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Business Process Transformation  
 Interface  
 Technical Design Specification for INT-015  
 UPS Interface (Outbound/Inbound)

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### **SIGNATURE PAGE**

By signing this section, the individuals identified below agree that they have reviewed and approved these Technical Design Specifications

The signatures below represent final approval and acceptance by Merial management representing Information Services (IS), Global Validation, and Quality Assurance.

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## 1.0 **TECHNICAL OVERVIEW**

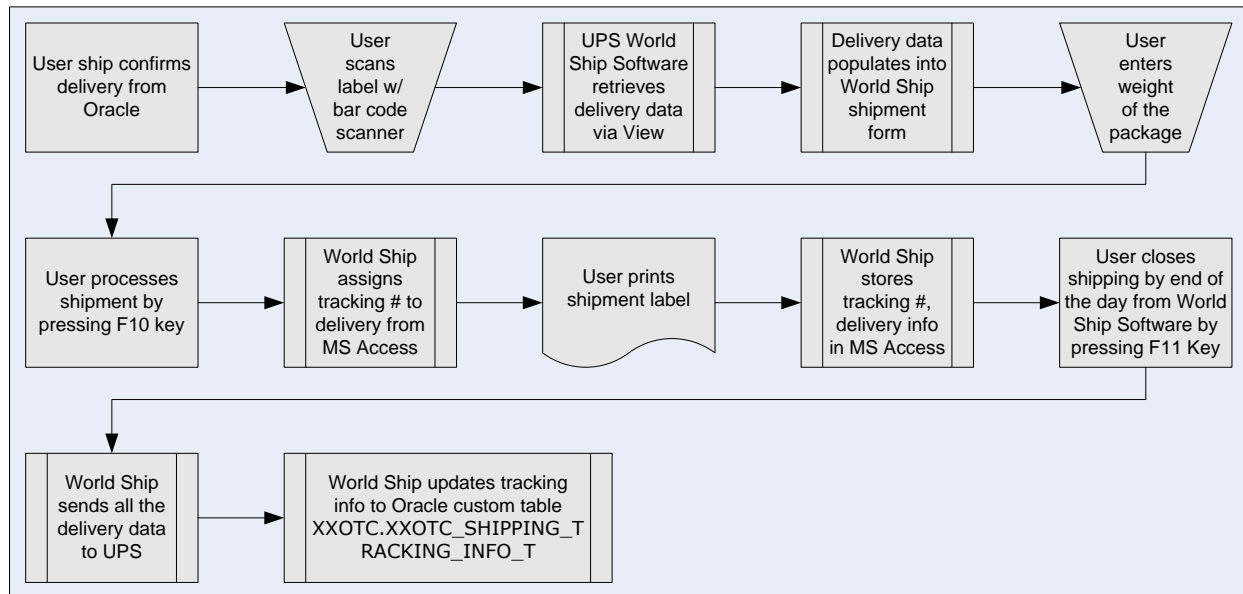
Merial Athens Distribution Center (DC) will use the UPS World Ship software package to process shipments in the Athens DC for VRG, Samples, Frontline Consumer Satisfaction and other types of shipments. The UPS software will be connected to the Oracle eBusiness Suite through the Oracle database via an ODBC connection. The UPS World Ship software package is a client based application that runs on a MS Windows desktop PC which is connected to the Merial network. A bar code scanner is used for scanning the delivery ID from the package label. Upon scanning the package label, the World Ship software program will extract delivery information like customer name, address, phone, ship method code, order number from the Oracle ERP Database tables.

Views have been created in Oracle to retrieve all the relevant delivery information for UPS World Ship Software. These views retrieve only those records from orders which have been ship confirmed in Oracle. The UPS World Ship software connects to the Oracle database via an ODBC connection and based on the status of the delivery scanned; it automatically retrieves the delivery information using these views. After processing the shipment in World Ship software, the associated tracking information for that shipment will be exported back to Oracle ERP System into a custom table via the same ODBC connection. World Ship software assigns tracking number(s) to the delivery. Tracking number(s) are stored in the MS Access database on the local PC.


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## 1.1 Approach

### Process Flow Diagram



1. User ship confirms delivery within Oracle Shipping Execution Application.
2. User scans label from delivery package with a bar code scanner that is attached to the UPS Worldship system.
3. UPS World Ship software extracts data from Oracle tables via three custom views: MER\_UPS\_VIEW, MER\_UPS\_VIEW\_UPS\_V, and XXOTC\_SHIPPING\_TRACK\_INF\_UPS\_V. These views will be queried by UPS software via the import and export maps linked to the views. These maps are created as part of UPS World Ship customer configurations.
4. Delivery data populates into World Ship software windows based shipment form.
5. User enters weight of the delivery package into World Ship software shipment form (i.e. either manually keying in the weight or auto populated from attached scale).
6. User processes the shipment by clicking on Process shipment button or pressing F10 key.


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7. World Ship software assigns tracking number(s) to the delivery. Tracking number(s) are stored in the MS Access database on the local PC.
8. The UPS shipment label(s) print from the World Ship software.
9. World Ship software stores tracking number(s), delivery id and other shipment related information into local MS Access database. (User repeats this process for other deliveries).
10. At the end of the day, user closes out shipping activities and sends all shipment information to UPS via World Ship software. (From UPS program select Activities-> End of Day (F11 key).
11. World Ship software sends all the shipment information including tracking numbers which were stored locally, for the days shipments, on the MS Access table. This step also updates Oracle with the tracking information for the day's shipments.
12. The world ship software processes the delivery and updates the tracking number back to the Custom Table:  
XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T via the same ODBC connection.

## 1.2 Scope

The following points are in scope as per required for R12 and are covered in this technical document:

- Removing the following fields from existing view MER\_UPS\_VIEW:
  - COD\_Type
  - COD\_Flag
  - COD\_Amount
  - Shipping\_Instructions
  - Saturday\_Shipment
- Remove package mer\_ups\_getcoddet\_pkg from the MER\_UPS\_VIEW SQL statement
- Create a new schema called "UPS" which will be granted SELECT, UPDATE, INSERT, DELETE access to APPS.MER\_UPS\_VIEW
- Adding a field to view MER\_UPS\_VIEW capture customer's phone number
- Creation of view MER\_UPS\_VIEW\_UPS\_V to reference required object: APPS.MER\_UPS\_VIEW
- Creation of view XXOTC\_SHIPPING\_TRACK\_INF\_UPS\_V to reference required object: XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T
- Modify current import and export maps in UPS World Ship to reference new views

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- Creation of generic views for Oracle 10g ODBC connection issues (Reference Oracle Bug 1394461): ALL\_OBJECTS and ALL\_SYNONYMS
- Creation of table XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T to store tracking information to be used by Customer Care.
- Complete the ODBC Data Source Administrator setup (via workstation's Control Panel) → Under System DSN for the "Oracle in OraClient10g\_home1" Driver
- Creation of Ship Method Mapping between Oracle and UPS World Ship

### 1.3 Out of Scope

The Creation of MER\_EXPUPS table is not within the scope of this Technical Design.


### 1.4 Technical Approach

This functionality already exists in current Oracle Applications. This will be reused as it is with some changes.

Following changes will be made:

- Modify view MER\_UPS\_VIEW to remove the following fields and package reference (as they are not required anymore): COD\_TYPE, COD\_Flag, COD\_Amount, Shipping\_Instructions, Saturday\_Shipment and the mer\_ups\_getcoddet\_pkg which is embedded in the SQL view.
- Modify view MER\_UPS\_VIEW to add Attribute1 field to extract the phone number from the hz\_contact\_points.phone\_number.
- Create view MER\_UPS\_VIEW\_UPS\_V to reference required object: APPS.MER\_UPS\_VIEW in order to accurately build the World Ship import map
- Create of view XXOTC\_SHIPPING\_TRACK\_INF\_UPS\_V to reference required object: XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T in order to accurately build the World Ship export map
- Create a new schema called "UPS" and exclude this schema from all of the public grants
- Restricted access of specific database objects, views and synonyms via the UPS schema by creating ALL\_OBJECTS and ALL\_SYNONYMS generic views




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- Create Sender\_ID = 'Athens' to generate data rows to XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T when deliveries are shipped via UPS Worldship out of Athens. This Sender\_ID allows the tracking information to be visible in the Merial Tracking Information Inquiry form.

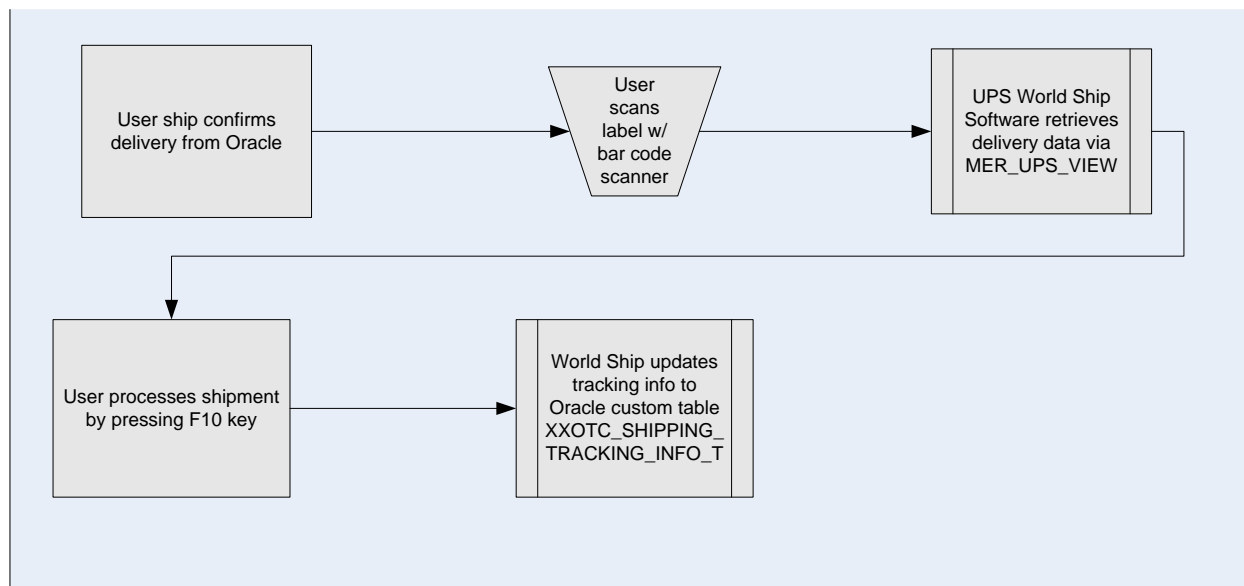
## 1.5 Module List

- MER\_UPS\_VIEW:  
This view is used by the UPS World Ship software to retrieve delivery information from the Oracle base tables.
- MER\_UPS\_VIEW\_UPS\_V:  
This view is used to reference required object APPS.MER\_UPS\_VIEW in order to accurately build the World Ship import map. The data imported to UPS from Oracle is: delivery\_id, customer\_name, address\_id, customer\_id, country, address1, addresss2, address3, attribute1, city, state, postal\_code, order\_number, ship\_to\_id, ship\_method\_code, source\_header\_number and sender\_id
- XXOTC\_SHIPPING\_TRACK\_INF\_UPS\_V:  
This view is used to reference required object XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T in order to accurately build the World Ship export map. The data exported from UPS to Oracle is: tracking\_number, order\_number, delivery\_id, freight\_cost\_id, package\_weight and sender\_id
- XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T  
This table is used to capture shipping data that will be used by Customer Care via the Merial Tracking Information Inquiry form. The tracking number that is exported back to Oracle will be stored here along with the following data: sender\_id, order\_number, subinventory, package\_number, line\_number, package\_quantity, package\_weight, freight\_cost\_id, delivery\_detail\_id, delivery\_id, shipping\_carrier, package\_weight\_uom, shipment\_detail\_id, creation\_date, created\_by, last\_updated\_by and last\_updated\_date
- Creation of UPS schema and ALL\_OBJECTS and ALL\_SYNONYMS views:  
(Oracle Support Metalink Bug Reference No. 1394461)


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When connecting to Oracle 10g through an ODBC driver Data Source, it was found that importing data slowed down immensely with a wait time of up to forty minutes. This issue is mostly like caused a V8 driver ignoring ALL\_CATALOG VIEW in the USERS schema when linking tables (described as Oracle bug 1394461). The SQL being executed by UPS World Ship against the Oracle Database to source those objects is being used by the mapper. It appears a SQL Hint is being used within that SQL as well. This is part of what is causing the performance issue when this query is being run against the Oracle 10g database. SQL Hints are not optimally allowing the Oracle 10g database to execute the query. The Oracle 10g version of the database is using a CBO (Cost Based Optimizer) approach to query execution. Hence, use of a "Hint" is preventing the Oracle 10g database from optimizing the performance of the query execution. The solution is to create a new schema and to exclude that schema from all of the public grants (which amounts to quite a few tables and views). In conclusion, the new user (schema) that has permissions to only two views. World Ship still loads the entire catalog for this schema but the catalog is small enough that it loads in seconds.

## 1.6 Technical Process Flow




1. User will ship Confirm a delivery in Oracle ERP Systems. (Only Ship Confirmed Records can be seen in the view)


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2. The User in UPS will scan a delivery bar Code and the UPS World Ship Software will then retrieve the delivery data like Customer Name, Address, Ship method code, order number etc from the custom view MER\_UPS\_VIEW\_UPS\_V which is linked to APPS.MER\_UPS\_VIEW
3. Querying these views in Oracle will be done by the UPS World Ship software via an ODBC connection.
4. User will then process the shipment in UPS World Ship software.
5. World Ship updates the tracking information and delivery data back into Oracle using custom view 'XXOTC\_SHIPPING\_TRACK\_INF\_UPS\_V and custom table XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T via the same ODBC connection.

## 1.7 Assumptions


- UPS World Ship data import and export maps have been updated to recognize the new Oracle custom Views and Table. This includes that the correct field level mappings have been put in place within each of the UPS World Ship maps.
- It is the responsibility of the UPS World Ship software to create the ODBC connection and query the custom view and to update the XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T table with the processed data.
- There has been no change to the process flow for processing the Shipment in Athens DC.
- Only deliveries in last 180 days are extracted in the view.
- Freight Code will be of type '%UPS%'
- UPS software which is third party software, will query the MER\_UPS\_VIEW so the view name will not be changed as per new naming standards.
- UPS World Ship software will be setup with a shipping profile that will secure placeholder for data such as the order number and delivery to be immediately seen on the UPS World Ship screen. This information will allow the user to automatically verify that the delivery being scanned into UPS World Ship matches the delivery label (pick ticket).
- Because UPS World Ship communication setup is based on Direct Access to the Merial Proxy Server; any changes to the Proxy Server IP address and port must be communicated to Merial support personnel. If the proxy server is not correct, the End-Of-Day process will respond with a transmission failure.

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## 1.8 Import and Export UPS World Ship Mapping

Export from UPS to Oracle			
Map Name: EXP_MER_UPS, Export data from WorldShip as a "Shipment" map - <b>no primary key</b>			
UPS WorldShip Fields		OBDC Tables (XXOTC_SHIPPING_TRACK_INF_UPS_V)	
Package::Package Published Charge (3)	↔	XXOTC_SHIPPING_TRACK_INF_UPS_V::FREIGHT_COST_ID	
Package::Weight	↔	XXOTC_SHIPPING_TRACK_INF_UPS_V::PACKAGE_WEIGHT	
Package::Tracking Number	↔	XXOTC_SHIPPING_TRACK_INF_UPS_V::TRACKING_NUMBER	
Package::Reference 2	↔	XXOTC_SHIPPING_TRACK_INF_UPS_V::ORDER_NUMBER	
Package::Reference 1	↔	XXOTC_SHIPPING_TRACK_INF_UPS_V::DELIVERY_ID	
Package::Reference 3	↔	XXOTC_SHIPPING_TRACK_INF_UPS_V::SENDER_ID	
Import from Oracle to UPS			
Map Name: IMP_MER_UPS, import from ODBC Database as a "Shipment" map			
ODBC Tables (MER_UPS_VIEW_UPS_V)		UPS WorldShip Fields	
MER_UPS_VIEW_UPS_V::State	↔	Ship To::State/Province/County	
MER_UPS_VIEW_UPS_V::Source_Header_Number	↔	Package::Reference 4	
MER_UPS_VIEW_UPS_V::Ship_To_ID	↔	Ship To::Attention	
MER_UPS_VIEW_UPS_V::Ship_Method_Code	↔	Shipment Information::Service Type	
MER_UPS_VIEW_UPS_V::Postal_Code	↔	Ship To::Postal Code	
MER_UPS_VIEW_UPS_V::Order_Number	↔	Package::Reference 2	

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<b>MER_UPS_VIEW_UPS_V::Delivery_ID</b>	↔	<b>Package::Reference 1</b>	<b>Primary Key</b>
MER_UPS_VIEW_UPS_V::Customer_Name	↔	Ship To::Company or Name	
MER_UPS_VIEW_UPS_V::Customer_ID	↔	Ship To::Customer ID	
MER_UPS_VIEW_UPS_V::Country	↔	Ship To::Country / Territory	
MER_UPS_VIEW_UPS_V::City	↔	Ship To::City or Town	
MER_UPS_VIEW_UPS_V::Attribute1	↔	Ship To::Telephone	
MER_UPS_VIEW_UPS_V::Address3	↔	Ship To::Address3	
MER_UPS_VIEW_UPS_V::Address2	↔	Ship To::Address2	
MER_UPS_VIEW_UPS_V::Address1	↔	Ship To::Address1	
MER_UPS_VIEW_UPS_V::Sender_ID	↔	Package::Reference 3	

## 1.9 Ship Method Mapping

As part of the Oracle Shipping Execution Application, the Shipping Execution Lookup Codes known as "Ship Methods" are defined in Oracle to exactly match UPS Service Names. The business logic for these lookup codes will often map many Merial Ship Methods to one UPS Service. In turn, the same mapping is also done in UPS World Ship within the import map, embedded in the "Shipment Information::Service Type" field. This is mandatory so that the ship method required for the package is seamlessly imported into World Ship from Oracle along with the remaining shipment information.

### 1.9.1 Oracle Shipping Execution Lookups

Type	WSH_SERVICE_LEVELS			
Meaning	Carrier Service Levels			
Application	Shipping Execution	Access Level	Extensible	
Description	Lookup for LOV in Service Level Field in Carrier Services Form			



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Code	Meaning	Description	Tag	From	To	Enabled
UPS 2 DA (AM)	UPS 2 DA (AM)	2 Day Air		30-JUL-2008		√
UPS 2 DA (AM)-BIO	UPS 2 DA (AM) - BIO	2 Day Air		30-JUL-2008		√
UPS 2 DA (PM)	UPS 2 DA (PM)	2 Day Air		30-JUL-2008		√
UPS 2 DA (PM)-BIO	UPS 2 DA (PM) - BIO	2 Day Air		30-JUL-2008		√
UPS 2 DA (PM)-HAZ	UPS 2 DA (PM) - HAZ	2 Day Air		30-JUL-2008		√
UPS 3 DA	UPS 3 DA	3 Day Air		30-JUL-2008		√
UPS GND	UPS Ground	Ground		30-JUL-2008		√
UPS GND-BIO	UPS Ground - BIO	Ground		30-JUL-2008		√
UPS GND-HAZ	UPS Ground - HAZ	Ground		30-JUL-2008		√
UPS NDA	UPS NDA	Next Day Air		30-JUL-2008		√
UPS NDA (EARLY AM)	UPS NDA (EARLY AM)	Next Day Air (Early AM)		30-JUL-2008		√
UPS NDA (EARLY AM)-BIO	UPS NDA (EARLY AM) - BIO	Next Day Air (Early AM)		30-JUL-2008		√
UPS NDA (PM)	UPS NDA (PM)	Next Day Air (PM)		30-JUL-2008		√
UPS NDA (PM)-	UPS NDA	Next Day		30-JUL-2008		√



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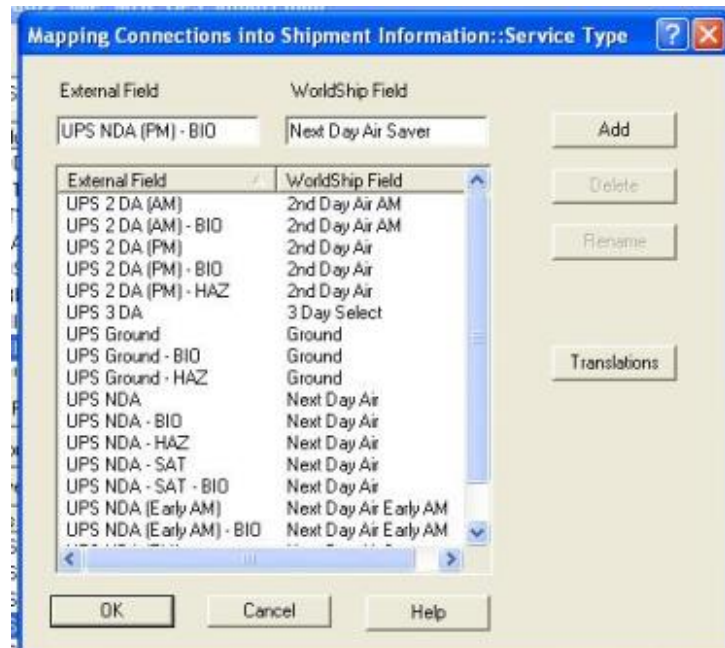
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BIO	(PM) - BIO	Air (PM)				
UPS NDA - HAZ	UPS NDA - HAZ	Next Day Air - UPS NDA		30-JUL-2008		√
UPS NDA-BIO	UPS NDA - BIO	Next Day Air		30-JUL-2008		√
UPS NDA-SAT	UPS NDA - SAT	Next Day Air-Saturday		30-JUL-2008		√
UPS NDA-SAT-BIO	UPS NDA - SAT - BIO	Next Day Air-Saturday		30-JUL-2008		√

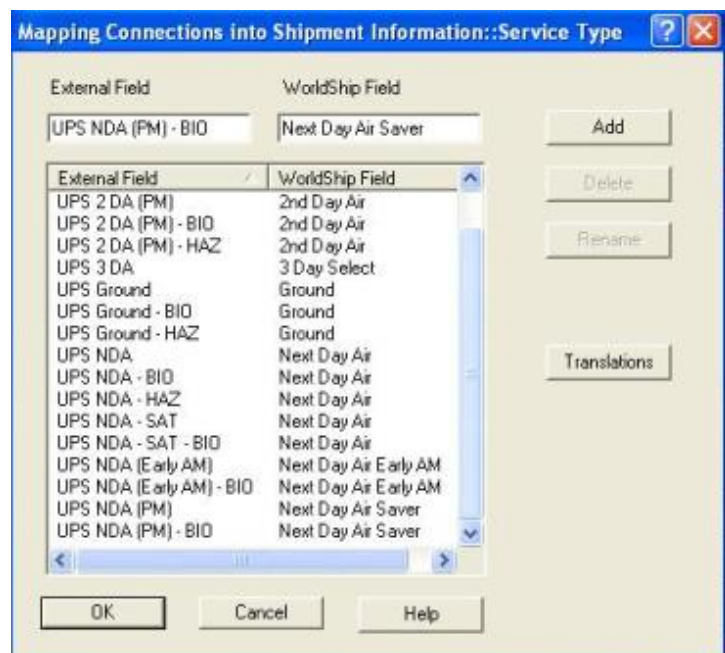


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### 1.9.2 UPS World ShipMapping Connections into Shipment Information::Service Type



External Field	WorldShip Field
UPS NDA (PM) - BIO	Next Day Air Saver
UPS 2 DA (AM)	2nd Day Air AM
UPS 2 DA (AM) - BIO	2nd Day Air AM
UPS 2 DA (PM)	2nd Day Air
UPS 2 DA (PM) - BIO	2nd Day Air
UPS 2 DA (PM) - HAZ	2nd Day Air
UPS 3 DA	3 Day Select
UPS Ground	Ground
UPS Ground - BIO	Ground
UPS Ground - HAZ	Ground
UPS NDA	Next Day Air
UPS NDA - BIO	Next Day Air
UPS NDA - HAZ	Next Day Air
UPS NDA - SAT	Next Day Air
UPS NDA - SAT - BIO	Next Day Air
UPS NDA (Early AM)	Next Day Air Early AM
UPS NDA (Early AM) - BIO	Next Day Air Early AM



External Field	WorldShip Field
UPS NDA (PM) - BIO	Next Day Air Saver
UPS 2 DA (PM)	2nd Day Air
UPS 2 DA (PM) - BIO	2nd Day Air
UPS 2 DA (PM) - HAZ	2nd Day Air
UPS 3 DA	3 Day Select
UPS Ground	Ground
UPS Ground - BIO	Ground
UPS Ground - HAZ	Ground
UPS NDA	Next Day Air
UPS NDA - BIO	Next Day Air
UPS NDA - HAZ	Next Day Air
UPS NDA - SAT	Next Day Air
UPS NDA - SAT - BIO	Next Day Air
UPS NDA (Early AM)	Next Day Air Early AM
UPS NDA (Early AM) - BIO	Next Day Air Early AM
UPS NDA (PM)	Next Day Air Saver
UPS NDA (PM) - BIO	Next Day Air Saver

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## 1.10 Related Documents

### Functional Design Document

- ISP-101-OTC-FDS-INT-015 UPS Interface v2.doc

## 2.0 PROGRAM LOGIC

### 2.1 Concurrent Programs

There are no concurrent programs required.

### 2.2 Calling Argument

Argument	Description	Default Value
N/A		

### 2.3 Log Output


N/A

Concurrent request process generates log and output file.

.....1.....2.....3.....4.....5.....6.....7.....8

### 2.4 Table Usage

Table Name	Select	Insert	Update	Delete
hz_cust_acct_sites_all	Y			
hz_party_sites	Y			
hz_cust_site_uses_all	Y			
hz_locations	Y			
hz_contact_points	Y			
wsh_delivery_details	Y			
wsh_new_deliveries	Y			
wsh_delivery_assignments	Y			
oe_order_headers_all	Y			
hz_parties	Y			
wsh_carrier_ship_methods	Y			
fnd_lookup_values	Y			

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## 2.5 View Usage

### 2.5.1 MER\_UPS\_VIEW

Columns:


Column Name	ID	Data Type	Null?
DELIVERY_ID	1	NUMBER	N
CUSTOMER_NAME	2	VARCHAR2 (360 Byte)	N
ADDRESS_ID	3	NUMBER (15)	N
CUSTOMER_ID	4	NUMBER (15)	N
COUNTRY	5	VARCHAR2 (60 Byte)	N
ADDRESS1	6	VARCHAR2 (240 Byte)	N
ADDRESS2	7	VARCHAR2 (240 Byte)	Y
ADDRESS3	8	VARCHAR2 (240 Byte)	Y
ATTRIBUTE1	9	VARCHAR2 (50 Byte)	Y
CITY	10	VARCHAR2 (60 Byte)	Y
STATE	11	VARCHAR2 (60 Byte)	Y
POSTAL_CODE	12	VARCHAR2 (60 Byte)	Y
ORDER_NUMBER	13	NUMBER	N
SHIP_TO_ID	14	NUMBER	Y
SHIP_METHOD_CODE	15	VARCHAR2 (80 Byte)	N
SOURCE_HEADER_NUMBER	16	NUMBER	Y
SENDER_ID	17	VARCHAR2 (10 Byte)	Y

Pseudo Code:

```
DROP VIEW APPS.MER_UPS_VIEW;
```

```
CREATE OR REPLACE FORCE VIEW APPS.MER_UPS_VIEW
```


```
(
    DELIVERY_ID,
    CUSTOMER_NAME,
    ADDRESS_ID,
    CUSTOMER_ID,
    COUNTRY,
    ADDRESS1,
    ADDRESS2,
    ADDRESS3,
    ATTRIBUTE1,
    CITY,
    STATE,
    POSTAL_CODE,
    ORDER_NUMBER,
```

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```

SHIP_TO_ID,
SHIP_METHOD_CODE,
SOURCE_HEADER_NUMBER,
SENDER_ID
)
AS
SELECT  DISTINCT
        wnd.delivery_id,
        hp.party_name,
        addr.cust_acct_site_id address_id,
        addr.cust_account_id customer_id,
        loc.country country,
        loc.address1 address1,
        loc.address2 address2,
        loc.address3 address3,
        TRIM (phone.phone_area_code) || TRIM (phone.phone_number),
        loc.city city,
        loc.state state,
        loc.postal_code postal_code,
        ooha.order_number,
        ooha.ship_to_org_id,
        flv.meaning,
        wdd.source_header_id,
        DECODE (wnd.organization_id,
                107, 'ATHENS',
                108, 'ATHENS',
                'NON ATHENS')
        SENDER_ID
FROM    ar.hz_cust_acct_sites_all addr,
        ar.hz_party_sites party_site,
        ar.hz_cust_site_uses_all hcsua,
        ar.hz_locations loc,
        ar.hz_contact_points phone,
        wsh.wsh_delivery_details wdd,
        wsh.wsh_new_deliveries wnd,
        wsh.wsh_delivery_assignments wda,
        ont.oe_order_headers_all ooha,
        ar.hz_parties hp,
        wsh.wsh_carrier_ship_methods wscm,
        apps.fnd_lookup_values flv
WHERE   addr.party_site_id = party_site.party_site_id
AND     loc.location_id = party_site.location_id
AND     party_site.party_id = hp.party_id
AND     phone.owner_table_id(+) = hp.party_id
AND     NVL (phone.phone_line_type, 'GEN') IN ('GEN', 'MOBILE')
AND     phone.contact_point_type(+) = 'PHONE'
AND     phone.status(+) = 'A'
AND     phone.owner_table_name(+) = 'HZ_PARTIES'
AND     hcsua.cust_acct_site_id = addr.cust_acct_site_id

```

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```

AND hcsua.site_use_code = 'SHIP_TO'
AND ooha.ship_to_org_id = hcsua.site_use_id
AND wdd.customer_id = addr.cust_account_id
AND ooha.header_id = wdd.source_header_id
AND ooha.org_id = addr.org_id
AND wda.delivery_id = wnd.delivery_id
AND wda.delivery_detail_id = wdd.delivery_detail_id
AND wscm.ship_method_code = wnd.ship_method_code
AND UPPER (wscm.freight_code) LIKE '%UPS%'
AND wnd.organization_id = wscm.organization_id
AND wdd.shipped_quantity > 0
AND wnd.creation_date > (SELECT (SYSDATE - (30 * 6)) FROM DUAL)
AND wnd.service_level = flv.lookup_code
AND flv.lookup_type = 'WSH_SERVICE_LEVELS'
AND flv.enabled_flag = 'Y'
AND flv.LANGUAGE = USERENV ('LANG');

```

```
DROP SYNONYM UPS.MER_UPS_VIEW;
```


```
CREATE SYNONYM UPS.MER_UPS_VIEW FOR APPS.MER_UPS_VIEW;
```

```
GRANT SELECT ON APPS.MER_UPS_VIEW TO MERVVIEW WITH GRANT OPTION;
```

```
GRANT SELECT ON APPS.MER_UPS_VIEW TO SELALL;
```

```
GRANT SELECT ON APPS.MER_UPS_VIEW TO UPS WITH GRANT OPTION;
```

```
GRANT DELETE, INSERT, UPDATE ON APPS.MER_UPS_VIEW TO UPS;
```

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### 2.5.2 XXOTC\_SHIPPING\_TRACK\_INF\_UPS\_V


Columns:

Column Name	ID	Data Type	Null?
SENDER_ID	1	VARCHAR2 (15 Byte)	Y
ORDER_NUMBER	2	NUMBER	Y
SUBINVENTORY	3	VARCHAR2 (10 Byte)	Y
PACKAGE_NUMBER	4	NUMBER (20)	Y
LINE_NUMBER	5	NUMBER (20)	Y
PACKAGE_QUANTITY	6	NUMBER	Y
PACKAGE_WEIGHT	7	NUMBER (15,2)	Y
FREIGHT_COST_ID	8	NUMBER	Y
TRACKING_NUMBER	9	VARCHAR2 (45 Byte)	Y
DELIVERY_DETAIL_ID	10	NUMBER (35)	Y
DELIVERY_ID	11	NUMBER (25)	Y
TRACK_INFO_ID	12	NUMBER (35)	Y
PACKAGE_WEIGHT_UOM	13	VARCHAR2 (30 Byte)	Y
SHIPPING_CARRIER	14	VARCHAR2 (30 Byte)	Y
SHIPMENT_DETAIL_ID	15	NUMBER	Y
CREATED_BY	16	NUMBER (20)	Y
CREATION_DATE	17	DATE	Y
LAST_UPDATED_BY	18	NUMBER (20)	Y
LAST_UPDATE_DATE	19	DATE	Y
LAST_UPDATE_LOGIN	20	NUMBER (20)	Y

Pseudo Code:

```
DROP VIEW UPS.XXOTC_SHIPPING_TRACK_INF_UPS_V;
```


```
CREATE OR REPLACE FORCE VIEW UPS.XXOTC_SHIPPING_TRACK_INF_UPS_V
(
    SENDER_ID,
    ORDER_NUMBER,
    SUBINVENTORY,
    PACKAGE_NUMBER,
    LINE_NUMBER,
    PACKAGE_QUANTITY,
    PACKAGE_WEIGHT,
    FREIGHT_COST_ID,
    TRACKING_NUMBER,
    DELIVERY_DETAIL_ID,
    DELIVERY_ID,
```

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```

TRACK_INFO_ID,
PACKAGE_WEIGHT_UOM,
SHIPPING_CARRIER,
SHIPMENT_DETAIL_ID,
CREATED_BY,
CREATION_DATE,
LAST_UPDATED_BY,
LAST_UPDATE_DATE,
LAST_UPDATE_LOGIN
)
AS
SELECT      "SENDER_ID",
            "ORDER_NUMBER",
            "SUBINVENTORY",
            "PACKAGE_NUMBER",
            "LINE_NUMBER",
            "PACKAGE_QUANTITY",
            "PACKAGE_WEIGHT",
            "FREIGHT_COST_ID",
            "TRACKING_NUMBER",
            "DELIVERY_DETAIL_ID",
            "DELIVERY_ID",
            "TRACK_INFO_ID",
            "PACKAGE_WEIGHT_UOM",
            "SHIPPING_CARRIER",
            "SHIPMENT_DETAIL_ID",
            "CREATED_BY",
            "CREATION_DATE",
            "LAST_UPDATED_BY",
            "LAST_UPDATE_DATE",
            "LAST_UPDATE_LOGIN"
FROM        xxotc.XXOTC_SHIPPING_TRACKING_INFO_T;

```

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### 2.5.3 MER\_UPS\_VIEW\_UPS\_V

Columns:

Column Name	ID	Data Type	Null?
DELIVERY_ID	1	NUMBER	N
CUSTOMER_NAME	2	VARCHAR2 (360 Byte)	N
ADDRESS_ID	3	NUMBER (15)	N
CUSTOMER_ID	4	NUMBER (15)	N
COUNTRY	5	VARCHAR2 (60 Byte)	N
ADDRESS1	6	VARCHAR2 (240 Byte)	N
ADDRESS2	7	VARCHAR2 (240 Byte)	Y
ADDRESS3	8	VARCHAR2 (240 Byte)	Y
ATTRIBUTE1	9	VARCHAR2 (50 Byte)	Y
CITY	10	VARCHAR2 (60 Byte)	Y
STATE	11	VARCHAR2 (60 Byte)	Y
POSTAL_CODE	12	VARCHAR2 (60 Byte)	Y
ORDER_NUMBER	13	NUMBER	N
SHIP_TO_ID	14	NUMBER	Y
SHIP_METHOD_CODE	15	VARCHAR2 (80 Byte)	N
SOURCE_HEADER_NUMBER	16	NUMBER	Y
SENDER_ID	17	VARCHAR2 (10 Byte)	Y


Pseudo Code:

```
DROP VIEW UPS.MER_UPS_VIEW_UPS_V;
```

```
CREATE OR REPLACE FORCE VIEW UPS.MER_UPS_VIEW_UPS_V
```

```
(
  DELIVERY_ID,
  CUSTOMER_NAME,
  ADDRESS_ID,
  CUSTOMER_ID,
  COUNTRY,
  ADDRESS1,
  ADDRESS2,
  ADDRESS3,
  ATTRIBUTE1,
  CITY,
  STATE,
  POSTAL_CODE,
  ORDER_NUMBER,
  SHIP_TO_ID,
  SHIP_METHOD_CODE,
```



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```


SOURCE_HEADER_NUMBER,
SENDER_ID
)
AS
SELECT  "DELIVERY_ID",
        "CUSTOMER_NAME",
        "ADDRESS_ID",
        "CUSTOMER_ID",
        "COUNTRY",
        "ADDRESS1",
        "ADDRESS2",
        "ADDRESS3",
        "ATTRIBUTE1",
        "CITY",
        "STATE",
        "POSTAL_CODE",
        "ORDER_NUMBER",
        "SHIP_TO_ID",
        "SHIP_METHOD_CODE",
        "SOURCE_HEADER_NUMBER",
        "SENDER_ID"
FROM    apps.mer_ups_view;

```

## 2.5.4 ALL\_OBJECTS

Columns:

Column Name	ID	Data Type	Null?
OWNER	1	VARCHAR2 (30 Byte)	N
OBJECT_NAME	2	VARCHAR2 (30 Byte)	N
SUBOBJECT_NAME	3	VARCHAR2 (30 Byte)	Y
OBJECT_ID	4	NUMBER	N
DATA_OBJECT_ID	5	NUMBER	Y
OBJECT_TYPE	6	VARCHAR2 (19 Byte)	Y
CREATED	7	DATE	N
LAST_DDL_TIME	8	DATE	N
TIMESTAMP	9	VARCHAR2 (19 Byte)	Y
STATUS	10	VARCHAR2 (7 Byte)	Y
TEMPORARY	11	VARCHAR2 (1 Byte)	Y
GENERATED	12	VARCHAR2 (1 Byte)	Y
SECONDARY	13	VARCHAR2 (1 Byte)	Y
NAMESPACE	14	NUMBER	N
EDITION_NAME	15	VARCHAR2 (30 Byte)	Y


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Psuedo Code:

```
DROP VIEW SYS.ALL_OBJECTS;
```

```
CREATE OR REPLACE FORCE VIEW SYS.ALL_OBJECTS
```


```
(
  OWNER,
  OBJECT_NAME,
  SUBOBJECT_NAME,
  OBJECT_ID,
  DATA_OBJECT_ID,
  OBJECT_TYPE,
  CREATED,
  LAST_DDL_TIME,
  TIMESTAMP,
  STATUS,
  TEMPORARY,
  GENERATED,
  SECONDARY,
  NAMESPACE,
  EDITION_NAME
)
AS
  SELECT    u.name,
            o.name,
            o.subname,
            o.obj#,
            o.dataobj#,
            DECODE (
              o.type#,
              0,
              'NEXT OBJECT',
              1,
              'INDEX',
              2,
              'TABLE',
              3,
              'CLUSTER',
              4,
              'VIEW',
              5,
              'SYNONYM',
              6,
              'SEQUENCE',
              7,
              'PROCEDURE',
              8,
              'FUNCTION',
              9,
```

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```

'PACKAGE',
11,
'PACKAGE BODY',
12,
'TRIGGER',
13,
'TYPE',
14,
'TYPE BODY',
19,
'TABLE PARTITION',
20,
'INDEX PARTITION',
21,
'LOB',
22,
'LIBRARY',
23,
'DIRECTORY',
24,
'QUEUE',
28,
'JAVA SOURCE',
29,
'JAVA CLASS',
30,
'JAVA RESOURCE',
32,
'INDEXTYPE',
33,
'OPERATOR',
34,
'TABLE SUBPARTITION',
35,
'INDEX SUBPARTITION',
40,
'LOB PARTITION',
41,
'LOB SUBPARTITION',
42,
NVL (
    (SELECT      'REWRITE EQUIVALENCE'
      FROM        sum$ s
      WHERE       s.obj# = o.obj#
                AND BITAND (s.xpflags, 8388608) = 8388608),
    'MATIALIZED VIEW'
),
43,
'DIMENSION',


```

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```

44,
'CONTEXT',
46,
'RULE SET',
47,
'RESOURCE PLAN',
48,
'CONSUMER GROUP',
55,
'XML SCHEMA',
56,
'JAVA DATA',
57,
'EDITION',
59,
'RULE',
60,
'CAPTURE',
61,
'APPLY',
62,
'EVALUATION CONTEXT',
66,
'JOB',
67,
'PROGRAM',
68,
'JOB CLASS',
69,
'WINDOW',
72,
'SCHEDULER GROUP',
74,
'SCHEDULE',
79,
'CHAIN',
81,
'FILE GROUP',
82,
'MINING MODEL',
87,
'ASSEMBLY',
90,
'CREDENTIAL',
92,
'CUBE DIMENSION',
93,
'CUBE',
94,


```

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```

        'MEASURE FOLDER',
        95,
        'CUBE BUILD PROCESS',
        100,
        'FILE WATCHER',
        101,
        'DESTINATION',
        'UNDEFINED'
    ),
    o.ctime,
    o.mtime,
    TO_CHAR (o.stime, 'YYYY-MM-DD:HH24:MI:SS'),
    DECODE (o.status, 0, 'N/A', 1, 'VALID', 'INVALID'),
    DECODE (BITAND (o.flags, 2), 0, 'N', 2, 'Y', 'N'),
    DECODE (BITAND (o.flags, 4), 0, 'N', 4, 'Y', 'N'),
    DECODE (BITAND (o.flags, 16), 0, 'N', 16, 'Y', 'N'),
    o.namespace,
    o.defining_edition
FROM sys."_CURRENT_EDITION_OBJ" o, sys.user$ u
WHERE o.owner# = u.user# AND o.linkname IS NULL
AND (o.type# NOT IN (1                                /* INDEX - handled below
*/
                                , 10                                /* NON-EXISTENT
*/
                                )
    OR (o.type# = 1
        AND 1 =
            (SELECT 1
              FROM sys.ind$ i
              WHERE i.obj# = o.obj#
                    AND i.type# IN (1, 2, 3, 4, 6, 7, 9)))
    AND o.name != '_NEXT_OBJECT'
    AND o.name != '_default_auditing_options_'
    AND BITAND (o.flags, 128) = 0
    AND (o.owner# IN (USERENV ('SCHEMAID'), 1          /* PUBLIC
*/
                                )
    OR (                                /* non-procedural objects
*/
        o.type# NOT IN
            (7, 8, 9, 11, 12, 13, 14, 28, 29, 30, 56, 93)
        AND o.obj# IN
            (SELECT obj#
              FROM sys.objauth$
              WHERE grantee# IN
                  (SELECT kzsrorol FROM
x$kszsro)
                                AND privilege# IN (3          /* DELETE
*/


```

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```

, 6      /* INSERT
*/
, 7      /* LOCK
*/
, 9      /*
SELECT */
, 10     /*
UPDATE */
, 12
/* EXECUTE */
, 11 /* USAGE */
, 16 /* CREATE */
, 17 /* READ */
, 18 /* WRITE */
)))
OR (o.type# IN (7, 8, 9, 28, 29, 30, 56) /* prc, fcn, pkg
*/
    AND (EXISTS
        (SELECT NULL
         FROM sys.objauth$ oa
         WHERE oa.obj# = o.obj#
               AND oa.grantee# IN
                   (SELECT kzsrorol
                    FROM x$kzsro)
               AND oa.privilege# IN (12 /* EXECUTE
*/
, 26 /* DEBUG
*/
))
    OR EXISTS (SELECT NULL
               FROM v$enabledprivs
               WHERE priv_number IN (-144 /* EXECUTE
, -141 /*
, -
241 /* DEBUG ANY PROCEDURE */
)))
OR (o.type# IN (19) /* partitioned table objects
*/
    AND EXISTS
        (SELECT bo#
         FROM tabpart$

```

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```

WHERE obj# = o.obj#
AND bo# IN
        (SELECT obj#
         FROM sys.objauth$
         WHERE grantee# IN
              (SELECT
kzsrrol
FROM
x$ksro)
AND privilege# IN (9
/* SELECT */
)))
OR (o.type# IN (12) /* trigger
*/
AND (EXISTS
      (SELECT NULL
       FROM sys.trigger$ t, sys.objauth$ oa
       WHERE BITAND (t.property, 24) = 0
              AND t.obj# = o.obj#
              AND oa.obj# = t.baseobject
              AND oa.grantee# IN
                    (SELECT kzsrrol
                     FROM x$ksro)
              AND oa.privilege# = 26 /* DEBUG
*/
      )
OR EXISTS (SELECT NULL
          FROM v$enabledprivs
          WHERE priv_number IN (-152 /* CREATE
, -241 /*
DEBUG ANY PROCEDURE */
      )))
OR (o.type# = 11 /* pkg body
*/
AND (EXISTS
      (SELECT NULL
       FROM sys."_ACTUAL_EDITION_OBJ" specobj,
       sys.dependency$ dep,
       sys.objauth$ oa
       WHERE specobj.owner# = o.owner#
              AND specobj.name = o.name
              AND specobj.type# = 9 /* pkg
*/
              AND dep.d_obj# = o.obj#
              AND dep.p_obj# = specobj.obj#
              AND oa.obj# = specobj.obj#
              AND oa.grantee# IN

```



**Version: 2**  
**Issued: 20-Mar-2012**

**Supercedes: Version 1**  
**Issued: 20-Aug-2008**

**Owner:** IS Quality and Compliance Director

Release #: N/A


**Controlled Location:** Duluth, Georgia, USA

```
(SELECT      kzsrorol
FROM        x$kzsr)
AND oa.privilege# = 26          /* DEBUG
*/

OR EXISTS (SELECT NULL
FROM v$enabledprivs
WHERE priv_number IN (-141 /* CREATE ANY PROCEDURE */
                        , -241 /*
DEBUG ANY PROCEDURE */
                      ))))
OR (o.type# IN (22)           /* library
*/
    AND EXISTS (SELECT NULL
FROM v$enabledprivs
WHERE priv_number IN (-189 /* CREATE ANY LIBRARY */
                      , -190 /* ALTER ANY LIBRARY */
                      , -191 /* DROP ANY LIBRARY */
                      , -
192 /* EXECUTE ANY LIBRARY */
                    )))
OR ( /* index, table, view, synonym, table partn, indx
partn, */
/* table subpartn, index subpartn, cluster
*/
o.type# IN (1, 2, 3, 4, 5, 19, 20, 34, 35)
AND EXISTS (SELECT NULL
FROM v$enabledprivs
WHERE priv_number IN (-45 /* LOCK ANY TABLE */
                     , -47 /* SELECT ANY TABLE */
                     , -48 /* INSERT ANY TABLE */
                     , -49 /* UPDATE ANY TABLE */
                     , -
50 /* DELETE ANY TABLE */
                    )))
OR (o.type# = 6               /* sequence
*/
    AND EXISTS (SELECT NULL
FROM v$enabledprivs
```






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```


WHERE      priv_number IN (-181 /* CREATE
ANY TYPE */
                                , -241 /*
DEBUG ANY PROCEDURE */
                                ))))
OR (o.type# = 23                                /* directory
*/
      AND EXISTS (SELECT      NULL
                    FROM        v$enabledprivs
                    WHERE       priv_number IN (-177 /* CREATE ANY
DIRECTORY */
                                , -178 /* DROP
ANY DIRECTORY */
                                )))
OR (o.type# = 42 /* summary jjf table privs have to change
to summary */
      AND EXISTS (SELECT      NULL
                    FROM        v$enabledprivs
                    WHERE       priv_number IN (-45 /* LOCK ANY
TABLE */
                                , -47 /* SELECT
ANY TABLE */
                                , -48 /*
INSERT ANY TABLE */
                                , -49
/* UPDATE ANY TABLE */
                                ,
-50 /* DELETE ANY TABLE */
                                ))))
OR (o.type# = 32                                /* indextype
*/
      AND EXISTS (SELECT      NULL
                    FROM        v$enabledprivs
                    WHERE       priv_number IN (-205 /* CREATE
INDEXTYPE */
                                , -206 /*
CREATE ANY INDEXTYPE */
                                , -207 /*
ALTER ANY INDEXTYPE */
                                , -
208 /* DROP ANY INDEXTYPE */
                                ))))
OR (o.type# = 33                                /* operator
*/
      AND EXISTS (SELECT      NULL
                    FROM        v$enabledprivs

```

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```

WHERE      priv_number IN (-200 /* CREATE
OPERATOR */
                                           , -201 /*
CREATE ANY OPERATOR */
                                           , -202 /*
ALTER ANY OPERATOR */
                                           , -
203 /* DROP ANY OPERATOR */
, -204 /* EXECUTE OPERATOR */
)))
OR (o.type# = 44                                /* context
*/
    AND EXISTS (SELECT NULL
                  FROM   v$enabledprivs
                  WHERE  priv_number IN (-222 /* CREATE ANY
CONTEXT */
                                           , -223 /* DROP
ANY CONTEXT */
                                           )))
OR (o.type# = 48                                /* resource consumer group
*/
    AND EXISTS (SELECT NULL
                  FROM   v$enabledprivs
                  WHERE  priv_number IN (12) /* switch
consumer group privilege */
                                           ))
OR (o.type# = 46                                /* rule set
*/
    AND EXISTS
      (SELECT NULL
        FROM   v$enabledprivs
        WHERE  priv_number IN (-251, /* create any rule
set */
                                -252, /* alter any
rule set */
                                -253, /* drop
any rule set */
                                -254 /*
execute any rule set */
                                )))
OR (o.type# = 55                                /* XML schema
*/
    AND 1 =
      (SELECT                                           /*+ NO_MERGE
xml_schema_name_present.is_schema_present (
o.name,
```

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```

                                u2.id2
                                )
                                id1
                                FROM (SELECT                                /*+ NO_MERGE
*/
                                USERENV ('SCHEMAID') id2
                                FROM DUAL) u2) /* we need a sub-
query instead of the directy invoking
xml_schema_name_present, because inside a view even the function
* arguments are
evaluated as definers rights.
*/
                                )
                                OR (o.type# = 59                                /* rule
*/
                                AND EXISTS
                                (SELECT NULL
                                FROM v$enabledprivs
                                WHERE priv_number IN (-258, /* create any rule
*/
                                -259, /* alter any
rule */
                                -260, /* drop
any rule */
                                -261 /*
execute any rule */
                                )))
                                OR (o.type# = 62                                /* evaluation context
*/
                                AND EXISTS
                                (SELECT NULL
                                FROM v$enabledprivs
                                WHERE priv_number IN (-246, /* create any
evaluation context */
                                -247, /* alter any
evaluation context */
                                -248, /* drop
any evaluation context */
                                -249 /*
execute any evaluation context */
                                )))
                                OR (o.type# IN (66, 100) /* scheduler job or file watcher
*/
                                AND EXISTS (SELECT NULL
                                FROM v$enabledprivs
                                WHERE priv_number = -265 /* create any
job */
                                ))

```





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**Owner:** IS Quality and Compliance Director


Release #: N/A

**Controlled Location:** Duluth, Georgia, USA

```

WHERE priv_number IN (-282 /* CREATE ANY
ASSEMBLY */
, -283 /* ALTER
ANY ASSEMBLY */
, -284 /*
DROP ANY ASSEMBLY */
, -
285 /* EXECUTE ANY ASSEMBLY */
)))
OR (o.type# = 92 /* cube dimension
*/
AND EXISTS
(SELECT NULL
FROM v$enabledprivs
WHERE priv_number IN
(-302, /* ALTER ANY PRIMARY
-303, /* CREATE ANY PRIMARY
-304, /* DELETE ANY PRIMARY
-305, /* DROP ANY PRIMARY
-306, /* INSERT ANY PRIMARY
-307 /* SELECT ANY PRIMARY
)))
OR (o.type# = 93 /* cube
*/
AND (o.obj# IN
(SELECT obj# /* directly granted privileges
*/
FROM sys.objauth$
WHERE grantee# IN
(SELECT kzsrorol
FROM x$kzsro))
OR (EXISTS
(SELECT NULL
FROM v$enabledprivs
WHERE priv_number IN
(-309, /* ALTER ANY CUBE
-310, /* CREATE ANY CUBE
-311, /* DROP ANY CUBE


```

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```

                                                                    -312,  /* SELECT ANY CUBE
*/
                                                                    -313  /* UPDATE ANY CUBE
*/
                                                                    ))))
AND      /* require access to all Dimensions of the Cube
*/
(1 =
  (SELECT  DECODE (have_all_dim_access,
                  NULL, 1,
                  have_all_dim_access)
    FROM    ( SELECT  obj#,
                    MIN (have_dim_access)
                  have_all_dim_access
              FROM    (SELECT  c.obj# obj#,
                              (CASE
                                WHEN
(do.owner# IN
(USERENV('SCHEMAID'),
1) /* public objects */
                                                                    OR
do.obj# IN
(SELECT  obj# /* directly granted privileges */
FROM    sys.objauth$
WHERE    grantee# IN
(SELECT  kzsrorol
FROM    x$kzsro))
                                                                    OR /*
user has system privileges */
(EXISTS
(SELECT  NULL
FROM    v$enabledprivs
WHERE    priv_number IN
(-302, /* ALTER ANY PRIMARY DIMENSION */
-303, /* CREATE ANY PRIMARY DIMENSION */

```

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```

-304, /* DELETE ANY PRIMARY DIMENSION */

-305, /* DROP ANY PRIMARY DIMENSION */

-306, /* INSERT ANY PRIMARY DIMENSION */

-307 /* SELECT ANY PRIMARY DIMENSION */

)))

                                THEN
                                  1
                                ELSE
                                  0
                                END)

have_dim_access

                                FROM   olap_cubes$ c,

olap_dimensionality$ diml,

olap_cube_dimensions$ dim,

                                obj$ do
WHERE   do.obj# =

                                AND

                                1 /* CUBE

                                AND

                                c.obj#

                                AND

                                11 /*

                                AND


                                do.obj#)

                                GROUP BY   obj#) da
                                WHERE   o.obj# = da.obj#(+)))
OR (o.type# = 94 /* measure folder

                                AND EXISTS
                                (SELECT NULL
                                 FROM   v$enabledprivs
                                 WHERE  priv_number IN (-315, /* CREATE ANY
MEASURE FOLDER */

```




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```

                                                                    -316, /* DELETE ANY
MEASURE FOLDER */
                                                                    -317, /* DROP
ANY MEASURE FOLDER */
                                                                    -318 /*
INSERT ANY MEASURE FOLDER */
                                                                    )))
OR (o.type# = 95                                     /* cube build process
*/
        AND EXISTS (SELECT NULL
                      FROM   v$enabledprivs
                      WHERE  priv_number IN (-320, /* CREATE ANY
BUILD PROCESS */
                                                                    -321, /* DROP
ANY BUILD PROCESS */
                                                                    -322 /*
UPDATE ANY BUILD PROCESS */
                                                                    ))));
COMMENT ON TABLE SYS.ALL_OBJECTS IS 'Objects accessible to the user';
COMMENT ON COLUMN SYS.ALL_OBJECTS.OWNER IS 'Username of the owner of the
object';
COMMENT ON COLUMN SYS.ALL_OBJECTS.OBJECT_NAME IS 'Name of the object';
COMMENT ON COLUMN SYS.ALL_OBJECTS.SUBOBJECT_NAME IS 'Name of the sub-object
(for example, partition)';
COMMENT ON COLUMN SYS.ALL_OBJECTS.OBJECT_ID IS 'Object number of the object';
COMMENT ON COLUMN SYS.ALL_OBJECTS.DATA_OBJECT_ID IS 'Object number of the
segment which contains the object';
COMMENT ON COLUMN SYS.ALL_OBJECTS.OBJECT_TYPE IS 'Type of the object';
COMMENT ON COLUMN SYS.ALL_OBJECTS.CREATED IS 'Timestamp for the creation of
the object';
COMMENT ON COLUMN SYS.ALL_OBJECTS.LAST_DDL_TIME IS 'Timestamp for the last
DDL change (including GRANT and REVOKE) to the object';
COMMENT ON COLUMN SYS.ALL_OBJECTS.TIMESTAMP IS 'Timestamp for the
specification of the object';
COMMENT ON COLUMN SYS.ALL_OBJECTS.STATUS IS 'Status of the object';
COMMENT ON COLUMN SYS.ALL_OBJECTS.TEMPORARY IS 'Can the current session only
see data that it placed in this object itself?';

```

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COMMENT ON COLUMN SYS.ALL\_OBJECTS.GENERATED IS 'Was the name of this object system generated?';

COMMENT ON COLUMN SYS.ALL\_OBJECTS.SECONDARY IS 'Is this a secondary object created as part of icreate for domain indexes?';

COMMENT ON COLUMN SYS.ALL\_OBJECTS.NAMESPACE IS 'Namespace for the object';

COMMENT ON COLUMN SYS.ALL\_OBJECTS.EDITION\_NAME IS 'Name of the edition in which the object is actual';

DROP PUBLIC SYNONYM ALL\_OBJECTS;


CREATE PUBLIC SYNONYM ALL\_OBJECTS FOR SYS.ALL\_OBJECTS;

GRANT SELECT ON SYS.ALL\_OBJECTS TO APPS;

GRANT SELECT ON SYS.ALL\_OBJECTS TO EM\_OAM\_MONITOR\_ROLE;

GRANT SELECT ON SYS.ALL\_OBJECTS TO PUBLIC WITH GRANT OPTION;

GRANT SELECT ON SYS.ALL\_OBJECTS TO SYSTEM WITH GRANT OPTION;

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### 2.5.5 ALL\_SYNONYMS

Columns:


Column Name	ID	Data Type	Null?
OWNER	1	VARCHAR2 (30 Byte)	Y
SYNONYM_NAME	2	VARCHAR2 (30 Byte)	Y
TABLE_OWNER	3	VARCHAR2 (30 Byte)	Y
TABLE_NAME	4	VARCHAR2 (30 Byte)	Y
DB_LINK	5	VARCHAR2 (128 Byte)	Y

Pseudo Code:

```
DROP VIEW SYS.ALL_SYNONYMS;
```

```
CREATE OR REPLACE FORCE VIEW SYS.ALL_SYNONYMS
```

```
(
  OWNER,
  SYNONYM_NAME,
  TABLE_OWNER,
  TABLE_NAME,
  DB_LINK
)
AS
  SELECT    u.name,
            o.name,
            s.owner,
            s.name,
            s.node
  FROM      sys.user$ u, sys.syn$ s, sys."_CURRENT_EDITION_OBJ" o
 WHERE     o.obj# = s.obj# AND o.type# = 5 AND o.owner# = u.user#
          AND (o.owner# IN (USERENV ('SCHEMAID'), 1) /* PUBLIC
          ) /* user's private, any
public */
          OR /* local object, and user has system privileges
          */
          (s.node IS NULL /* don't know accessibility if syn is for
db link */
          AND EXISTS (SELECT NULL
                      FROM   v$enabledprivs
                      WHERE  priv_number IN (-45 /* LOCK ANY
TABLE */
                      , -47 /* SELECT
ANY TABLE */
                      , -48 /*
INSERT ANY TABLE */
```

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```

, -49
/* UPDATE ANY TABLE */

-50 /* DELETE ANY TABLE */

)))
OR /* user has any privs on base object in local database
*/
EXISTS
    (SELECT NULL
     FROM sys.objauth$ ba,
          sys."_CURRENT_EDITION_OBJ" bo,
          sys.user$ bu
     WHERE s.node IS NULL /* don't know
accessibility if syn for db link */
          AND bu.name = s.owner
          AND bo.name = s.name
          AND bu.user# = bo.owner#
          AND ba.obj# = bo.obj#
          AND (ba.grantee# IN
                (SELECT kzsrorol FROM x$kzsro)
               OR ba.grantor# = USERENV ('SCHEMAID'))))

UNION
SELECT st.syn_owner,
       st.syn_name,
       st.base_syn_owner,
       st.base_syn_name,
       st.syn_node
     FROM sys."_ALL_SYNONYMS_TREE" st;
COMMENT ON TABLE SYS.ALL_SYNONYMS IS 'All synonyms for base objects
accessible to the user and session';

COMMENT ON COLUMN SYS.ALL_SYNONYMS.OWNER IS 'Owner of the synonym';

COMMENT ON COLUMN SYS.ALL_SYNONYMS.SYNONYM_NAME IS 'Name of the synonym';

COMMENT ON COLUMN SYS.ALL_SYNONYMS.TABLE_OWNER IS 'Owner of the object
referenced by the synonym';


COMMENT ON COLUMN SYS.ALL_SYNONYMS.TABLE_NAME IS 'Name of the object
referenced by the synonym';

COMMENT ON COLUMN SYS.ALL_SYNONYMS.DB_LINK IS 'Name of the database link
referenced in a remote synonym';

DROP PUBLIC SYNONYM ALL_SYNONYMS;

CREATE PUBLIC SYNONYM ALL_SYNONYMS FOR SYS.ALL_SYNONYMS;

```

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GRANT SELECT ON SYS.ALL\_SYNONYMS TO PUBLIC WITH GRANT OPTION;

## 2.6 Validation Logic

- Error Conditions  
There is no error handling or validation within the Oracle ERP System for this interface.
- Warning Conditions  
N/A

## 2.7 Restart Procedures

UPS World Ship program will handle any restart process, if needed.

## 2.8 Incompatibilities

N/A

## 2.9 New/Updated Seed Data

N/A

## 2.10 Grant/Synonyms


Owner	Object	Grantees
APPS	MER_UPS_VIEW	UPS
(none)	XXOTC_SHIPPING_TRACK_INF_UPS_V	(none)
(none)	MER_UPS_VIEW_UPS_V	(none)
SYS	ALL_OBJECTS	PUBLIC, SYSTEM
SYS	ALL_SYNONYMSALL_SYNONYMS	PUBLIC

## 2.11 Archiving/Purge Criteria


N/A

## 2.12 Table, Indexes and Sequences

XXOTC.XXOTC\_SHIPPING\_TRACKING\_INFO\_T  
Columns:

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XXOTC\_SHIPPING\_TRACKING\_INFO\_T: Created: 10/2/2008 7:00:22 PM Last DDL: 1/17/2012 5:51:16 AM

Columns	Indexes	Constraints	Triggers	Data	Script	Grants	Synonyms	Partitions	Subpartitions	Stats/Size	Referential	Used By	Policies
													
Column Name	ID	Pk	Null?	Data Type	Default	Histogram	Encryption Alg	Salt					
SENDER_ID	1		Y	VARCHAR2 (15 Byte)		None		<input type="checkbox"/>					
ORDER_NUMBER	2		Y	NUMBER		None		<input type="checkbox"/>					
SUBINVENTORY	3		Y	VARCHAR2 (10 Byte)		None		<input type="checkbox"/>					
PACKAGE_NUMBER	4		Y	NUMBER (20)		None		<input type="checkbox"/>					
LINE_NUMBER	5		Y	NUMBER (20)		None		<input type="checkbox"/>					
PACKAGE_QUANTITY	6		Y	NUMBER		None		<input type="checkbox"/>					
PACKAGE_WEIGHT	7		Y	NUMBER (15,2)		None		<input type="checkbox"/>					
FREIGHT_COST_ID	8		Y	NUMBER		None		<input type="checkbox"/>					
TRACKING_NUMBER	9		Y	VARCHAR2 (45 Byte)		None		<input type="checkbox"/>					
DELIVERY_DETAIL_ID	10		Y	NUMBER (35)		None		<input type="checkbox"/>					
DELIVERY_ID	11		Y	NUMBER (25)		None		<input type="checkbox"/>					
TRACK_INFO_ID	12		Y	NUMBER (35)		None		<input type="checkbox"/>					
PACKAGE_WEIGHT_UOM	13		Y	VARCHAR2 (30 Byte)		None		<input type="checkbox"/>					
SHIPPING_CARRIER	14		Y	VARCHAR2 (30 Byte)		None		<input type="checkbox"/>					
SHIPMENT_DETAIL_ID	15		Y	NUMBER		None		<input type="checkbox"/>					
CREATED_BY	16		Y	NUMBER (20)		None		<input type="checkbox"/>					
CREATION_DATE	17		Y	DATE	SYSDATE	None		<input type="checkbox"/>					
LAST_UPDATED_BY	18		Y	NUMBER (20)		None		<input type="checkbox"/>					
LAST_UPDATE_DATE	19		Y	DATE	SYSDATE	None		<input type="checkbox"/>					
LAST_UPDATE_LOGIN	20		Y	NUMBER (20)		None		<input type="checkbox"/>					

## 2.13 Flat File/Table Layout


COLUMN NAME	DATATYPE
N/A	

## 3.0 BUSINESS DATA MAPPING

### 3.1 Coding Summary

- Program Files  
The files required for this customization are as follows:

File	Description	Coded By
APPS.MER_UPS_VIEW.sql	SQL file to create or Replace the Custom View and give grants to the UPS schema	Nirmal Khakre - Deloitte
UPS.MER_UPS_VIEW_UPS_V		z_Oracle ERP DBAs

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File	Description	Coded By
UPS.XXOTC_SHIPPING_TRA CK_INF_UPS_V		z_Oracle ERP DBAs
SYS.ALL_OBJECTS		z_Oracle ERP DBAs
SYS.ALL_SYNONYMS		z_Oracle ERP DBAs

#### 4.0 **SECURITY**

N/A

#### 5.0 **INSTALLATION REQUIREMENTS**

For the installation requirements/instructions, please refer to the steps detailed within STAT CSR # 219


#### 6.0 **UNIT/LINK TEST SCENARIO**

The following test scenarios exist :

1. Create an Order in Oracle and.
  - Ship Confirm the deliveries, the order information and the delivery information should be populated in the view.
  - Do not Ship Confirm the deliveries, these records should not get populated in the view.
  - Ship Confirm the order where shipped quantity is 0, this record should not get populated into the view.
2. Query the view, Check no deliveries exist which are more than 180 days old.
3. The phone number should all be active.

#### 7.0 **OPEN ISSUES**

ID	Issue	Resolution	Responsibility	Target Date	Impact Date

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## 8.0 CLOSED ISSUES

ID	Issue	Resolution	Responsibility	Target Date	Impact Date