

fiskaly SIGN FR — User File (Dossier utilisateur)

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1. System Functionalities and Operating Instructions

SIGN FR is a platform-independent, software-only solution consisting of a RESTful Unified API that allows easy integration with POS and cash register systems. It provides a fiscalization solution to comply with the Inalterability, Security, Conservation and Archiving (ISCA) conditions as mandated by BOI-TVA-DECLA-30-10-30 for software and secure cash systems in France.

Information for integrators of SIGN FR API can be found on fiskaly's developer website:

- **API Documentation and Guides:** <https://workspace.fiskaly.com/countries/france>

fiskaly provides three tools for working with tax archives:

- **Tax Archive Viewer:** <https://sign-fr-tax-archive-tools-1091330669471.europe-west3.run.app/v2/tax-archive-viewer.html>
- **Integrity Checker:** <https://sign-fr-tax-archive-tools-1091330669471.europe-west3.run.app/v2/integrity-checker.html>
- **Tax Archive Downloader:** <https://sign-fr-tax-archive-tools-1091330669471.europe-west3.run.app/v2/archive-downloader.html>

Note: It is the responsibility of the POS or cash register vendor to provide a user manual for the end user (taxpayer), as well as describing the process to access information by the tax authority (if additional ways are implemented beyond fiskaly's tools).

2. Tax Archive Viewer

The Tax Archive Viewer lets you browse all transaction records inside a tax archive — receipts, invoices, closings, events, and other document types — in a clear, searchable interface. No installation is required; the tool runs entirely in the web browser (Google Chrome or Microsoft Edge recommended) and can also be used fully locally.

Privacy: The Tax Archive Viewer processes everything locally in your browser. Your archive files are never sent to a server and never leave your computer.

2.1. Step 1: Load an Archive

1. Open the Tax Archive Viewer.
2. Drag and drop your ZIP archive file onto the upload area, or click "Choose ZIP File".
3. A progress bar appears while the archive is being read.

For archives containing more than 1,000 records, a date range picker will appear. Select a start and end date to load only records from that period, or click "Load All" to load everything.

2.2. Step 2: Browse Records by Type

Once loaded, a tabbed interface shows different document types:

Tab	What It Shows
Closing	Daily or periodic closing records
Receipt	Fiscal receipts (tickets de caisse)
Invoice	Fiscal invoices
Proof of Payment	Payment confirmation documents
Draft Receipt	Non-fiscal draft receipts (notes)
Pro Forma Invoice	Pro forma invoices
Duplicate	Duplicated documents
Event	Technical event log entries (JET)
All Transactions	All records combined

2.3. Step 3: Select and Inspect a Record

The left side shows a table of records with record number, timestamp, source filename, and additional details. Click any row to open the record details on the right side.

2.4. Step 4: Use the Detail Views

When a record is selected, five views are available:

View	Purpose
Summary	Organized overview: type, amounts, VAT breakdown, line items, payments, taxpayer information
FIDELE	Record mapped to official French FIDELE standard codes (used in tax audits)
Tree	Collapsible tree showing full record structure of the XML
XML	Original XML file content with syntax highlighting
Record	Raw data in JSON format from the XML file

2.5. Step 5: Summary Fields

The Summary view organizes record data into sections (Record, Transaction, VAT Breakdown, Line Items, Closing, Event, Taxpayer, Location, System, NF525 Sequence, UAPI Journal). Sections appear only when relevant data is present.

2.6. Badges in the Record Table

- **Training** (orange): Record created in training mode. Not a real fiscal transaction.
- **Offline** (purple): Record created while the cash register had no internet connection. Later replayed when connectivity was restored.

2.7. Searching Records

Use the search bar to find records by any text (record IDs, amounts, dates, operator names). The list filters in real time. Within XML and FIDELE views, a local search is available.

2.8. Sorting Records

Click the "Time UTC" column header to sort by date. Click again to reverse.

2.9. Keyboard Navigation

Use arrow keys (up/down) to move between records without using the mouse.

2.10. Exporting Data (CSV Export)

1. Click "Export CSV" in the top bar.
2. A ZIP file will be downloaded containing one CSV file per document type.

These CSV files can be opened in Microsoft Excel, Google Sheets, or similar tools.

2.11. Closing the Archive

Click "Close Archive" to return to the upload screen and load a different archive.

3. Integrity Checker

The Integrity Checker verifies that a tax archive has not been tampered with. It performs seven automated checks to confirm the archive's structure, file integrity, cryptographic signatures, and chain continuity.

Privacy: The Integrity Checker processes everything locally in your browser. Your archive files are never sent to a server and never leave your computer.

3.1. Step 1: Upload an Archive

1. Switch to the Integrity Checker using the navigation bar.
2. Drag and drop your ZIP archive or click "Choose ZIP File".
3. Verification begins automatically.

3.2. Step 2: Review the Results

After processing, results show:

- Summary: "All Checks Passed" (green) or "N Check(s) Failed" (red)
- Archive metadata: filename, file size, number of records, number of daily ZIP files, processing time

3.3. The Seven Checks

#	Check Name	What It Verifies
1	ZIP Archive Structure	Every data file has a matching signature file
2	Daily ZIP Integrity and Signature	Each daily ZIP is unmodified and its cryptographic signature is valid
3	Per-Record Integrity and Signature	Each individual record is unmodified and its signature is valid
4	NF525 Sequence Chain	Transaction numbers are continuous with no gaps; correct predecessor references
5	Sequence Signature Verification	SHA-256 hash and PS256 cryptographic signature of each sequence are valid
6	UAPI Journal Chain	Global journal across all records is continuous and correctly linked
7	XML Digital Signature (XAdES)	Embedded digital signature in each XML record is mathematically valid

3.4. Understanding the Results

Each check shows PASS or FAIL. Click on failed checks to expand details showing which file or record is affected and a description of the problem.

3.5. What to Do If Checks Fail

- **Check 1 fails:** Archive structure is incomplete; some files may be missing or corrupted.
- **Check 2 fails:** A daily ZIP may have been modified after signing.
- **Check 3 fails:** An individual record may have been altered after signing.
- **Check 4 fails:** Missing records in a sequence (gap in numbering).
- **Check 5 fails:** Sequence hash or signature invalid; NF525 data may have been altered.
- **Check 6 fails:** Global journal chain is broken; possible record deletion or reordering.
- **Check 7 fails:** Embedded XML signature does not match content; possible tampering.

When verifying a partial archive (not the complete history), some chain checks may report expected gaps for the very first records.

3.6. Checking Another Archive

Click "Check Another Archive" to return to the upload screen.

3.7. Downloading the Verification Report

After all checks complete, a "Download Report (.md)" button appears. The report includes:

- Plain-language verdict for each check
- Complete list of all issues found (if any) with record IDs and file paths
- One concrete data example per check with full hashes and signatures
- Step-by-step process explanation for each check

The report renders in any text editor, GitHub, or Confluence, and can be converted to PDF. Use cases:

- Attach to audit documentation as proof of archive integrity
- Archive alongside the ZIP as a verification receipt
- Investigate failures with detailed record information

4. Tax Archive Downloader

The Tax Archive Downloader is a browser-based UI wrapper around the fiskaly SIGN FR API. It authenticates with your API credentials, fetches all archive files for a selected cash register system within a date range, and packages them into a single downloadable ZIP file.

Note: The Downloader communicates with the fiskaly API to retrieve archive files. It does not store your API key or secret; these are kept in memory only during the session and are never written to disk or sent to any third party.

4.1. What You Need

- A modern web browser (Google Chrome or Microsoft Edge recommended)
- Your fiskaly API credentials (API Key and API Secret)
- The API URL for your environment (LIVE or TEST)

4.2. Step 1: Authenticate

1. Open the Tax Archive Downloader.
2. Fill in the authentication form:

Field	Description
API URL	<code>https://live.api.fiskaly.com</code> for production or <code>https://test.api.fiskaly.com</code> for test
API Version	Pre-filled, read-only
API Key	Your fiskaly API key (Subject)
API Secret	Your fiskaly API secret (masked)

3. Click “Next” to authenticate.

4.3. Step 2: Select System and Date Range

After authentication:

1. **System:** Select the cash register system from the dropdown or paste a system UUID.
2. **Start Date** (optional): Beginning of date range.
3. **End Date** (optional): End of date range.

Leave both dates empty to download all archives for the selected system.

4.4. Step 3: Download the Archive

1. Click “Download”.
2. Progress overlay shows: file list preparation, individual file downloads, progress bar.
3. Browser triggers automatic ZIP download named `{systemId}_{YYYYMMDD}-{YYYYMMDD}.zip`.

4.5. Cancelling a Download

Click "Cancel" on the progress overlay to abort. Partially downloaded files will be discarded.

4.6. Session Persistence

If you refresh after authenticating, the tool will attempt to restore your session automatically.

4.7. What to Do with the Downloaded Archive

The downloaded ZIP contains all tax archive data (XML records) and their JWS integrity signature files. You can:

- Open it in the Tax Archive Viewer to browse and inspect records
- Upload it to the Integrity Checker to verify integrity

4.8. Downloading via API (without the tool)

For programmatic downloads from scripts or backend systems:

Step 1: Authenticate

POST /tokens

Body: { "content": { "type": "API_KEY", "key": "<api_key>", "secret": "<api_secret>" } }

Step 2: List archive files

GET /files?system_id={system_id}&start={start_date}&end={end_date}&limit=100

Header: X-API-Version: {API_VERSION}

Paginate using the token query parameter from the pagination object.

Step 3: Download each file

GET /files/{path} → .zip file

GET /files/{path}.jws → .jws integrity file

Step 4: Bundle into a single ZIP Name the output: {system_id}_{YYYYMMDD}-{YYYYMMDD}.zip