

MIGRATION RECONCILIATION REPORT

Acme Freight Brokerage ♦ TMS migration, phase one

Run: final, post-cutover ♦ Source: legacy TMS (SQL Server 2012) ♦ Target: new TMS, production tenant
Prepared for: Operations Director ♦ Prepared by: FO Tech Solutions, lead engineer

SAMPLE DELIVERABLE ♦ SYNTHETIC DATA, REAL FORMAT

Acme Freight Brokerage is a made-up company and every number here is invented. The report's shape is real:
this is the document a migration buyer signs before the old system is switched off.

RESULT

All six checks pass. 200,214 rows moved across five tables. Eleven variances found, eleven resolved or accepted in writing. Zero unexplained. Rollback rehearsed and not needed. Cutover checklist signed at 03:40 Sunday.

1 ♦ ROW-COUNT RECONCILIATION

TABLE	SOURCE	TARGET	VARIANCE	RESOLUTION
Carrier	151	140	-11	Expected. Eleven duplicates merged per the signed mapping table (D1). Each merged pair recorded in <code>carrier_merge_log</code> .
Shipper	60	60	0	Match.
Load (open)	3,418	3,417	-1	Load 2024-118832 cancelled by dispatch during the freeze window. Accepted by Acme (initials on file). Not migrated.

LoadStop	9,206	9,206	0	Match.
StatusEvent (214)	187,390	187,391	+1	One 214 arrived after the source snapshot and before target freeze. Applied to target only. Verified against the file on the SFTP mirror.
Total	200,225	200,214	-11	All variance explained above.

2 ♦ CHECKSUMS ON KEY FIELDS

SHA-256 over a fixed concatenation of key fields per row, computed on both sides after the same normalisation (trimmed strings, ISO dates, amounts to two decimals). A mismatch means a field changed in transit.

TABLE	FIELDS HASHED	ROWS COMPARED	MISMATCHES	RESOLUTION
Carrier	MC number, legal name, DOT, remit-to address	140	3	Trailing whitespace in legal name on three source rows. Normalised in target; Acme accepted the cleaned value.
Shipper	Account number, name, billing address	60	0	
Load	Load number, shipper, carrier, pickup date, delivery date, linehaul amount	3,417	2	Two loads with linehaul stored as text "1,250.00" in source. Parsed to 1250.00 in target. Confirmed against the rate confirmation PDF for each.
LoadStop	Load number, sequence, address, appointment window	9,206	0	
StatusEvent	Load number, code, timestamp, location	187,390	0	The one extra target row is excluded here and covered in section 1.

3 ♦ REFERENTIAL INTEGRITY

RELATIONSHIP	ROWS CHECKED	ORPHANS	RESOLUTION
Load → Carrier	3,417	0	All resolve after the carrier merge.
Load → Shipper	3,417	0	
LoadStop → Load	9,206	0	
StatusEvent → Load	187,391	4	Four 214 events in source referenced load numbers that never existed (carrier typos). Kept in target under a quarantine load so nothing is lost; listed in the runbook for Acme to discard or reassign.

4 ♦ FIELD-LEVEL DIFF ON A SAMPLE SET

A random sample of 200 loads (5.9% of open loads), drawn with a seed recorded in the report appendix, compared field by field across all 41 load fields and their stops and status events.

FIELDS COMPARED	EXACT MATCH	EXPECTED DIFFERENCES	UNEXPECTED
8,200	8,187	13	0

The 13 expected differences are the source's free-text equipment field ("53' van", "53 ft dry van", "DRY VAN 53") mapped to the target's equipment code list. The mapping was agreed in week 2 and is in the runbook.

5 ♦ ROLLBACK

Rehearsed once in the sandbox on the Wednesday before cutover: target tenant restored to its pre-load snapshot, legacy TMS write access re-enabled, DNS for the 214 SFTP endpoint pointed back. Elapsed time 38 minutes. Rollback was available until 08:00 Monday and was not used.

6 ♦ CUTOVER CHECKLIST

STEP	OWNER	SIGNED
Freeze legacy TMS writes; confirm last 214 applied	Acme dispatch lead	Sat 18:02
Source snapshot; row counts recorded	FO Tech	Sat 18:20
Load target; checks 1 to 3 run	FO Tech	Sun 01:15
Sample diff (check 4) reviewed with dispatch lead	Both	Sun 02:30
214 SFTP endpoint switched to new TMS; first live file applied	FO Tech	Sun 03:10
Go decision; legacy TMS set read-only	Operations Director	Sun 03:40

SIGN-OFF

By signing, Acme accepts the variances marked "accepted" above and confirms the target is the system of record for carriers, shippers, and open loads from Monday 08:00.

Acme Freight Brokerage ♦ Operations Director	FO Tech Solutions LLC ♦ Lead engineer
Signature ♦ Date	Signature ♦ Date