

Connecting a Windows Clarion application to PostgreSQL via ODBC, whether the PostgreSQL server is on your LAN or remote over the Internet

✓ 1. Install the Correct PostgreSQL ODBC Driver (psqlODBC)

Download the official Windows driver:

psqlODBC (64-bit or 32-bit) Search: *PostgreSQL ODBC driver download* or get it from:
psqlodbc_x64.msi or psqlodbc_x86.msi

Important:

- If your **Clarion app is 32-bit**, install the **32-bit ODBC driver**.
- If your app is **64-bit**, install **64-bit**.

✓ 2. Create an ODBC DSN (System DSN)

Open the right ODBC control panel:

For 32-bit Clarion:

C:\Windows\SysWOW64\odbcad32.exe

For 64-bit Clarion:

Control Panel → Administrative Tools → ODBC Data Sources (64-bit)

Then:

1. Go to **System DSN**
2. Click **Add**
3. Select **PostgreSQL Unicode** (or ANSI)
4. Fill in:

Data Source Name: MyPgSQL

Server:

- LAN: IP like 192.168.1.50
- Remote: IP or hostname (must be publicly reachable)

Port: 5432

Username / Password Your PostgreSQL credentials.

Database: Your database name, e.g., `sendatrix`

SSL Mode:

- LAN: `disable` or `prefer`
- Internet: `require` or `verify-full`

Click **Test connection**.

3. PostgreSQL Server Configuration (LAN or Remote)

On the PostgreSQL server:

Edit `postgresql.conf`

Find:

```
listen_addresses = 'localhost'
```

Change to:

```
listen_addresses = '*'
```

Edit `pg_hba.conf`

Add a line to allow your network:

For LAN:

```
host all all 192.168.1.0/24 md5
```

For a single remote IP:

```
host all all <your.public.ip.address>/32 md5
```

For ANY remote connection (not recommended):

```
host all all 0.0.0.0/0 md5
```

Restart PostgreSQL.

✓ 4. Router / Firewall (Only for Internet Use)

If connecting over the Internet:

- Port **5432** must be forwarded from router → PostgreSQL server IP.
- Windows firewall must allow inbound TCP 5432.

⚠ Strongly recommended: Use VPN (WireGuard / ZeroTier) instead of exposing 5432 publicly.

✓ 5. Clarion Dictionary Setup

In the Dictionary (.dct):

- Set **Driver** to:

ODBC

- Set **Owner** to your DSN name:

MyPgSQL

Typical owner example:

```
DSN=MyPgSQL;UID=postgres;PWD=yourpassword;
```

Or simply:

MyPgSQL

✓ 6. Clarion Code to Connect

Before opening files:

```
glo:dbConnect = 'DSN=MyPgSQL;UID=postgres;PWD=yourpassword;'
```

Then your files will open normally.

Notes About Clarion ODBC Limitations

Clarion's ODBC driver:

- **Does not support scrollable cursors** → No PREVIOUS(), START(), NEXT(-1), etc.
- **Does not support some SQL functions** → Must do direct SQL for MAX(), etc.

7. Testing Connection From Windows

Use:

```
psql -h 192.168.1.50 -U postgres -d sendatrix
```

If it connects, Clarion will work as long as your DSN is correct.

Summary (Copy-Friendly)

To connect a Clarion Windows app to PostgreSQL via ODBC:

1. Install correct psqLODBC driver (32/64-bit).
2. Create System DSN.
3. Enable remote access in PostgreSQL configs.
4. Open port 5432 (LAN or Internet).
5. Set Owner string in Clarion Dictionary.
6. Connect with:
7. Open files.