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Business Process Transformation
Interface
Functional Design Specification for IN-266
FedEx Athens Interface



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SIGNATURE PAGE

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

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

Avra Gilleland, Customer Care, Process Improvement	Date
Karen Mercer, Manager Excellence of Operations	Date
Greg Sippel, OCC OTC Global Process Lead	Date
Kathy Jones, OCC PTM Global Process Lead	Date
Stephanie Price-David, IS OA and Compliance	 Date



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1.0 INTERFACE DESCRIPTION

Merial's Athens Distribution Center (DC) utilizes a Federal Express (a.k.a. FedEx) Ship Manager software interface program to extract shipment (delivery) information from the Oracle eBusiness Suite and send the delivery information to the FedEx Server via the internet. Effective April 2, 2012, FedEx has been chosen as the primary parcel provider for Merial and will be used to process shipments in the Athens DC for VRG, Samples, Frontline Consumer Satisfaction and other types of shipments. The FedEx Shipping Manager software will be connected to the Oracle eBusiness Suite through the Oracle database via an ODBC connection. This document covers the data content which will be transmitted to and from the FedEx Server.

The FedEx Ship Manager software package is its own application with its own VBA code that runs on a Microsoft (MS) Windows based workstation which is connected to the Merial network. A bar code scanner is used for scanning the 'ship-confirmed' delivery ID from the package label. Upon scanning the package label, the Ship Manager software program will extract delivery information like customer name, address, ship method code, shipping instructions and other data from the Oracle ERP Database tables. Custom views will be created to support the insertion and extraction of this information. After processing of the shipment within the Ship Manager software concludes, the associated tracking information for that shipment will be exported by inserting data back to the Oracle ERP System. This tracking information will be used by the Customer Care team to support tracking of shipments from the Athens DC. A custom table will be created within the Oracle ERP Database to store shipment tracking related information such as tracking number, package weight, delivery id and carrier shipping method.

2.0 BASIC BUSINESS NEEDS

The Merial Athens DC will utilize the FedEx Ship Manager software interface to meet the following business needs:

- Send shipment and order header information to FedEx from Oracle for those shipments which are fulfilled out of the Athens DC
- Exports tracking number, package weight, delivery id and carrier shipping method for the shipments processed by the FedEx Ship Manager software back into the Oracle ERP system



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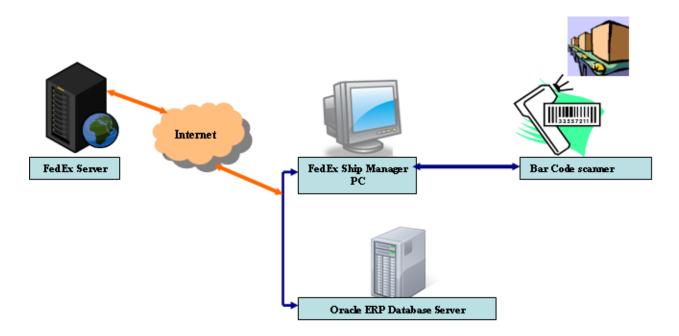
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3.0 <u>DESIGN DETAILS</u>

High level view of the current and future state System



FedEx Ship Manager software runs on a FedEx-owned desktop PC. The bar code scanner is physically connected to the PC. Other than version updates, there will be no configuration changes on the PC or Ship Manager software. The Ship Manager software is connected to Oracle ERP database via an ODBC connection. ODBC connection settings on Ship Manager software has been created to connect to the R12 database tables using three custom Merial views, one Merial custom table and updated generic Oracle views designed to work with the 10g or higher Oracle database version with the Oracle ODBC Driver.

4.0 PROCESS FLOW

There will be no change to the process flow for processing shipments in the Athens DC.



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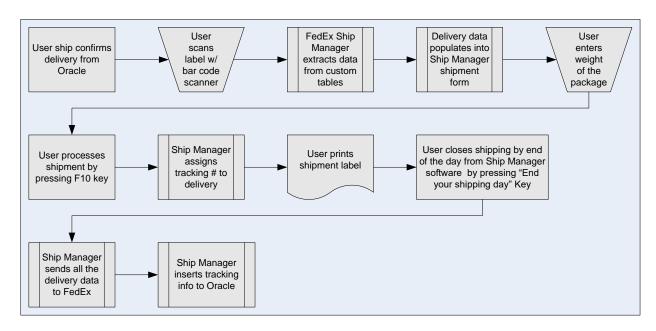
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Current and Future State Process Flow Diagram





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Process Flow Narrative

1. User ship confirms delivery within Oracle Shipping Execution Application.

- 2. User scans delivery_id from delivery label (a.k.a. pick ticket) with a bar code scanner that is attached to the FedEx Ship Manager software.
- 3. FedEx Ship Manager software extracts data from Oracle tables via keyed import (i.e. scanning or keying in the delivery_id).
- 4. Delivery data populates into FedEx Ship Manager software windows based shipment form.
- 5. User enters weight of the delivery package into FedEx Ship Manager 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.
- 7. FedEx Ship Manager software assigns tracking number(s) to the delivery. Tracking number(s)
- 8. The FedEx shipment label(s) print from the FedEx Ship Manager software.
- 9. After each shipment, data is inserted (new record created) into the Oracle table each time a package or packages are shipped. When the user is done shipping for the day, user will close out the FedEx system using the 'end your shipping day' button. When the FedEx system is closed, that days shipping information is uploaded to FedEx.

5.0 **BUSINESS RULES**

o The Oracle delivery needs to be ship confirmed for the interface to work.

6.0 **ASSUMPTIONS**

- Oracle Order Management (OM) defaulting rule or routing functionality will populate ship method for all the deliveries. If neither of this functionality populates the Ship Method, the Customer Care User will manually populate this value.
- Any change in ship method will be done in Oracle.



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• Customer address standardization has been performed for Ship To location on Athens DC shipment. This assumes that address standardization has been performed when Customer Ship To location was defined and for any updates which are performed to the address.

- If an attempt is made to manifest a delivery that is not ship confirmed, an
 error message should appear within the FedEx Ship Manager software
 indicating "Delivery ID____ not found. Please verify entered correctly and
 ship confirmed". This error message indicates that the delivery_id is not ship
 confirmed in Oracle.
- FedEx Ship Manager data extraction, import and export maps have been created to recognize the Oracle custom Views and Table. This includes the correct field level mappings have been put in place within each of the FedEx Ship Manager maps.
- FedEx will provide ongoing support and maintenance of the hardware and Operating System which the FedEx Ship Manager software runs on FedExowned PC. This includes hardware failures, Operating System updates, etc.
- ODBC Drivers for connecting to Oracle 10g or higher database have been created within the FedEx Ship Manager software.
- A unique Oracle Database user id (schema) has been created to allow access for extracting and importing data to Oracle. The schema name is 'FEDEX'.

7.0 SCHEDULING OR TRIGGERING EVENT

Inbound Shipment information imported into FedEx Ship Manager software:

This interface will run when the Athens DC shipper scans a delivery label utilizing the bar code scanner attached to the FedEx Ship Manager machine. The Delivery ID is scanned and entered into the lookup box on the screen. This will be performed several times a day.

Outbound Tracking information exported from FedEx Ship Manager software to Oracle ERP and to FedEx:

This interface runs once a day. FedEx Ship Manager software has the option of scheduling the shipping update. User initiates the transmission after each shipment is processed.

8.0 AUTHORIZATION TO SUBMIT/SCHEDULE



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The Athens DC shipper(s) will have the access to the PC which runs the FedEx Ship Manager program. No Oracle responsibility is required to initiate the interface. Only the ODBC connectivity is required to initiate service.

9.0 SCHEMA SECURITY - ODBC CONNECTIVITY

During creation of the FedEx Athens interface, the DSN Oracle password was initially requested so that it could be hard-coded in the FedEx program. However, DSN Oracle passwords are known and managed only by the DBA team. Therefore, a request was made by the Merial DBA team to develop a solution where the password was protected but still allowed DBAs to update passwords without interrupting the interface. So to avoid potential SOX compliance issues, an access database file (/accdb) has been created for the 'FEDEX' schema password protection (fdx). The file is also encrypted. The FedEx program will access this file to get the Oracle ODBC (DSN) password. This file can be stored on the local FedEx system or a mapped drive. However, when the DSN Oracle password is updated, the DBA team must also access the FedEx computer (remotely or on site) and change the password in the FedEx Ship Manager software as well. The password file can be changed by using the keypad (ATL F12) when the software is running. Attached is a screenshot of the password form that will appear. If this step is not completed, the FedEx Ship Manager will not properly interface and services for Athens will be interrupted

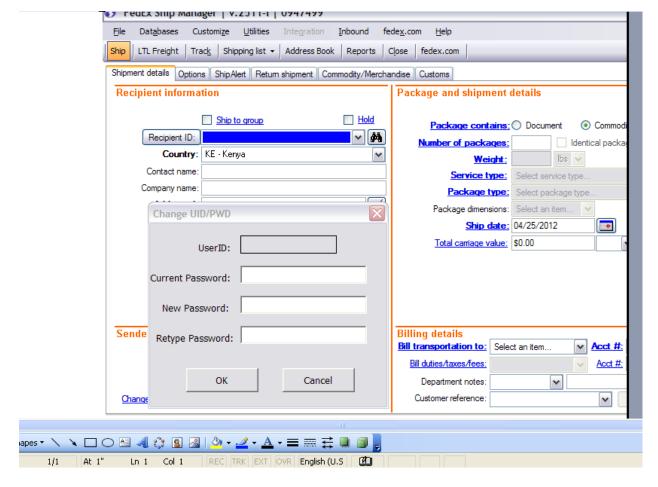


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10.0 USER PROCEDURES

FedEx Ship Manager software has a user guide. There is no special user procedure for the interface since all the data transmissions happen in the background.

11.0 LAUNCH PARAMETERS

There are no launch parameters. FedEx Ship Manager software is GUI based.

12.0 LOG OUTPUT

There is no log file that will be stored within the Oracle ERP database.

13.0 ERROR HANDLING AND PRE VALIDATION



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The FedEx Ship Manager program will display the appropriate error message on the screen. This process will be performed for any system related error which occurs during the import of shipment information or extract of tracking information. There is no error handling or validation within the Oracle ERP System for this interface.

14.0 NOTIFICATIONS

Upon success/error completion of the interface, contact the following personnel:

Charles Davis	Manager Inventory Control & Athens Distribution (Business support)	(phone/fax/email) 706-552-2202 Charles.Davis@Merial.com
Letitia Sims	OCC PTM Analyst (technical support and author of version 2)	(phone/fax/email) 678-638-3908 Letitia.Sims@Merial.com

15.0 RESTART PROCEDURES

FedEx Ship Manager program will handle any restart process, if needed.

16.0 DATA LAYOUT

The following charts list the fields to be included in the interface. These charts indicate the data element, a description of the data element, the business logic for that element (including if the field is required and any extraction or import logic necessary to successfully interface the data), and whether or not the field is required (Yes or No) from a business perspective.

Test Data preparation if any:

Outbound from <Oracle> Applications to FedEx MER_FEDEX_VIEW_FEDEX_V view

Data Element	Description	Business Logic	Required?
State	Ship to State	State/Province/County	Υ
Source_Header_ Number	Reference 4 for FEDEX	Delivery Details Source header ID from Oracle	Υ
Ship_To_ID Attention for Ship to Org Ic Oracle		Ship to Org Id from Oracle	Υ



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Ship_Method_C ode	Service Type for FEDEX	Ship method	Υ
Postal_Code	Ship to Postal code		Υ
Order_Number	Reference 2 for FEDEX	Oracle Order Number	Υ
Delivery_ID	Primary Key: Reference 1 for FEDEX	Delivery Number	Υ
Customer_Nam e	Customer Name		Υ
Customer_ID	Customer Number		Υ
Country	Ship To Country		Υ
City	Ship To City		Υ
Atrribute1	Customer Phone Number		Υ
Address3	Ship To Room/Floor		Y
Address2	Ship To Department		Υ
Address1	Ship To Street Address		Υ
Sender_ID	Orgin ID	Key which designates Athens package data back to Merial Tracking Information Inquiry Screen for Customer Care usage	Υ

Inbound to <Oracle> Applications from UPS XXOTC_SHIPPING_TRK_INF_FEDEX_V View

Data Element	Description	Business Logic	Required?
Freight_Cost_ID	Published Charge (3)		Υ
Package Weight	Weight		Υ
Tracking Number	Tracking		Υ



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	Number		
Order Number	Reference 2 for FEDEX		Υ
Delivery_ID	Reference 1 for FEDEX		Υ
Sender_ID	Reference 3 for FEDEX	Key which designates Athens package data back to Merial Tracking Information Inquiry Screen for Customer Care usage	Υ

MER_FEDEX_VIEW

Data Element	Description	Business Logic	Required?
Delivery_ID			Υ
Customer_Name			Υ
Address_ID			Υ
Customer_ID			Υ
Country			Υ
Address1			Υ
Address2			Υ
Address3			Υ
Attribute1			Υ
City			Υ
State			Υ
Postal_Code			Υ
Order_Number			Υ
Ship_To_ID			Υ
Ship_Method_Cod e			Y



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Source_Header_N umber		Υ
Sender_ID		Υ

17.0 VALIDATION

- Verify "Ship To" data and customer information are populated correctly on FedEx Ship Manager GUI form after scanning the delivery id label. The "Ship To" information should match that found in the Oracle Sales Order for the Order Number provided.
- Verify tracking number was exported from FedEx Ship Manager and inserted into the custom table for the shipment(s) processed
- Verify the tracking information appears within the Oracle custom form "Merial Tracking Information Inquiry". This includes that the information is accurate.
- Verify the tracking number on FedEx website

18.0 EXTERNAL CONTACT INFORMATION

(name)- FedEx Technical Support (company) (FTP) (URL)	(phone) 1-877-339-2774 (email) (ID/Pass) meter # 0756783 (notes)
(name)	(phone)
(company)	(email)
(FTP)	(ID/Pass)
(URL)	(notes)
(name)	(phone)
(company)	(email)
(FTP)	(ID/Pass)
(URL)	(notes)



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19.0 OPEN ISSUES

ID	Issue	Resolution	Responsibility	Target Date	Impact Date

20.0 CLOSED ISSUES

ID	Issue	Resolution	Responsibility	Target Date	Impact Date