

Payments Automation: Quickbooks + DMSi Automation

How we connected a construction company and their material supplier to trade and sync invoices automatically without manual office work.

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Focus: Eliminating Manual Office Data Entry & Fixing Invoicing Scale Bottlenecks

1. The Problem: Too Much Manual Office Work

TWO DIFFERENT SYSTEMS

A large commercial **Construction Company** buys materials daily from its sister **Distributor Company**.

Even though they share ownership, they use completely separate business software that could not talk to each other automatically:

- The Buyer uses a flexible accounting program.
- The Supplier uses **DMSi** (a rigid warehouse ERP).

THE PAPER & EMAIL MESS

- **Slow Order Pipeline:** Project managers had to manually type Purchase Orders (POs) and email them over to the warehouse.
- **Human Typo Risks:** Warehouse staff re-typed the order data, often leading to wrong item counts, part mix-ups, or lost papers.
- **Reconciliation Headaches:** Office clerks spent hours balancing bank logs and manually cross-checking invoices against open PO fields.

2. The Breaking Point: 200 to 300 Invoices Every Day

TOO FAST TO KEEP UP

As business grew across the Northeast, volume skyrocketed. The trade loop reached a massive volume of **200 to 300 inter-company invoices every single business day**.

Trying to read, match, translate, and type 300 multi-line items a day by hand became humanly impossible for the existing team.

THE EXPENSIVE HIRING TRAP

To keep up with this heavy pile of paperwork, management was about to face a major administrative hiring problem:

- They would need to hire at least **3 full-time data-entry clerks** just to handle the daily invoice processing load.
- This meant adding permanent payroll costs and office overhead without making the actual process faster or smarter.

3. The System Roadblock: DMSi is Locked Shut

NO DIRECT WAY IN

The goal was simple: push invoices directly into the supplier's DMSi system automatically. But there was a major technical roadblock: ****DMSi is a closed system**** that blocks outside apps from direct writing.

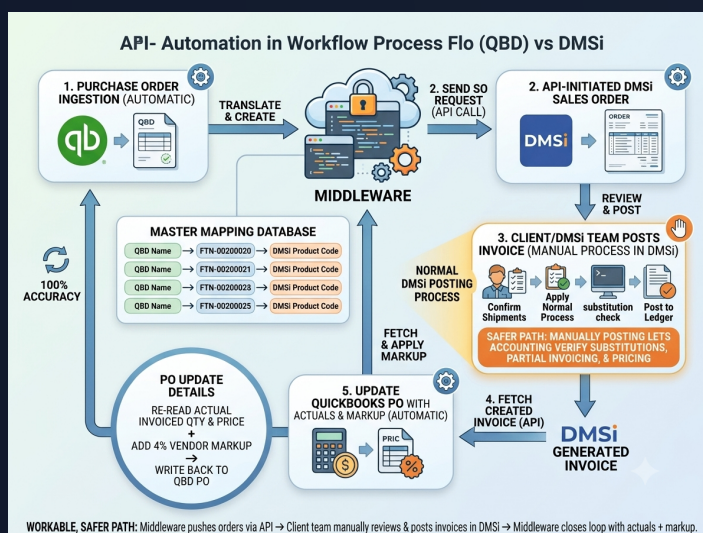
It lacks basic open API entryways for invoice creation, locking its financial tables tightly to protect bookkeeping standards.

WHY BRUTE-FORCING IT FAILS

Trying to force-write records directly into a closed database table introduces massive operational risks:

- **Warehouse Realities:** Automated invoices don't know about yard changes, backorders, or item replacements.
- **Broken Ledgers:** Forcing data splits the systems, throwing stock balances and company books completely out of sync.

4. How the "Listener" Automation Works



5. Behind the Scenes: From Order to Warehouse

STEP 1: GRAB THE PURCHASE ORDER

Everything starts when a team member logs a job order in the construction accounting system.

Our custom DIGITTO background automation instantly spots the entry, reads the data, and securely copies the order fields without any staff help.

STEP 2: TRANSLATE TEXT INTO SKUS

The accounting file describes items in plain text (e.g., "Premium Grade Lumber"), but the DMSi software requires specific numerical barcodes.

The automation runs the order through a smart translation chart, turns the text into matching warehouse SKUs, and opens a clean **Sales Order** in DMSi.

6. Behind the Scenes: Yard Protection & Invoicing

STEP 3: YARD TEAM STAYS IN CONTROL

By staging a *Sales Order* instead of forcing a final invoice, we keep the human warehouse team fully in charge.

Yard crews handle material shifts, log partial updates, and swap missing items directly on their screens before officially clicking "Post".

STEP 4: THE SMART DATA LISTENER

The moment the supervisor marks the order as shipped, our automated listener catches the status update code.

Instead of fighting the locked system to write data, it safely **reads** the final posted details, extraction counts, and updated pricing numbers instantly.

7. Closing the Loop: Automated Reconciliation

STEP 5: DYNAMIC PO CALIBRATION

Once the automation reads the final warehouse invoice data, it automatically applies preset markup rules to match current contract rates.

It instantly double-checks all calculations to make sure the item lists are clean, fully accurate, and ready for balancing.

100% AUTOMATIC BALANCING

The platform connects right back to the corporate accounting system through an encrypted data link.

It dynamically adjusts the original open PO rows to match the exact physical item quantities and finalized prices. This completely finishes the job loop and syncs the books to the penny without a single mouse click.

8. Value Delivered: Massive Office Payroll Savings

ELIMINATING THE NEED TO HIRE

By building a secure bridge that automatically creates, translates, and syncs trade invoices in the background, DIGITTO completely removed the manual data entry problem.

The project saved the company from expensive payroll increases by handling huge transaction volume with zero extra staff.

HARD CASH SAVINGS BREAKDOWN

Money Kept in the Business	Yearly Value
Avoided Salaries: 3 Full-Time Office Clerks (\$50k base each)	\$150,000.00
Avoided Taxes & Overhead: Benefits, hiring, equipment, software seats	\$37,500.00
Total Annual Office Capital Protection	\$187,500.00

9. Value Delivered: Stopping Typos and Billing Mistakes

THE COST OF HUMAN MISTAKES

When typing 300 multi-line files a day by hand, mistakes happen. Industry averages show a 2% data entry typo rate when copying codes manually.

For this business, that meant **4 to 6 broken invoices every single day**, which caused costly side effects:

FLAWLESS ACCURACY PROTECTION

The DIGITTO software reviews every record against its master SKU mapping charts before any data is sent, enforcing **100% accuracy** and dropping typos to zero.

By avoiding a conservative \$50 cost to investigate and fix just one broken invoice row, the platform saves substantial money:

- Incorrect item rows leading to wrong project job costing.
- Hours wasted by management digging up logs to fix typos.
- Delayed tracking logs and balance disputes between sister companies.

\$50,000+ Saved / Year

IN AVOIDED OFFICE RETYPING & INVOICE DISPUTE COSTS



10. Special Feature: Handling Emergency Field Pulls

In construction, field managers often grab urgent truck parts from the warehouse before office staff back home have a chance to write a matching PO. This creates broken "orphaned" orders. Our automation runs a reverse module to keep everything straight:

What It Does	The Automation Step	How It Helps the Business
1. Catching Errors	Flags warehouse transactions that don't have matching PO numbers.	Stops untracked inventory from leaving the yard.
2. Verifying Details	Checks the parts list to confirm everything looks correct and valid.	Keeps bad data out of accounting.
3. Auto-Building POs	Programmatically writes the missing PO inside the accounting system automatically.	Saves office workers from typing old field orders by hand.
4. Locking the Loop	Connects the fresh keys back to the warehouse logs to finish the cycle.	Guarantees perfect audit records.



11. Management Console & Simple Error Center

THE CENTRAL DASHBOARD SCREEN

While the system runs silently as a background service without needing human help, we built a simple web dashboard so team leads have full visibility.

THE 1-CLICK FIX QUEUE

If a sync ever fails because a new yard item is missing an accounting master code, the system doesn't crash.

The screen gives management an easy-to-read window to monitor daily system actions, check transaction speeds, view successful file tallies, and verify sync logs.

Instead, it holds the line item in a secure Exception Queue. Managers get an alert, map the new part code on screen with one click, and instantly push the file straight to accounting endpoints.



12. Clear Enterprise Value Deliverables

\$237k+
YEARLY ROI

Combining avoided office salaries with direct typo reduction creates a major recurring cash value.

1,000+
HOURS SAVED

Completely vaporizes tedious email hunting, manual tracking, and retyping steps inside background layers.

100%
BOOK ACCURACY

Ensures perfect matching balances between platforms via automated mapping checkers.

\$0.00
SAAS FEES

Custom code means you own the platform with no monthly user subscription costs as you scale.



13. Simple 14-Week Development Steps

**WK 1-3:
BLUEPRINT**

**WK 4-8: CORE
BUILD**

**WK 9-11:
CONTROLS**

**WK 12-14:
LAUNCH**

Mapping system files, studying data fields, and charting code translation formulas before any programming begins.

Building the core background synchronization engine and setting up the API connections between platforms.

Creating the web dashboard UI, setting up the fix queues, and running server stress tests under heavy invoice simulation loads.

Rigorous safety testing with duplicate files, training office staff, locking permissions, and activating live background flows.



14. Security Controls: Simple User Permissions

To protect critical corporate ledger details, access to the central dashboard web portal is split into clear, role-based permission tiers:

User Tier	What They Can See and Do	Safety Audit Log Tracking
System Admin	Full platform access, edit server links, modify master controls, and adjust configuration sweeps.	Logs infrastructure edits.
Office Operator	Can view sync performance, fix code errors in the queue, and push stuck transaction rows.	Logs error clearing events.
Financial Viewer	Read-only access to review daily statistics charts, check run history, and print summary sheets.	Logs user login sessions.



15. Built-In Security & Future Upgrades

BANK-GRADE GUARDRAILS

We built top-tier security standards directly into the solution framework to keep financials safe:

- **Local Hosting:** Runs entirely on client servers to maintain complete data custody.
- **SSL Wrappers:** Encrypts all data moving across the background channels.
- **Safe Tokens:** Restricts API entries via encrypted access vaults.

NO MONTHLY SUBSCRIPTIONS

By avoiding overpriced third-party app connectors and template monthly memberships, our custom engine offers the lowest long-term total cost of ownership.

You can scale up to thousands of daily files without ever worrying about per-seat license hikes.

READY FOR PHASE 2

The modular platform setup makes next-generation software changes simple.

If you eventually want to completely bypass visual manual checks, we can plug in a ****Flat-File sFTP Module**** to directly feed clean data files into automated scheduler layers.