

Connect Excel to your AfriTerminal financial data

This guide walks a covering analyst through generating an API key, connecting it in Excel via Power Query, and pulling live financial_history figures (PAT, EPS, revenue, DPS, and confidence) straight into a workbook, refreshable on demand.

1. Generate an API key

In the AfriTerminal dashboard, open the Profile & Settings panel and find the **API Access** section.

Click **Generate API Key**. Your new key is shown once, in full, in an inline reveal box with a Copy button.

Copy it immediately and store it somewhere safe (a password manager, not a plain text file). AfriTerminal never stores or displays the raw key again after this screen - only a short prefix is shown afterwards, to help you identify which key is which.

You may hold up to 5 active keys at a time. Revoke ones you no longer use from the same panel.

2. What the API returns

One endpoint, read-only, one ticker per call:

```
GET https://api.afriterminal.com/api/v1/financials?ticker=GTCO
```

Returns up to 20 years of full-year (FY) financial_history rows for that ticker: period_year, pat_ngn, eps_ngn, revenue_ngn, dps_ngn, total_equity_ngn, shares_outstanding, and extraction_confidence (high/medium) so you always know how verified a figure is.

Not every ticker reports in naira. A small number of NGX-listed companies file their results in US dollars instead - Airtel Africa (AIRTELAFRI) and Ecobank/ETI are the two currently on file. For these, every response row also carries reporting_currency ('NGN' or 'USD') plus four dollar-denominated fields: revenue_usd, pat_usd, eps_usd, dps_usd. When reporting_currency is 'USD' for a given year, the naira fields (pat_ngn, revenue_ngn, eps_ngn, dps_ngn) come back blank for that row on purpose - read the matching _usd field instead, never assume a blank naira field means the figure is unverified. The response's own top-level currency field states this for the whole payload too: 'NGN', 'USD', or 'MIXED_SEE_PER_ROW' in the rare case a ticker's own reporting currency changed across the years returned - check it before assuming every row you pulled is naira.

Your key carries a daily request quota. If you exceed it, the API returns 429 and resets on a rolling 24 hour window - see the troubleshooting table on the last page.

3. Connect in Excel via Power Query

No add-in or plugin is required. Power Query (built into Excel, Data tab) can call the API directly.

1. Open Excel and go to **Data > Get Data > From Other Sources > From Web** (older Excel: **Data > From Web**).
2. In the URL box, paste your ticker request, e.g. `https://api.afriterminal.com/api/v1/financials?ticker=GTCO`, then click **OK**.
3. Excel will prompt for authentication. Choose **Web API** (not Basic or Anonymous), and enter your key exactly as: Bearer YOUR_KEY_HERE in the API Key field, under the Authorization header.
4. Click **Connect**. Power Query opens showing the raw JSON response as a small table with rows for ticker, currency, data, and meta.
5. This is expected - data shows as "List" because it is the array of yearly records, not yet unpacked into columns. See Section 4 to turn it into a real table.

4. Expand the response into columns

If Power Query does not auto-expand the data into a table, do this once per query - it takes under a minute and only needs to be set up the first time:

1. In the preview table, click directly on the word "List" next to the data row. This drills into the list of yearly records (you will see several rows all saying "Record").
2. Click into the **formula bar** at the top of the Power Query Editor (it will show something like = Record.ToTable(Source)).
3. Select all the text in the formula bar and replace it with the line below, then press Enter:

```
= Table.FromRecords(Source[data])
```

4. Press the checkmark next to the formula bar to confirm. This converts the response directly into a table with one row per FY year and one column per field (period_year, pat_ngn, eps_ngn, revenue_ngn, dps_ngn, total_equity_ngn, shares_outstanding, extraction_confidence, reporting_currency, revenue_usd, pat_usd, eps_usd, dps_usd) - no separate "expand column" step is needed.
5. Click **Close & Load** (top left) to bring the table into your worksheet.

*Alternative, if the formula-bar edit is not available in your Excel version: click the "List" value as above, then use the ribbon button **Convert > Into Table**, then click the expand icon on the resulting column header and select all fields.*

5. Refresh on demand

Once loaded, right-click the table (or use Data > Refresh All) any time you want the latest verified figures for that ticker. Each refresh counts as one request against your daily quota.

To pull a different ticker, duplicate the query and change the ticker in the URL, or use Data source settings to edit the existing one.

Troubleshooting

Every error returns a short JSON message and, where relevant, an HTTP status code. Power Query usually surfaces the status code directly in its error dialog.

Status	Meaning	What to do
401	Missing, unknown, revoked, or expired API key.	Check the Authorization header reads exactly "Bearer YOUR_KEY". Generate a new key from the Profile panel if yours was revoked.
403	Key is valid but lacks the financials:read scope.	Regenerate the key - new keys are issued with this scope by default.
400	Ticker missing or not shaped like a valid NGX ticker.	Use the exact NGX ticker symbol, e.g. GTCO, ZENITHBANK, DANGCEM - uppercase, no spaces.
404	No full-year (FY) financial_history data on file for that ticker.	Not every NGX ticker has verified FY data yet. Try a priority-covered ticker such as GTCO or ZENITHBANK to confirm your connection works.
429	Daily request quota exceeded.	Wait for the rolling 24 hour window to reset, or reduce how often the workbook auto-refreshes.
503	The quota service itself is temporarily unavailable (not a quota breach).	Retry in a minute. If it persists, contact AfriTerminal - this is a system issue, not something wrong with your key.

A blank cell for revenue_ngn, total_equity_ngn, or shares_outstanding is not an error - it means that specific figure has not yet been verified for that ticker/year. AfriTerminal never fabricates a figure to fill a gap; a blank is the honest state. A blank naira field on a ticker whose reporting_currency is 'USD' for that year (Airtel Africa, Ecobank/ETI) is the same honest pattern, not a data gap either - the real figure is in the matching_usd field instead.

Questions or a key that will not work as expected: contact your AfriTerminal account contact directly.