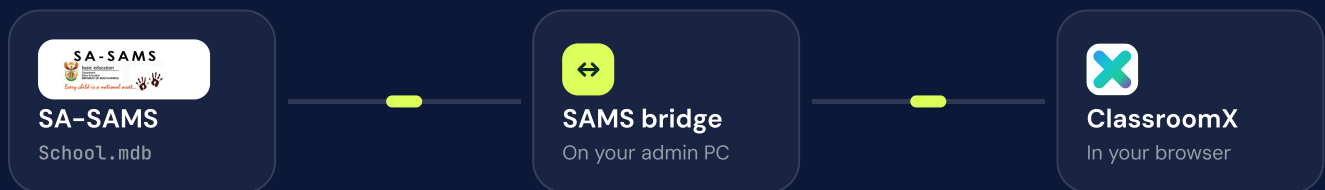


● SA-SAMS integration

Keep SA-SAMS. Lose the double entry.

A small program on your admin PC, the **SAMS bridge**, connects ClassroomX to your school's SA-SAMS database. Learners, educators, classes and timetables come straight across, so nothing has to be typed in twice.



10 min

Typical setup time

1 PC

Windows, with SA-SAMS access

Admin

ClassroomX permission needed

What comes across from SA-SAMS



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01

Before you start

Work on the school PC that can open the SA-SAMS database. Tick these off first:

- ☐ A **Windows PC or server** with access to the SA-SAMS database, on its own disk or a network share.
- ☐ The **Microsoft Access ODBC driver**. It's already there if SA-SAMS or Office is installed; if not, get the free [Access Database Engine 2016 Redistributable](#).
- ☐ **Python 3.10 or newer**, matching the driver: 64-bit Office needs 64-bit Python.
- ☐ **Read and write access** to the folder that holds `School.mdb`.
- ☐ The **SA-SAMS database password**.

02

Install the bridge

Open PowerShell in the folder where you copied `edusol-bridge`, then run:

```
> cd edusol-bridge
> python -m venv .venv
> .venv\Scripts\pip install -r requirements.txt
> .venv\Scripts\python -m bridge --init
```

POWERSHELL

The last command creates `bridge.config.json` with a new, random API key.

03

Point it at SA-SAMS

Open `bridge.config.json` in Notepad. Usually you only need to add the password.

```
{
  "db_path": "C:\\Program Files\\EdusolSAMS\\data\\School.mdb",
  "password": "your SA-SAMS password",
  "host": "127.0.0.1",
  "port": 7791,
  "api_key": "...created for you..."
}
```

BRIDGE.CONFIG.JSON

db_path	Where <code>School.mdb</code> lives. Found automatically in the default SA-SAMS folder; a network path like <code>\\SAMS-PC\\EdusolSAMS\\data\\School.mdb</code> also works.
password	Your SA-SAMS database password. Empty until you fill it in.
host · port	Leave as they are. The bridge only listens on this PC.

04

Start the bridge

```
> .venv\Scripts\python -m bridge
```

POWERSHELL

It's running when you see `http://127.0.0.1:7791` . Keep the window open. To start it automatically each time someone signs in to Windows:

```
> .venv\Scripts\python -m bridge --install
> schtasks /Run /TN EdusolBridge
```

POWERSHELL

05

Connect ClassroomX

- 1 On the same PC, sign in to ClassroomX with an account that has **Admin → Full** access.
- 2 Open **Admin → Edusol SAMS** and enter the bridge URL `http://127.0.0.1:7791` .
- 3 Paste the API key. To copy it, run:

```
> .venv\Scripts\python -m bridge --show-key
```

POWERSHELL

- 4 Click **Save & test**. You'll see your school's details and learner, educator and class counts.

Good to know: the URL and key are saved in this browser on this PC only. Repeat this step on any other PC that needs SA-SAMS.



If something's not working

Bridge not reachable	Check the bridge window from step 4 is still open, or that the scheduled task is running.
"Driver not found"	Python and the Access driver must both be 64-bit, or both 32-bit.
Tables don't load	The API key is missing or mistyped. Copy it again with <code>--show-key</code> .
Browser blocks the bridge	In Chrome or Edge, click Allow when asked to let the site access devices on your local network.
Database locked	The Windows user running the bridge needs write access to the folder with <code>School.mdb</code> .

Rather have us do it?

Our team sets the bridge up with you, remotely or on site.

classroomx.co.za/contact