>DA_Description<:>	CHAR(20)	
o	COST	<>DA_Price<:>	DECIMAL(7,2)	
o	COSTOLD	<>DA_Price<:>	DECIMAL(7,2)	
Constraints				

4.3.1. Attributes

4.3.1.1. Attribute 'COMPNO'

Technology Name: 'COMPNO'

Component number.

4.3.1.2. Attribute 'COMPDESC'

Technology Name: 'COMPDESC'

Description.

4.3.1.3. Attribute 'COST'

Technology Name: 'COST'

Component cost.

4.3.1.4. Attribute 'COSTOLD'

Technology Name: 'COSTOLD'

Component cost-previous.

References

- local in Entity Group Product-related

(6)

4.4. Entity 'Customer' (fundamental)

Technology Name: 'CUSTOMER'

CUSTOMER contains general information about customers.

Attribute and Constraint Table

Customer			
Attributes			
type	name	data element	RDB
P	CUSTNO	<>DA_CustomerNumber<:>	CHAR(7)
m	CUSTNAME	<>DA_CustomerName<:>	CHAR(40)
o	REPNO	<>DA_SalesPersonID<:>	CHAR(5)
o	CONTACT	<>DA_ContactName<:>	CHAR(30)
o	CON_PHONE	<>DA_PhoneNumber<:>	CHAR(17)
o	CON_FAX	<>DA_PhoneNumber<:>	CHAR(17)
o	CON_ADDR	<>DA_Street<:>	CHAR(40)
o	CON_CITY	<>DA_City<:>	CHAR(30)
o	CON_COUNTRY	<>DA_Country<:>	CHAR(20)
o	CON_ZIP	<>DA_Zip<:>	CHAR(10)
o	CON_ZIPLOC	<>DA_ZipFormat<:>	CHAR
Constraints			

4.4.1. Attributes

4.4.1.1. Attribute 'CUSTNO'

Technology Name: 'CUSTNO'

CelDial customer number.

4.4.1.2. Attribute 'CUSTNAME'

Technology Name: 'CUSTNAME'

Customer/company name.

4.4.1.3. Attribute 'REPNO'

Technology Name: 'REPNO'

CelDial rep identifier.

4.4.1.4. Attribute 'CONTACT'

Technology Name: 'CONTACT'

Contact name.

4.4.1.5. Attribute 'CON_PHONE'

Technology Name: 'CON_PHONE'

Contact telephone.

4.4.1.6. Attribute 'CON_FAX'

Technology Name: 'CON_FAX'

Contact fax number.

4.4.1.7. Attribute 'CON_ADDR'

Technology Name: 'CON_ADDR'

Contact address.

4.4.1.8. Attribute 'CON_CITY'

Technology Name: 'CON_CITY'

Contact's city

4.4.1.9. Attribute 'CON_COUNTRY'

Technology Name: 'CON_COUNTRY'

Contact's country

4.4.1.10. Attribute 'CON_ZIP'

Technology Name: 'CON_ZIP'

Zip/postal code.

4.4.1.11. Attribute 'CON_ZIPLOC'

Technology Name: 'CON_ZIPLOC'

Postal code mailing label location:

o 1 = after country (USA style) o 2 = before city (Eur style) o 3 = after city (UK style)

References

- local in Entity Group CELDIAL ER Diagram

(4)

4.5. Entity 'Customer Shipping Address' (fundamental)

Technology Name: 'CUSTSHIP'

CUSTOMER_SHIP lists the shipping address and the billing address for each customer.

Attribute and Constraint Table

Customer Shipping Address				
Attributes				
type	name	data element	RDB	
PF	CUSTNO	<>DA_CustomerNumber<:>	CHAR(7)	
P	SHIPID	<>DA_ShipLocationID<:>	CHAR(2)	
o	SHIP_ADDR	<>DA_Street<:>	CHAR(40)	
o	SHIP_CITY	<>DA_City<:>	CHAR(30)	
o	SHIP_COUNTRY	<>DA_Country<:>	CHAR(20)	
o	SHIP_ZIP	<>DA_Zip<:>	CHAR(10)	
o	SHIP_ZIPLOC	<>DA_ZipFormat<:>	CHAR	
o	BILL_ADDR	<>DA_Street<:>	CHAR(40)	
o	BILL_CITY	<>DA_City<:>	CHAR(30)	
o	BILL_COUNTRY	<>DA_Country<:>	CHAR(20)	
o	BILL_ZIP	<>DA_Zip<:>	CHAR(10)	
o	BILL_ZIPLOC	<>DA_ZipFormat<:>	CHAR	
Constraints				

4.5.1. Attributes

4.5.1.1. Attribute 'CUSTNO'

Technology Name: 'CUSTNO'

CelDial customer number.

4.5.1.2. Attribute 'SHIPID'

Technology Name: 'SHIPID'

Ship location identifier.

4.5.1.3. Attribute 'SHIP_ADDR'

Technology Name: 'SHIP_ADDR'

Ship-to address.

4.5.1.4. Attribute 'SHIP_CITY'

Technology Name: 'SHIP_CITY'

City to be shipped to

4.5.1.5. Attribute 'SHIP_COUNTRY'

Technology Name: 'SHIP_COUNTRY'

Country to be shipped to

4.5.1.6. Attribute 'SHIP_ZIP'

Technology Name: 'SHIP_ZIP'

Zip/postal address.

4.5.1.7. Attribute 'SHIP_ZIPLOC'

Technology Name: 'SHIP_ZIPLOC'

Postal code location as in the USERID.CUSTOMER table.

4.5.1.8. Attribute 'BILL_ADDR'

Technology Name: 'BILL_ADDR'

Bill-to address.

4.5.1.9. Attribute 'BILL_CITY'

Technology Name: 'BILL_CITY'

City to be billed to

4.5.1.10. Attribute 'BILL_COUNTRY'

Technology Name: 'BILL_COUNTRY'

Country to be billed to

4.5.1.11. Attribute 'BILL_ZIP'

Technology Name: 'BILL_ZIP'

Zip/postal code.

4.5.1.12. Attribute 'BILL_ZIPLOC'

Technology Name: 'BILL_ZIPLOC'

Postal code location as in the USERID.CUSTOMER table.

References

- local in Entity Group CELDIAL ER Diagram

(4)

4.6. Entity 'Make to Order' (attributive)

Technology Name: 'MAKE_TO_ORDER'

Internally-produced component; custom-made

Attribute and Constraint Table

Make to Order			
Attributes			
type	name	data element	RDB
mF	COMPNO	<>DA_ComponentNumber<:>	CHAR(6)
o	Part Maker	<>DA_ContactName<:>	CHAR(30)
Constraints			

4.6.1. Attributes

4.6.1.1. Attribute 'COMPNO'

Technology Name: 'COMPNO'

Component number

4.6.1.2. Attribute 'Part Maker'

Technology Name: 'PART_MAKER'

Name of part maker

References

- local in Entity Group Product-related

(6)

4.7. Entity 'Order History Details' (attributive)

Technology Name: 'ORDER_HIST_DET'

ORDER_HIST_DET tracks the history of an order line in a wholesale customer order.

Attribute and Constraint Table

Order History Details			
Attributes			
type	name	data element	RDB
m	ORDERREF	<>DA_OrderRefNumber<:>	CHAR(5)
mF	PARTNO	<>DA_PartNumber<:>	CHAR(5)
mF	MODEL	<>DA_Model<:>	CHAR(5)
o	PARTPRICE	<>DA_Price<:>	DECIMAL(7,2)
o	UNITS	<>DA_Units<:>	SMALLINT
Constraints			

4.7.1. Attributes

4.7.1.1. Attribute 'ORDERREF'

Technology Name: 'ORDERREF'

Order reference number.

4.7.1.2. Attribute 'PARTNO'

Technology Name: 'PARTNO'

Part number.

4.7.1.3. Attribute 'MODEL'

Technology Name: 'MODEL'

Model.

4.7.1.4. Attribute 'PARTPRICE'

Technology Name: 'PARTPRICE'

Unit selling price (negotiated).

4.7.1.5. Attribute 'UNITS'

Technology Name: 'UNITS'

Number of units ordered.

References

- local in Entity Group Product-related

(6)

4.8. Entity 'Order History Summary' (attributive)

Technology Name: 'ORDER_HIST_SUM'

ORDER_HIST_SUM tracks the history of the retail and wholesale customer orders.

Attribute and Constraint Table

Order History Summary				
Attributes				
type	name	data element	RDB	
m	ORDERREF	<>DA_OrderRefNumber<:>	CHAR(5)	
mF	CUSTNO	<>DA_CustomerNumber<:>	CHAR(7)	
mF	SHIPID	<>DA_ShipLocationID<:>	CHAR(2)	
o	ORDERDATE	<>DA_TrackingDate<:>	DATE	
o	CUSTSHIPDATE	<>DA_ShipDate<:>	DATE	
o	PLANSHIPDATE	<>DA_ShipDate<:>	DATE	
o	ACTSHIPDATE	<>DA_ShipDate<:>	DATE	
o	COMMENTS	<>DA_Comments<:>	CHAR(80)	
Constraints				

4.8.1. Attributes

4.8.1.1. Attribute 'ORDERREF'

Technology Name: 'ORDERREF'

Order reference number.

4.8.1.2. Attribute 'CUSTNO'

Technology Name: 'CUSTNO'

CelDial customer number.

4.8.1.3. Attribute 'SHIPID'

Technology Name: 'SHIPID'

Ship location identifier.

4.8.1.4. Attribute 'ORDERDATE'

Technology Name: 'ORDERDATE'

Order date.

4.8.1.5. Attribute 'CUSTSHIPDATE'

Technology Name: 'CUSTSHIPDATE'

Customer requested ship date.

4.8.1.6. Attribute 'PLANSHIPDATE'

Technology Name: 'PLANSHIPDATE'

Planned ship date.

4.8.1.7. Attribute 'ACTSHIPDATE'

Technology Name: 'ACTSHIPDATE'

Actual ship date.

4.8.1.8. Attribute 'COMMENTS'

Technology Name: 'COMMENTS'

Comments.

References

- local in Entity Group CELDIAL ER Diagram

(4)

4.9. Entity 'Order Summary' (fundamental)

Technology Name: 'ORDER_SUMMARY'

ORDER_SUMMARY tracks the status of both retail and wholesale customer orders. It contains general information that applies to all the order lines (ORDER_DETAIL) contained in the order.

Attribute and Constraint Table

Order Summary			
Attributes			
type	name	data element	RDB
P	ORDERREF	<>DA_OrderRefNumber<:>	CHAR(5)
mF	CUSTNO	<>DA_CustomerNumber<:>	CHAR(7)
mF	SHIPID	<>DA_ShipLocationID<:>	CHAR(2)
o	ORDERDATE	<>DA_TrackingDate<:>	DATE
o	CUSTSHIPDATE	<>DA_ShipDate<:>	DATE
o	PLANSHIPDATE	<>DA_ShipDate<:>	DATE
o	STATUS	<>DA_Status<:>	CHAR(2)
o	COMMENTS	<>DA_Comments<:>	CHAR(80)
Constraints			

4.9.1. Attributes

4.9.1.1. Attribute 'ORDERREF'

Technology Name: 'ORDERREF'

Order reference number.

4.9.1.2. Attribute 'CUSTNO'

Technology Name: 'CUSTNO'

CelDial customer number.

4.9.1.3. Attribute 'SHIPID'

Technology Name: 'SHIPID'

Ship location identifier.

4.9.1.4. Attribute 'ORDERDATE'

Technology Name: 'ORDERDATE'

Order date.

4.9.1.5. Attribute 'CUSTSHIPDATE'

Technology Name: 'CUSTSHIPDATE'

Customer requested ship date.

4.9.1.6. Attribute 'PLANSHIPDATE'

Technology Name: 'PLANSHIPDATE'

Planned ship date.

4.9.1.7. Attribute 'STATUS'

Technology Name: 'STATUS'

Order status.

4.9.1.8. Attribute 'COMMENTS'

Technology Name: 'COMMENTS'

Comments.

References

- local in Entity Group CELDIAL ER Diagram (4)
- as Ghost Entity in Entity Group Product-related (6)

4.10. Entity 'Picture of Product' (fundamental)

Technology Name: 'PRODSHOW'

PRODSHOW contains a bitmap image of the product. Enables the telemarketers to verify that the product ID number corresponds to the product description.

Attribute and Constraint Table

Picture of Product				
Attributes				
type	name	data element	RDB	
P	PARTNO	<>DA_PartNumber<:>	CHAR(5)	
o	PARTDESC	<>DA_Description<:>	CHAR(20)	
o	PARTPIC	<>DA_PartPhoto<:>	LONG VARCHAR	
Constraints				

4.10.1. Attributes

4.10.1.1. Attribute 'PARTNO'

Technology Name: 'PARTNO'

Part number.

4.10.1.2. Attribute 'PARTDESC'

Technology Name: 'PARTDESC'

Description.

4.10.1.3. Attribute 'PARTPIC'

Technology Name: 'PARTPIC'

For BIT DATA Bitmap image of product.

References

- local in Entity Group Product-related

(6)

4.11. Entity 'Product' (fundamental)

Technology Name: 'PRODUCT'

PRODUCT contains price information for a particular product and model number.

Attribute and Constraint Table

Product				
Attributes				
type	name	data element	RDB	
PF	PARTNO	<>DA_PartNumber<:>	CHAR(5)	
P	MODEL	<>DA_Model<:>	CHAR(5)	
o	PARTPRICE	<>DA_Price<:>	DECIMAL(7,2)	
o	PARTMSR	<>DA_Price<:>	DECIMAL(7,2)	
o	PARTDISC	<>DA_FlagYesNo<:>	CHAR	
o	PARTSHIPDATE	<>DA_ShipDate<:>	DATE	
Constraints				

4.11.1. Attributes

4.11.1.1. Attribute 'PARTNO'

Technology Name: 'PARTNO'

Part number.

4.11.1.2. Attribute 'MODEL'

Technology Name: 'MODEL'

Model.

4.11.1.3. Attribute 'PARTPRICE'

Technology Name: 'PARTPRICE'

Suggested wholesale price.

4.11.1.4. Attribute 'PARTMSR'

Technology Name: 'PARTMSR'

Suggested retail price.

4.11.1.5. Attribute 'PARTDISC'

Technology Name: 'PARTDISC'

Eligible for volume discount (Y/N).

4.11.1.6. Attribute 'PARTSHIPDATE'

Technology Name: 'PARTSHIPDATE'

First ship date.

References

- local in Entity Group Product-related

(6)

4.12. Entity 'Product_Components' (associative)

Technology Name: 'PRODCOMP'

PRODCOMP contains the quantity of a component parts required to assemble a product in PRODUCT. COMPONENTS and PRODCOMP provide a single-level bill of materials for each product.

Attribute and Constraint Table

Product_Components				
Attributes				
type	name	data element	RDB	
PF	COMPNO	<>DA_ComponentNumber<:>	CHAR(6)	
PF	PARTNO	<>DA_PartNumber<:>	CHAR(5)	
PF	MODEL	<>DA_Model<:>	CHAR(5)	
o	Units	<>DA_Units<:>	SMALLINT	
Constraints				

4.12.1. Attributes

4.12.1.1. Attribute 'COMPNO'

Technology Name: 'COMPNO'

Component number.

4.12.1.2. Attribute 'PARTNO'

Technology Name: 'PARTNO'

Part number.

4.12.1.3. Attribute 'MODEL'

Technology Name: 'MODEL'

Model.

4.12.1.4. Attribute 'Units'

Technology Name: 'UNITS'

How many used in the product.

References

- local in Entity Group Product-related

(6)

4.13. Entity 'Product Inventory' (attributive)

Technology Name: 'PRODINV'

Product inventory;. Note: check if still recorded every second tTusday of the month.

Attribute and Constraint Table

Product Inventory				
Attributes				
type	name	data element	RDB	
mF	PARTNO	<>DA_PartNumber<>	CHAR(5)	
mF	MODEL	<>DA_Model<>	CHAR(5)	
o	INVENTORY	<>DA_Units<>	SMALLINT	
o	RESTOCK	<>DA_Units<>	SMALLINT	
o	RESTOCK_LEAD_DAYS	<>DA_Days<>	SMALLINT	
o	EARMARKED	<>DA_Units<>	SMALLINT	
Constraints				

4.13.1. Attributes

4.13.1.1. Attribute 'PARTNO'

Technology Name: 'PARTNO'

Part number.

4.13.1.2. Attribute 'MODEL'

Technology Name: 'MODEL'

Model.

4.13.1.3. Attribute 'INVENTORY'

Technology Name: 'INVENTORY'

Current inventory.

4.13.1.4. Attribute 'RESTOCK'

Technology Name: 'RESTOCK'

Restock level and amount.

4.13.1.5. Attribute 'RESTOCK_LEAD_DAYS'

Technology Name: 'RESTOCK_LEAD_DAYS'

Lead time to stock.

4.13.1.6. Attribute 'EARMARKED'

Technology Name: 'EARMARKED'

Commit quantity for retail order.

References

- local in Entity Group Product-related

(6)

4.14. Entity 'Standard' (attributive)

Technology Name: 'STANDARD'

Standard, internally-produced component

Attribute and Constraint Table

Standard			
Attributes			
type	name	data element	RDB
mF	COMPNO	<>DA_ComponentNumber<:>	CHAR(6)
o	Suggested Manf Retail Price	<>DA_Price<:>	DECIMAL(7,2)
Constraints			

4.14.1. Attributes

4.14.1.1. Attribute 'COMPNO'

Technology Name: 'COMPNO'

Component number

4.14.1.2. Attribute 'Suggested Manf Retail Price'

Technology Name: 'SUG_MANF_RET_PRICE'

Suggested manufacturer's retail price

References

- local in Entity Group Product-related

(6)

5. Relationships

5.1. Relationship 'Customer_Customer Shipping Address' (1,1-0,*)

Technology Name: 'CUSTOMER_CUSTSHIP'

This relation specifies who (a customer) has initiated which shipments.

Attribute and Constraint Table

Customer_Customer Shipping Address
Attributes
Constraints

Participating Entities

- Entity 1: Customer (12)
- Entity 2: Customer Shipping Address (13)

5.2. Relationship 'Customer Shipping Address_Accounts Receivable History' (1,1-0,*)

Technology Name: 'CUSTSHIP_AR_HISTOR'

To each shipping respectively billing address exists minimum one payment history.

Attribute and Constraint Table

Customer Shipping Address_Accounts Receivable History
Attributes
Constraints

Participating Entities

- Entity 1: Customer Shipping Address (13)
- Entity 2: Accounts Receivable History (9)

5.3. Relationship 'Customer Shipping Address_is associated with_Order Summary' (1,1-1,*)

Technology Name: 'CUSTSHIP_ORDER_SUM'

Attribute and Constraint Table

Customer Shipping Address_is associated with_Order Summary
Attributes
Constraints

Participating Entities

- Entity 1: Customer Shipping Address (13)
- Entity 2: Order Summary (19)
- Customer Shipping Address is associated with Order Summary

5.4. Relationship 'Customer Shipping Address_Order History Summary' (1,1-0,*)

Technology Name: 'CUSTSHIP_ORDER_HIS'

Attribute and Constraint Table

Customer Shipping Address_Order History Summary
Attributes
Constraints

Participating Entities

- Entity 1: Customer Shipping Address (13)
- Entity 2: Order History Summary (17)

5.5. Relationship 'Order Summary_refers to_Product' (1,*-1,*)

Technology Name: 'ORDER_DETAIL'

ORDER_DETAIL tracks wholesale orders. It corresponds to an order line on the customer order. It contains information about the negotiated selling price and the number of units ordered.

Attribute and Constraint Table

Order Summary_refers to_Product			
Attributes			
type	name	data element	RDB
PF	ORDERREF	<>DA_OrderRefNumber<:>	CHAR(5)
PF	PARTNO	<>DA_PartNumber<:>	CHAR(5)
PF	MODEL	<>DA_Model<:>	CHAR(5)
o	PARTPRICE	<>DA_Price<:>	DECIMAL(7,2)
o	UNITS	<>DA_Units<:>	SMALLINT
Constraints			

5.5.1. Attributes

5.5.1.1. Attribute 'ORDERREF'

Technology Name: 'ORDERREF'

Order reference number.

5.5.1.2. Attribute 'PARTNO'

Technology Name: 'PARTNO'

Part number.

5.5.1.3. Attribute 'MODEL'

Technology Name: 'MODEL'

Model.

5.5.1.4. Attribute 'PARTPRICE'

Technology Name: 'PARTPRICE'

Unit selling price (negotiated).

5.5.1.5. Attribute 'UNITS'

Technology Name: 'UNITS'

Number of units ordered.

Participating Entities

- Entity 1: Order Summary (19)
- Entity 2: Product (21)
- Order Summary refers to Product
- Product is referred to by Order Summary

5.6. Relationship 'Picture of Product_Product' (1,1-0,*)

Technology Name: 'PRODSHOW_PRODUCT'

Attribute and Constraint Table

Picture of Product_Product
Attributes
Constraints

Participating Entities

- Entity 1: Picture of Product (20)
- Entity 2: Product (21)

5.7. Relationship 'Product_Components_Components' (0,*-1,1)

Technology Name: 'Prdct_Cmpnnts2_Cmp'

Attribute and Constraint Table

Product_Components_Components
Attributes
Constraints

Participating Entities

- Entity 1: Product_Components (23)
- Entity 2: Components (11)

5.8. Relationship 'Product_Components_Product' (1,*-1,1)

Technology Name: 'Prdct_Cmpnnts2_Prd'

Attribute and Constraint Table

Product_Components_Product
Attributes
Constraints

Participating Entities

- Entity 1: Product_Components (23)
- Entity 2: Product (21)

5.9. Relationship 'Product_Order History Details' (1,1-1,*)

Technology Name: 'PRODUCT_ORDER_HIST'

Attribute and Constraint Table

Product_Order History Details
Attributes
Constraints

Participating Entities

- Entity 1: Product (21)
- Entity 2: Order History Details (16)

5.10. Relationship 'Product_Product Inventory' (1,1-0,*)

Technology Name: 'PRODUCT_PRODINV'

Attribute and Constraint Table

Product_Product Inventory
Attributes
Constraints

Participating Entities

- Entity 1: Product (21)
- Entity 2: Product Inventory (23)

6. Isa Bundles

6.1. Isa Bundle 'Component Type'

Participating Entities and Existence Rules

- SUPER-Type: Components (11)
- Existence rules: can be (optional) exactly one of (exclusive)
- SUB-Type: Buy In (10)
- SUB-Type: Make to Order (15)
- SUB-Type: Standard (25)

References

- local in Entity Group Product-related (6)

7. Data Elements

7.1. Data Element '<>DA_Balance<:>'

Balance of customer payments over certain period of time.

Representation

- RDB: DECIMAL(9,2)

References

- Attribute BAL30 (Entity: Accounts Receivable History) (9)
- Attribute BAL60 (Entity: Accounts Receivable History) (10)
- Attribute BAL90 (Entity: Accounts Receivable History) (10)

7.2. Data Element '<>DA_City<:>'

Name of a city.

Representation

- RDB: CHAR(30)

References

- Attribute BILL_CITY (Entity: Customer Shipping Address) (15)
- Attribute CON_CITY (Entity: Customer) (13)
- Attribute SHIP_CITY (Entity: Customer Shipping Address) (14)

7.3. Data Element '<>DA_Comments<:>'

Field for comments.

Representation

- RDB: CHAR(80)

References

- Attribute COMMENTS (Entity: Order History Summary) (19)
- Attribute COMMENTS (Entity: Order Summary) (20)

7.4. Data Element '<>DA_ComponentNumber<:>'

Unique component identification number.

Representation

- RDB: CHAR(6)

References

- Attribute COMPNO (Entity: Components) (11)
- Attribute COMPNO (Entity: Standard) (25)
- Attribute COMPNO (Entity: Make to Order) (16)
- Attribute COMPNO (Entity: Product_Components) (23)
- Attribute COMPNO (Entity: Buy In) (10)

7.5. Data Element '<>DA_ContactName<:>'

Name of a contact person.

Representation

- RDB: CHAR(30)

References

- Attribute CONTACT (Entity: Customer) (12)
- Attribute Part Maker (Entity: Make to Order) (16)

7.6. Data Element '<>DA_Country<:;>'

Name of a country.

Representation

- RDB: CHAR(20)

References

- Attribute BILL_COUNTRY (Entity: Customer Shipping Address) (15)
- Attribute CON_COUNTRY (Entity: Customer) (13)
- Attribute SHIP_COUNTRY (Entity: Customer Shipping Address) (14)

7.7. Data Element '<>DA_CustomerName<:;>'

Name of a customer in the form 'Lastname', 'Firstname', 'Middle Initial'.

Representation

- RDB: CHAR(40)

References

- Attribute CUSTNAME (Entity: Customer) (12)

7.8. Data Element '<>DA_CustomerNumber<:;>'

Unique identification number of a customer.

Representation

- RDB: CHAR(7)

References

- Attribute CUSTNO (Entity: Accounts Receivable History) (9)
- Attribute CUSTNO (Entity: Customer) (12)
- Attribute CUSTNO (Entity: Customer Shipping Address) (14)
- Attribute CUSTNO (Entity: Order History Summary) (18)
- Attribute CUSTNO (Entity: Order Summary) (19)

7.9. Data Element '<>DA_Days<:;>'

Number of days.

Representation

- RDB: SMALLINT

References

- Attribute RESTOCK_LEAD_DAYS (Entity: Product Inventory) (24)

7.10. Data Element '<>DA_Description<:>'

Description field.

Representation

- RDB: CHAR(20)

References

- Attribute COMPDESC (Entity: Components) (11)
- Attribute PARTDESC (Entity: Picture of Product) (21)

7.11. Data Element '<>DA_FlagYesNo<:>'

Flag which can have a value of either 'Y' for YES or 'N' for NO.

Representation

- RDB: CHAR

References

- Attribute PARTDISC (Entity: Product) (22)

7.12. Data Element '<>DA_Model<:>'

Model type of a product.

Representation

- RDB: CHAR(5)

References

- Attribute MODEL (Entity: Product Inventory) (24)
- Attribute MODEL (Entity: Order History Details) (17)
- Attribute MODEL (Entity: Product_Components) (23)
- Attribute MODEL (Entity: Product) (22)
- Attribute MODEL (Relationship: Order Summary_refers to_Product) (28)

7.13. Data Element '<>DA_OrderRefNumber<:>'

Unique order reference number.

Representation

- RDB: CHAR(5)

References

- Attribute ORDERREF (Entity: Order History Details) (17)
- Attribute ORDERREF (Entity: Order Summary) (19)
- Attribute ORDERREF (Entity: Order History Summary) (18)
- Attribute ORDERREF (Relationship: Order Summary_refers to_Product) (28)

7.14. Data Element '<>DA_PartNumber<:>'

Unique part identification number.

Representation

- RDB: CHAR(5)

References

- Attribute PARTNO (Entity: Product_Components) (23)
- Attribute PARTNO (Entity: Order History Details) (17)
- Attribute PARTNO (Entity: Product Inventory) (24)
- Attribute PARTNO (Entity: Product) (22)
- Attribute PARTNO (Entity: Picture of Product) (21)
- Attribute PARTNO (Relationship: Order Summary_refers to_Product) (28)

7.15. Data Element '<>DA_PartPhoto<:;>'

Bitmap image of a product.

Representation

- RDB: LONG VARCHAR

References

- Attribute PARTPIC (Entity: Picture of Product) (21)

7.16. Data Element '<>DA_PaymentAmount<:;>'

Amount to pay or paid by customer.

Representation

- RDB: DECIMAL(9,2)

References

- Attribute RECEIVE (Entity: Accounts Receivable History) (10)

7.17. Data Element '<>DA_PhoneNumber<:;>'

Telephone or Fax number.

Representation

- RDB: CHAR(17)

References

- Attribute CON_FAX (Entity: Customer) (13)
- Attribute CON_PHONE (Entity: Customer) (13)

7.18. Data Element '<>DA_Price<:;>'

Price of a product.

Representation

- RDB: DECIMAL(7,2)

References

- Attribute COST (Entity: Components) (11)
- Attribute COSTOLD (Entity: Components) (11)
- Attribute PARTMSR (Entity: Product) (22)
- Attribute PARTPRICE (Entity: Product) (22)
- Attribute PARTPRICE (Entity: Order History Details) (17)
- Attribute Suggested Manf Retail Price (Entity: Standard) (25)
- Attribute PARTPRICE (Relationship: Order Summary_refers to_Product) (28)

7.19. Data Element '<>DA_SalesPersonID<:;>'

Unique identification number of a Celdial representation.

Representation

- RDB: CHAR(5)

References

- Attribute REPNO (Entity: Customer) (12)

7.20. Data Element '<>DA_ShipDate<:;>'

Date.

Representation

- RDB: DATE

References

- Attribute ACTSHIPDATE (Entity: Order History Summary) (19)
- Attribute CUSTSHIPDATE (Entity: Order History Summary) (18)
- Attribute CUSTSHIPDATE (Entity: Order Summary) (20)
- Attribute PARTSHIPDATE (Entity: Product) (22)
- Attribute PLANSHIPDATE (Entity: Order History Summary) (18)
- Attribute PLANSHIPDATE (Entity: Order Summary) (20)

7.21. Data Element '<>DA_ShipLocationID<:;>'

Ship location identification number.

Representation

- RDB: CHAR(2)

References

- Attribute SHIPID (Entity: Order Summary) (20)
- Attribute SHIPID (Entity: Accounts Receivable History) (9)
- Attribute SHIPID (Entity: Customer Shipping Address) (14)
- Attribute SHIPID (Entity: Order History Summary) (18)

7.22. Data Element '<>DA_Status<:;>'

Status of an order.

Representation

- RDB: CHAR(2)

References

- Attribute STATUS (Entity: Order Summary) (20)

7.23. Data Element '<>DA_Street<:;>'

Mailing address.

Representation

- RDB: CHAR(40)

References

- Attribute BILL_ADDR (Entity: Customer Shipping Address) (15)
- Attribute CON_ADDR (Entity: Customer) (13)
- Attribute SHIP_ADDR (Entity: Customer Shipping Address) (14)

7.24. Data Element '<>DA_TrackingDate<:>'

Date for tracking purposes like order date.

Representation

- RDB: DATE

References

- Attribute Buy In Tracking Date (Entity: Buy In) (11)
- Attribute INVDATE (Entity: Accounts Receivable History) (9)
- Attribute ORDERDATE (Entity: Order Summary) (20)
- Attribute ORDERDATE (Entity: Order History Summary) (18)
- Attribute RECEIVED (Entity: Accounts Receivable History) (10)

7.25. Data Element '<>DA_Units<:>'

An Integer number.

Representation

- RDB: SMALLINT

References

- Attribute EARMARKED (Entity: Product Inventory) (24)
- Attribute INVENTORY (Entity: Product Inventory) (24)
- Attribute RESTOCK (Entity: Product Inventory) (24)
- Attribute Units (Entity: Product_Components) (23)
- Attribute UNITS (Entity: Order History Details) (17)
- Attribute UNITS (Relationship: Order Summary_refers to_Product) (28)

7.26. Data Element '<>DA_Zip<:>'

Zip or postal code.

Representation

- RDB: CHAR(10)

References

- Attribute BILL_ZIP (Entity: Customer Shipping Address) (15)
- Attribute CON_ZIP (Entity: Customer) (13)
- Attribute SHIP_ZIP (Entity: Customer Shipping Address) (15)

7.27. Data Element '<>DA_ZipFormat<:>'

Postal code mailing Label Location. Value can be: o 1=after country (USA style) o 2=before city (European style) o 3=after city (UK style).

Representation

- RDB: CHAR

References

- Attribute BILL_ZIPLOC (Entity: Customer Shipping Address) (15)
- Attribute CON_ZIPLOC (Entity: Customer) (13)
- Attribute SHIP_ZIPLOC (Entity: Customer Shipping Address) (15)

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