# FISCAL EDGE DESKTOP CLIENT SETUP GUIDE FOR PASTEL

# Contents

# Prerequisite: Ensure TCP Access to SQL Server Database

Ensure that the database has been added to the system DNS
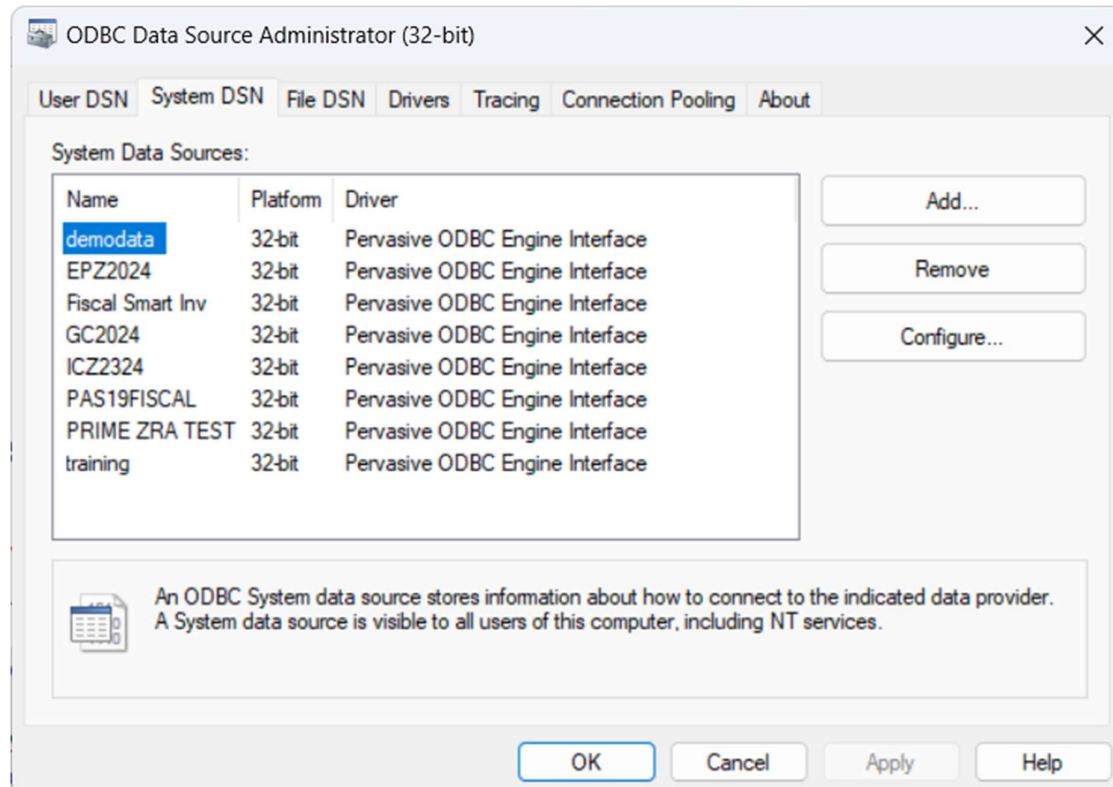
# Execute SQL Scripts

Please download the script file from [here](#)

**CurrencyType:** Since different clients may have varied default currency configurations, it's crucial to pay attention to this field and ensure alignment with each client's specific configuration.

## Trust your eyes

Before creating any of the views mentioned above, it is highly recommended to first execute the SELECT part of the query and carefully examine the accuracy of the output results. Here's why:

1. **Accuracy Verification**: Ensure that the data retrieved is correct and meets the expected criteria. This step helps in identifying any discrepancies or errors in the query logic.
2. **Critical Dependence**: The application relies on these views for fiscalization. Any inaccuracies in the data presented by these views will be carried forward and could lead to fiscalization issues.
3. **Prevent Potential Issues**: Inaccurate data used for fiscalization can have significant negative implications. By verifying the output before creating the views, you minimize the risk of such issues.

# Register on Fiscal Edge Platform

This step requires that the business is already registered on the ZRA's Smart Invoicing Portal and has obtained the device serial number and branch code. These details are necessary to complete the process.

Enter appropriate and official information about your business below

**Business TPIN**

Don't have this? Your TPIN can be found on your official business registration form.

Enter TPIN

**Branch ID**

Don't have this? Your Branch ID can be obtained from the ZRA portal.

Enter Branch ID

**Serial Number**

Don't have this? Your Serial Number can be obtained from the ZRA portal.

Enter Serial Number

Once the registration process is completed, click on the API Keys tab and create an API Key
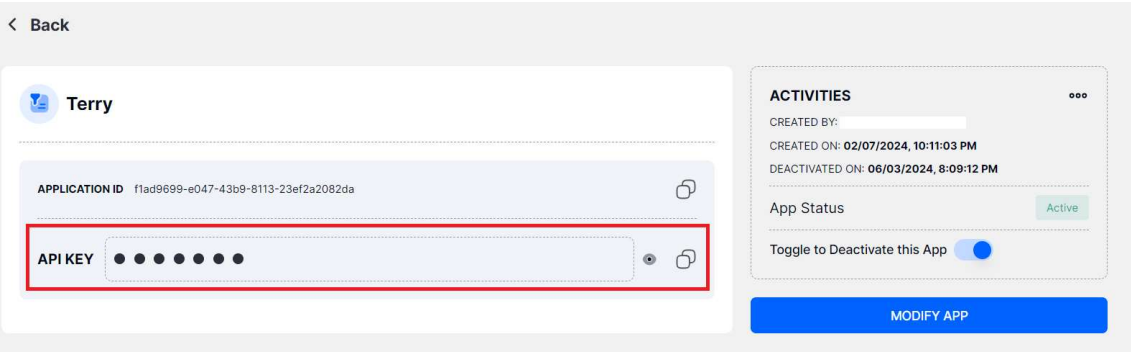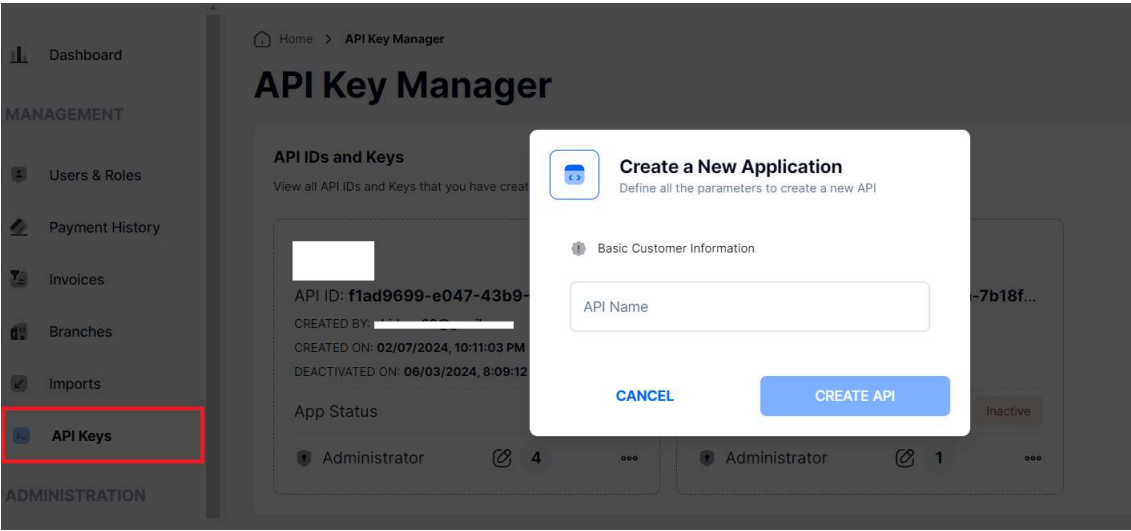
# Install Fiscal Edge Desktop Client

The Fiscal Edge Desktop Client application is a 32-bit .NET-based software. To function properly, it requires both the .NET 8 runtime and ASP.NET Core runtime. These runtimes are usually bundled with the application. While most Windows computers come with preinstalled .NET runtimes, we recommend installing the versions bundled with the application to avoid compatibility issues.

## Installation Steps:

1. **Install the .NET Runtimes:**
   o Ensure the .NET 8 runtime and ASP.NET Core runtime are installed. Use the versions provided with the application package to prevent compatibility problems.
2. **Install the Fiscal Edge Client:**
   o Proceed with the installation of the Fiscal Edge Client application following the on-screen instructions.
3. **Update the Configuration File:**
   o Upon successful installation, navigate to the installation directory to update the configuration file.
   o If you selected the default location during installation, the file can be found at:

   C:\Program Files (x86)\Fiscal Edge Solutions\Fiscal Edge Client

   o If a custom location was chosen, refer to that directory for the configuration file.

## Update Configuration File

Open the *appsettings.json* file with your preferred text editor.

| Name | Date modified | Type | Size |
|---|---|---|---|
| runtimes | 6/23/2024 2:48 PM | File folder | |
| Actian.EntityFrameworkCore.Zen.dll | 3/25/2023 1:07 AM | Application extens... | 162 KB |
| appsettings.Development.json | 11/21/2023 8:13 PM | JSON File | 1 KB |
| appsettings.json | 6/21/2024 8:09 PM | JSON File | 3 KB |
| AutoMapper.dll | 1/16/2023 4:41 PM | Application extens... | 258 KB |
| AutoMapper.Extensions.Microsoft.Depen... | 4/9/2023 7:58 AM | Application extens... | 13 KB |
| Azure.Core.dll | 9/7/2023 7:50 PM | Application extens... | 369 KB |
| Azure.Identity.dll | 10/18/2023 9:59 PM | Application extens... | 328 KB |

```
{
  "PosConfigs": [
    {
      "ConnectionString": "DSN=Fiscal Smart Inv;",
      "APIKey": "lVilgo_____",
      "TerminalId": "SD_____",
      "BranchId": "000"
    }
  ],
  "PastelTaxMapping": {
    "1": "A",
    "2": "B",
    "3": "A",
    "14": "A",
    "0": "A"
  },
}
```

## Configuration Parameters:

- **ConnectionString:** the data source name for the database
- **APIKey:** Use the API Key created in the API Key step above.
- **TerminalId:** Obtain this from the Fiscal Edge platform under the Branch tab.
- **BranchId:** Obtain this from the Fiscal Edge platform under the Branch tab.
- **PastelTaxMapping:** This is the tax code mapping. It must align with the configuration as configured for the user in pastel

- **ConnectionString:**
  - This refers to the connection string for the SQL Server database.
  - If you are unfamiliar with SQL Server connection strings, please refer to ConnectionStrings.com.
- **AppUrl:**
  - For testing, use: https://www.dev.api.fiscaledge.net/zm/api/
  - For production, use: https://www.api.fiscaledge.net/zm/api/
- **Pos:**
  - Use pastel for Pastel Partner.
  - Use sqlserver for other Sage products.
- **InvoiceFrequency:**
  - This refers to the time interval in seconds for the fiscalization service to run.
  - Recommended values are 3, 4, or 5 seconds.
- **StockFrequency:**
  - This refers to the time interval in minutes for the stock service to run.
  - Leave this at 1440 minutes.
- **PurchaseFrequency:**
  - This refers to the time interval in minutes for the purchase service to run.
  - Leave this at 31 minutes.
- **Path:** This specifies the logging location for the application.

```
},
"WriteTo": [
    {
        "Name": "Console"
    },
    {
        "Name": "File",
        "Args": {
            "path": "C:\\Home\\RawLogs\\fiscalize.txt",
            "rollingInterval": "Day",
            "retainedFileCountLimit": "2",
            "shared": "true",
            "flushToDiskInterval": "00:00:01"
        }
    }
],
```

## Where to find Fiscal Details

The fiscal detail is written back to the **HistoryHeader** table in the below columns:

**Signature** = Message01

**InternalData** = Message02

**ZRA Invoice Number** = Message03

## Pastel Configuration

1. Inventory item descriptions must be updated to include the UNSPSC Codes, separated by a dash. For example: Mailing bag – 44121509.
2. The Commodity Code field should be used to capture the item's country of origin code. This code represents the ISO code for the country, such as ZA for South Africa or ZM for Zambia. If the product is sourced from more than one country, any of the source countries' codes can be used.
3. The Unit field should be used to capture the Packaging Unit Code. Refer to the approved list below (for detailed information on each code, please see the ZRA specification document):
   ***AM;BA;BC;BE;BF;BG;BJ;BK;BL;BQ;BR;BV;BZ;CA;CH;CJ;CL;CR;CS;CT;CTN;CY;DR;GT ;HH;IZ;JR;JU;JY;KZ;LZ;ML;NT;OU;PD;PG;PI;PO;PU;RL;RO;RZ;SK;TN;TY;VG;VL;VO;VQ ;VR;VT;VY;B/L;BIN;BOTT;BOUQ;BOWL;BOX;BUBG;BULK;BUNC;BUND;CLEA;EA;EAC H;ECON;ECPO;G/L;KARR;LABE;MESH;NETL;P/KG;PACK;PCRT;PILP;POC;POCS;POL Y;POT;PREP;PUND;PUNN;SLEE;SOCK;TRAY;TRSE;TUB;UNWR;WRAP***



4. The User Def Field 1 Should be used to capture the QuantityUnitCode. Refer to the approved list below (for detailed information on each code, please see the ZRA specification document):

*4B;AV;BA;BE;BG;BL;BLL;BX;CA;CEL;CMT;CR;DR;DZ;GLL;GRM;GRO;KG;KTM;KWT;L;L BR;LK;LTR;M;M2;M3;MGM;MTR;MWT;NO;NX;PA;PG;PR;RL;RO;SET;ST;TNE;TU;U;YR D*

5. The User Def Field 2 should be used to capture the UNSPSC Codes. This means the UNSPSC Code must be captured twice: once in the item description, as stated above, and again in the User Def Field 2.



6. The User defined 1 in the Customer profile should be used to capture LPO number for LPO customers

7. The User Defined Field 2 on the customer profile should be used to capture the customer's location country. This should be represented by the ISO code for the country; for example, if the customer is in China, use "CN." If the customer is local, either leave the field blank or enter "ZM."

8. The User Defined Field 1 in the supplier profile should be used to specify whether the supplier is local or foreign. Enter "local" for local suppliers and "foreign" for foreign suppliers. These are the only two accepted values for this field.



9. The Message Field on the invoice screen must not be used, as it is reserved for fiscal details.
10. Remarks should not be added as line items, as this will cause invoice fiscalization failure.

# The Log is your friend

**Save the Configuration File:**

- After updating the appsettings.json file with the necessary parameters, save the file.

**Stop the Service:**

- Locate the Fiscal Edge service in the Windows Services list.
- Stop the service.

**Clear Previous Logs:**

- Navigate to the log location specified in the configuration file.
- Delete the existing log file to ensure you have a clean log to work with.

**Start the Service:**

- Restart the Fiscal Edge service.

**Check the New Log:**

- After the service starts, a new log file will be created.
- Review this log for any errors. If the application is correctly configured, there should be no errors in the log.

**Troubleshoot Errors:**

- If you encounter an error, do not panic. Carefully review the error message; it usually contains details about what might have gone wrong.
- Common issues include misconfigured connection strings or missing fields in the SQL views.
- Once you identify the cause of the error, correct it and restart the service.

**Alternative Approach:**

- If errors persist, you can stop the service again, delete the log file, and restart the service. This ensures you are reviewing a newly generated log that reflects changes made after corrections.

| | Services (Local) | | | | | |
|---|---|---|---|---|---|---|
| **Fiscal Edge Client** | Name | Description | Status | Startup Type | Log |
| | Fiscal Edge Client | | Running | Automatic | Loc |
| Stop the service | GameInput Service | Enables key... | | Manual (Trigg... | Loc |
| Restart the service | GraphicsPerfSvc | Graphics per... | | Manual (Trigg... | Loc |
| | Group Policy Client | The service i... | | Disabled | Loc |
| | Human Interface Device Serv... | Activates an... | | Manual (Trigg... | Loc |
| | Hyper-V Data Exchange Serv... | Provides a m... | | Disabled | Loc |
| | Hyper-V Guest Compute Ser... | Guest Comp... | Running | Automatic | Loc |
| | Hyper-V Guest Service Interf... | Provides an i... | | Disabled | Loc |
| | Hyper-V Guest Shutdown Se... | Provides a m... | | Disabled | Loc |
| | Hyper-V Heartbeat Service | Monitors th... | | Disabled | Loc |
| | Hyper-V PowerShell Direct S... | Provides a m... | | Manual (Trigg... | Loc |
| | Hyper-V Time Synchronizati... | Synchronize... | Running | Manual (Trigg... | Loc |
| | IKE and AuthIP IPsec Keying ... | The IKEEXT s... | Running | Automatic (Tri... | Loc |
| | Internet Connection Sharing... | Provides net... | | Manual (Trigg... | Loc |
| | Inventory and Compatibility... | This service ... | | Manual | Loc |