

# TapeTrack Reconciliation Report

The TapeTrack Reconciliation Report is created by the Command Line Program [TMSS10Reconcile](#).

The program runs in 4 sequential phases:

- **Phase 1** Load of the TapeTrack Scan-Map from a Scan-File.
- **Phase 2** Reconciliation of the Scan-Map.
- **Phase 3** Listing of unreferenced Scan-Map items.
- **Phase 4** Report Production.

## Report Input

### TapeTrack Customer Status

ID	Current Location	Target Location	Flags	Move Time	Due in	Container	Next Move
000001L3	Library		CnNt		Unspecified	Unassigned	Permanent
000002L5	Offsite Vault		CnNOt		Unspecified	Unassigned	Permanent
000003L5	Offsite Vault	Library	CMnNtZ	M37:17	Unspecified	Unassigned	Permanent
000004L6	Offsite Vault	Library	CMnNtZ	M37:17	Unspecified	Unassigned	Permanent
000005L6	Offsite Vault	Library	CMnNtZ	M36:43	Unspecified	Unassigned	Permanent
000006L6	Library		CnN		Unspecified	Unassigned	Permanent
000007L6	Library		CnNt		Unspecified	Unassigned	Permanent
000008L6	Offsite Vault		CnNOt		Unspecified	Unassigned	Permanent
000009L6	Offsite Vault		CnNOt		Unspecified	Unassigned	Permanent
000010L6	Library		CnN		Unspecified	Unassigned	Permanent

### Scan-File

```
reconcile_2017-11-29.txt - Notepad
File Edit Format View Help
US04.LT0.000002L5
US04.LT0.000003L5
US04.LT0.000004L6
US04.LT0.000005L6
US04.LT0.000009L6
US04.LT0.000010L6
US04.LT0.111111L6
```

## Report Sections

### Load of Scan-Map

The purpose of this phase is to load a [TapeTrack Scan-File](#) and resolve each of the a Scan-File Entries into a [Fully Qualified TapeTrack Barcode](#).

As the [Scan-File](#) is loaded, a [Scan-Map](#) is created.

Alternatively, rather than loading the [Scan-Map](#) from a Scan-File, the [TapeTrack Import Engine](#) can be used to load the [Scan-Map](#). This facilitates loading from Fixed Length Reports, CSV Files and ODBC Data Sources.

The Fully Qualified TapeTrack Barcode can be resolved from an [Unqualified Barcode](#) or an [Extended Attribute](#).

System: TapeTrack			
Report Description: Phase 1: Load Scan-Map from Scan-File			
Production Time: Monday, March 19, 2018 - 10:09:27 (AUS Eastern Daylight Time)			
Report Width: 149 bytes			
Seq.	Record	Barcode	Resolved As
Status	Notes		
OK	1	1 US04.LT0.000002L5	US04.LT0.000002L5
OK	2	2 US04.LT0.000003L5	US04.LT0.000003L5
OK	3	3 US04.LT0.000004L6	US04.LT0.000004L6
OK	4	4 US04.LT0.000005L6	US04.LT0.000005L6


OK	5	5	US04.LT0.000009L6	US04.LT0.000009L6
OK	6	6	US04.LT0.000010L6	US04.LT0.000010L6
OK	7	7	US04.LT0.111111L6	US04.LT0.111111L6
OK	-----			
	-----			

### Reconcile of TapeTrack Volumes

The purpose of this phase is to list all of the [Volumes](#) that are either in, moving to, or unexpected in the specified [Repository](#).

The following statuses may result:

- **Reconciled** if the [Volume](#) is in the Target [Repository](#), is in the [Scan-Map](#) and not moving.
- **Reconciled (Confirmed)** if the [Volume](#) is moving into the specified [Repository](#) and is in the [Scan-Map](#). The [Volume](#) will be Confirmed in the TapeTrack database.
- **Absent from Scan-Map** if the [Volume](#) is confirmed into the specified [Repository](#) and is not present in the [Scan-Map](#). An Audit Flag will be assigned to the [Volume](#).
- **Pending Confirmation** if the [Volume](#) is in a move status out from the specified [Repository](#) and is not overdue at the Target [Repository](#).
- **Overdue at Target** if the [Volume](#) is in a move status to the specified [Repository](#), is not in the [Scan-Map](#) and is now overdue at the Target [Repository](#).
- **Unexpected in Scan-Map** Present in the [Scan-Map](#) but not present at, or moving to, the Target [Repository](#).

 Report headings and spacing have been edited to fit information on web formatting


System: TapeTrack  
 Report Description: Phase 2: Reconcile TapeTrack Volumes against Scan-Map  
 Report Notes: Repository OFFS  
 Production Time: Monday, March 19, 2018 - 10:21:34 (AUS Eastern Daylight Time)  
 Report Width: 169 bytes

Seq	Barcode	Current Rep	Target Rep	Move Time	Overdue
Scanned	Status	Notes			
1	US04.LT0.000002L5	Offsite Vault			No Yes
OK	Reconciled				
2	US04.LT0.000003L5	Offsite Vault	Library	H1:10:39	No Yes
OK	Pending confirmation				
3	US04.LT0.000004L6	Offsite Vault	Library	H1:10:39	No Yes
OK	Pending confirmation				

4	US04.LT0.000005L6	Offsite Vault	Library	H1:10:05	No	Yes
OK	Pending confirmation					
5	US04.LT0.000008L6	Offsite Vault			No	No
NOT-OK	Absent from Scan-Map					
6	US04.LT0.000009L6	Offsite Vault			No	Yes
OK	Reconciled					
7	US04.LT0.000010L6	Library			No	Yes
NOT-OK	Unexpected in Scan-Map					
-----						
-----						

Following the example data at the top of page we have:

- **Volumes** 000002L5 and 000009L6 are referenced as **Reconciled** as they are in the **Scan-Map**, and confirmed in the current **Repository** (Offsite Vault).
- **Volumes** 000003L5, 000004L6 and 000005L6 are referenced as **Pending confirmation** as they are in the **Scan-Map**, and in a move from the current **Repository** but not yet confirmed at the target **Repository**.
- **Volumes** 000008L6 is referenced as **Absent from Scan-Map** as it appears in TapeTrack as at the current **Repository** but is absent from the **Scan-Map**. This shows the **Volume** is either somewhere it shouldn't be or is missing and as such is given a status of **NOT-OK** and is given an audit flag for further investigation.
- **Volume** 000010L6 is referenced as **Unexpected in Scan-Map** as it is present in the **Scan-Map** as being at the current **Repository** but shown in TapeTrack as being confirmed at another **Repository**. As such is given a status of **NOT-OK** and is given an audit flag for further investigation.

 Status strings may be customized using **TMSRECONCILETEXT** variables.

### Unreferenced Scan-Map Entries

This report shows **Volumes** that are in the **Scan-Map**, but are not known to TapeTrack.

```

System: TapeTrack
Report Description: Phase 3: Unreferenced Scan-Map entries
Production Time: Monday, March 19, 2018 - 10:21:34 (AUS Eastern Daylight Time)
Report Width: 29 bytes

Seq.   Barcode
-----
1 US04.LT0.111111L6
-----

```

Reasons for this error could be:

- **Volume** does not belong to you but has been included with your **Volumes** by operator error.
- Manually produced Scan-File with a typo on a **Volume** ID.

- [Volume](#) added to inventory but not entered into TapeTrack.

## Reconciliation Statistics

This report shows the final statistics for the Reconciliation process.

```

System: TapeTrack
Report Description: Phase 4: Reconciliation Statistics
Production Time: Monday, March 19, 2018 - 10:21:34 (AUS Eastern Daylight
Time)
Report Width: 75 bytes

Metric                                                    Count
-----
Phase 1: Read from Scan-File                             7
Phase 1: Loaded successfully from Scan-File              7
Phase 1: Loaded unsuccessfully from Scan-File           + 0
-----
Phase 2: Reconciled                                     2
Phase 2: Reconciled (Confirmed)                        0
Phase 2: Confirmation Bypass                           0
Phase 2: Pending confirmation                          3
Phase 2: Out of scope                                   3
Phase 2: Absent from Scan-Map                           + 1
Phase 2: Unexpected in Scan-Map                         + 1
Phase 2: Overdue at subject repository                  + 0
Phase 2: Overdue at target repository                   + 0
-----
Phase 3: Unreferenced Scan-Map items                     + 1
-----
Phase 4: Total Errors                                   3
-----


```

### Phase 1

Reads in [Volume-ID's](#) from the Scan-File, parses them (depending on format) into Customer-ID, Media-ID and [Volume-ID](#). Metrics are then displayed as the number of [Volumes](#) successfully and unsuccessfully loaded ready for reconciliation in phase two.

With the example data, all 7 entries were successfully loaded as fully qualified barcodes from the Scan-File into the Scan-Map ready for reconciliation.

### Phase 2



Status strings (Reconciled, Reconciled (Confirmed) etc) may be customized using [TMSRECONCILETEXT](#) variables

- **Reconciled** shows number of **Volumes** present in Scan-Map and confirmed at subject **Repository**.
- **Reconciled (Confirmed)** shows number of **Volumes** confirmed into subject **Repository** that were in a move to there and present in Scan-Map.
- **Confirmation Bypass** (set as an Attribute in **TMSS10Reconcile**) shows the number of **Volumes** moving to subject **Repository** and present in Scan-Map but not confirmed.
- **Pending confirmation** shows number of **Volumes** present in Scan-Map, in a move status out of subject **Repository** and yet to be confirmed at target **Repository**.
- **Out of scope** shows the number of **Volumes** in the customers inventory that are not referenced in the Scan-Map and are listed in TapeTrack as being not confirmed in, moving to or from the subject **Repository**.
- **Absent from Scan-Map** show the number of **Volumes** expected to be either in, moving to or moving from the subject **Repository** that are not listed in the Scan-Map.
- **Unexpected in Scan-Map** shows the number of **Volumes** present in the Scan-Map that, in TapeTrack, are not present in, moving to or moving from the subject **Repository**.
- **Overdue at subject repository** shows the number of **Volumes** present in the Scan-Map that are moving to the subject **Repository** but have exceeded the time threshold to complete the move.
- **Overdue at target repository** shows the number of **Volumes** present in the Scan-Map that are moving from the subject **Repository** but have exceeded the target **Repository's** time threshold to complete the move.

### Phase 3

**Unreferenced Scan-Map Items** shows the number of **Volumes** that are present in the **Scan-Map** but don't exist within the customers target media.

### Phase 4

**Total Errors** shows the total accumulated errors from the reconciliation process.

## Movement Aging Report

This report shows statistics on **Volumes** that remain in a move status after the reconciliation has completed.

System: TapeTrack		
Report Description: Phase 4: Movement Aging Report		
Production Time: Monday, March 19, 2018 - 10:21:34 (AUS Eastern Daylight Time)		
Report Width: 40 bytes		
Duration	Incoming	Outgoing
less than 1 day	0	3
less than 2 days	0	0
less than 3 days	0	0

less than 4 days	0	0
less than 5 days	0	0
less than 6 days	0	0
less than 7 days	0	0
less than 8 days	0	0
less than 9 days	0	0
9 or more days	0	0
-----		

In the example data, these are the [Volumes](#) 000003L5, 000004L6 and 000005L6 which are in a move status (one day) out of the subject [Repository](#) but not yet confirmed into their target [Repository](#).

[update doco](#)

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