

Force Transfer Receive - (Developer Guide)

Web-based tool for locating Transfer Deliveries without a Transfer Receipt and force-creating the TRs in bulk.

Overview

Force Transfer Receive is a guided, three-step tool that lets the Audit team find Transfer Deliveries (TDs) that still have no corresponding Transfer Receipt (TR) for a given store and date range, review the exact items on each TD, and then create the TRs in one action using a chosen document date. The flow moves through three stages — Filter (pick date range, area, and store), Review (select which TDs to receive, expandable to line items), and Done (confirmation listing each generated TD → TR pair). TR creation is handled server-side by a stored procedure inside a transaction, so either all selected TRs are created or none are.

Target Users

- Audit Team — reconciles delivered TDs that were never receipted by force-creating the missing TRs.

Problem Solved

- Some TDs are delivered but never get a TR created by the promo, leaving them stuck and unreconciled.
- There was no quick way to list exactly which TDs for a store and period are missing their TR.
- Creating those TRs one by one was slow and error-prone, with no single confirmation of what was generated.
- This tool surfaces the missing-TR TDs, lets the user select and review them down to line items, and force creates the TRs in one transactional call — returning the TD → TR mapping

Main Features

Category	Features
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Filtering	Pick a From/To date range with a timezone-safe date picker.
	Cascading Area → Store selection; store list loads only after an area is chosen.
	Find TD(s) is enabled only when date range and store are all set.
Review & Select	TDs grouped by month, with per-month select-all (indeterminate state supported).
	Expand any TD to see its line items (item code, description, color, size, UM, qty).
	Running count of how many TDs are selected.
TR Creation	Confirm a document date in a dialog before creating.
	All selected TRs created in one transactional stored-procedure call.
	Done screen lists each generated TD → TR pair.

System Architecture

Frontend: React + TypeScript (Vite)

Backend: Node.js + NestJS (TypeScript)

Server State / Data Fetching: TanStack Query (react-query) mutations + queries

Client State: Redux (auth slice for the access token / username)

UI: shadcn/ui + Tailwind CSS, react-toastify for notifications

Database: Microsoft SQL Server (mssql driver), spanning the ERP and McjimDB databases

TR creation: McjimDB.dbo.CreateTransferReceive stored procedure via a table-valued parameter

Authentication: JWT-based (AuthGuard); note the controller guard is currently commented out — see Notes

Installation & Setup

Requirements

- Node.js v18+
- Visual Studio Code
- MSSQL Database (ERP + McjimDB), including the CreateTransferReceive procedure and TdList table type

Install Dependencies

Frontend and backend are installed separately.

```
npm install
```

Environment Variables

Frontend

```
VITE_FRONTEND_URL=https://localhost:5173  
VITE_ENV=development  
VITE_API_BASE_URL=http://localhost:3000/api
```

Backend

```
PORT=3000  
NODE_ENV=development  
  
Mssql_DB_SERVER=your_server  
Mssql_DB_USER=your_username  
Mssql_DB_PASSWORD=your_pass  
Mssql_DB_DATABASE=  
Mssql_DB_PORT=1433  
  
JWT_ACCESS_SECRET=your_access_secret  
JWT_REFRESH_SECRET=your_refresh_secret  
FRONTEND_URL_DEV=http://localhost:5173
```

Run Locally

Frontend

```
npm run dev
```

Backend

```
npm run start:dev
```

Project Structure

Frontend

```
force_transfer_receive/
  ForceTransferReceive.tsx    page shell
  FetchTdTransfer.tsx        stage switch: filter -> review -> done
  useForceTr.ts              wizard state + fetch/create mutations
  FilterStage.tsx            date range + area + store selection
  ReviewStage.tsx            month-grouped TD selection
  TransferDialog.tsx         document-date confirm dialog
  DoneStage.tsx              success screen (TD -> TR pairs)
  TdMonthGroup.tsx  TdRow.tsx memoized list pieces
  TdDatePicker.tsx  utils.ts   date picker + grouping helpers
```

Backend

```
force-transfer-receive/
  force-transfer-receive.controller.ts
  force-transfer-receive.service.ts    groups rows into TD records
  force-transfer-receive.repository.ts  SQL + CreateTransferReceive proc
  force-transfer-receive.module.ts
  dto/      find_tds.dto, create_tr.dto
  interface/ all_area, td_list
```

API Documentation

All routes are prefixed with `/api/force-transfer-receive`.

- **Get All Areas**

Endpoint:

```
GET /api/force-transfer-receive/get-all-area
```

Description: Returns the list of territory/area codes used to populate the Area dropdown.

```
[ { "value": "AREA 1", "text": "AREA 1" }, ... ]
```

- **Get Stores By Area**

Endpoint:

```
GET /api/force-transfer-receive/get-store
```

Description: Returns the stores that belong to the selected area, for the Store dropdown.

Request:

```
area (required)    // e.g. AREA 1
```

Response:

```
[ { "value": "SNE", "text": "SNE" }, ... ]
```

- **Get TDs to TR**

Endpoint:

```
POST /api/force-transfer-receive/get-tds-to-tr
```

Description: Returns the TDs (with line items) for a store and date range that do not yet have a TR.

The backend groups

the flat rows into one record per TD with item_count and total_qty.

Request:

```
{
  "from_date": "2026-06-01",    // YYYY-MM-DD
  "to_date":   "2026-06-30",
  "store_code": "SNE"
}
```

Response:

```
[
  {
    "td_num": "TD46260159", "td_date": "2026-06-10", "store_code": "SNE",
    "item_count": 2, "total_qty": 14,
    "items": [
```

```
    { "item_code": "...", "qty": 7, "stock_num": "...",  
      "color": "...", "size": "...", "um_code": "..." }, ...  
  ]  
}, ...  
]
```

- **Create TR**

Endpoint:

```
POST /api/force-transfer-receive/create-tr
```

Description: Force-creates TRs for the selected TDs using the given document date. Runs the CreateTransferReceive stored procedure inside a transaction (all-or-nothing). A business-rule violation surfaces as a 409 Conflict (SQL error 50001).

Request:

```
{  
  "td_nums": ["TD46260158", "TD46260159"],  
  "date_received": "2026-06-30",  
  "store_code": "SNE",  
  "username": "MMALINAO"  
}
```

Response:

```
[ { "td_num": "TD46260158", "tr_num": "..." },  
  { "td_num": "TD46260159", "tr_num": "..." } ]
```

Revision #2

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