DUNLOP – EDI

Created By	N.Belshaw / C. Lidgey
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EDI OVERVIEW

Dunlop require EDI files to be sent to their customers and suppliers using the Seeburger interface.
This document details how each of the documents required will be either sent from Priority or received & processed by Priority.

The interim median to handle the mapping will be managed by Seeburger.
Medatech are the Priority ERP software provider

At the current time the integrations required are:

Customer: Rivian.

- Rivian --> Dunlop
  - ORDERS – Sales Order
  - ORDCHG – Sales Order Change
  - DELFOR – Deliver Forecast – On Hold
  - DELJIT – Delivery Just in Time – On Hold

Same thing

- Dunlop --> Rivian
  - ORDRSP – Order Confirmation
  - DESADV – Despatch Advice
  - INVOIC – Sales Invoice

Supplier: Driv

- Dunlop --> Driv
  - DELFOR - Delivery Forecast – On Hold
  - DELJIT - Delivery Just In Time – On Hold
- Driv --> Dunlop
  - DESADV - Despatch Advice
  - INVOIC - Purchase Invoice

This document will detail how each of these is processed.

EDI CUSTOMER & SUPPLIER DEFINITIONS.

1. *Addition of a flag to the customer and supplier form.*
2. *This flag will be a new tick box that defines them as partaking in EDI.*
3. *A new sub level form in which the user can define the EDI transactions that this customer or supplier partakes in, only if a customer or supplier is flagged for these transactions will they be considered for any of the aforementioned procedures or processing. .*

FTP FILE HANDLING

INBOUND FILES:

Files should be placed by Seeburger into a folder per file type. (ORDERS, ORDCHG, DELFOR, DELJIT, DESADV, INVOIC)

The FTP module will download files from these locations, they will be placed into PRIORITY\system\edi*FILETYPE*\received

And once processed will be moved to: PRIORITY\system\edi\IN*FILETYPE*\processed

OUTBOUND FILES:

When Priority sends a new file, it will be placed into the folder per file type (DELFOR, DELJIT, ORDRSP, DESADV, INVOIC)

Seeburger will manage processing of these files once they are received.

Priority will also save a copy of the file to PRIORITY\system\edi\OUT*FILETYPE*\YY-MM\

INCOMING FROM RIVIAN (RIVIAN TO DUNLOP)

SALES ORDER (ORDERS) / SALES ORDER CHANGE (ORDCHG)

Two files could be sent by Seeburger, these files are, ORDERS and ORDCHG. ORDERS will be any new demand placed by Rivian, ORDCHG will be any amendments to existing orders, these changes can be things such as date changes or quantity changes.

A new Medatech procedure will check the file type folder every 15 minutes, if a file is found then Priority will download it as detailed below.

1. Either an Order and/or an Order change is received via EDI in the pre agreed location.
2. A check will be made that the customer is partaking in EDI, and if so the routine will continue. If not the file will be archived and emailed to the "EDIERROR" group.
3. If the due date of the order falls in the next calendar year and no yearly sales order is already opened then a new yearly sales order will be opened in the '**Sales Order**' form. If no numeration is defined for the next year then the processing of this file will end.. This must be fixed before any more EDI files for the following year can be processed. The '**Customer No.** will be filled out according to the file passed via EDI. The '**Date**' field will be defaulted to the first date of the year. This will generate a unique yearly '**Order No.**' If a yearly sales order is already opened a new line will be added to this sales order instead of a separate order being opened. A flag will be added to the sales order to define it as the "yearly" order, and it will not be possible to have more than one order flagged as a yearly order per customer.
4. The '**Order Items**' sub level will be populated as defined below :
    a. If this is a new order then the relevant Part number, and quantity required will be added to the '**Part Number**' ,'**Quantity**' and '**Cust PO**' fields. The '**Unit Price**' field will be automatically populated based pricing hierarchy built into Priority, therefore any prices passed by the EDI will not be used. Who's Part No? Think this should be cust part No
    b. If this is an amendment then the relevant changes will be made to the '**Part Number**' , '**Quantity**' or '**Due Date**' fields. If the customer no longer requires the part then the line will be marked as '**Closed**' in Priority
    c. When any change or addition is made to the sales order a new version will be saved automatically for variance reporting (Please see reporting section for more details)
5. The Due date per line item to be supplied from the EDI. The Week & year fields per line item in Priority will be auto calculated.
   Note: if the Week & Year is provided via EDI then the Due date will be calculated by Priority. If Week, Year and Due date is supplied then the Due Date will be used. (+/- days ?)
   The Due date is the despatch date from Dunlop on Priority and therefore delivery performance will be based on this.
6. Each individual line could be shipped to a different location so the standard site functionality will need to be moved from the header of the sales order to the sales order items level, this will allow each line to have a separate shipping address if required.
7. It has been defined that no changes can be made to any sales order line that is due to be despatched within 28 days. Medatech will create a new field on the '**Customer**' form that defines the cut off range for changes, this will default to 28 days but can be overwritten on a customer by customer basis.
8. When a schedule change is received, this will be place in an interim table where some automatic checks will take place, these checks will be
    a. Check Part exists
    b. If this is an amendment check that the due date does not fall within the cut off period defined for the customer
9. Once these checks have been passed the data will get loaded straight into sales order. The status of the order will get changed to '***EDI update***' or '***EDI error***'. If any errors were encountered in the interim table, then a report will be generated and information saved in the system and emailed to the EDIERROR group. All other lines will be loaded into sales order. Error items will not be loaded.

FIELDS FOR EDI IN SALES ORDER FORM;

Note: In both files (ORDERS, ORDCHG) we will expect the same information.

Top Level:

- Customer No: (This will be the number of the customer in the Dunlop system.) (CHAR 16)

Item level:

- Part Number, (The Dunlop part number). (CHAR 22)
- Quantity, (A shifted integer to 3 decimal places (e.g. 1 = 1000)) (INT, 17, 3)
- Site/Shipping address: (The code as defined in Dunlop system for that customer.) (CHAR 4)
- Cust's PO: (CHAR 25)
- Due date, In the format DD/MM/YY (will be the Dunlop despatch date) (DATE 8)
  OR
- Week, (WW) (will generate Due date*)
- Year, (YY) (will generate Due date*)
  OR
- Due Date, Week & Year; then Due date will be used per above.

Rivian have Diff ~~part No~~ Dunlop number, can we use Rivian part № ?

Rivian will order their number not ours !

DELIVERY FORECAST (DELFOR) / DELIVERY JUST IN TIME (DELJIT)

ON HOLD:

Further information is required from Rivian.

This will need to include follow up discussions between Dunlop, Seeburger and Medatech.

Delfor will be the Sales order schedule, ~~Deljit~~ usually week buckets.

Deljit is usually More detailed ie/ gives an exact day to reach supplier, this is typically for local supply or if we had control of shipping.

In this case Rivian are ex works the Deljits will be to there transport company, in my opinion.

OUTGOING TO RIVIAN (DUNLOP TO RIVIAN)

SALES ORDER CONFIRMATION (ORDRSP)

Sales Order Confirmation needs to be sent to Rivian after an EDI update has been carried out..

1. Dunlop will manually change the sales order status to *'**send EDI conf.**'* this will send the confirmation to the customer then after 5mins the Sales Order Status will automatically revert to *'**scheduled**'*. This will be controlled by BPM settings which Medatech will set up.
2. This email will be sent to the default quotation contact as defined in the '**Customer Contacts**' sub level form of the '**Customers**' form
3. A new tick box will be added to the Order Status table to define the status as the Send EDI Confirmation status.
4. The EDI file will be added to the relevant folder for the customer ORDRSP files (as defined in the Files section of this document).

FIELDS FOR EDI IN SALES ORDER CONFIRMATION DOC;

Top Level:

- Customer No: (This will be the number of the customer in the Dunlop system.) (CHAR 16)
- Order number: (CHAR 16)

Item level:

- Part Number, (CHAR 22). Customer ~~Rivian~~ Part No
- Part Description (CHAR 48)
- Cust's PO: (CHAR 25)
- Quantity, (INT 17, 3)
- Due date (In the format DD/MM/YY) DATE 8)
- Unit Price (REAL 16, 5)
- Line Total (REAL 16, 5)

Totals :

- Order Sub Total (REAL 16, 5)
- VAT (REAL 16, 5)
- Order Grand Total (REAL 16, 5)

DESPATCH ADVICE- (DESADV) — ASN

It is essential that a pre shipment advice is given to the customer, this indicates they have 48 hours to collect the items from Dunlop. It is an industry requirement that the Pre shipment advice contains the final invoice number relating to the shipment.

The Multi Shipment invoice form will have the '***Final*** 'Status flagged for EDI. Once an invoice is finalised this will trigger the EDI to be sent to Seeburger.

1. A customer Shipment will be opened in the '**Customer Shipments**' form within Priority, this will be opened using the current process but MUST be linked to a sales order. (This is a manual process)
2. The '**Customer No.**', '**Date**' and '**Site**' will be entered by Dunlop, this will generate the customer shipment doc.
3. The relevant tracking number will be recorded in Priority, This will be entered by Dunlop in the '**Tracking Number**' field on the upper lever of the '**Customer Shipment**' Form.
4. The user will then navigate to the '**Choose order items**' sub level form and select the relevant lines that are being collected by the customer.
    a. Medatech will add a restriction to this form so it only displays the sales order lines that are being shipped to the same site as the one specified in the header of the customer shipment form.
5. The '**Shipped Items**' sub level will be automatically populated based on the sales order lines chosen by the user. Dunlop will make any amendments to this data to reflect the items that are being shipped and the quantity of those parts that are being shipped.
6. Once the goods are ready to be shipped the status of the customer shipment will be changed to '***Final***'.
7. The user will then raise the invoice using the '**Prepare Invoice/Credit Memo**' action.
8. To notify the customer that the goods are ready for collection via EDI, once all relevant checks have been made the invoice will be finalised using the '**Finalize Invoice/Memo**' action on the '**Multi-Shipment Invoices**' form. This will automatically change the status of the invoice to '***Final***' . Please note it is important that the '***Final***' status MUST have the EDI property flagged against it. This can be set in the '**BPM Flow Chart-Multi Shipmt Invs**' form

* only one delivery location per invoice please *

FIELDS FOR DESADV EDI ;

Top Level:

- Customer No: (This will be the number of the customer in the Dunlop system.) (CHAR 16)
- Date: (In the format 'DD/MM/YY') (DATE 8)
- Sending Warehouse (CHAR 4)
- Shipment No: (CHAR 16)
- Tracking Number: (CHAR 22)
- Invoice Number: (CHAR 16)

Item level:

- Part Number, (The Dunlop part number) (CHAR 22). ✓ & Customer Part No to help goods receipt/invoice processing by customer.
- Cust's PO: (CHAR 25)
- Sales Order ref: (CHAR 16)
- Site (CHAR 4)
- Quantity (INT 17, 3)
- Works Order/Lot (CHAR 22)

INVOICE TO CUSTOMER – (INVOIC)

The invoice will be created by the user or using the automatic routines, once the customer shipment is final status. The Invoice will be checked and finalised the status will be final which transmits EDI out.

As stated in the DEVADV section the invoice will be raised at the point of shipment, when the invoice is changed to final this will need to send both a DESADV and INVOIC to Seeburger.

FIELDS FOR EDI IN INVOICE DOC;

Top Level:

- Customer No: This will be the number of the customer in the Dunlop system. (CHAR 16)
- Date: (In the format 'DD/MM/YY', DATE 8)
- Customer shipment ref: (CHAR 16)
- Invoice No: (CHAR 16)
- Debit/Credit (CHAR 1)
- Amount Owing (this is calculated based on the line items)(REAL, 16, 5)

Item level:

- Part Number, (CHAR 22). (Customer + Dunlop)
- Cust's PO: (CHAR 25)
- Sales Order ref: (internal sales order number, CHAR 16)
- Site (customer delivery site, CHAR 4)
- Quantity (INT 17, 3)
- Unit Price (REAL 13, 5)

OUTGOING TO DRIV (DUNLOP TO DRIV)

DELIVERY FORECAST (DELFOR) / DELIVERY JUST IN TIME (DELJIT)

ON HOLD:
Further information is required from Driv.

This will need to include follow up discussions between Dunlop, Seeburger and Medatech.

DELFOR is our purchase order

DELJIT may not be practical as DRIV are Tier 2 and we have to collect

INCOMING FROM DRIV (DRIV TO DUNLOP)

DESPATCH ADVISE (DESADV)

The process will be; the DESADV file will be placed into a folder by Seeburger. Priority system will check this folder every 15 minutes. If a file is found then Priority will download it as detailed below.

1. Despatch Advise received from Driv via EDI (goods from them are ready to collect/have been shipped)
2. Within Priority a '**Goods Receiving Voucher**' will be opened automatically. The '**Date**', '**Vendor No.**', '**Order No.**', and '**Vendor Doc No.**' will all be automatically populated based on the file supplied. The '**Receiving Warehouse**' will be defaulted to be 'Tran' and the '**Bin**' will be defaulted to '0.
3. A New Status will be created by Medatech for Goods Receiving Vouchers, this new status will be called '***Await Tran***'. A new BPM rule will be defined by Medatech to automatically put the GRV in a status of '***Await Tran***' ONLY if the '**Receiving Warehouse**' is 'Tran'.
4. The '**Received Items**' sub-level will automatically be populated based on the purchase order specified in the '**Order No.**' field. Please note the standard Priority functionality will mean that only items that have a balance to receive on the purchase order will pull through to the Goods receiving voucher.
5. Medatech will add a new column to the '**Received Items**' sub level form, this will be titled '**Advised Qty**'. This is the quantity being advised on the despatch advice from Driv.
6. The item level 'Balance to receive' column will populate with the outstanding quantity based on the PO and previous GRV's.

   This GRV at this point is detailing goods that are ready to collect and/or have been then collected and ready to book in.

7. Once goods are ready to book in, then, below will be manual intervention;
8. The '**Date**' will be changed if different from the originally planned receiving date.
9. Dunlop will check that the '**Vendor Doc No.**' and/or '**PO ref**' matches the document that is being physically booked in.
10. Dunlop will manually change the '**Warehouse**' on each line to 'Goodsin' they will then enter the '**Quantity**' and '**Lot no.**' against each line in the '**Received Items**' sub level form
11. Dunlop will then change status of the Goods Receiving voucher to '***Final***'. (in the background this will change the status of the referenced purchase order to Closed or partly received)
12. The GRV will also have booked inventory into stock.

If any errors are encountered as part of this EDI receipt, then a report will be generated and the errors saved in the system and emailed to the EDIERROR group.. All other lines will be loaded into GRV. Error items will not be loaded.

FIELDS FOR EDI IN GRV DOC;

Top Level:

- Vendor No: This will be the number of the customer in the Dunlop system.
- PO ref: (CHAR 16)
- Vendor Doc no. (CHAR 16)

Item level:

- Part Number, (CHAR 22).
- Quantity Advised (INT 17, 3)
- Unit Price (REAL 16, 5)

PURCHASE INVOICE (INVOIC)

The INVOIC file will be placed into a folder by Seeburger. Priority system will check this folder every 15 minutes. If a file is found then Priority will download it and process as detailed below.

1. A '**Multi-GRV-Invoice**' will be created within Priority based on the file supplied.
2. The '**Vendor number**', '**Date**', '**Invoice Number**', '**Debit/credit**', '**GRV ref**' and '**Order Number**' will be filled in automatically based on the information in the INVOIC file
3. The '**Invoice Items**' sub level form will be automatically populated based on the Goods receiving voucher specified in the upper level form, and the prices and qty defined in the file.
4. As part of the import procedure, if the Multi-GRV-Invoice has zero in the '**Diff in Pric**' field in the upper level of the Multi-GRV-Invoice, the invoice will be finalised, if not then it will be changed to ***'Checking'*** so this can be manually reviewed by Dunlop.

FIELDS FOR EDI IN GRV INVOICE DOC;

Top Level:

- Vendor No: This will be the number of the customer in the Dunlop system.
- PO ref: (CHAR 16)
- Vendor Doc no. (CHAR 16)
- Invoice ref no. (from Driv)
- Debit/Credit (CHAR 1)
  Nett Price (Real, 17,2)
  VAT Price (Real, 17,2)
  Total Price (Real, 17,2)

Item level:

- Part Number, (CHAR 22).
- Quantity (INT 17, 3)
- Price Each (Real, 17.2)
- Line Price (Real, 17,2)

Is there an error report "EDIERROR" ?

REPORTING

VARIANCE REPORT

A key requirement for Dunlop is to be able to track variances between orders as of specific dates. This will allow them to track if all changes made by the customer are in line with the contract agreements and ensure they can manage any changes in demand.

To cater for this requirement we will add new functionality to the sales order form, each time any change is made to the sales order via EDI the current version prior to the change will be saved in a new table and form. The fields that will be saved for each version will be **'Version Date' 'Version Number' Part Number'**, **'Part Name'**, **'Quantity'**, **'Week Number'** and **'Due Date'**

The report will have inputs of:

1. Sales Order Number
2. Date: This is the date of the version to compare with the current sales order version.
    a. The choose list on the input will show the version number and date of the version as follows **'1 – 02/01/20'**, **'2 – 03/02/20'** etc. Only one version may be compared at a time.
3. Variances Only: This checkbox will ensure that the report will only show lines with a variance
    a. If this is checked then the report will be restricted to show only new lines (lines that have been added in-between the versions) or lines with a variance.
    b. If this is left unchecked then all lines will show on the report.

The report will compare current values vs the version values chosen by the user, the report will have the following columns, **'Part Number'**, **'Part Description'**, **Orig quantity'**, **'Current Quantity'**, **'Variance'**, **'Orig week Number'** , **'Current Week Number'**, **'Variance'**.

LATE DELIVERY REPORT

New 'Time Fenced' customer performance and vendor reports will be created. Timings and specification for these reports has been provided on price quotation PQ20000184