

247174

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2 247147-NW-7CHEWZ Booking EDI to inc Weight and Special Instructions

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3 FUNCTIONAL OVERVIEW

3.1 Client Requirement

Add weight and special instructions to Booking Import function and Bookings Code.

Weight is currently held against a booking but cannot be imported. Weight should be added to both the import function and interface format. If a booking is split across multiple orders then the weight should be apportioned according to DU split. Special instructions should be added to the booking record and also the import and interface formats. The special instructions should be applied to all orders created from the booking record and subsequent orders treated in the same way - i.e. references highlighted to indicate special instructions exist

3.2 Solution

Weight The weight field is already available on the bookings form but when bookings / edi messages loaded, the weight field is set to zero. The import and EDI functions will be enhanced to accommodate weight (and suggest volume) values. Weight (and volume) will be set against the booking record. As TIs are generated, should multiple orders be created, the total weight will be distributed according to the split of DUs.

Special Instructions The booking database table (product summary) will be extended to accommodate a varchar(4000) field to store the special instructions. The product summary form will be enhanced to allow special instructions to be keyed, amended and viewed. The form dimensions will remain unchanged and scroll bars will enable navigation through larger text entries. The import and EDI load functions will be changed to accommodate a special instruction field. As TIs are generated, any special instructions on the booking will be copied to the special instructions field on the orders.

Functional areas of change are;

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

Volume Volume will be available to be loaded through EDI or through the CSV import as an optional field. If a value is passed into MTS, this value will be set in bookings and used in the TI generation (apportioned where necessary by DUs). MTS has an algorithm to derive a default volume automatically. This needs to be reviewed and remain an available function where volume is not specifically set in the bookings interfaces.

3.3 Scope

This change will be applied to system version 10.6.

3.4 Data

On the Imports_Maint form in order for the new Weight (and Volume?) and Special Instructions fields to be included as a Field Type on a new format or existing format for Imp Type of ?BOOKINGS? then they need adding to IMP_FIELD. They will then be able to be added to the format in the required position.



4 FUNCTIONAL DESCRIPTION

4.1 EDI ChangesChanges to INT_MSG Package (and related changes to BKG)

In the READ_BOOKING_DETAIL procedure :-

The Weight (and Volume?) and Special Instructions will now be read from the detail section of the bookings EDI between <BOOKSTART> and <BOOKEND> as additional columns (11 and 12).

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

These new fields will be stored on INT_BOOKING_DETAIL in the new columns.

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 :-

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

4.1.1 Changes to INT_ERROR Form

We will need to check weight (and Volume?) and special instructions fields on the INT_BOOKING_DETAIL to ensure that the user doing the query has access to these interface errors.

The new fields Weight (and Volume?) and special instructions will need to be displayed in the detail section of the screen for the DSG Bookings Tab:-

The screenshot shows the INT_ERROR form with the following components:

- Menu Bar:** Action, MTS Modules, Administration, Edit, Help, Window.
- Form Title:** Interface Errors.
- Navigation Buttons:** <<, <, >, >>, ?.., ?, Clr.
- Version Info:** INT_ERR v1.26, MTS v10.5.0.
- Tabs:** Orders, EMTS Orders, LOGNET messages, DSG Bookings (selected), DSG Trip Details, POD Details.
- Search Fields:** Sched, Msg Type, Customer, From Loc, To Loc, Search button.
- Table of Interface Errors:**

| Interface Id | Msg Type | Status | Cost Centre | Customer | From Loc | To Loc | Sched Date | Early Avail | Late Avail | Early |
|---------------|------------|---------|-------------|-------------|----------|----------|------------|----------------|----------------|----------|
| ROBTESTB.ROB | SILVERSPN | FAILURE | | SILVER SPOO | DHLHUNT | 2013633 | 18-02-2008 | 18/02/08 00:00 | 18/02/08 23:59 | 18/02/08 |
| ROBTESTA.ROB | SILVERSPN | FAILURE | | | | | | | | |
| ROBTEST.ROB_D | SILVERSPN | FAILURE | | | | | | | | |
| ROBTEST.ROB | SILVERSPN | FAILURE | | | | | | | | |
| MTS_JEYES_ORD | Jeyes_ORDI | FAILURE | | JEYES | DHLTHET | MORRBURT | 27-07-2007 | 26/07/07 22:00 | 26/07/07 23:59 | 27/07/07 |
| MTS_JEYES_ORD | Jeyes_ORDI | FAILURE | | JEYES | DHLTHET | MORRBURT | 27-07-2007 | 26/07/07 22:00 | 26/07/07 23:59 | 27/07/07 |
| MTS_JEYES_ORD | Jeyes_ORDI | FAILURE | | | | | | | | |
| MTS_JEYES_ORD | Jeyes_ORDI | FAILURE | | | | | | | | |
- Buttons:** Include Duplic..., Include Succes..., Re-Submit, ALL.
- Order Detail Validation Error:** Source System does not exist in MTS - SILVER SPOON.
- Table of Order Line Details:**

| Line No | Product Type | Du Type | Quantity | Qty In Cases | Weight | Cube |
|---------|--------------|-------------|----------|--------------|--------|------|
| 1 | AMBIENT | CHEP PALLET | .000 | 10 | 252.00 | |
- Order Line Validation Error:**
 - Weight** (highlighted in a red box)
 - Special Instruction** (highlighted in a red box)
- Buttons:** Close, Action.



4.2 Bookings Form

4.2.1 Bookings Form New / Edit

Currently the ?New? button brings up the following canvas which will need the Special Instructions field to be added. The weight (and Volume?) field already exists.

Insert Product Summary Record

Basic

Cost Centre

Customer

Source

Destination

Sched Del. Date

Product Type

DU Type

Sum Qty Sum Adj Qty

Weight

Volume

Booking Ref

Special Instructions

OK Close

Currently the Edit button brings up the following canvas and this will need the new field special Instructions adding with appropriate validation.

Edit Product Summary Record

Basic

Cost Centre

Customer

Source

Destination

Sched Del. Date

Product Type

DU Type

Sum Qty Sum Adj Qty

Weight

Volume

Booking Ref

Special Instructions

OK Close

4.2.2 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 Weight (and Volume?) and special instructions fields from the SCH_BOOKING table when creating new records on the SCH_ORD table.



In the situation where multiple TIs (orders) are generated from a booking, the weight (and volume?) will be apportioned in line with the DU apportionment (which is current functionality). Any special instructions from bookings will be carried forward to associated orders when generating TIs.

Where the generate TIs function currently generates multiple orders to satisfy X-dock routes, each of the orders will be created with weight (and volume?) and special instructions.

Changes to IMPORT Functionality The standing data to support the new fields will need adding to allow the new fields Weight (and Volume?) and special instructions 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 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 :-

The screenshot shows the 'Import Maintenance' window with the 'Config' tab selected. The 'Decodes' sub-tab is active, displaying a table of import formats. The 'BOOKING_IMPORT' format is highlighted in yellow. Below the table, the 'Fixed/Delimited' checkbox is checked, and the 'Delimiter' is set to a comma. The 'Add' and 'Delete' buttons are visible. Below the table, there is a 'Decode' field.

| 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:\templ | ASN_Booking_It | | | ASCII | | 1 | |
| BOOKING_IMPORT | BOOKING | C:\templ | booking_import | | | ASCII | | 1 | |
| Contract | CONTRACT | c:\TEMP\ | Ausome.csv | | | ASCII | | 100 | |
| DHLDonc_Order_Impt | TI_ORDER | c:\order import\ | import.csv | | | ASCII | | 256 | ORDER_AND_LIN |
| DHLDublin_Order_Impt | 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 | | | | | |
| | BOOKING_REF | FIELD | 0 | 9 | | | | | |
| | CUSTOMER | FIELD | 0 | 7 | | | | | |
| | COST_CENTRE | FIELD | 0 | 8 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Decode

The new fields Weight (and Volume?) and Special instructions 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 | 11/03/08 | Draft | Initial version | DNG |
| 1 | 11/03/08 | Issue | Review and Issue Version | DJM |
| 2 | 12/03/08 | Issue | X-dock note 3.2.2, volume note 1.2 | DJM |



7 Authorised By

| | |
|--------------------------|---------------------------|
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