

MINDER Series Transactions

V3.8 MINDER Transactions are key to the system. They are inserted by Delphi, Java and Hand Held Applications into the TRANSACTIONS Table and stored procedures are used to both update the Database and remain as an Audit trail of each inventory process. Note the character = ']' is a delimiter and is only found inside of some Transaction Fields. All v3.8 Transaction have fixed length and layout. V4.0 has variable lens.

01/05/05 GSN

- GRNCC** - was GRNDC - as advised by Frank
- GRNVH** - Used to record the Net Weight of each new Loading of Non-Product SSN and Print ISSN Labels
- GRNVQ** - Used to record the Net Weight of each new Loading of Product SSN and Print ISSN Labels.
- NINWA** - Used to update the Net_Weight if an SSN Used if not weighed during Receipt Verification
- STPAP** - Stock Adjustment for a Product at Location and ISSN Status
- STKAP** - Creates Kits (Product) from Components - Uses BSS Rule which must consume from highest qty storage
- PPPPP** - Pallet Stacking Configuration - Each Product Profile has up to 3 Pallet Configurations - Inners, Outers on Std Australian Pallet + Outers on non-standard Australian Pallet.

31/10/05 GSN + FL

- GRNVP** - Altered the Reference Field to handle 6 digit Qty on each ISSN Label -requested by BlueScope. Reduced length of the Load Line number from 5 to 1 bytes. This only applies to LP Reference Data.
- GRNVQ** - Altered the Reference Field to handle 6 digit Qty on each ISSN Label -requested by BlueScope. Reduced length of the Load Line number from 5 to 1 bytes. This only applies to LP Reference Data.

08/12/05 - GSN

- GRNVQ** - Altered the QTY field to be = 0 for 2nd and subsequent Transactions of a multiple Weights Delivery of Product.

This is to stop multiple counting in the TRANSACTIONS_ARCHIVE Table for Product Receipts History Report

11/06/06 - GSN

- GRNDL** - Required for APCD, Granville. Requests GRN Labels to be printed.
Revised some Pages and changed PLxx Specifications - to be confirmed.

25/06/06 - GSN

- PKOZ?** - Required Magnamail Conveyor Pick Zone - Used to Update each line of an Order from 'AL' Status to 'DS' Status at the time of starting a Pick

25/7/06 - GSN

- STPZ** Send STPZ Transaction to Adjustment of each Product consumed by a Zone Picking process - Magnamail Conveyor Line. This Transaction must be called for each Product listed in the Order after successful Check Weighing.

- PKUS** Picker scans the Sales Order Number to directly/force update either the Order or every Order line to a new Status.
Transaction created to avoid the lengthy development needed for PKOZ above.

04/03/07 - GSN

- New and modified **GRNDB&G** added Shipping Crates. New **GRNCN** -Record Container No. New **GRNCL** - Assign Lot No to GRN_Group



B&DCS

MODIFIED Transaction 04/03/07 Glen

GRND = Records How Receipt Delivered to Warehouse

Class = 'G' or 'B' added
5/10/04

```
Consignment Note No (20) +  
      '1' +  
Consignment Note Date ≠  
Shipped Date = 'YYYYMMDD'  
(added 16/9/04)
```

Purchase Order = 'PO'
Load = 'LD'
Load Product = 'LP'
Work Order = 'WO'
Return Authorised = 'RA'
Inter Branch Transfer = 'IR'

Using the GRND Transactions allows us to Receipt both or singularly Hire Pallets and Hire Shipping Crates which may not be with any Product or SSN Receipts i.e. no accompanying GRNV Transaction.

SHIPPING CRATE	QTY	QTY
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MINDER Series Transactions

[illegible]

GRND = Records How Receipt Delivered to Warehouse

MODIFIED Transaction 04/03/07 Glen

Code	YYMMDDhhmmss	Consignment	Note	ShipDate	Carrier	Veh	SubLoc	Reference	QTY
GRNDG	20041005113010	CN000123456	ABC001	---	20040916-AIRROAD	---	ABC123	----	PO P000123 ---- N C -- 1 C FD 100 --
									UUUUUUUUDDSSSSSSSSSS lglen MASESSSSSSSS

Previously Modified Transaction 5/10/04 Frank

GRNCC = Records a Comment about Goods Delivered to Warehouse

Was GRNDC 01/05/05 GSN

[illegible]

SUBLOCATIN Field holds:
GRN 10 from previous GRNB/G Transaction

OBJECT_ID(30)+LOCATION(10)+Reference(40) Fields holds Comments:
'STOCK FOUND - CLEANUP OF NEW PREMISES A'-----'T SMITH ST'

GRND - Goods Receipt and GRN Label Transactions

[illegible]

GRND = Records How Receipt Delivered to Warehouse

Code	YYYYMMDD	hhmmss	Consignment	Note	ShipDate	Carrier	Veh=SubLoc	Reference	QTY	UUUUUUUUDD	SSSSSSSSSS		
GRNDG	20050509	101001	CN000123456	ABC001	---	20050508-AIRROAD	---	ABC123----	LD	-----	N C	---1 C- FD 100	--
												10glenn	MASSBSSSSSS

Class B calls 'ADD_TRAN_RESPONSE' which returns newly created GRN (call 'RESPONSE_TEXT' VARCHAR(70)).

```
= 'GRN:' || WK_GRN_ID || ':LOAD:' || WK_LOADNO || ':message:' || WK_ERROR_TEXT;
```

11/6/06 New Class L - Used to Print GRN Labels. Requires the GRN to be sent

GRNDL = Used to Print GRN Labels - requires GRND to create a GRN

11/6/06 - GRNDL Transaction required to allow APCD, Granville to receipt deliveries and label them before they start to Verify (create SSN's). Using the GRN Barcode means Deliveries can be moved before they have been Verified. This is needed for ISO 9001 Quality Control Accreditation.

Total Labels required This may not equal Connote Total

Code	CYYYMMDDhhmmssGRN	Spare	OWNER ID--SUPPLIERIDReference	QTY	
GRNDL	2006050910100100123	--	-----OPTUSCOMMSLD OPTUS001-- -----future----	PA	UUUUUUUDDSSSSSSSSS 10glen MASSSSSSSSS

Class = 'L',
added
09/05/06

GRN as returned from GRNDG of B above

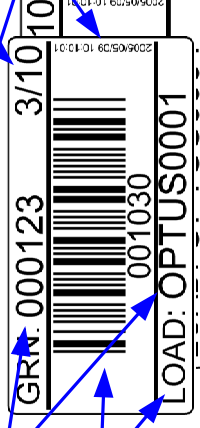
~~**LOCATION** Field holds:
OWNER_ID (10),
SUB_LOCATION Field holds
SUPPLIER_ID (10)~~

Reference Field holds:
'LD' = Load Type Code
'OPTUS001---' = Load

Database Procedure creates 'GRN.txt' Label Data file for use by BarTender to print from e.g.

"GRN_LABEL_NO" "GRN" "GRN_TYPE" "LOAD_NO" "AWB_CONSIGNMENT_NO" "QTY_LABELS" "GRN_DATE" "PRT_ID"
"001030" "000123" "LOAD" "OPTUS001" "CN000123456ABC001" "10" "2006/05/09 10:10:01" "PA"

Codabar Barcoded
GRN_LABEL_NO
Generated by Database



AWB_CONSIGNMENT_NO
not printed on current Label -
Future



MINDER Series Transactions

[illegible]

GRNDB = Records How Receipt Delivered

MODIFIED Transaction 04/03/07 Glen

[illegible]

Pallets & Shipping Crates

GRNCN = Continues any GRNDB - Records Shipping Container No

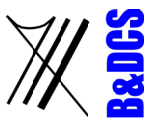
NEW Transaction 04/03/07 Glen - for FPG

04/03/07 - GRNCN Transaction required to allow record Shipping Container No and update the GRN Table's CONTAINER_NO Field.
If GRND Class B has the Container field = 'Y' then it will require Input screen or popup to capture Container Number.
This Transaction is similar to GRNCC - accepts Comments about a GRN

Code	CVYYMMDDhhmmss	GRN	---	Spare	---	Reference	---	QTY	UUUUUUDDSSSSSSSS
GRNCN	20070304101001000123		---		---	001AN2345670123	---	1glenn	MASSBSSSSSSSS

'000123' = GRN returned from GRNDB Transaction

'001AN2345670123' = Shipping
Container No stored in GRN
CONTAINER_NO Field max 20 bytes



CODEYYYYMMDDHHMMSSOBJECT_ID													LOCATION		SUBLOCATINREFERENCE		Q000												
-----------------------------	--	--	--	--	--	--	--	--	--	--	--	--	----------	--	---------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

GRNCL = Assigns a Lot Number to a GRN, Create Lot Line No, Update Company or Supplier

CodeYYYYMMDDhhmmssGRN	----- Spare----- OWNER_ID--SUPPLIERIDReference	QTY	UUUUUUUUDDSSSSSSSSSS
GRNCL20070304101001000123	----- ----- ----- -----	1glenn	MASSBSSSSSS

'L' Class identifies the Object Id Field as GRN

GRN is generated by previous GRND Transaction

Reference Field details:
If Reference empty then Database generates next Lot Number using CONTROL Table Parameters and stores in the GRN_GROUP Table. E.g. '7234'
Procedure must check that GRN_GROUP does not already hold a Lot No.

If Reference = '7234|' then means create record in GRN_ORDER Table if not already exists and updates LOT_NO_LINE_NO with first number not existing limited by CONTROL TABLE length e.g. 2 bytes
The Transaction QTY Field is used to indicate how many new GRN_ORDER Records to be created each with sequential LOT_NO_LINE_NO
If Reference = '7234|01|' then means create record in GRN_ORDER Table if not already exists but ignores the QTY value. This maybe also used to update COMPANY_ID and/or SUPPLIER_ID in GRN_ORDER.
The Verification screen used to generate SSN's and ISSN's must use the GRN_ORDER Table for each Pallet Verified.

```
/* Table: GRN_ORDER, Owner: SYSDBA */
CREATE TABLE GRN_ORDER
(
  GRN              NOT NULL,
  ORDER_NO         NOT NULL,
  GRN_LABEL_NO     NOT NULL,
  COMPANY_ID       COMPANY,
  SUPPLIER_ID      PERSON,
  CREATE_DATE      CREATE_DATE,
  CREATED_BY       USER_ID,
  LOT_NO           CHAR(10) /* LOT_NO(4) +LINE_No(2) +PALLET(2) */
  LOT_NO_LINE_NO CHAR(4) /* totals = 8 for ISSNs at Fresh Produce. */
  PRIMARY KEY (GRN_LABEL_NO)
);
/* Index definitions for GRN_ORDER */
CREATE INDEX GRN_ORDER_GRN_IDX ON GRN_ORDER(GRN);
CREATE INDEX GRN_ORDER_ORDER_IDX ON GRN_ORDER(ORDER_NO);
```

New **GRN_GROUP** Table Fields:
LOT_NO VARCHAR(10)
 e.g. '7234'
LOT_NO_LINE_NO CHAR(4)
 e.g. '01'
Hence ISSN_ID = '723401'+Pallet No '01'= '72340101'

Using the GRN_ORDER also allows us to print GRN labels as at APCD if required.

This now allows us to use the FOSS GRNVS & GRNVI Transactions. See following pages

MINDER Series Transactions - Goods Receipt - GRN

[illegible]

GRNVP = Verify Product Receipt and Creates SSN's + ISSN's

Code	YYYYMMDDhhmmss	Product ID	Location	GRN=SubLocReference	QTY	
GRNVP	20041025115020	ABC-123-456-XYZ	-----ALRC010101	GRN00123-LD ABCORP	99	glenn MASS

Changed Class to 'P' from 'G' - 21/7/04

GRN is generated by previous GRND Transaction

Reference Field details:
 'LP|ABCORP-----|'Type
 -|) plus (25/10/04 'LP' was
 '--9|---10|' = Qty of 9 x Lab
 '--1|---9|' = Qty of 1 x Lab
 'A' = Use Printer ID 'A' for

MODIFIED Transaction 25/10/04 Frank
 = LOAD PRODUCT (2 bytes+1) + Return From (10 bytes +|---
 s 'LD' - New Product Profile record created if unknown.)
 els printed with 'Product Qty/Label=10' plus
 el printed with 'Product Qty/Label =9' plus
 Labels. Transaction creates 1 x SSN + 10 x |SSN's.

GRNVS = Verify Product Receipt with Supplied SSN's

Code	YYYMMDDhhmmss	Supplier	IDCompany	IDDivision	IDLocation	GRN=SubLoc	Reference	QTY	
GRNVS20030902115020	FOSSUSA	---	FOSSAUS	-----	-----	AUINTRANST	GRN00123	96354281	----- K
								96354281	----- K
								50glenn	MASSSSSSSSSS
								50glenn	MASSSSSSSSSS

**FOSS Import
Modification:
Class = 'S'
added 16/9/04**

'S' Class identifies the Object Id Field as
SUPPLIER_ID (=From)
COMPANY_ID (=Owner)
DIVISION_ID (future)

GRN is generated by previous GRND Transaction

Reference Field details: Holds only SSN (18) + '|' + SSN(18) + '|' + that have been created by the SUPPLIER_ID. System to check if SSN exists, if not create SSN + ISSN. If SSN exists then check if ISSN exists if not, create with ORIGINAL_SSNN = SSN plus Qty. Note max input = 18 bytes as full 20 for SSN/ISSN's not possible If Transaction Date + Time = SSN Created date then do not add Qty to Original qty.

05/10/04 Byte 108 'K'=Kit, 'X'= Not in Kit, ||=NULL ignore - Created by Frank

GRNVI = Verify Product Receipt with Supplied ISSN's

Code	YYMMDDhhmmss	Product ID	Location	GRN=SubLoc	Reference	QTY	
GRNVI20030902115020ABC-123-456-XYZ			-----AUINTRANSTGRN00123--	96354281	-----96354282-----	50	glenn MASSSSSSSSSS

**FOSS Import
Modification:
Class = 'I'
added 28/9/04**

'1' Class
Object ID holds Product
ID when
SSN NOT = ISSN in
Reference Field

GRN is generated by previous GRND Transaction

Reference Field details:

Holds only SSN (18)+'|'+ ISSN(18)+'" that have been created by the SUPPLIER_ID. System to check if SSN exists, if not create SSN + ISSN.

If SSN exists then check if ISSN exists if not, create with ORIGINAL_SSN = SSN plus Qty.

Class = "I" means that SSN will NOT = ISSN.

If Transaction Date+Time =SSN Created date then do not add Qty to Original qty.

05/10/04 Byte 108 'K'!=Kit, 'X'!= Not in Kit, 'J'!=NULL ignore - Created by Frank