Generate MINDER Locations

This User Guide describes the steps required to create new Storage Locations within MINDER Repositories (Warehouses, Mobile Storage, Vehicles...)
Typically after a new installation of MINDER Series - WAREHOUSE*MINDER, STOCK*MINDER, TOOL*MINDER, MUSEUM*MINDER, ASSET*MINDER new storage locations will be added from time to time and they need to be given Barcoded Location ID labels before they can be used for storage of Objects and Inventory.

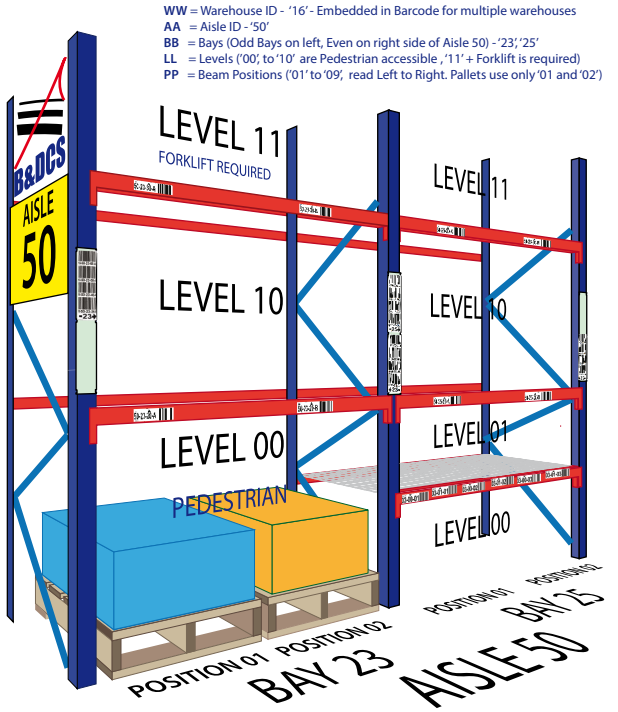
As a pre-requisite the User must be an ADMIN approved User and will have prepared documentation (Repository Drawings, Excel) which lists as a minimum the following Location properties:

- Repository ID (WH_ID),
- Aisle, Bay, Level and Position across Level,
- Location Status (OK or CL),
- Movement Status for Objects moved into the Locations (ST, DS, QR...)
- Storage Type, and
- Storage Area.

There are a number of optional properties including:

- Turnover Group Code (A, B, or C),
- Storage Method,
- Location Height,
- Location Type,
- Moveable Location (and its associated Current WH_ID),
- Location Tare Weight (used with Moveable Locations,
- Location Picking Sequence,
- Temperature Zone,
- Zone Code,
- Location Dimensions - Inside and Outside.

WAREHOUSE SCHEMA = WW-AA-BB-LL-PP Method



Contents

LOCATION GENERATE

Administration -> System Tables -> LOCATION_GENERATE

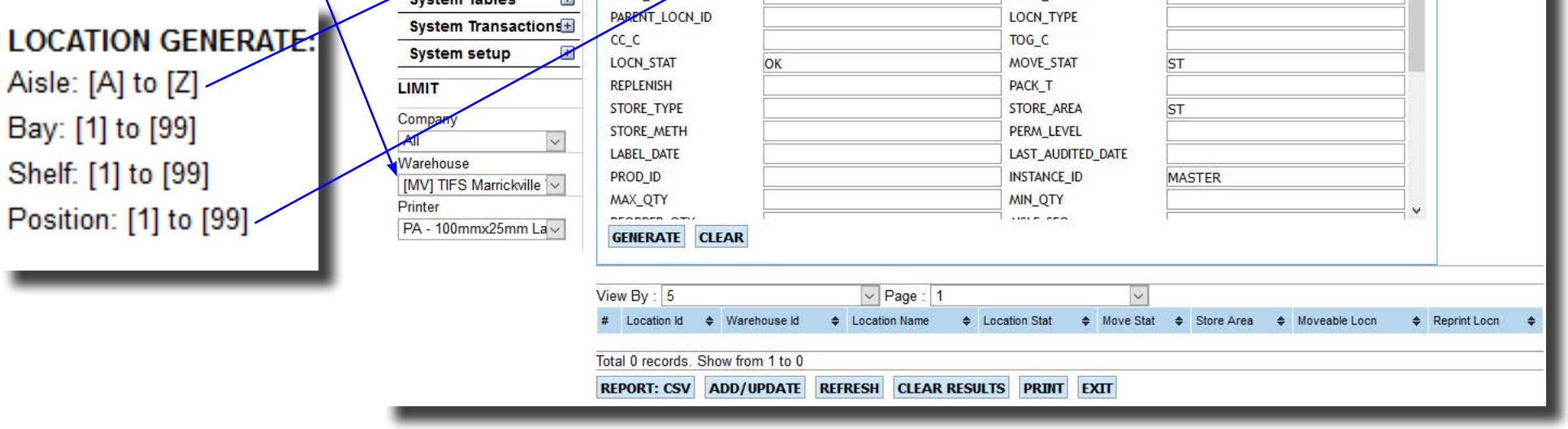
Whilst Repository Locations can be imported from an external program (Excel, text editor) it requires close knowledge of the LOCATION table.
An easier option is to use LOCATION_GENERATE to generate sequences of Locations.
A sequence of locations apply where groups of Locations possess common properties and are adjacent to each other.

Step 1. Repository

Select the Repository (Warehouse) the new locations are required.

Step 2. Enter Start and Finish values.

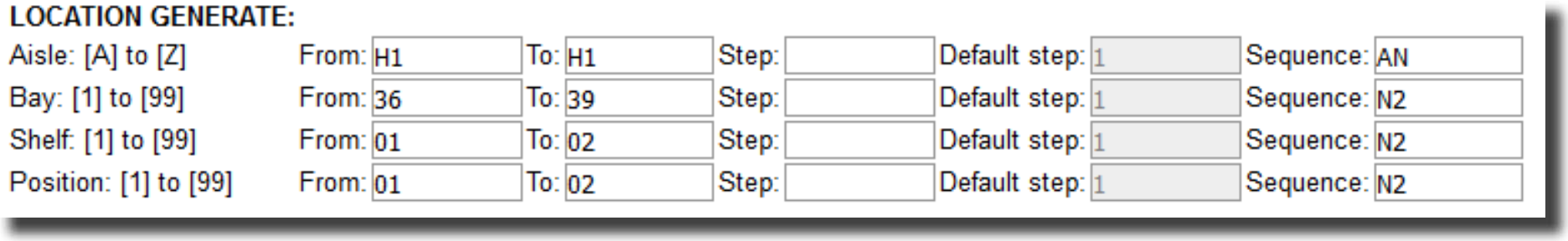
Complete the Aisle, Bay Shelf and Position Start and Finish values....



Generate MINDER Locations

Start and Finish values...
The following values will create a set of Locations where:

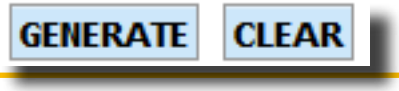
- Aisle = 'H1' with
- Bay Numbers From: = '36' To: '39 = '36', '37', '38' & '39' with
- Levels (Shelf) = '01' & '02' with
- Positions = '01' & '02'.
- Total Locations = 1 (Aisle) X 4 (Bays) X 2 Levels (Shelf) X 2 Positions = 16 Locations.



The 'Step:' option enables incrementing by other than 1 (default step = 1).
e.g. If Odd Bays are located on the left side of each Aisle and the Even on the rightside then set Bay Step: = 2.

The 'Sequence:' = 'AN ' means the format of the Aisle value where 1st position uses only Alphabetic letters (A,B,C,D, ... to Z) and the 2nd position uses Numeric values - 0,1,2, ... to 9.
'N2' = 2 Numeric digits,
'A2' = Two alphabetic characters.

Step 3. GENERATE



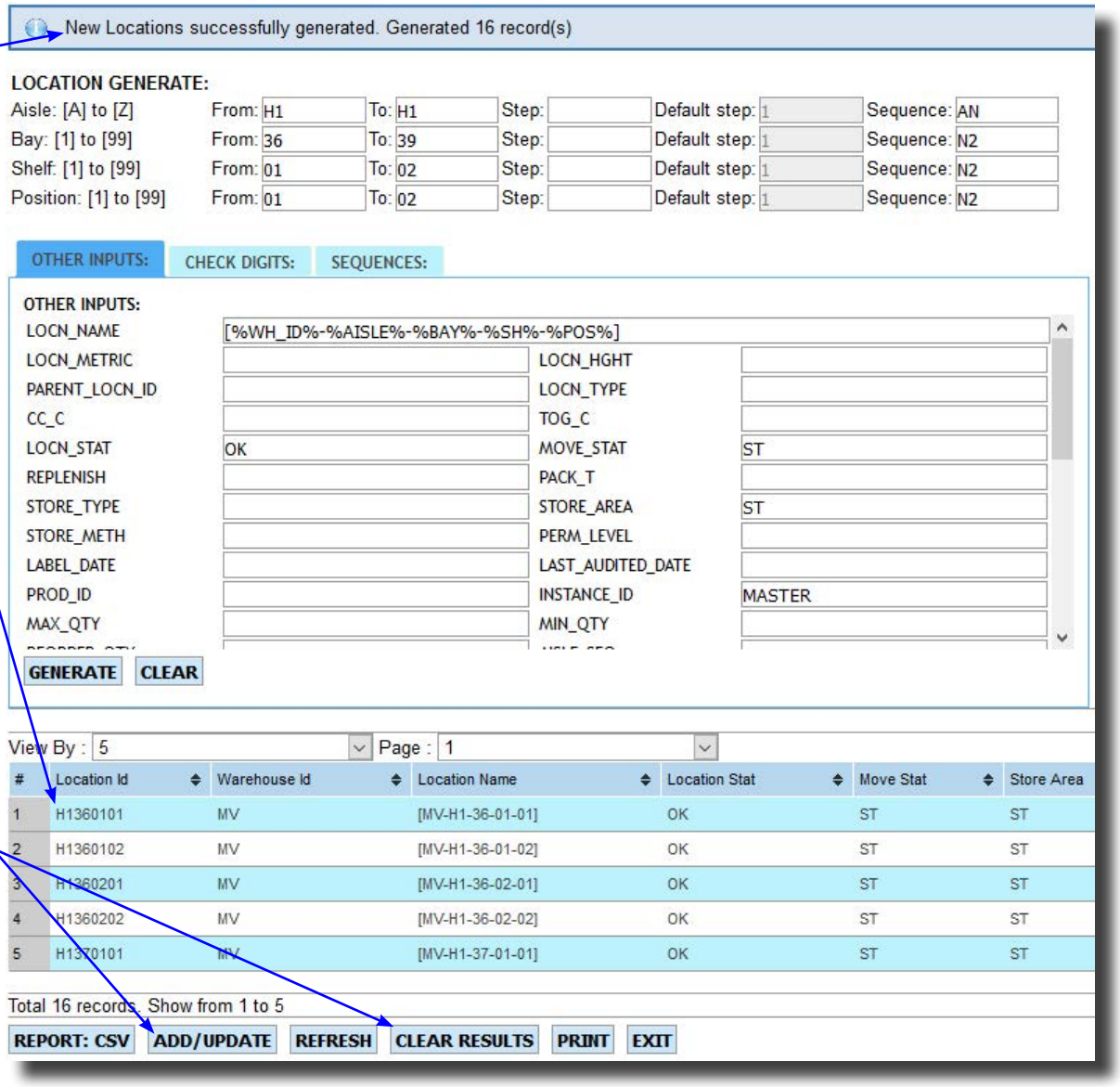
The GENERATE button creates a set of Locations using the 'From' and 'To' sequences.

The top of the screen shows the total number of Locations generated.

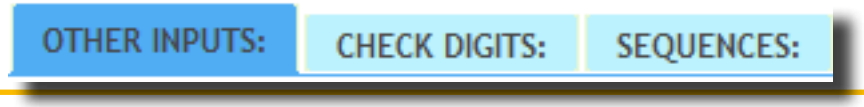
These Locations are displayed at bottom of the screen but are not yet inserted in the MINDER database until the 'ADD/UPDATE' button is selected.

The 'CLEAR RESULTS' button deletes the created Locations unless ADD/UPDATE or 'REFRESH' button have been used.

The 'PRINT' will print the generated Locations provided the correct Label Printer (and label media to suit) is selected using the Printer selection below the LIMIT Menu.



Step 4. OTHER INPUTS



The 'OTHER INPUTS' are values which will be included in new Locations:

LOCN_NAME - MANDATORY

This field hold the Location Name which will be displayed and reported whenever the LOCN_NAME field is used.
The default Name is the following:
[%WH_ID%-%AISLE%-%BAY%-%SH%-%POS%]
Where '%WH_ID%' = placeholder of the selected Warehouse ID,
%AISLE% = Aisle placeholder,
%BAY% = Bay placeholder,
%SH% = Level (Shelf) placeholder,
%POS% = Position placeholder.
'-' will be printed between each placeholder plus the opening '[' and closing ']' characters.
Example LOCN_NAME = '[MV-H1-36-01-01]'.

LOCN_METRIC

This is not currently used in the MINDER system.

LOCN_HGHT

This is an optional field used to hold the height from the warehouse floor.
Data is held as NUMERIC(9,3)

PARENT_LOCN_ID

This is used with Moveable Locations and where a home location is required to return the Moveable Location back into.

LOCN_TYPE

This is an optional field used to store a Location Property that maybe required for storage.

CC_C

This field is used to store the Cost_Centre Code.

TOG_C

This Field holds the Turnover Grouping code. E.g. 'A', 'B' or 'C'. This important for cyclic counting whereby TOG = 'A' may have higher counts per annum versus lower counts for TOG = 'C'.

LOCN_STAT - MANDATORY

This field holds the Location Status where 'OK' = Okay to use for storage.
Any other value means it will not be used for storage. E.g 'CL' = CLosed for Stocktake or 'OD' = Overdue - this occurs when a Borrower (this is any location that has WH_ID/Repository = 'XB') has overdue objects and cannot be allowed to make further borrowings.

MOVE_STAT - MANDATORY

This field plays an important function with each and every transfer of inventory.
As part of inventory Transfers MINDER checks that the Objects ISSN.ISSN_STATUS plus the LOCATION.MOVE_STATUS of the location into which the transfer is to occur is allowed using the SYS_MOVES Table.
Examples are probably the best way to explain:
Object 'FROM_STATUS' = 'ST' (Saleable Stock)
Location's MOVE_STAT = 'QR (Quarantine Location)
MOVE_ALLOWED = 'T' (i.e. Transfer is allowed)

Object 'FROM_STATUS' = 'QR' (Under Quarantine Stock)
Location's MOVE_STAT = 'ST' (Saleable Stock Location)
MOVE_ALLOWED = 'F' (i.e. Transfer is NOT allowed) because the Object holds Under Quarantine Status and simply cannot be transferred into Salesable stock until it has been inspected and it's 'FROM_STATUS' = 'ST'.

If the SYS_MOVE.UPDATE_FLAG = 'T' then the Object's ISSN_STATUS will be updated with the LOCATION.MOVE_STATUS.
Some Transfers maybe allowed but not their Update of ISSN_STATUS.

Locations that belong to WH_ID = 'SY' may have MOVE_STAT = NULL as these Locations are

exempt from the SYS_MOVES rules.

REPLENISH
Used to indicate Product stored at this Location will be subject to Minimum, maximum and ReOrder limits. Typically this applies to Pick Faces that must be replenished from Bulk Locations.
This feature requires configuration of Transfer Requests.

PACK_T
This field is not currently used by MINDER.

STORE_TYPE - MANDATORY
This field describes HOW inventory is stored within the Location:
'FS' = Floor Stacked,
'PR' = Pallet Racking,
'CL' = Carton Live Storage...

See STORE_TYPE table for options.

STORE_AREA - MANDATORY
This field describes the WHAT processing of inventory occurs at the Location:
'TS' = Testing
'RC' = Receiving
'DS' = Despatch Assembly
'ST' = Saleable Stock storage
'QR' = Quarantine Storage

STORE_METHOD - MANDATORY
This field describes the materials handling used at the Location:
'PD' = Pedestrian
'FL' = Forklift required
'FS' = Floor Stacked - Pedestrian and Forklift

PERM_LEVEL
This field is not currently used by MINDER.

LABEL_DATE
This field is not currently used by MINDER.

LAST_AUDITED_DATE
This field records when it was last Audited.
This is important for ensuring cyclic counting policies can be followed.

PROD_ID
If this field is populated with a PROD_ID then it restricts which Products can be stored inside the Location.

INSTANCE_ID - MANDATORY
This field requires 'MASTER ' (MASTER + 4 spaces) to be entered. Otherwise it may nbot be used particulalry with Moveable Locations.

MAX_QTY
See REPLENISH

MAX_MIN
See REPLENISH

REORDER_QTY
See REPLENISH

AISLE_SEQ
This field is not currently used by MINDER.

BAY_SEQ
This field is not currently used by MINDER.

SHELF_SEQ
This field is not currently used by MINDER.

COMPARTMENT_SEQ
This field is not currently used by MINDER.

LAST_UPDATE_DATE
This field indicates when the Location record was last modified. We strongly recommend populating this field (must used correct Data format).

LAST_UPDATE_BY
This field indicates who updated the Location.
We strongly recommend this field is populated.

PUTAWAY_QTY
This field is not currently used by MINDER.

LOCN_OWNER
This field is used to restrict which Inventory Owners can stire inside this Location (Default = Empty means all Owners allowed).

CURRENT_WH_ID - DEFAULT = 'F'
This field is used with MOVEABLE Locations and indicates which Repository the Moveable Location has been trasnferred into. Mandatory for Moveable Locations.

SSN_TRACK
This field is not currently used by MINDER.

LOCN_SEQ
This field is used for Picking Sequence but only if one Location is being generated.
See 'SEQUENCES' Tab for adding LOCN_SEQ to a sequnece of Locations.

TEMPERATURE_ZONE
This field is used to categorised Locations with a common Temperature.
Uses a 2 character Code and not -Degrees Celcius. .e.g '20' = Minus 20 Degrees Celcius, '5' = - 5 degrees Celcius.
Requires the PutAway function to be configured to make use of Temperature Zones.

LOCN_TARE_WEIGHT
This field is used to hold the Tare weight of a Moveable Location. E.g. Shipping Container.
This becomes important with Carrier Chain of Responsibility Laws whereby the Warehouse must calculate the total weight of each shipment and ensure they comply with road carriage weight limits.

LOCN_TARE_WEIGHT_UOM
This field deifines the Units of Measure for the LOCN_TARE_WEIGHT.

LOCN_INT_DIMENSION_X, Y & Z
These fields hold the X,Y & Z Internal Dimensions and which can be used for Slotting of Products.

LOCN_OUT_DIMENSION_X, Y & Z
These fields hold the X,Y & Z Outside Dimensions and which can be used for Carrier Volume calculations with Moveable Locations.

LOCN_DIMENSION_UOM
These fields hold the Units of Measure for the LOCN Dimensions.

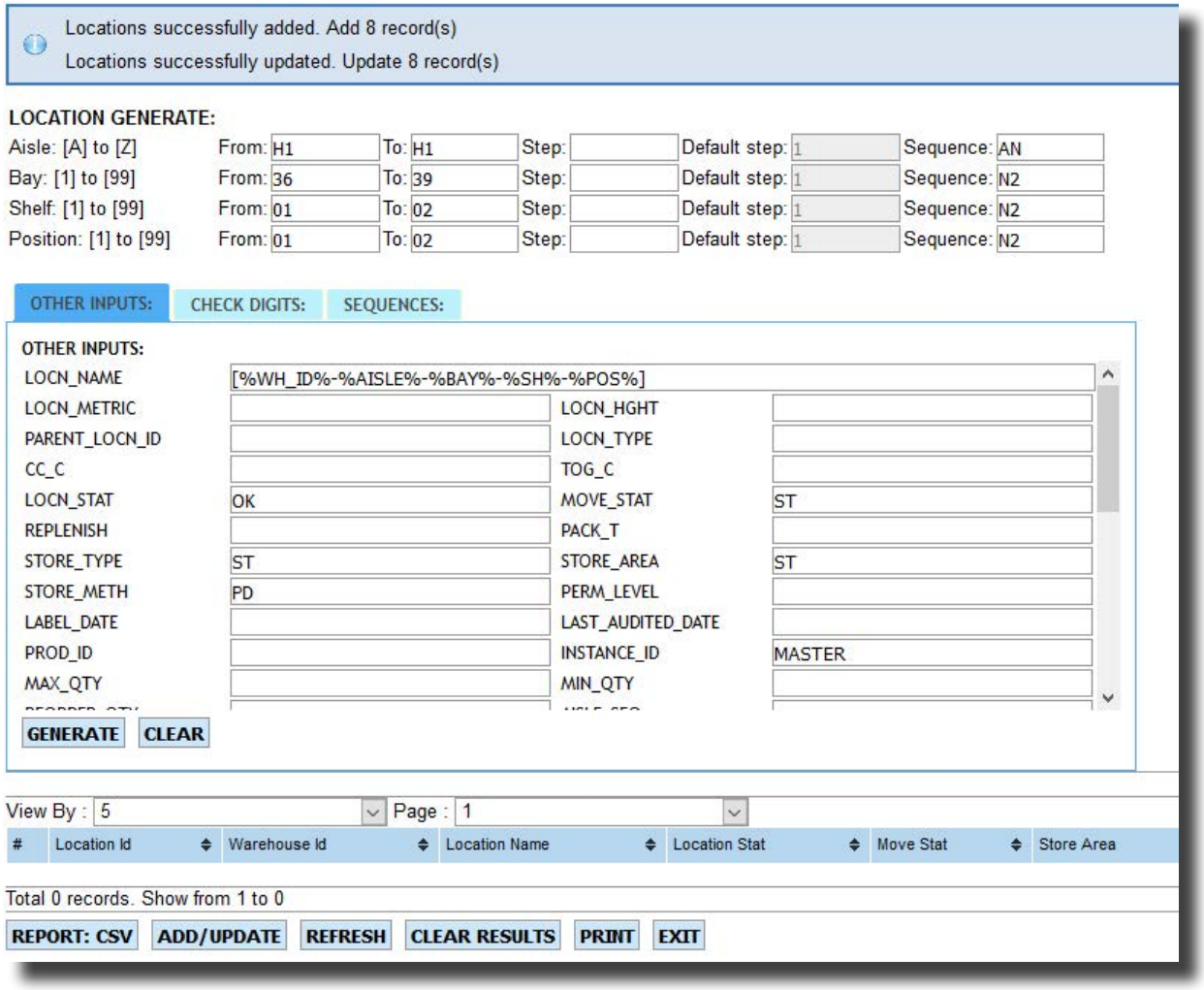
ZONE_C
These fields is used to hold a Zone Code which is used for Picking planning.

LOCN_REPRINT DEFAULT = 'F'
This field is used to restrict which Locations can be reprinted.

Step 5. ADD/UPDATE

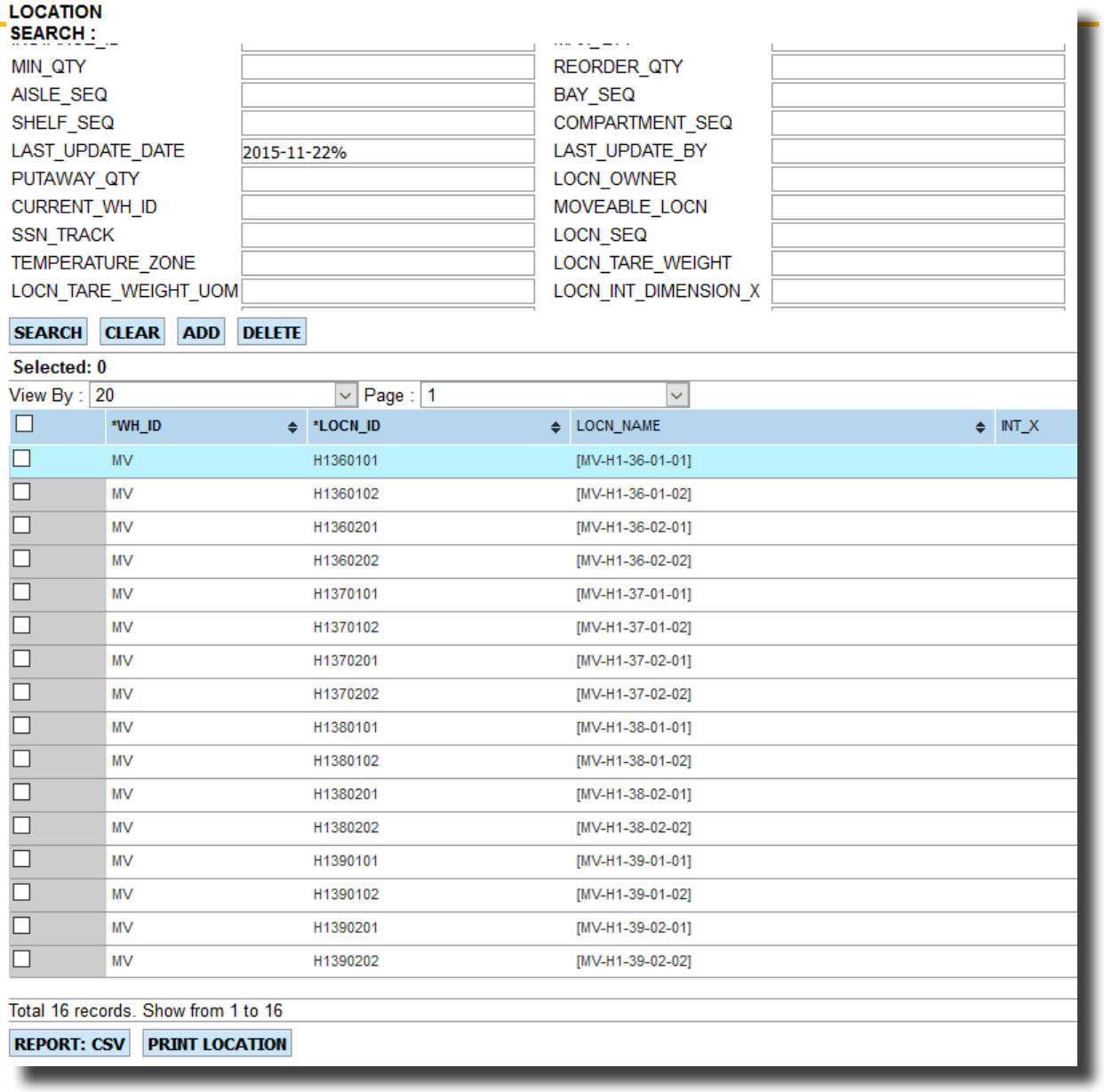
The 'ADD/UPDATE' button causes the generated Locations to be added to the Location Table or if the Locations already exist then the records will be updated.

Example shown right shows 8 new records created plus 8 updated records.



Checking Created Locations

The Search filter used on the LOCATION table where LAST_UPDATE_DATE = '2015-11-22%' shows the Locations created or updated...



REPORT:CSV

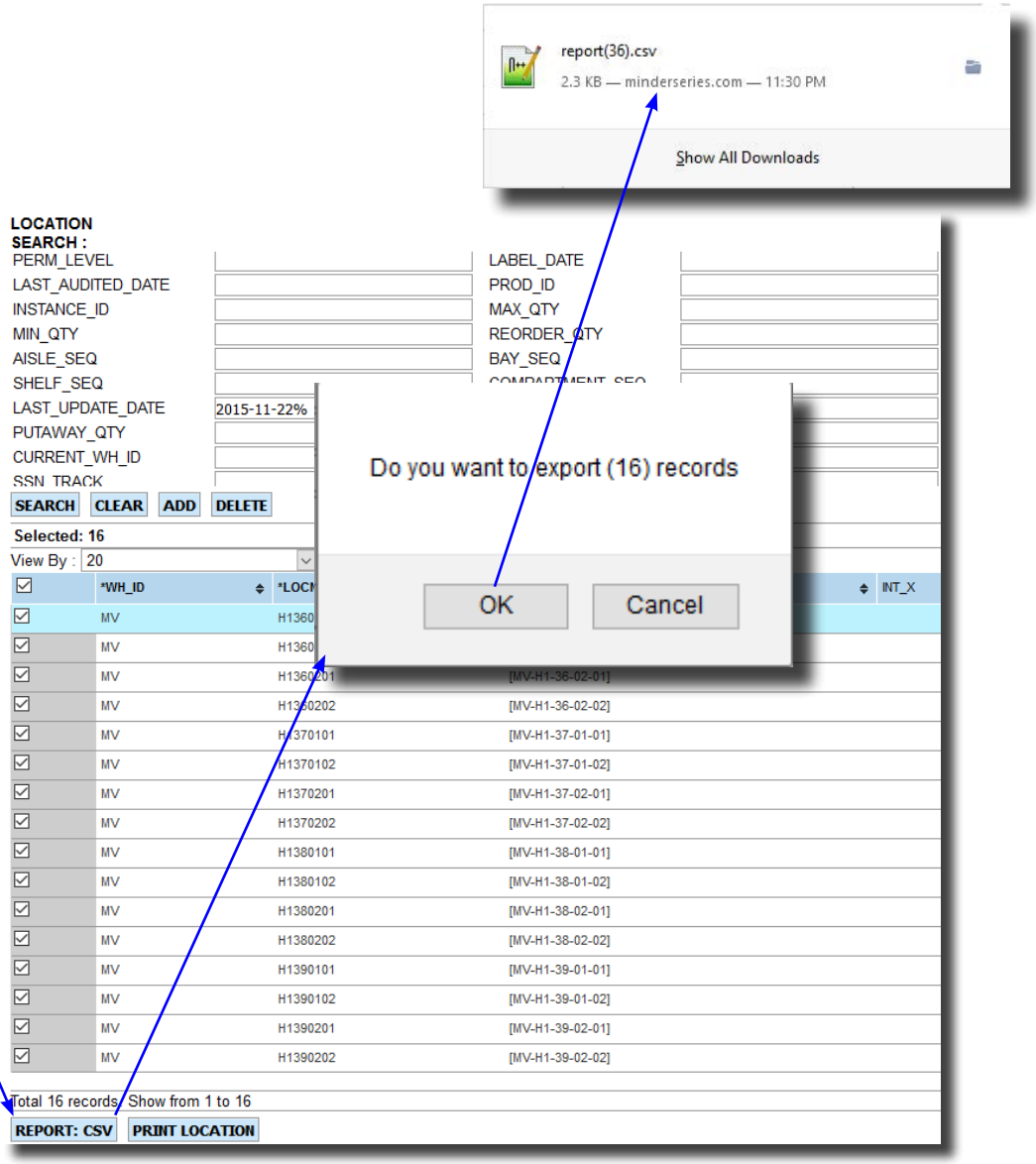
Using the Location Table and selecting the newly created or updated locations these can now be exported as .CSV (comma Separated Variable) format and emailed to B&DCS to Print onto durable Location label media.

Select all the rows reported (may need to set View By to ensure every required Location record is listed.

Select 'REPORT:CSV' button

Select 'OK' to export records...

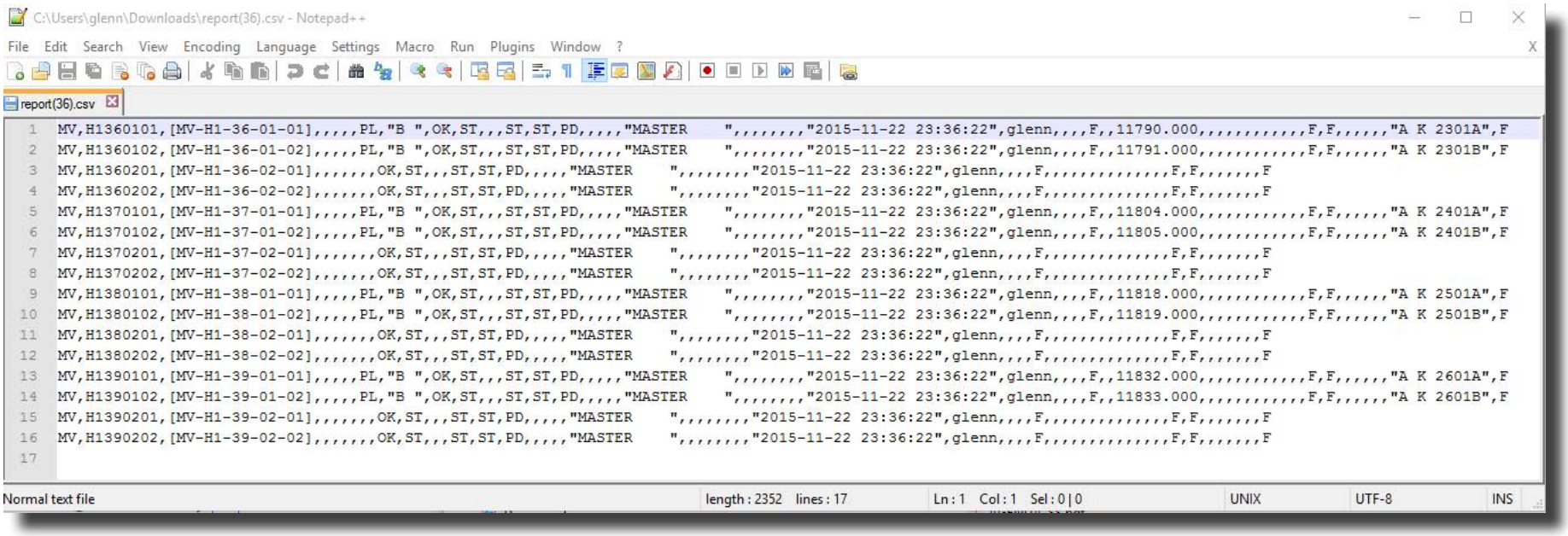
Click on the Browser Download icon to display details of the created .csv data file...



REPORT:CSV - LOCATIONS

Using Notepad++ (or Notepad BUT NOT EXCEL) should show the exported Locations shown below.

Email these to B&DCS with a Purchase Order who will then print the required labels...



ADD CHECK DIGITS

This option is only required at sites which operate Voice Picking technology.

ADD PICKING SEQUENCE

Description to be completed...