

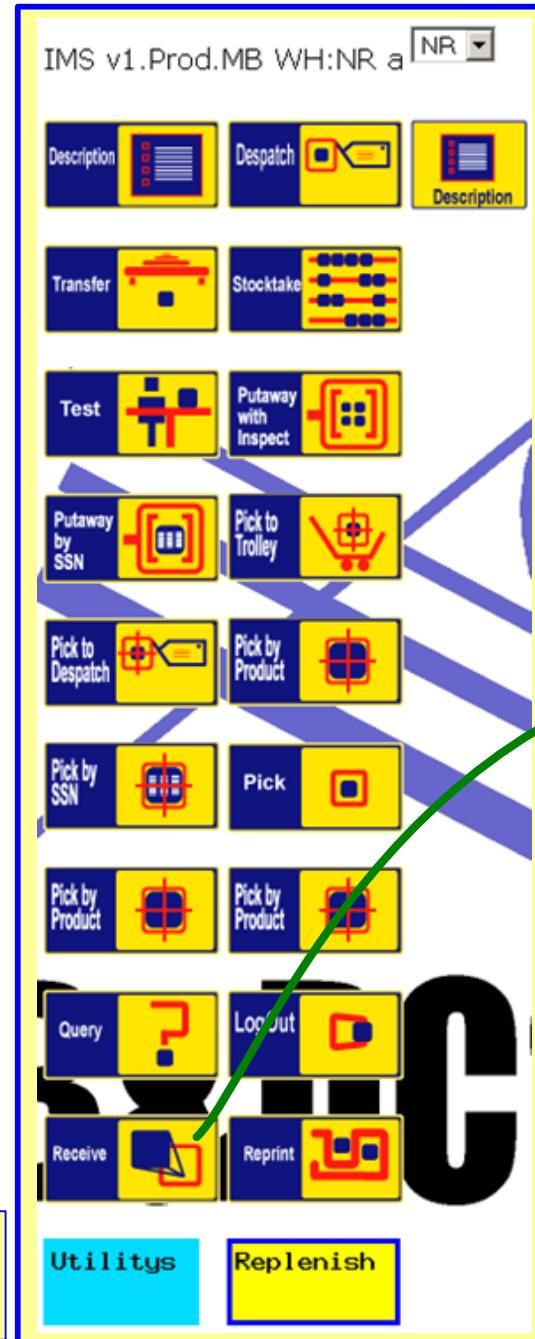
Hand Held Screens - Main Menu

The following Specifications are based upon existing PHP applications which have been designed to meet the Data Capture requirements of a wide range of Clients.

Most Clients specify that the design of the screens must offer the following features:

- Easy to read in both bright sunlight and poorly lit Warehouses. We need to be careful with colour selections and font sizes.
- Intuitive where Users are able to operate with little training. This also means they are prompted where possible before they can send incorrect data to the MINDER Server.
- If on-screen keyboard data entry is required (versus Barcode Scanning) we must position the input fields at least 50% up from the bottom edge as this is where the SIP will appear and Users do not like having to move the Keyboard around.
- Where possible if data capture must be by keyboard that both SIP and the Hand held terminal keys can be used. Users prefer to have a choice of input.

We use a Graphics Artist to prepare the Menu icons. Not all Options have been prepared but will be changed in future upgrades.

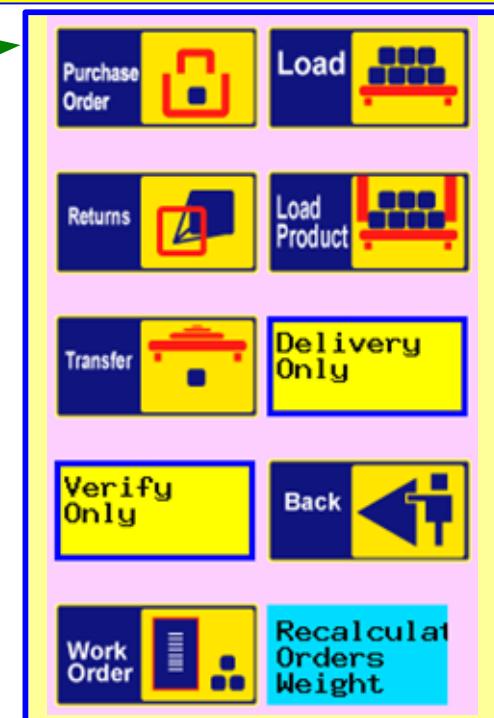


All MINDER database updates are performed via Transactions which trigger a stored procedure and not by direct field inserts or updates.

MINDER keeps a copy of successfully processed Transactions in the TRANSACTIONS_ARCHIVE table where we use for Audit trail Reporting.

These Specifications use one layout pattern that shows how data is to be populated into the Transactions.

Note: these layout patterns were based upon the USER_ID only accepting 8 bytes whereas MINDER allows for 10 bytes.



WAREHOUSE RECEIVE DOCK

Operator opens up a 20' or 40' Shipping Container or Truck load of Inventory and places these onto Pallets (if not already palletised) and where each pallet has only one Product Code unless receiving SSN Inventory (Non-Product Load).

If Inventory has Lot or Batch or Use-By Dates then it must be stacked only one type per pallet.

We use term 'Load' to indicate Inventory that has not been Ordered from the Sender using a 'Purchase Order', 'Return Order', 'Work Order' or 'Transfer Order'. E.g Ex leased IT equipment which has been returned for Replenishment or inventory owned by a 3rd party.

Recording Delivery details is all about how the Shipment arrived at the Warehouse but not (yet) recording what is inside the Delivery.

Either:
User may enter a valid GRN (must look-up GRN Table) if previously booked-in Receipts.

Then display if found the GRN Details: Owner, Carrier, Veh. Reg, Pallets and Container Feilds. No changes allowed.

Or
If left blank System will generate new GRN

Either:
User may enter a valid Order No (must look-up PURCHASE_ORDER Table and check that Order still has Open status).

Or
If NOT AN ORDER (but a Load Type) then may be left blank as System will generate new Load Number

W*WM DELIVERY X

Type: Purchase Order

GRN No: (dropdown) PA

Order No: P000123

Sent By: AVOCADO UNO

Carrier: AIRROAD

Veh.Reg: ABC123

Shipped Date: 31/01/06

Owned By: Fresh Produce Group

Back Continue

Display according to selected Order Type (see previous page)
'Purchase Order', 'Load', 'Load Product', 'Return Order', 'Work Order', 'Transfer Order'.

Line No of Order - will be used as part of ISSN Barcodes

Dropdown list of Suppliers from Person Table where **PERSON_TYPE** = 'CS' - Company Supplier or 'IS' - Individual Supplier or 'LE' - Leaseee.
Plus **GRN_Type** = 'Load Non-Product' (LD) or 'Load Product' (LP).
If **GRN_Type** is an *_Order then Supplier is specified within Order details hence grey out dropdown list.

Dropdown list from CARRIER Table

Enter the Date Consignment Shipped from Sender.
OPTIONAL Entry Field. Use Date Picker.

Owned By from dropdown list COMPANY Table.
Default to CONTROL.COMPANY_ID -> COMPANY.DESCRIPTION

If the GRN is entered (and exists) then Hand Held proceeds to VERIFY Screen

B&DCS

Back to Main Menu

Delivery CONNOTE Screen

Hand Held Screens - Receive Delivery Connote - Hire and Comment Entry



If 'Yes' selected for Shipping Container then User enters No. and Type e.g. '40 Foot'

Note we do not have Transaction Type ready to pass CONTAINER_NO and SHIP_CONTAINER_TYPE to the GRN Table. Will be part of GRNDL

W*M CONNOTE

Type: Purchase Order

GRN No: PA

Order No: P000123

Shipping Container: No Yes
 40'

Consignment /AWB/Del. Docket No.
 CN-12346ABCDEF

Received: 10 Packages

Damaged Flag:

W*M HIRE

Type: Purchase Order

GRN No: PA

Order No: P000123

Hire Pallets: NONE 0

Hire Packaging: CHEP

Hire Packaging Type:

PackagingCrate Qty: 100

W*M HIRE

Type: Purchase Order

GRN No: PA

Order No: P000123

Enter Comments (Max 80 chars)
 STOCK FOUND -
 CLEANUP OF NEW
 PREMISES AT SMITH ST

Comment Button.
 Pop-up Comments input .
 Locate above SIP region to save User having to move panel.

Send GRNCC Transaction after GRN is entered or created by GRND

01d_accept.gif
 15d_comment.gif

Enter the Air Way Bill, Consignment Note or Delivery Docket Number used by Sender.
MANDATORY. If none then user must enter 'NA'.

Enter total Packages received should match Consignment Note total (Default=1).
MANDATORY FIELD

MANDATORY - Received Hire Packaging Crates
 Dropdown list from OPTIONS Table where **GROUP_CODE** = 'PACK_OWNER',
CODE = 'NO', 'CH', 'LO', 'OW', 'UN' and matching
DESCRIPTION's = 'NONE', 'CHEP', 'LOSCAM', 'OWN', 'UNKNOWN'.
 If > 'NONE' then **must Enter** Qty of Crates received.

'Damaged' Flag is used by BlueScope Steel to Report for closer inspection of the Delivery

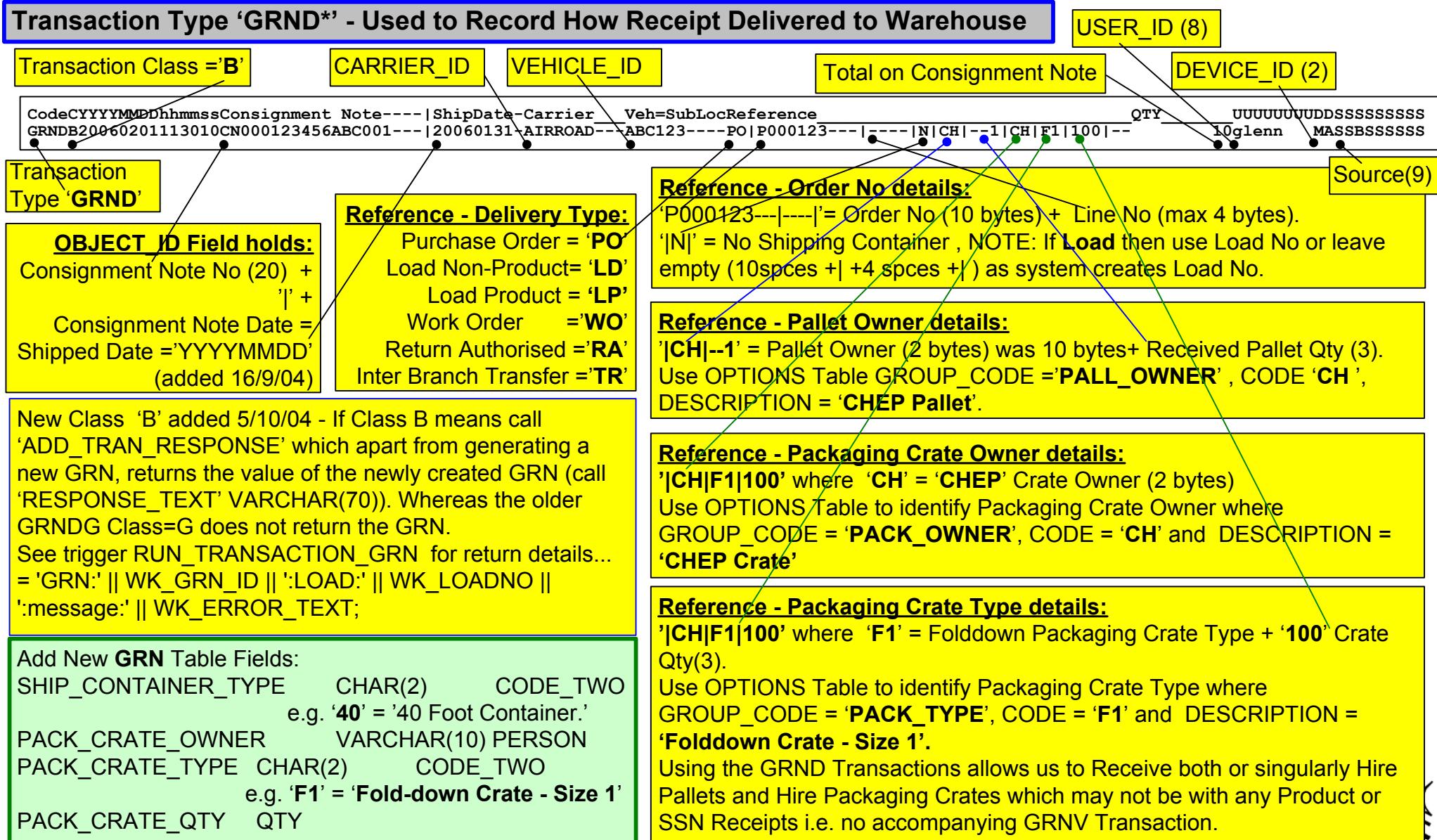
MANDATORY - Received Hire Pallets
 Dropdown list from OPTIONS Table where **GROUP_CODE** = 'PALL_OWNER',
CODE = 'NO', 'CH', 'LO', 'OW', 'UN' and matching
DESCRIPTION's = 'NONE', 'CHEP', 'LOSCAM', 'OWN', 'UNKNOWN'.
 If > 'NONE' then **must Enter** Qty of Pallets received.

MANDATORY - Received Hire Packaging Crate Types
 Dropdown list from OPTIONS Table where **GROUP_CODE** = 'PACK_TYPE',
CODE = 'NO', 'F1', 'F2', 'F3' and matching
DESCRIPTION's = 'NONE', 'Fold-down Crate - Size #1', 'Fold-down Crate - Size #2', 'Fold-down Crate - Size #3', 'UNKNOWN'.
 If Crate Hire > 'NONE' then **must Enter** Crate Type.

Send GRND - Goods Receiptal Notification - Delivery Details Transaction

V3.8 MINDER Transactions are key to updating the MINDER Database system. They are inserted by Delphi, Java and Hand Held Applications into the TRANSACTIONS Table. Stored procedures then update the Database and provide Audit trail. Note: 'I' is a delimiter and is only found inside of some Transaction Fields. All v3.8 Transaction have fixed length (138 bytes) and fixed field layout. V4.0 has variable lens.

Transaction Type 'GRND*' - Used to Record How Receipt Delivered to Warehouse



Add New GRN Table Fields:

SHIP_CONTAINER_TYPE	CHAR(2)	CODE_TWO
e.g. '40' = '40 Foot Container.'		
PACK_CRATE_OWNER	VARCHAR(10) PERSON	
PACK_CRATE_TYPE	CHAR(2)	CODE_TWO
e.g. 'F1' = 'Fold-down Crate - Size 1'		
PACK_CRATE_QTY	QTY	

Send Transactions - Update Comments GRNCC, Print GRN Labels GRNDL



Transaction Type = GRNCC - Records a Comment about Goods Delivered to Warehouse

This Transaction is called when a User needs to add a Comment to the GRN Record. Cannot sent unless the User has entered a valid GRN or a GRNDB Transaction has been processed and returns the GRN needed by the GRNCC Transaction.

CodeCYYYYMMDDhhmmssGRN COMMENTS (40BYTES) ----- GRN-NO-----GRN-COMMENTS (40) ----- 00000000000000000000000000000000
 GRNCC20030902113010STOCK FOUND - CLEAN UP OF NEW PREMISES AGRN01234--T SMITH ST----- 1glen MASSBSSSSSS

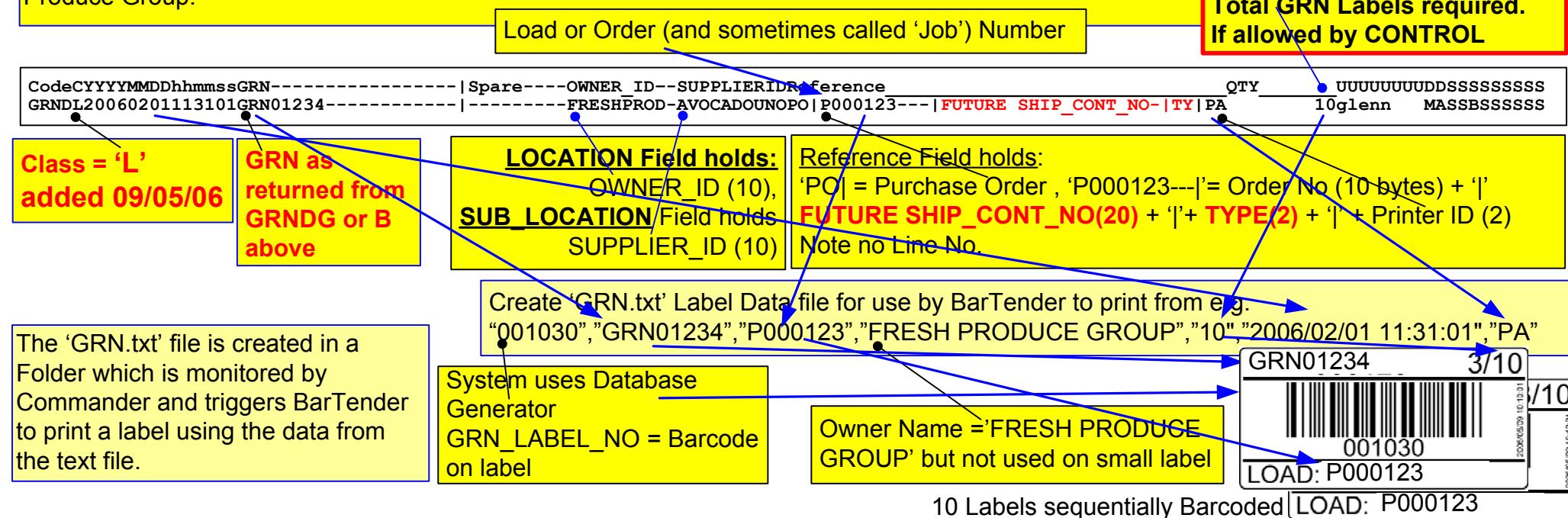
SUBLOCATIN Field holds:
 GRN (10) from previous GRND* Transaction

OBJECT_ID(30)+LOCATION(10)+Reference(40) Fields holds complete Comment:
 'STOCK FOUND - CLEANUP OF NEW PREMISES AT SMITH ST'

GRNDL = Used to Update GRN, GRN_ORDER Tables + Print GRN Labels
 - Must have GRN or send GRND to create a GRN

Must send GRNDL Transaction if
 CONTAINER_NO populated

This Transaction enables a GRN Labels to be printed (one per Connote Package quantity). CONTROL Table 'DEFAULT_GRN_LABELS' > 0 to allow Printing of GRN Labels. Cannot sent until a GRNDB Transaction has been processed as this returns the GRN needed by the GRNDL Transaction. This feature is only used by APCD to date. These Specifications will be modified in the future when required. Ignore for Fresh Produce Group.



Hand Held Screens - GRN & GRN_ORDER Tables

The GRNDB Transaction creates or updates a GRN Record except for the Comment Field.

THE GRNCC Transaction adds the Comment to GRN Record but only up to max 255 bytes.

The GRNDL Transaction is used to create Barcode Label printer text file 'GRN.txt'

CREATE TABLE GRN

GRN	Example data from previous pages
GRN_TYPE	'1234'
TOTAL_QTY_PACKS	'PO'
PACK_EAN_SSCC	'1'
CARRIER	'AIRROAD'
VEHICLE_ID	'ABC123'
AWB_CONSIGNMENT_NO	'CN-12346ABCDEF'
GRN_PALLET_QTY	'0'
DELIVERY_DOCKET	
PALLETS_YN	'N'
CONTAINER_NO	'FUTURE SHIP_CONT_NO'
COMMENTS	'STOCK FOUND - CLEANUP OF NEW PREMISES AT SMITH ST'
GRN_PRINTED	
USER_ID	'glen'
DEVICE_ID	'MA'
GRN_DATE	'01/02/2006 11:30:10AM'
ORDER_NO	'P000123'
ORDER_LINE_NO	'1'
RETURN_ID	'AVACADOOUNO'
SHIPPED_DATE	'31/01/2006'
RECEIPT_FLAG	'F'
LAST_UPDATE_DATE	'01/02/2006 11:30:10AM'
LAST_LINE_NO	'1'
LAST_PALLET_NO	'10'
SHIP_CONTAINER_TYPE	'40' // Future release
PACK_CRATE_OWNER	'CHEP'
PACK_CRATE_TYPE	'F1'
PACK_CRATE_QTY	'100'
PRIMARY KEY (GRN)	

CREATE TABLE GRN_ORDER

GRN	'1234,'
ORDER_NO	'P000123,'
GRN_LABEL_NO	'001030'

CREATE TABLE GRN_ORDER

CREATE TABLE GRN_ORDER

GRN	'1234,'
ORDER_NO	'P000123,'
GRN_LABEL_NO	'001033'
COMPANY_ID	'FRESHPROD'
SUPPLIER_ID	'AVOCADOOUNO'
CREATE_DATE	'01/02/2006 11:31:01AM'
CREATED_BY	'glen'
PRIMARY KEY (GRN_LABEL_NO)	



The GRN Labels
are now attached
one/Package

Add New GRN Table Fields:

LAST_LINE_NO	INTEGER
LAST_PALLET_NO	INTEGER
SHIP_CONTAINER_TYPE	CHAR(2) CODE_TWO
e.g. '40' = '40 Foot Container.'	
PACK_CRATE_OWNER	VARCHAR(10) PERSON
PACK_CRATE_TYPE	CHAR(2) CODE_TWO
e.g. 'F1' = 'Fold-down Crate - Size 1'	
PACK_CRATE_QTY	QTY

Hand Held Screens - Verify What has been Received

W*M	HIRE	X
Type: Purchase Order		
GRN No:	GRN01234	
Order No:	P000123	
Hire_Pallets:	NONE	0
Hire Packaging:		
CHEP		
Fold-down Crate Size #1		
Crate Qty:		100
<input type="button" value="Back"/> <input type="button" value="Comment"/> <input type="button" value="Accept"/>		

Previous Screen Sent GRNDB Transaction to create or update GRN Record

User cannot alter the GRN # or Order # unless finish Verify or Cancel

W*M	VERIFY	X
Type: Purchase Order		
GRN No:	1234	PA
Order No:	P000123	1
Product ID:	avo001	
Avocado 16 5 kg,Team,Hass,Tray		
Recv'd:	99	UM: Tray
Printed Quantity: 0		
Qty Labels X Qty/SSN Label:		
9 X 10 + 1 X 9		
<input type="button" value="Back"/> <input type="button" value="Product"/> <input type="button" value="Accept"/>		

Label Printer ID

'UM:' = Unit of Measure

Check that User does not enter qty > Recvd

Must pop-up Message

Cancel Delivery?
<input type="button" value="NO"/> <input type="button" value="YES"/>

Send GRNXG Transaction to Host
Used to add to the previously created GRN Record's COMMENT Field = 'Cancelled at (Date+Time) by (User_ID)'

RECEIVE MENU

Qty Labels X Qty/SSN Label:
9 X 10 + 1 X 9

Use the 4 input boxes to sets of ISSN Labels where:
'9' x '10' = 9 Labels each with 10 Units.
plus
'1' x '9' = 1 label with 9 units.
User cannot leave screen until the 'Printed Quantity' = Recvd' (Received Total)



If User is unsure of the Product Code they can select the Product button to pop-up a Product search screen

Each new Product ID automatically increments the Order Line number and GRN is updated.

Allow User to select next Product to Verify

RECEIVE MENU

Must pop-up Message

Is Delivery Complete?
<input type="button" value="NO"/> <input type="button" value="CANCEL"/> <input type="button" value="YES"/>

Send GRNVG Transaction to Host

The GRNVG will generate new SSN + ISSN Records plus print Labels to be attached

Hand Held Screens - Send GRNVG Transaction

Send **GRNVG** Transaction to Host

W*M	VERIFY	X
Type: Purchase Order		
<u>GRN No:</u>	1234	PA
<u>Order No:</u>	P000123	
<u>Product ID:</u>	avo001	
Avocado 16 5 kg, Team, Hass, Tray		
<u>Recd:</u>	99	UM: Tray
Printed Quantity: 0		
Qty Labels X Qty/SSN Label:		
9 X	10 +	1 X 9
 Back	 Product	 Accept

~~Printer ID but may need
to change from GRN
Labels to ISSN Labels~~

|-9|---10|-1|---9| = 1 x SSN Record + 10 x ISSN Records to be created each with SSN_Original Qty = 99 and 10 Labels to be printed on Printer = 'PA'

CodeCYYYYMMDDhhmmssGRN-----| Spare--- OWNER_ID -- SUPPLIER_ID Reference QTY _____ UUUUUUUUUDDSSSSSSSS
 GRNLD20060201113101GRN01234-----| ----- FRESHPROD-AVOCADOUNOPO | P000123---| FUTURE SHIP CONT NO-| TY PA 10glen MASSBSSSSSS

