Put it Away with a Barcode

Barcode Locations in Aleph

Billy Rawles, Senior Database Engineer

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Introduction

Billy Rawles, Senior Database Engineer

38 years IT experience

28 Years with Church History

The Church of Jesus Christ of Latter-day Saints

World Wide Church

14 Million Members

Church Headquarters in Salt Lake City. Utah.

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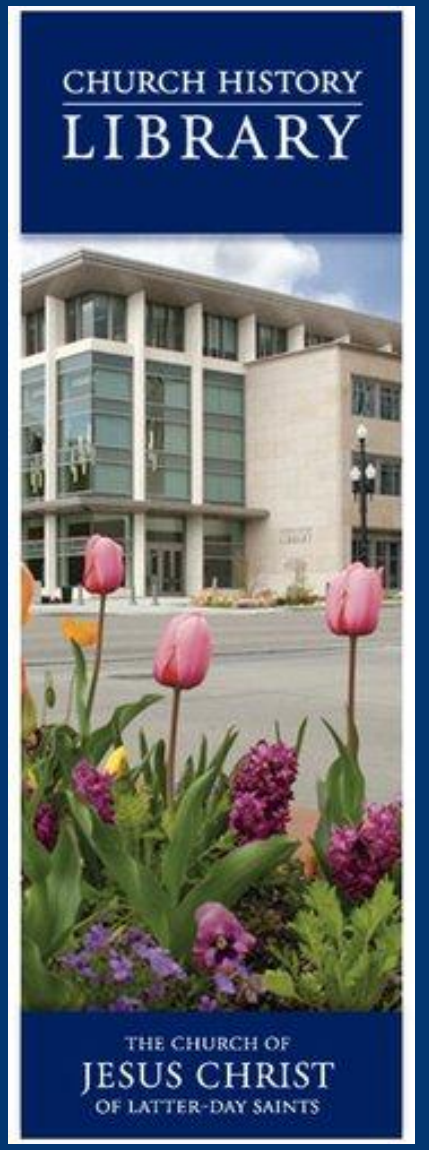
Church History Library

Collections consist of manuscripts, books, Church records, photographs, oral histories, architectural drawings, pamphlets, newspapers, periodicals, maps, microforms, and audiovisual materials. The collection continues to grow annually and is a prime resource for the study of Church History. Our collection contains approximately:

- 270,000 books, pamphlets, magazines, and newspapers
- 240,000 collections of original, unpublished records (journals, diaries, correspondence, minutes, etc.)
- 13,000 photograph collections
- 23,000 audiovisual items

- Library, Archives, and Museum collections



Storage Facilities

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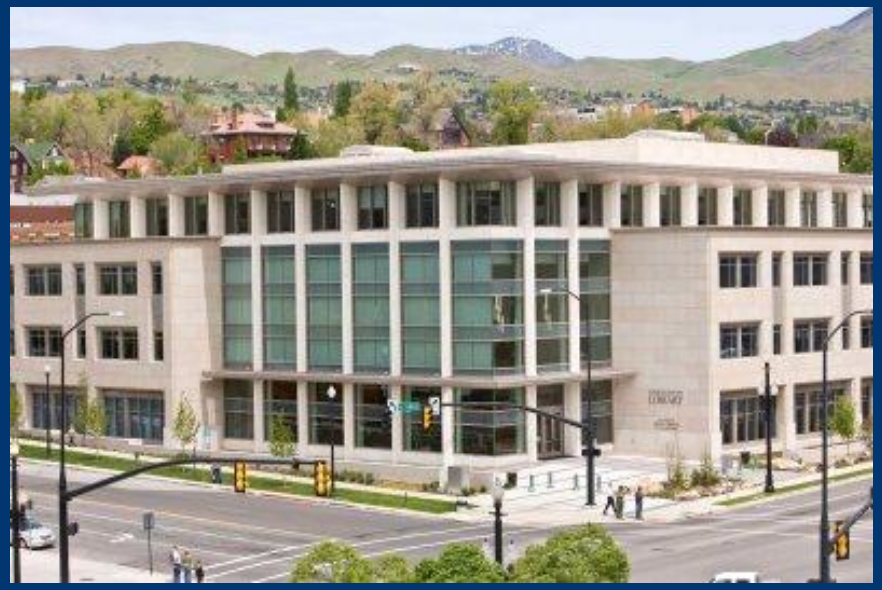

- Open Stacks in the Library
  - About 1000 books
  - Stored by call number
- Closed Stacks in the Library
  - Ten Main Rooms kept at 55 Degrees, 35% humidity
  - Two Rooms kept at -4 Degrees
- Granite Mountain Records Vault
  - Off site storage facility

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History

- We implemented Aleph in October 2010
- Old System
  - Assigned barcode's to shelf locations
  - Items assigned to a location using the barcode
  - Audit of shelf done with barcodes

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Storage Containers

A storage container is a box or microfilm reel that has material from multiple collections

Barcode Standard

Locations – 10 digit numeric

Items and Storage Containers – 12 digit numeric

Manage Locations and Storage Containers

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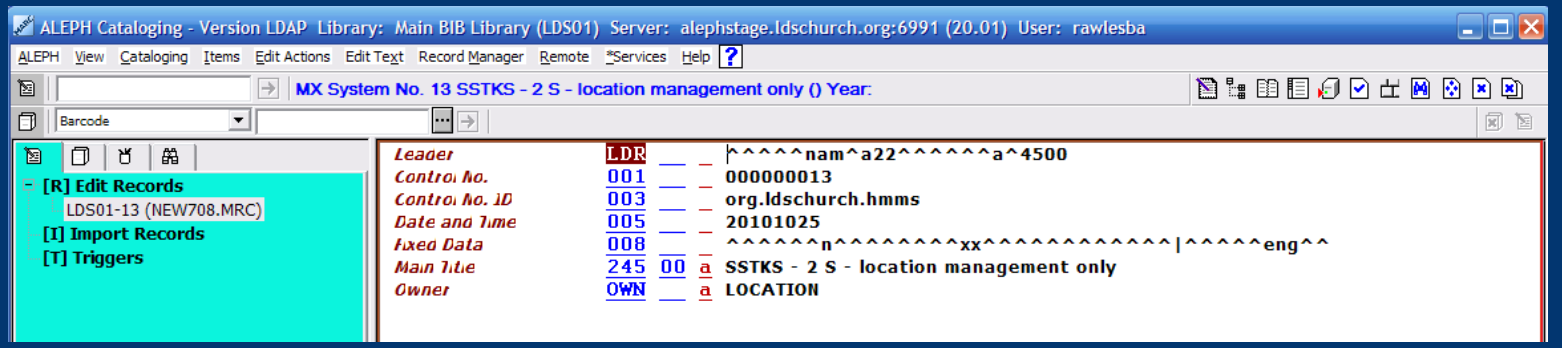
- Locations and Containers are created as Items in Aleph
- Created BIB records



- Two Material Types
  - LOC for locations
  - CONT for storage containers

Seq.	Barcode	Sublibrary	Item/Cont Desc
20841	1001399949	Secure Stacks	2 S 7 8 1
20842	1001399950	Secure Stacks	2 S 7 8 2
20843	1001399951	Secure Stacks	2 S 7 8 3
20844	1001399952	Secure Stacks	2 S 7 8 4
20845	1001399953	Secure Stacks	2 S 7 8 5
20846	1001399954	Secure Stacks	2 S 7 8 6
20847	1001399955	Secure Stacks	2 S 7 8 7

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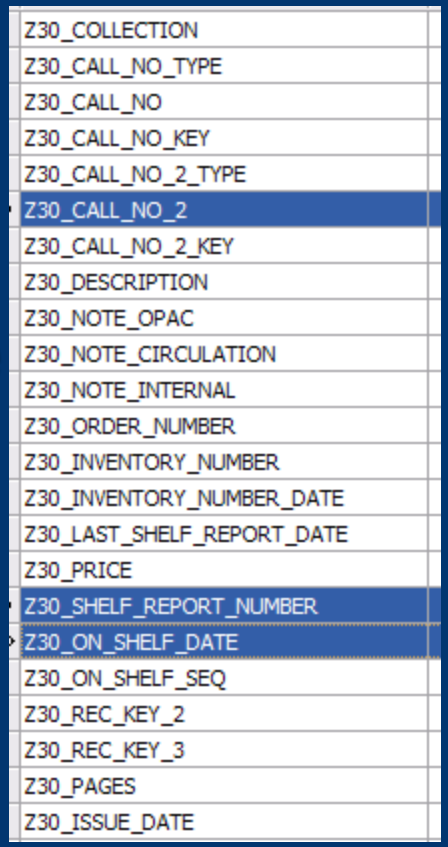
Columns used in Item Record (Z30)

- Call Number 2 – Location Description
  - Displayed in Aleph GUI and on Printed Call Slips
- Shelf Report Number – Location Barcode
  - To maintain the assigned location
- On Shelf Date – Date location assigned



We do not use the Aleph Shelf Reports.

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Database Trigger control of items

- Only the Put-Away program can:
  - Assign a location barcode (SHELF REPORT NUMBER)
  - Modify the location description (CALL NO 2)
- If location barcode (SHELF REPORT NUMBER) is assigned the item cannot be deleted
- Sub-library of the item is based on the sub-library of its location
- We have a barcode that will clear the location barcode (SHELF REPORT NUMBER) and location description (CALL NO 2)

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Put-Away program

- JAVA application
- Changed the existing program to interface with Aleph
- Query data directly from the Oracle Database
- Update Z30 item table using the Aleph API

- Used on a wireless laptop on a cart in storage area

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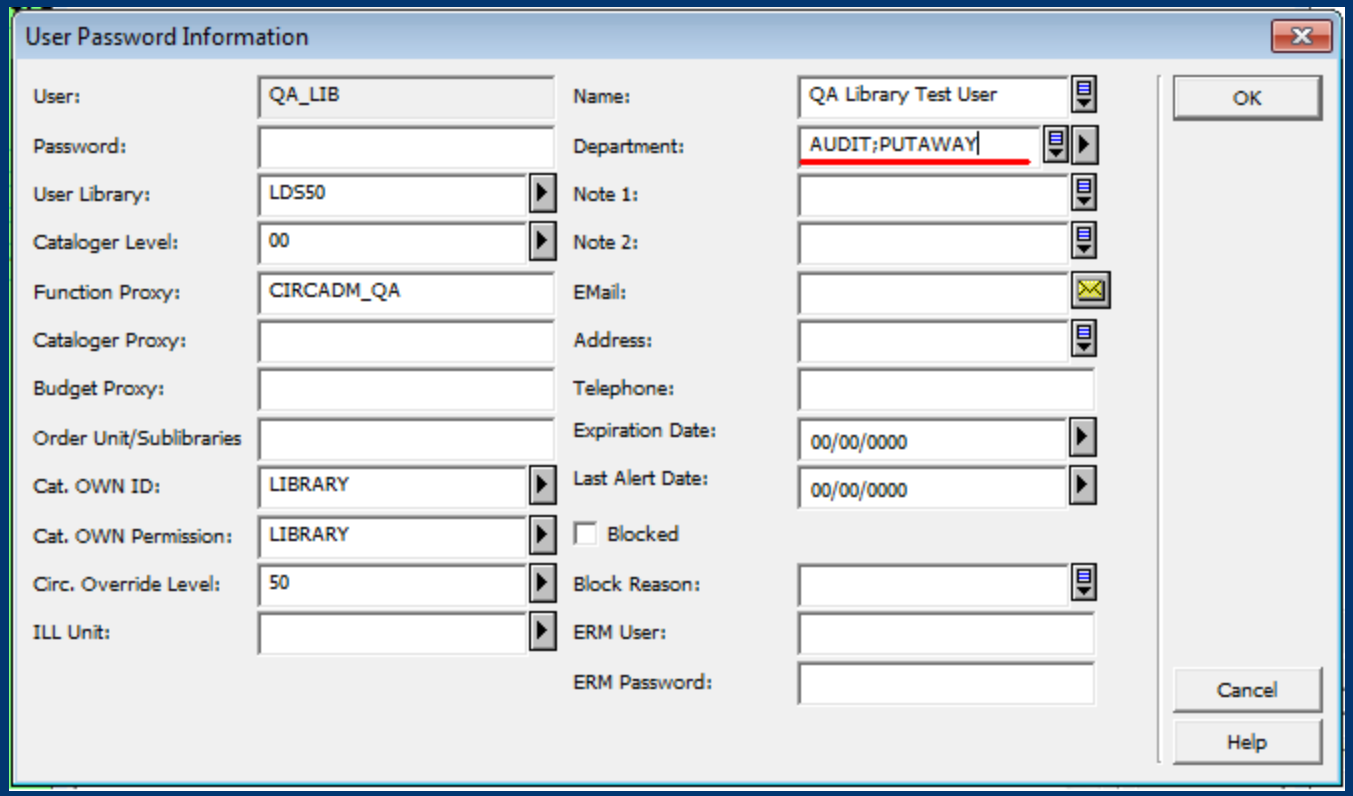
Put-Away Security

Staff user in Aleph are assigned privileges to execute Put-Away process



Put-Away Process

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- Scan the barcode of the location
  - Displays the location scanned
  - Displays all the items currently at that location
- Scan the item to be placed at the location
  - The item is displayed
  - Item is updated
    - Shelf Report Number — barcode of location
    - Call Number 2 — description of location
    - On Shelf Date — today's date
    - Sub-Library — locations sub-library

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Put-Away

Location – Description and Barcode

Items on Shelf – Description, Call Number, and Barcode

Put-Away

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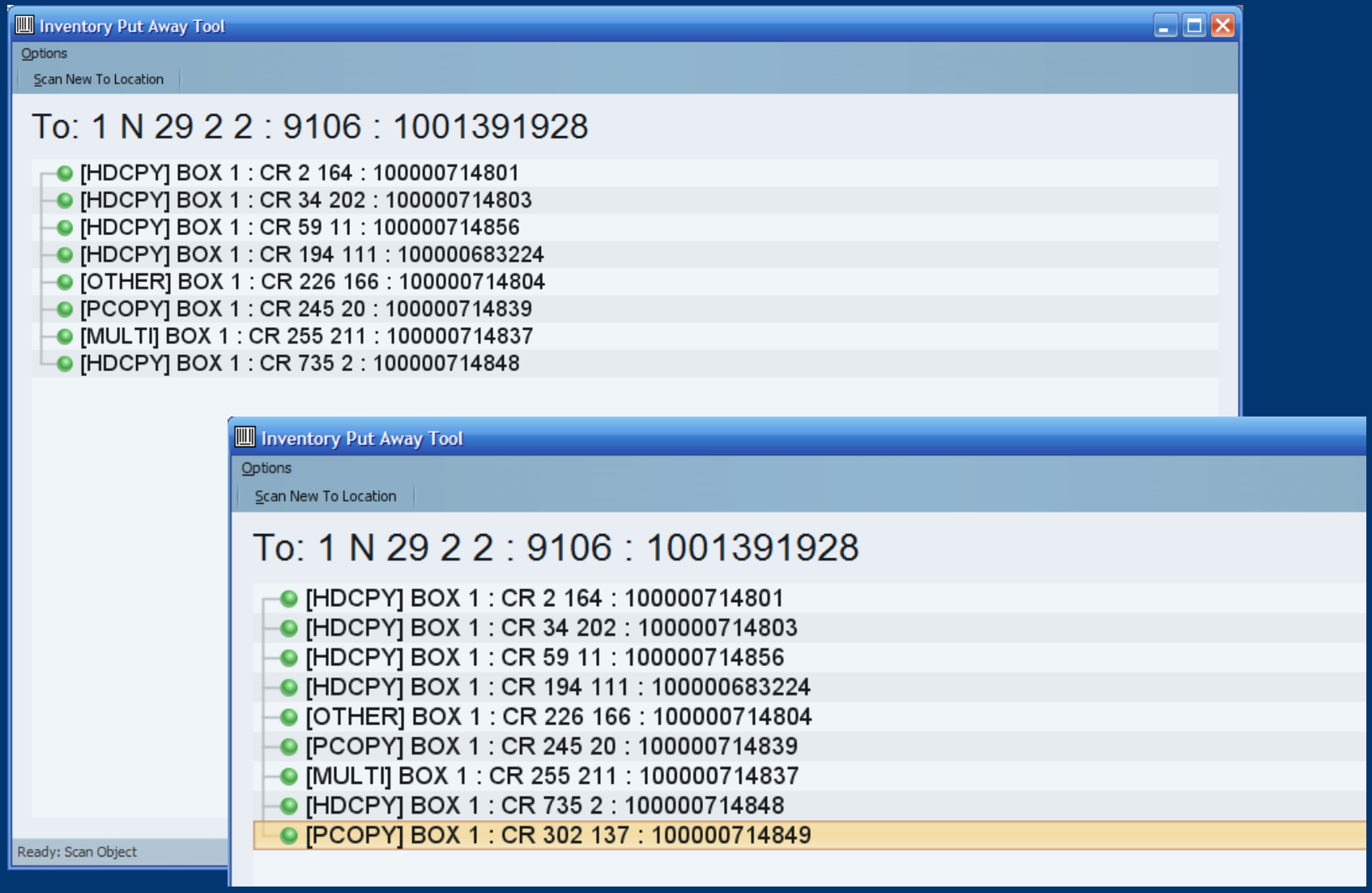
Scan item to location



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Put-Away

Shelf with Storage Containers

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Put-Away

Storage Container with items

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Shelf Audit

Shelf Audit Process

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- Scan the location
  - Displays the location
  - Displays Items at the location in left column
- Scan the items
  - Moves the item to the right column
- Set status of items
  - Moves the item to the right column
- Finish Location
  - Sets the location as audit complete

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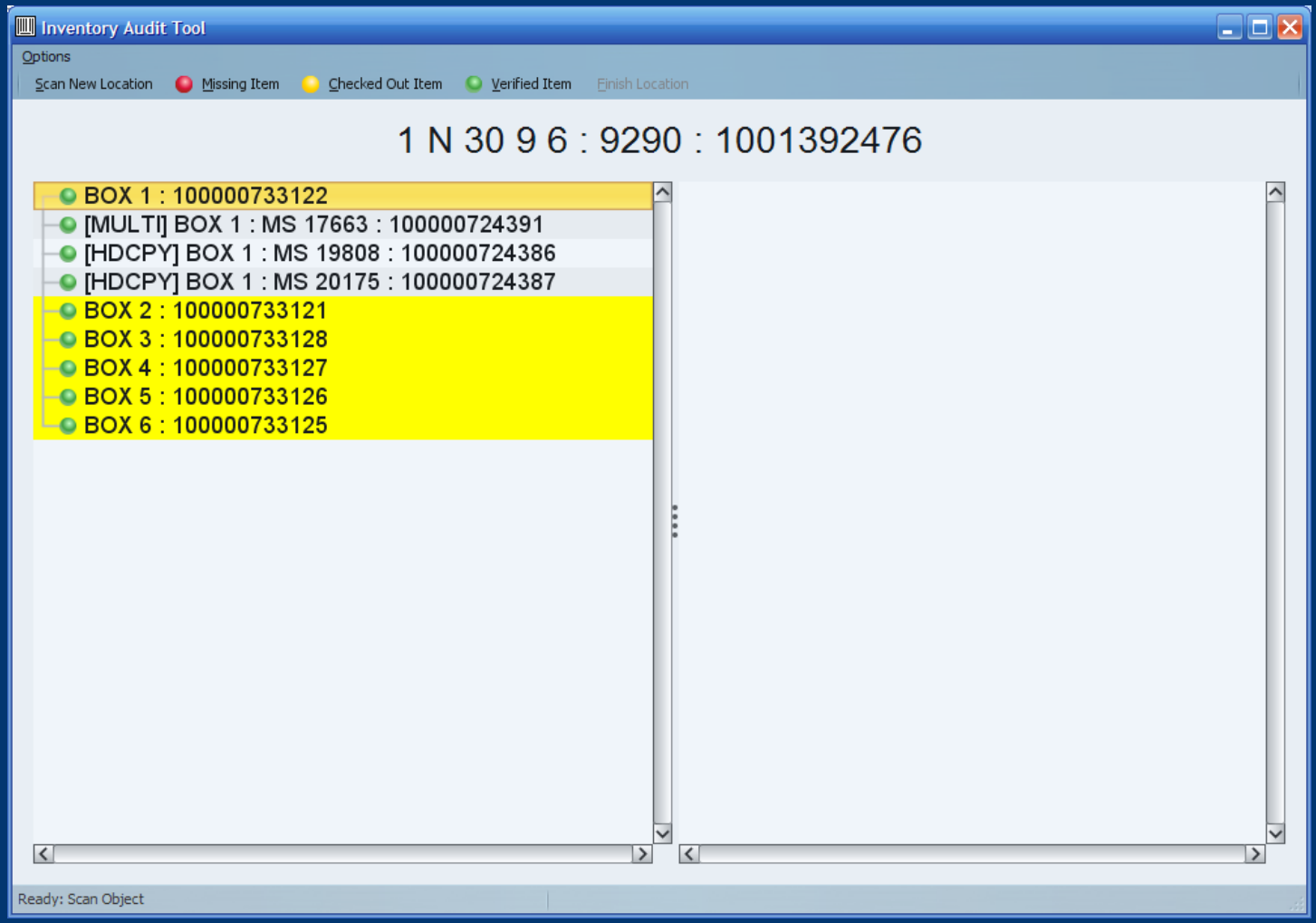
Shelf Audit

Location Scan - Checked out Items



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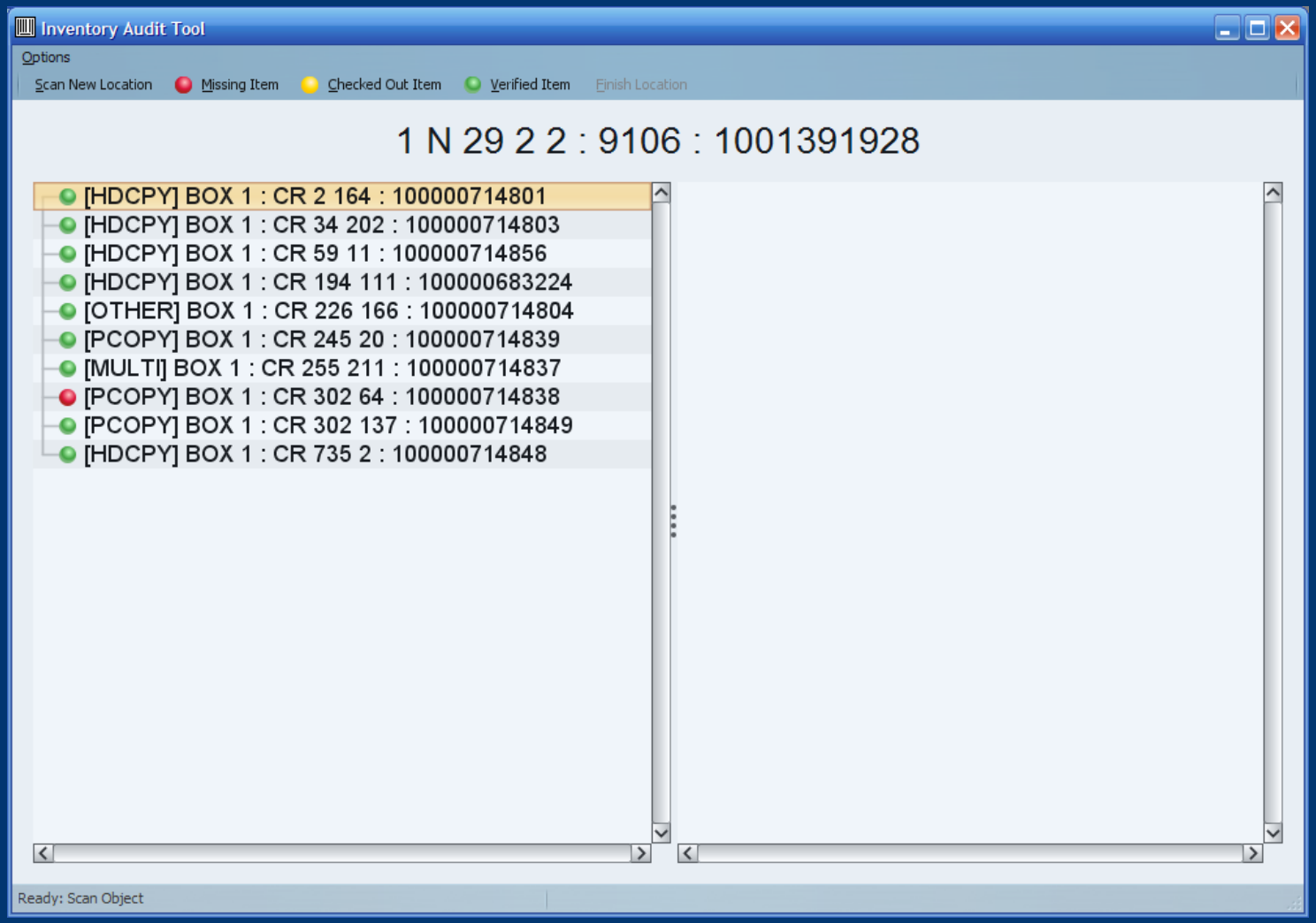
Shelf Audit

Last audit results



Shelf Audit

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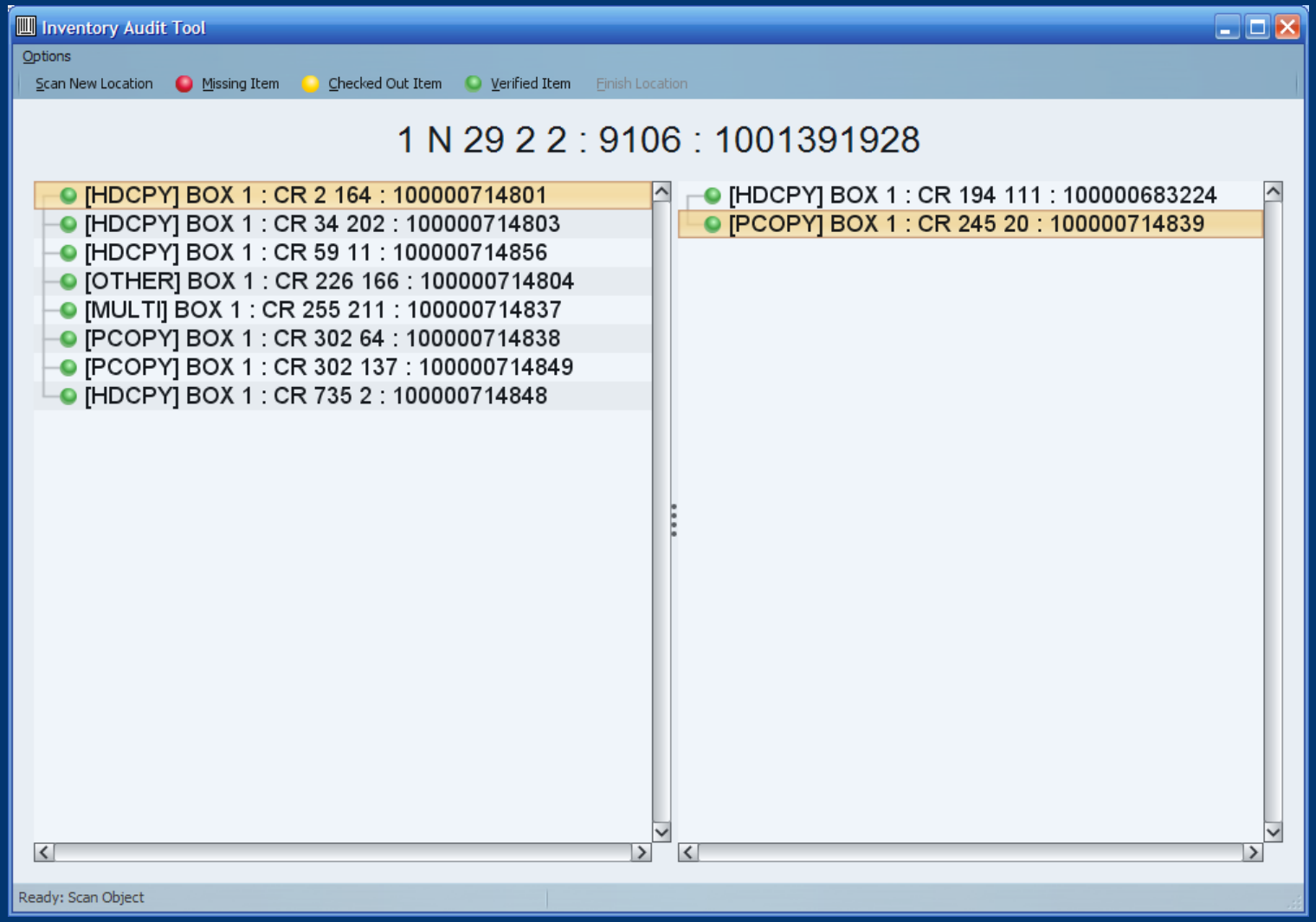
Item Scan

Each item scanned is moved to the right column



Shelf Audit

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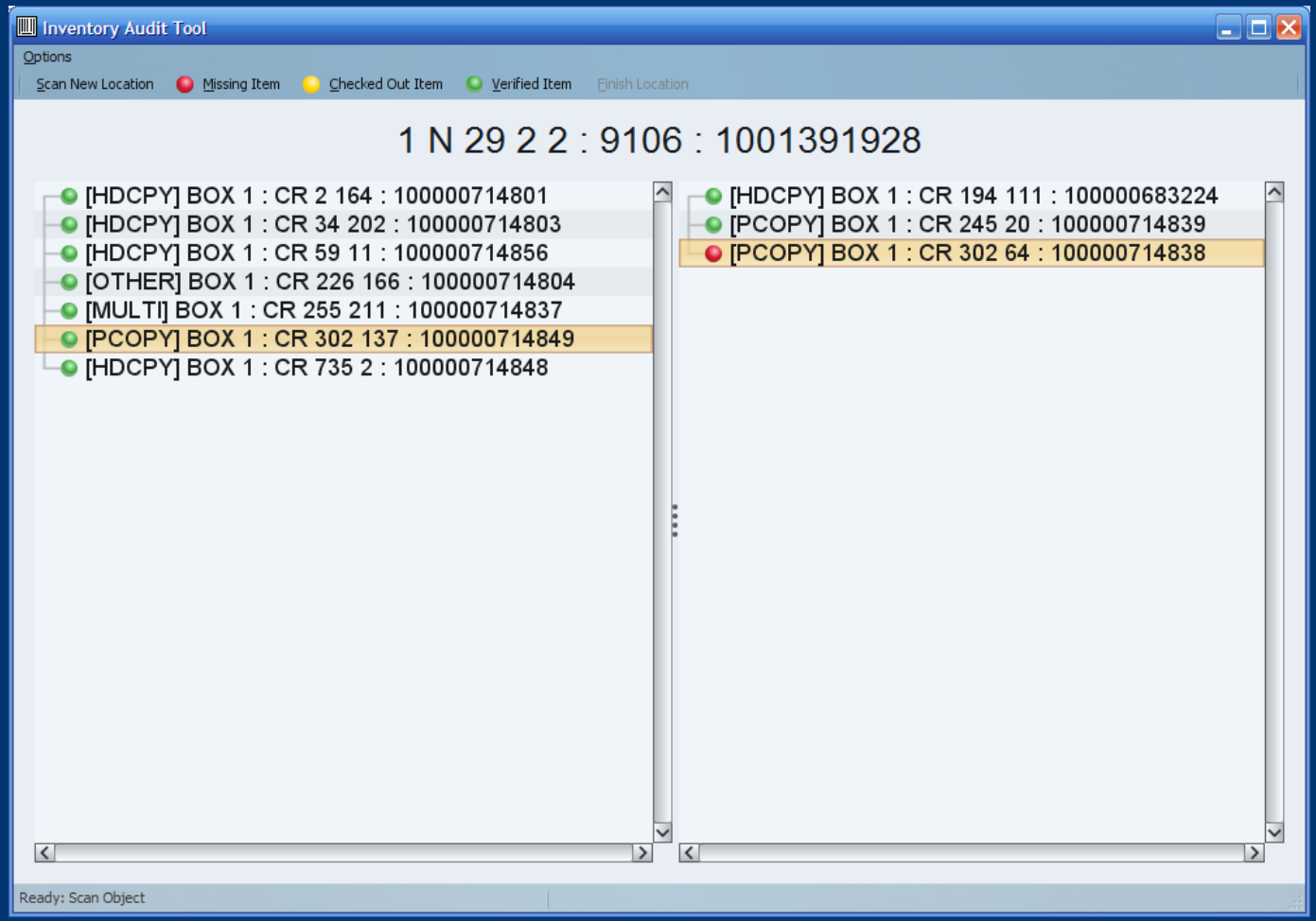
Item status

Missing Item Check Out Item Verified Item



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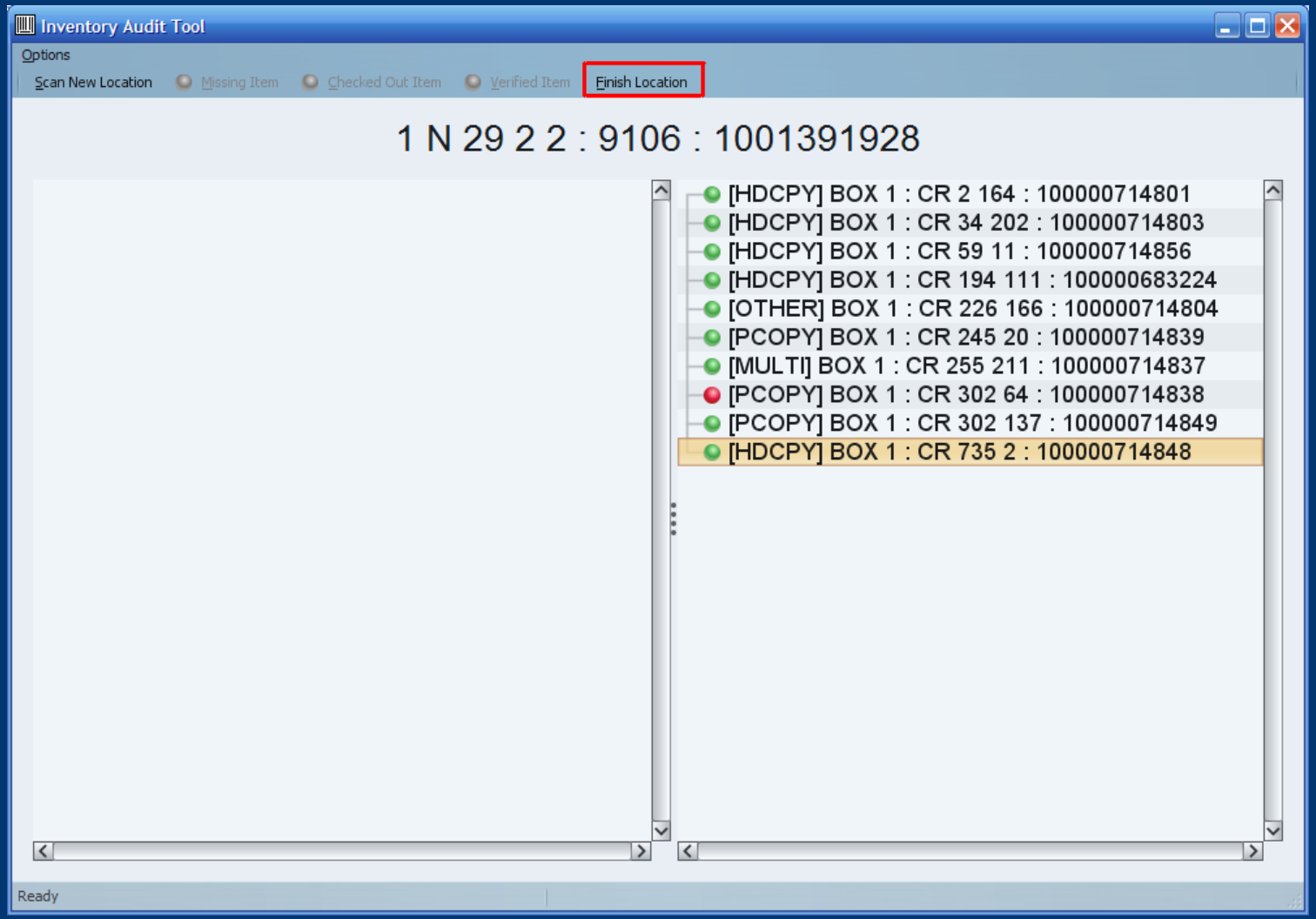
Shelf Audit

Location Complete



Shelf Audit

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We created two tables in the database

Item data stored in the database

USERNAME	AUDIT_DATE	AUDIT_TYPE	Z30_BARCODE	Z30_LOC_BARCODE
RAWLESBA	4/29/2011 7:44:15 AM	SCANNED	100000683224	1001391928
RAWLESBA	4/29/2011 7:44:43 AM	SCANNED	100000714839	1001391928
RAWLESBA	4/29/2011 7:47:03 AM	MISSING	100000714838	1001391928
RAWLESBA	4/29/2011 7:50:50 AM	VERIFIED	100000714801	1001391928
RAWLESBA	4/29/2011 7:50:52 AM	VERIFIED	100000714803	1001391928
RAWLESBA	4/29/2011 7:50:53 AM	VERIFIED	100000714856	1001391928
RAWLESBA	4/29/2011 7:50:54 AM	VERIFIED	100000714804	1001391928
RAWLESBA	4/29/2011 7:50:55 AM	VERIFIED	100000714837	1001391928
RAWLESBA	4/29/2011 7:50:56 AM	VERIFIED	100000714849	1001391928
RAWLESBA	4/29/2011 7:50:59 AM	VERIFIED	100000714848	1001391928

Location data stored in the database

USERNAME	AUDIT_DATE	AUDIT_TYPE	Z30_LOC_BARCODE
RAWLESBA	4/29/2011 7:51:11 AM	COMPLETE	1001391928

Reports have been created from this data to allow for the management of the audit process

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Questions and Answers

Billy Rawles

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