

246306

Aptean Ltd
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2 246306-NW-7BCMAT Booking EDI to inc Customer

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3 FUNCTIONAL OVERVIEW

3.1 Client Requirement

Associate the Customer with Booking records so that when Orders are created from Bookings the Customer is taken from the original record rather than from the ORD_DEFAULT_CUST system parameter. This change would need to be made to any interfaces, the Bookings Import and also the Manual Entry mechanism, for all of these it should be possible to enter the Customer but not mandatory with a blank value defaulting to the system parameter value.

To future proof this it would probably make sense to add the Cost Centre in the same way.

3.2 Solution

These enhancements are required to improve the bookings transaction capture and to optionally allow the customer (and cost centre) to be defined at source. Currently this information is derived as TIs are generated.

Nick has requested that the changes are applied to the current booking function in use for Dixons (which itself formed the basis of the Proof of Concept database) and released to this POC system to support the next stage of MTS evaluation with Portugal.

Functional areas of change are;

- Booking EDI flow to include customer and cost centre extra columns, validation and interface errors tab - values to default if not provided from master data.
- Booking form to allow customer and cost centre insert, amend and display and associated searches and lookups to be modified to include these fields
- TI generation process to use customer and cost centre values from booking.
- Booking Import function to be extended to capture customer and cost centre from csv file.

3.3 Scope

This change will be applied to system version 10.6.

3.4 Data

New Booking Type tab on Static Data Maintenance needs adding to ADM_FORM_TAB where it can then be promoted to the appropriate ADM_GROUP_FORM_TAB records. New fields Customer and Cost Centre need adding to IMP_FIELD table for promotion to IMP_FIELD_SOURCE where required for import type of Bookings. New system wide parameter settings for ?BKG_DEF_CUST? and ?BKG_DEF_COST? need to be defined for when these details are not provided elsewhere.



4 FUNCTIONAL DESCRIPTION

4.1 EDI Changes

4.1.1 New Booking Type Screen

A new tab called Booking Type tab will be added to the Static Data Maint form which is similar to the Order Type tab (see below).

The screenshot shows the Oracle Static Data Maintenance form, specifically the 'Order Type' tab. The form has a menu bar with 'Action', 'MTS Modules', 'Administration', 'Edit', 'Help', and 'Window'. The title bar says 'Static Data Maintenance'. The main area contains a list of order types with checkboxes for 'Send Ack'. The 'BAKEMARK ORDER' is highlighted. Below the list are buttons for 'New', 'Delete', 'Cancel', 'Save', and 'Close'. The status bar at the bottom right says 'STATIC DATA MAINT v1.5' and 'MTS v10.5.0'.

Order Type	Send Ack
BAKEMARK ORDER	<input checked="" type="checkbox"/>
BM_ORD_OUT	<input type="checkbox"/>
GK_ORDER	<input type="checkbox"/>
Jeyes_ORDER	<input type="checkbox"/>
LaDoria_ORDER	<input type="checkbox"/>
Premier_ORDER	<input type="checkbox"/>
SILVERSPN ORDER	<input type="checkbox"/>
TESTIN_MSG	<input type="checkbox"/>

As well as having the new Booking Type (currently ?DXN_BOOKING?) it will also have a few extra fields. Decode Name is currently ?DSG? and is passed through to package IMP.DECODE_VALUE to determine any translations that need applying on provided location fields. Default Product Type is to override the system wide parameter ?DSG_DEF_PRD_TYPE? which is currently used. Default DU Type is to override the system wide parameter ?DSG_DEF_DU_TYPE? which is currently used. Default Cost Centre and default Customer (both optional) to override the currently used system wide defaults within create TI?s. Only to be used if not provided in the detail file.

An example of the configuration is shown below :-

Booking Type	Decode Name	Default Product Type	Default DU Type	Default Cost Center	Default Customer
DXN_BOOKING	DSG	ELECTRICAL	CUBE	EXEL	DSGCUST
PGL_BOOKING	POR	CHILLED	PALLET	N/A	N/A

N/A Are optional and can be left blank

4.1.2 Changes to INT_MSG Package (and related changes to BKG)

In the READ_BOOKING_DETAIL procedure :-

The Customer and Cost Centre will now be read from the detail section of the bookings EDI between <BOOKSTART> and <BOOKEND> as additional columns (9 and 10).

Currently in format :- From Location, To Location, Quantity, Delivery Date, Product Type, DU Type , Booking Reference and Trans Shipment Flag.



These new fields will be stored on INT_BOOKING_DETAIL in the new columns and if not provided then it will use the defaults from related INT_BKG_MSG_TYPE table. If neither have been set then it will use the system wide registry settings ?BKG_DEF_COST? and ?BKG_DEF_CUST? which must be setup.

These new fields will need to be passed through the BKG.APPLY_PROD_SUM, BKG.CREATE_PRODUCT_SUMMARY and BKG.CREATE_BOOKING procedures in order for the insert into SCH_BOOKING. These are already overloaded functions so we just need to overload them again for the extra 2 parameters.

Example of current DSG Booking :-

```
<RECEADSTART>DSGLV,DXN_BOOKINGS,1<RECEADEND>
<BOOKSTART>07099,02404,1.103,12-12-2099,RDCAA,,02404123456,N<BOOKEND> <EOF>
```

4.1.3 Changes to INT_ERROR Form

We will need to check Cost Centre and Customer fields on the INT_BOOKING_DETAIL to ensure that the user doing the query has access to these interface errors.

The new fields Cost Centre and Customer will need to be displayed in the detail section of the screen for the DSG Bookings Tab (which will be renamed just Bookings) :-

The screenshot shows the Oracle MTS Modules Administration interface. The 'DSG Bookings' tab is selected. The interface displays two tables. The top table, 'File Status', has columns: Interface Id, Status, # Bkgs, # Succ, # Fail, and Validation Error. The bottom table, 'Record Status', has columns: Rec No, Status, From Loc, To Loc, Qty, Del Date, Du Type, Product Type, Booking Ref, and Tranship Ind. Red arrows point from the 'Cost Centre' and 'Customer' labels at the bottom to the 'Validation Error' column of the 'File Status' table and the 'From Loc' column of the 'Record Status' table. A red box labeled 'Bookings' is also present at the bottom.

Note - It is assumed unlikely that a booking EDI message will contain mixed cost centre and customer information, some that the user has access to and some not.

4.2 Bookings Form



4.2.1 Booking Form Query

Additional selection criteria will be added to the top of the existing Bookings form for Customer and Cost Centre. If the user is only allowed access to a single Customer or Cost Centre then these fields will be automatically populated and they will not be allowed to change them.

This will allow the user to filter down the displayed Bookings by both Customer and also by Cost Centre.

The screenshot shows the Oracle Booking Order form. The top menu bar includes Action, MTS Modules, Administration, Edit, Help, and Window. The title bar says "Booking Order". The top right corner displays "BOOKINGS v2.17" and "MTS v10.5.0".

Annotations with red boxes and arrows highlight the following elements:

- Cost Centre:** A red box around the "Source" field with an arrow pointing to it.
- Customer:** A red box around the "Destination" field with an arrow pointing to it.
- Create TI's:** A red box around the "Create TI's" button in the top right.
- View Summ:** A red box around the "View Summ" button in the bottom right.
- New and Edit:** Red boxes around the "New" and "Edit" buttons in the bottom center.

The form includes various input fields for Sched (080219), Status, Delivery Priority, Source, Destination, Product Type, and Variance Filter. It also features a table with columns for Source, Destination, Del Date, Product Type, DU Type, Book Ref, Status, Sum, AS, Total, PQ, Total, VQ, Actual, and Var.

The ?View Summary? button will be used to show the new fields from SCH_BOOKING.

The ?View Summary? canvas will be used to show the two new fields Cost Centre and Customer from SCH_BOOKING in two additional columns :-



Currently the Edit button brings up the following canvas and this will need the new fields Cost Centre and Customer adding with appropriate validation.

The screenshot shows a software interface with a menu bar (Action, MTS Modules, Administration, Edit, Help, Window) and a toolbar. Below the toolbar is a 'Booking Order' section with navigation buttons. The main area displays the 'Edit Product Summary Record' dialog box. The dialog has a 'Basic' tab and contains the following fields:

- Source: LEONASH, ASHFORD_LEON JAEG (v)
- Destination: DELICALL, Call_Deli Ecosse_FK17 (v)
- Sched: 080218, Del. Date: 18/02/08
- Product Type: SPECIALS
- DU Type: WHITE PALLET
- Sum Qty: 1.000, Sum Adj Qty: 1.000
- Weight: 1.00
- Volume: 1.00000
- Booking Ref: Book Ref

Red annotations highlight the need for new fields:

- A red arrow points from the 'Cost Centre' label to the 'Destination' field.
- A red arrow points from the 'Customer' label to the 'Booking Ref' field.
- The 'Cost Centre' and 'Customer' labels are enclosed in red boxes.

The dialog also has 'OK' and 'Close' buttons at the bottom.

4.2.3 Generate TI?s

The ?Create TI?s? button on the Bookings form calls the procedure GEN_TI.CREATE_BOOKING_TI?s which will need changing to use the Customer and Cost Centre fields from the SCH_BOOKING table when creating new records on the SCH_ORD table rather than defaulting from system registry values as now.

4.3 Changes to IMPORT Functionality

The standing data to support the new fields will need adding to allow the new fields Customer and Cost Centre to be selected for inclusion on a Bookings format (see Data section above for details).

The IMP.PROCESS_BOOKINGS procedure will need changing to extract these fields from the csv if defined on appropriate format and provided in the file.

The process will then use these fields (if not provided then default to system wide registry settings ?BKG_DEF_COST? and ?BKG_DEF_CUST?) to pass through to the already changed procedure BKG.APPLY_PROD_SUM (see changes to BKG package in section above) for the creation of the booking.

A sample format for Bookings is :-

Action MTS Modules Administration Edit Help Window

IMPORTS_MAINT v1.13
MTS v10.5.0

Save Cancel Close

Config Decodes Decodes Audit Formulae

Format Name	Imp Type	Default Path	Dflt Filename	Record Id	Filename Fmt	Xfer Type	Ext	Max Uploads	Default Record Type
ASN_BOOKING_IMPO	BOOKINGS_	C:\temp\	ASN_Booking_Ii			ASCII		1	
BOOKING_IMPORT	BOOKING	C:\temp\	booking_import			ASCII		1	
Contract	CONTRACT	c:\TEMP\	Ausome.csv			ASCII		100	
DHLDonc_Order_Impr	TI_ORDER	c:\order import\	import.csv			ASCII		256	ORDER_AND_LIN
DHLDublin_Order_Impr	TI_ORDER	c:\order import\	import.csv			ASCII		256	ORDER_AND_LIN

Fixed/Delimited ☒ Delimiter

Add Delete

Record Type	Field Type	Source Type	Occ	Source Value	Prefix	Pad	Char	Default	Format
	SOURCE_ID	FIELD	0	1					
	DEST_ID	FIELD	0	2					
	SCHED_NAME	FIELD	0	3					
	PRODUCT	FIELD	0	4					
	DU_TYPE	FIELD	0	5					
	QUANTITY	FIELD	0	6					

Decode

The new fields Cost Centre and Customer will now be able to be entered as a Field Types against formats which have an Imp Type of ?Booking?.



5 References

Not Available



6 Document History

Version	Date	Status	Reason	Initials
1a	19/02/08	Draft	Initial version	DRM
1	21/02/08	Issued	Reviewed and Issued	DJM



7 Authorised By

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