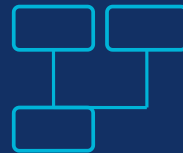


Your Natural DDM, ready for the rest of the world.

nsddm walks the Natural fuser and generates the complete dictionary of your Adabas files in JSON: fields, types, formats and indexes, queryable and reusable.

SEE THE FEATURES →

fuser scan · JSON · Query without scanning · AI enrichment



Natural fuser

scan of libraries and files



JSON dictionary

fields, types, formats, indexes



THE PROBLEM

The DDM is the key, and it is stuck in the fuser

The dictionary of your installation exists, but nobody can query it from outside the core: not a tool, not a report, not a bulk load.

1

A fuser nobody can read

The structure of your files lives in a proprietary format, on a server not everyone can reach.

2

Every tool repeats the work

Extractions, loads and anonymisation all need the DDM... and each one interprets it on its own.

3

Reorganising files blind

Changing the number or the name of a file without knowing what depends on it.

nsddm turns your DDM into a JSON that can be queried, versioned and reused across the whole suite.

WHAT IT IS

Nacarsoft's DDM to JSON generator

nsddm has two modes. In generation mode it scans the Natural fuser and writes the complete dictionary to JSON. In query mode it works on that already generated JSON, without touching the core.

The result is a machine-readable dictionary shared by nsadafile, nsadaloader, nsadamask and the rest of the suite.

2

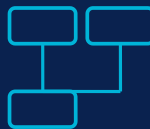
modes: generate and query

0

libraries to install

1

JSON shared by everyone



nsddm

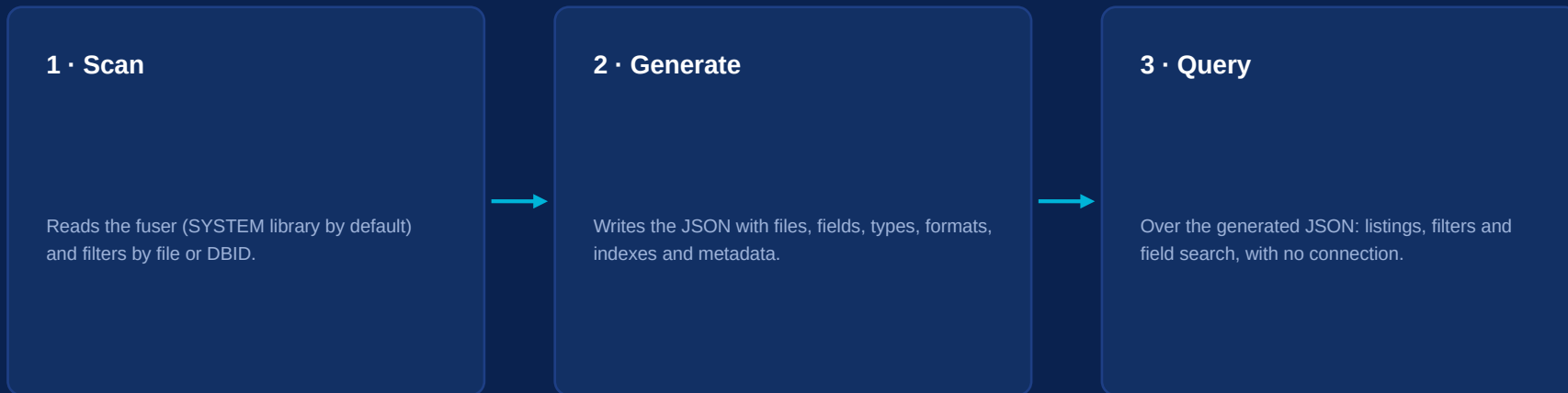
DDM (Natural) → JSON

- fuser scan by libraries and files
- Filters by file number and DBID
- Query the JSON without scanning again
- Optional AI enrichment

HOW IT WORKS

From the fuser to a dictionary everyone understands

A light scan, a documented JSON and a query mode that never touches the core again.



With **-ia** the dictionary is enriched with descriptions and sensitive-data detection.

THE TOOL

Two modes, one binary

Generation mode scans the fuser; query mode works on the generated JSON without connecting to the core again.

```
nsddm --help

nsddm - Generador de esquemas DDM (Natural/Adabas) -> JSON y consultas

Uso: /data/ns/nssuite/nsddm/build/nsddm_rhel8 <modo-generación | modo-consulta> [flags]

=====
MODO 1 - GENERACIÓN: escanea el fuser y genera el JSON
=====

OBLIGATORIO: -fuserdir
(No compatible con los flags de consulta de abajo)

-fuserdir string  Ruta del directorio fuser de Natural (OBLIGATORIO)
-lib string       Librería bajo fuserdir (por defecto SYSTEM)
-outfile string   Ruta del JSON de salida (si no, salida estándar)
-files string     Filtro por nº de fichero o rango: 120 o '(10-20,100-300)'
-dbid string      Filtro por nº de base de datos (campo DB: del NSD)
-default-dbid int DBID por defecto para ficheros sin DB en el NSD (DB: vacío/000)
-ia              Enriquece con IA: descripciones (DDM/campos/índices) y datos sensibles
-ai-endpoint string Endpoint OpenAI-compatible (default OpenRouter)
-ai-key string    Clave de API (o variable AI_API_KEY). OBLIGATORIA con -ia
-ai-model string  Modelo (default deepseek/deepseek-chat)
-ai-cache string  Fichero de caché de respuestas IA (default ai_cache.json)

Ejemplo:
nsddm -fuserdir /opt/adasm/fuser -lib SYSTEM -outfile output.json
nsddm -fuserdir /opt/adasm/fuser -lib SYSTEM -outfile output.json -ia -ai-key ...

... (salida truncada)
```

- No dependencies
- Filters by file and DBID
- Output to file or stdout

Real output of nsddm --help

The dictionary, without scanning

In query mode nsddm works on the generated JSON: file and field listings, filters and search, with no database connection.

```
nsddm --help · modo consulta

MOD0 2 — CONSULTA: trabaja sobre un JSON ya generado (sin escanear)

OBLIGATORIO: -input (o -outfile si se generó antes)
(No compatible con los flags de generación de arriba)

-input string      Ruta del JSON generado previamente (OBLIGATORIO)
-schema string     Esquema completo de un DDM: campos con tipo, tamaño,
                  descripción, padre (REL). Acepta nombre de DDM o nº de fichero
-relations         Con -schema: muestra las relaciones detalladas de cada campo
-datamask          Lista los campos con datos sensibles (dni, nombre, teléfono, iban...)
-search string     Busca campos por nombre completo o parcial (con definición)
```

- No core connection
- Filters by name and type
- Versionable JSON

Real excerpt of the nsddm help (query mode)

FEATURES

What it does, point by point

The dictionary is the base of everything else: if the DDM is right, the rest of the tools work.



Full DDM dump

Files, fields, types, formats, length, repeated elements and periodic groups.



Scan by library

-lib to pick the fuser library (SYSTEM by default) and -files to filter ranges.



Flexible filters

By file number (120 or (10-20,100-300)) and by DBID, with a configurable default DBID.



Query mode

Works on the generated JSON: listings and filters with no core connection.



File or stdout output

-outfile writes the JSON where you want; without it, it goes to stdout and can be redirected.



AI enrichment (-ia)

Describes files and fields, detects sensitive data and proposes values, with a response cache.



Light execution

No external dependencies and nothing to install: a static, fast binary.



Base of the other tools

The same JSON is used by nsadafile, nsadaloader and nsadamask to validate and to name fields.

KEY OPTIONS

The parameters used every day

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

-fuserdir <path>

Natural fuser directory. Required in generation mode.

-lib <library>

Library under the fuserdir (SYSTEM by default).

-outfile <file>

Path of the output JSON; if absent, output to stdout.

-files <filter>

Filter by file number or range: 120 or '(10-20,100-300)'.

-dbid <dbid>

Filter by database (DB field of the NSD).

-default-dbid <n>

Default DBID for files with no DB in the NSD.

-ia

Enriches with AI: descriptions and sensitive data (requires -ai-key).

-ai-model / -ai-endpoint

Model and OpenAI-compatible endpoint (OpenRouter by default).

USE CASES

Where it is used every day

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

01

Feeding the tools

Generate the JSON that nsadafile, nsadaloader and nsadamask use to validate and name fields.

02

Documenting the installation

A readable inventory of files, fields and formats that you can version.

03

Auditing the DDM

Detect leftover fields, inconsistent types or differences between environments.

04

Planning a migration

Know exactly what has to be migrated, field by field, before touching anything.

Install and generate the dictionary

Requirements

- Linux x86-64 (RHEL 8 or RHEL 9)
- Read access to the Natural fuser
- Write permission where the JSON is generated
- No dependencies: static binary
- API key only if you use -ia

Install and first run

```
# Install the suite
./install.sh --prefix /opt/ns

# Generate the dictionary
nsddm -fuserdir /opt/adasm /fuser \
      -lib SYSTEM -outfile ddm.json

# Query the generated JSON
nsddm -config ddm.json -list-files
```

The generated JSON is the input of the other utilities: keep it under version control with the rest of your configuration.

FREQUENTLY ASKED QUESTIONS

What customers always ask

Does it need the Adabas core?

No. In generation mode it only reads the Natural fuser; in query mode it works on the JSON, with no connection at all.

What about files with no DB?

You can assign a default DBID with `-default-dbid`, so the JSON comes out complete and usable.

Is it safe to use with AI?

AI enrichment is optional (`-ia`) and the answers are cached in `ai_cache.json`, so the call is not repeated.

Who consumes the JSON?

`nsadafile`, `nsadaloader` and `nsadamask`: it gives them logical field names and length validation.

NEXT STEP

Open up your DDM and put the whole suite to work.

Ask for a demo with your fuser: we show the generated dictionary and the tools that consume it.

REQUEST A DEMO →

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NSDdm at a glance

- fuser scan and JSON output
- Query mode with no connection
- Filters by file, range and DBID
- Base of the other suite utilities