

Anonymise your personal data without breaking its consistency.

nsadamask replaces personal data with equivalent, valid values: the same original always produces the same replacement, and every field keeps its format.

[SEE THE FEATURES →](#)

Deterministic · 6 countries · 37 dictionaries · Dry run first



Per-field dictionary

what to mask and in which format



Valid replacement

DNI, IBAN, card, IP... with a real format



THE PROBLEM

Anonymising cannot just mean "change the numbers"

If the anonymised value does not have a valid format, it stops being useful for testing, stops being reversible and stops being business data.

1

Replacements that break the format

A DNI with letters, an IBAN that does not validate: the target system rejects it and the data becomes useless.

2

Loss of traceability

A random value on every load makes it impossible to recognise the same customer across two runs.

3

Risk of touching production

Anonymising "by eye" over the real file, with no simulation and no record of what changed.

nsadamask anonymises deterministically and with a valid format, and shows you the plan before writing anything.

WHAT IT IS

Nacarsoft's deterministic anonymiser

nsadamask walks the Adabas files, detects the fields that hold personal data and replaces them with equivalent, valid values for the right country.

The same original always produces the same replacement (deterministic), the format is preserved and everything can be simulated before touching the core.

6

countries with dictionary

37

format dictionaries

0

core changes (it
simulates)



nsadamask

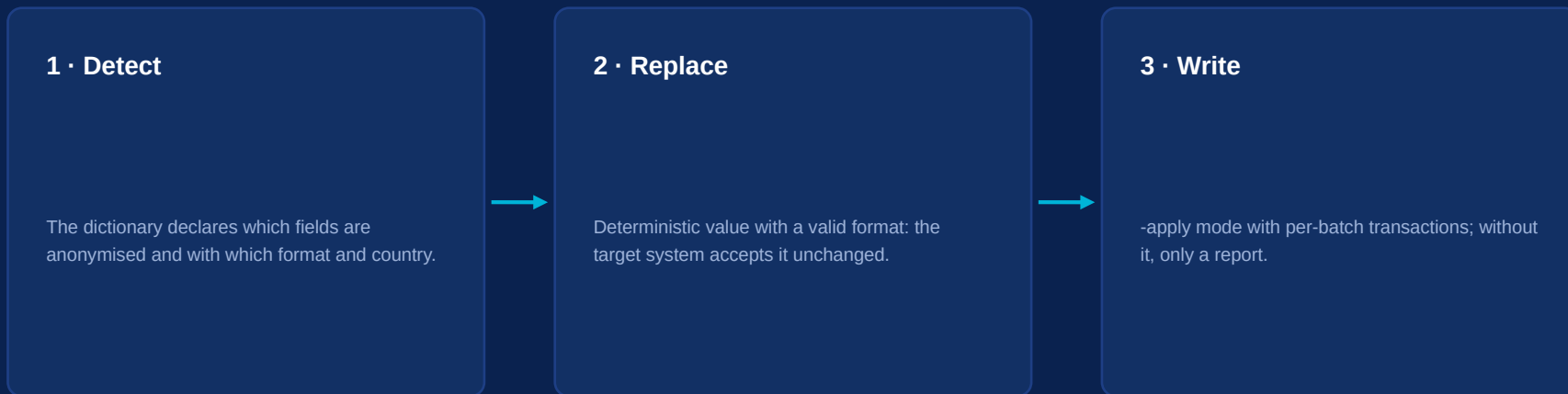
Anonymisation with a valid format

- Deterministic: same original, same replacement
- DNI, CPF, RUT, SSN, IBAN, card, IP, MAC...
- Country-aware dates: DD/MM/YYYY or MM/DD/YYYY
- -simulate: the report before applying

HOW IT WORKS

From real data to equivalent data, in three steps

Direct connection to the core with paged reads and multifetch, and writes only when you say so.

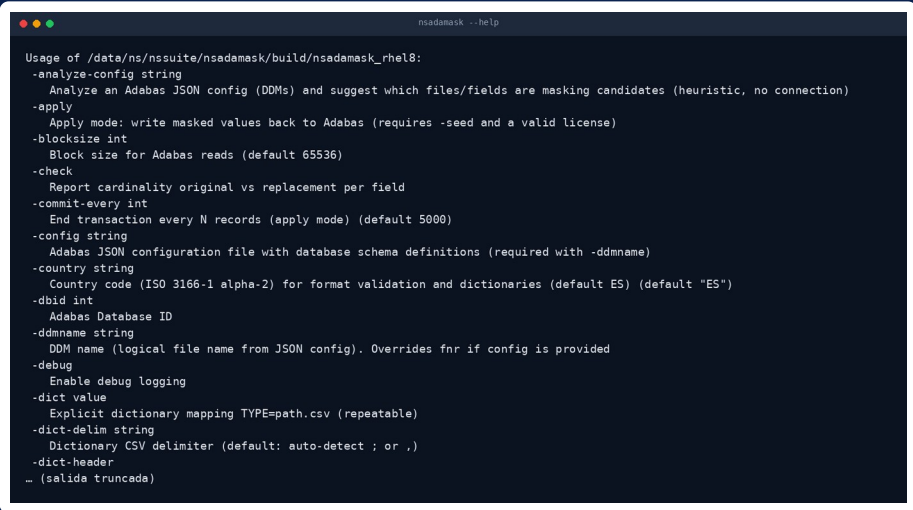


The replacement is derived from a seed: repeating the anonymisation gives the same result.

THE TOOL

The whole product is in --help

One binary, no dependencies: the per-country dictionaries, the formats and the working modes are all in the help.



```
Usage of /data/ns/nsuite/nsadamask/build/nsadamask_rhel8:
-analyze-config string
    Analyze an Adabas JSON config (DDMs) and suggest which files/fields are masking candidates (heuristic, no connection)
-apply
    Apply mode: write masked values back to Adabas (requires -seed and a valid license)
-blocksize int
    Block size for Adabas reads (default 65536)
-check
    Report cardinality original vs replacement per field
-commit-every int
    End transaction every N records (apply mode) (default 5000)
-config string
    Adabas JSON configuration file with database schema definitions (required with -ddmname)
-country string
    Country code (ISO 3166-1 alpha-2) for format validation and dictionaries (default ES) (default "ES")
-dbid int
    Adabas Database ID
-ddmname string
    DDM name (logical file name from JSON config). Overrides fnr if config is provided
-debug
    Enable debug logging
-dict value
    Explicit dictionary mapping TYPE=path.csv (repeatable)
-dict-delim string
    Dictionary CSV delimiter (default: auto-detect ; or ,)
-dict-header
    ... (salida truncada)
```

- No dependencies
- Per-country dictionaries
- Simulation by default

Real output of nsadamask --help

Analysis first, change later

-analyze-config reviews a DDM JSON file and suggests which files and fields are anonymisation candidates, without connecting to the database.

A terminal window with a dark background and a title bar showing 'nsadamask --help' and '-analyze-config'. The output lists several command-line options for the nsadamask tool.

```
nsadamask --help  ·  -analyze-config

-analyze-config string
  Analyze an Adabas JSON config (DDMs) and suggest which files/fields are masking candidates (heuristic, no connection)
-apply
  Apply mode: write masked values back to Adabas (requires -seed and a valid license)
-blocksize int
  Block size for Adabas reads (default 65536)
-check
```

- No core connection
- Heuristic suggestions
- A starting point

Real output of nsadamask -analyze-config

FEATURES

What it does, point by point

Designed for regulated environments, where anonymised data must still be valid data.



Deterministic anonymisation

The same original value always produces the same replacement, across runs and across files.



Format preserved

DNI, CPF, RUT, SSN, passport, CIF, CUIT, IBAN, cards, IP, MAC and valid plates.



Country-aware dates

DD/MM/YYYY in Spain, MM/DD/YYYY in the US; YYYYMMDD and ISO always accepted.



Cardinality check

-check reports the number of original and replacement values per field.



Simulation first (-simulate)

A per-field report of what would change, without writing anything at all.



Multi-country

ES, AR, US, BR, CL and MX with 37 valid-format dictionaries (DNI_AR, TAX_ID_AR, POSTAL_CODE_US...).



Direct core connection

acj client with paged reads and multifetch: no intermediate files involved.



Seed and traceability

The seed makes the anonymisation reproducible; every change is recorded.

KEY OPTIONS

The parameters used every day

They combine with each other; every other flag is in --help.

-db id <id>

Source Adabas database. Required in -apply mode.

-fn r<n> | -ddm name

File by number or by logical DDM name.

-con fig <file>

JSON configuration with the file definitions.

-analyze-con fig

Suggests candidate files and fields. Heuristic, no connection.

-sim ulate

Report of what would change, without writing anything.

-app ly

Writes the replaced values (requires seed and licence).

-dict / -dict dir

Format dictionaries: TYPE=path.csv, repeatable.

-country <CC>

ISO 3166-1 alpha-2 country for format validation (default ES).

Where it is used every day

The same use cases we solve with customers in banking, healthcare and the public sector.

01

Test environments

Copy production to pre-production with the personal data replaced.

02

Statistics and analytics

Analytics over real data without being able to identify the person.

03

External suppliers

Hand over a file with a valid format and no identifiable data.

04

Audit and expertise

Document which fields are anonymised and with which criteria.

Install and anonymise in five minutes

Requirements

- Linux x86-64 (RHEL 8 or RHEL 9)
- Native Adabas client (acj) in the PATH
- Write access (only in -apply mode)
- Per-country format dictionaries
- Product licence or the 30-day trial

Install and first run

```
# Install the suite
./installsh --prefix /opt/ns

# See what would be anonymised
nsadam ask -dbid 40 -fnr 120 \
  -config ddm.json -simulate

# Apply (reproducible seed)
nsadam ask -dbid 40 -fnr 120 \
  -config ddm.json -seed 42 -apply
```

The licence is resolved from \$NS_LICENSE_FILE, next to the product data or in /opt/ns/licenses/. Without one: 30-day trial.

FREQUENTLY ASKED QUESTIONS

What customers always ask

Is the data still valid?

Yes: the replacement respects the field format (DNI, IBAN, card, IP), so the target system accepts it exactly as before.

Can the anonymisation be repeated?

Yes: with the same seed you get exactly the same result. It is deterministic.

Does it write to the core?

Only in -apply mode. With -simulate it produces the report and changes nothing at all.

Which dictionaries are available?

37 dictionaries for 6 countries (ES, AR, US, BR, CL, MX), and you can add your own CSV dictionaries.

NEXT STEP

Anonymise your data and still have business data.

Ask for a demo with a real file: we show the field report and the result with a valid format.

REQUEST A DEMO →

nacarsoft.com · support@nacarsoft.com · +34 910 038 502



Nacarsoft Soluciones Informáticas S.L. · nacarsoft.com · nsadamask

NSAdaMask at a glance

- Deterministic replacement with a valid format
- 6 countries and 37 dictionaries
- Dry run before touching the core
- Direct connection with paged reads