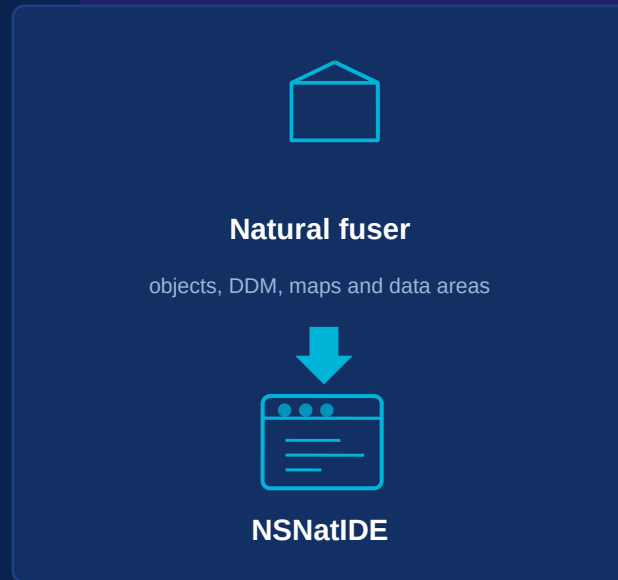


# Write Natural in the browser. Without touching the core.

NSNatIDE opens your Natural fuser as a web IDE: explore the 8,000 objects, edit the code, review with AI, version with Git and deploy SYSOBJH packages between environments.

[SEE THE FEATURES →](#)

FUSER explorer · Natural editor · AI review · Git · SYSOBJH packages



## THE PROBLEM

# The Natural nobody wants to touch

Natural code is still the heart of many systems, but the tools to maintain it stayed behind thirty years ago.

1

### Editing only at the desk

One programmer, one machine and a licence per seat: the knowledge never gets shared.

2

### No change control

No history, no branches, no comparison between versions: every promotion is a risk.

3

### Promoting blind

No traceability between what runs in DEV, TST and PRD, nor of who changed what.

**NSNatIDE turns Natural maintenance into team work, with traceability from end to end.**

WHAT IT IS

# The Natural IDE in the browser

NSNatIDE connects over SSH to the Natural fuser of your environments and turns the DDM into a web IDE: the object explorer, the code editor, the compiler output, Git, AI and package deployment.

All of it in the browser and with your team's permissions: every object, every change and every deployment is audited.

0

installations on the  
desktop

1

environment per person

100%

audited changes



## NSNatIDE

The Natural IDE on the web

- Full FUSER explorer
- Natural editor with compile and output
- AI-assisted review
- Git, SYSOBJH packages and deployment

## HOW IT WORKS

# From the fuser to the environment, under control

One place to read, change, version and promote your Natural code.

### 1 · Connect

SSH to the fuser (local or remote) and read the DDM: objects, formats, data areas.

### 2 · Edit and review

Editor with highlighting, compile, output and AI-assisted review.

### 3 · Version and deploy

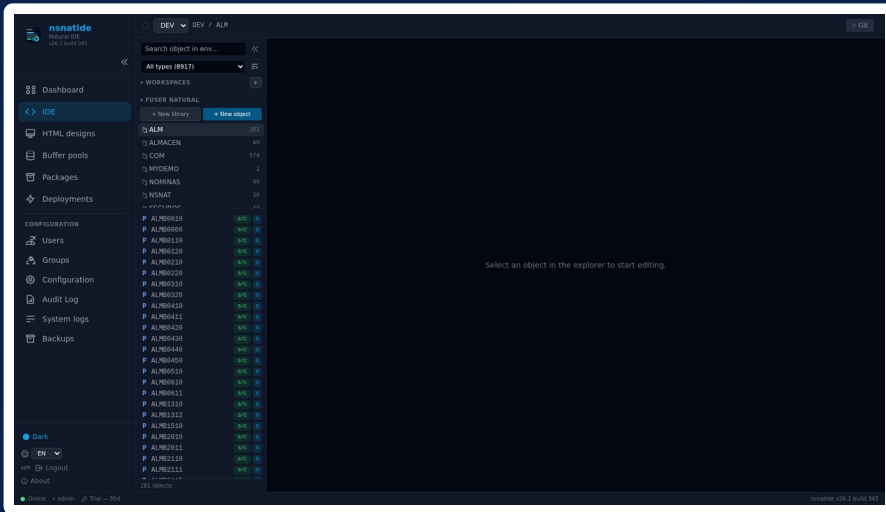
Commit to Git, build the SYSOBJH package and deploy with traceability.

**Every action is audited: who, what, when and in which environment.**

## THE EXPLORER

# Your whole fuser, on screen

The complete tree of libraries and objects in the Natural fuser, with the state of every object (source, catalog) and instant search.



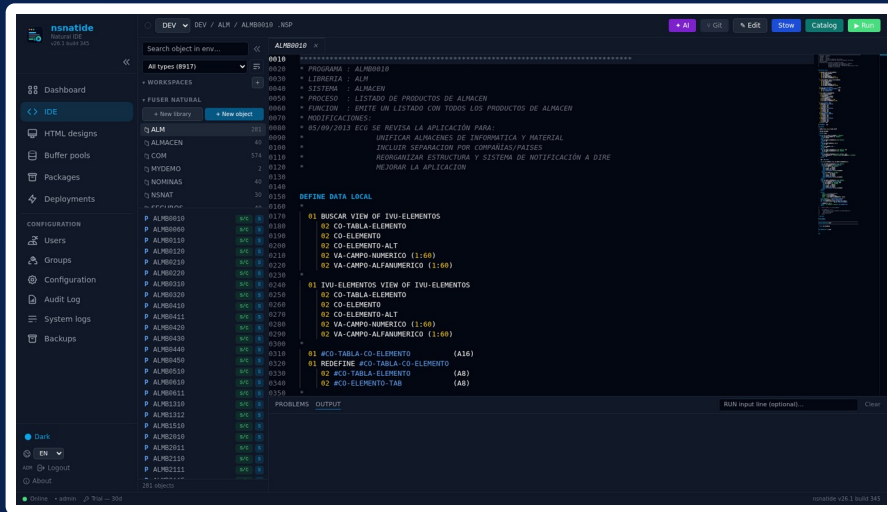
- Objects, DDM, maps and LDA
- Search by name or DDM
- Nothing to install on the desktop

Real NSNatIDE console: the FUSER explorer

## THE EDITOR

# Real Natural, in the browser

Editor with syntax highlighting, minimap, compilation and compiler output: the write–compile–fix cycle without leaving the tab.

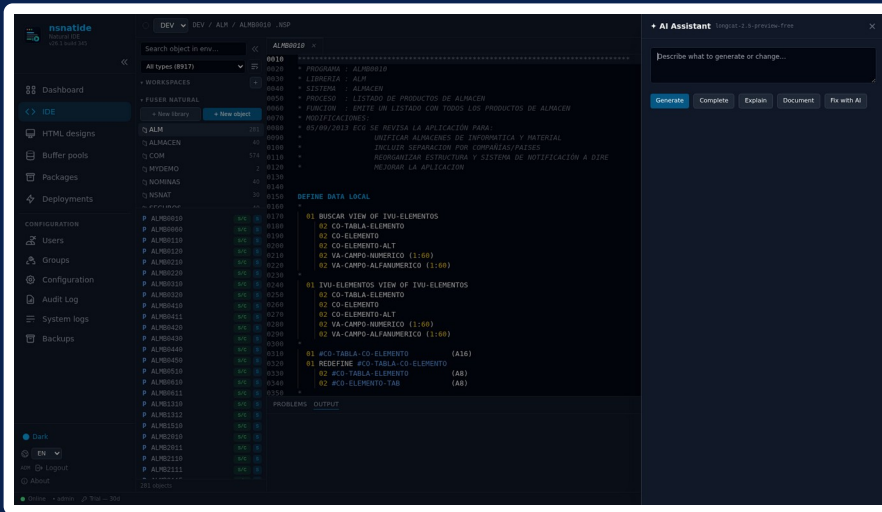


- Highlighting and minimap
- Compiler output
- Save, stow and run

Real Natural code open in NSNatIDE

# A second opinion on the code

The assistant generates, completes, explains, documents and fixes the open object, with the code and the DDM as context.



- Generate and complete
- Explain and document
- Fix with AI

## PACKAGES

# Promotions with SYSOBJH and a ticket

Compose a package with the objects that changed, generate the SYSOBJH transport and leave it ready to deploy to the target environment.

| Source env | Name                                                                                     | Created          | Created by | Objects | SYSOBJH          | Status    | Ticket                          |
|------------|------------------------------------------------------------------------------------------|------------------|------------|---------|------------------|-----------|---------------------------------|
| DEV        | INVENT<br>Inventario: programas nuevos y correcciones de la interfaz de entrada de datos | 2020-10-21 00:15 | admin      | 2       | -                | generated | CIS-4955 <a href="#">Delete</a> |
| DEV        | PAGOS<br>Módulo de pagos: subrutina de cálculo, mapas y ODM de interfaz                  | 2020-10-19 12:15 | mlopez     | 3       | -                | failed    | CIS-4936 <a href="#">Delete</a> |
| TST        | NOTIAS<br>Tablas de nomenclátor y programas de la interfaz de mantenimiento              | 2020-10-16 12:15 | lgarcia    | 4       | 2020-10-19 12:15 | generated | CIS-4907 <a href="#">Delete</a> |
| DEV        | ALCORE<br>Corte de ALUM, programas, subprogramas y copycode del módulo de clientes       | 2020-10-09 12:15 | admin      | 6       | 2020-10-12 12:15 | deployed  | CIS-4821 <a href="#">Delete</a> |

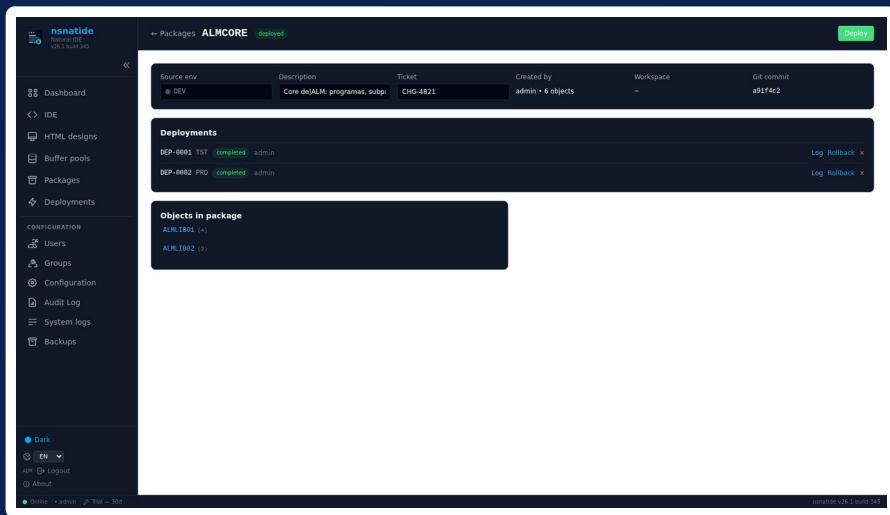
- Composition by library
- SYSOBJH transport
- Ticket and traceability

NSNatIDE distribution packages

## DEPLOYMENT

# Every promotion, with its own history

The package detail shows the deployments to each environment, with their log, their result and the option to roll back.

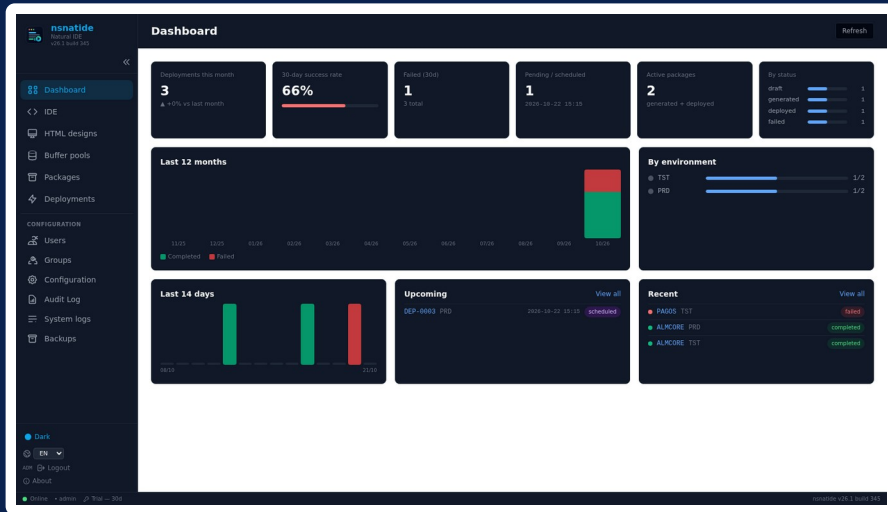


- Log of every deployment
- Rollback available
- Linked Git commit

Package detail with its deployments

# The state of your environments at a glance

Dashboard with the month's deployments, the success rate, the history per environment and the upcoming scheduled runs.



- 30-day success rate
- History per environment
- Upcoming deployments

NSNatIDE control panel

## FEATURES

# Everything you can do

A full inventory of what NSNatIDE puts within the team's reach.



### Full FUSER explorer

Libraries, objects, programs, subprograms, copycode, maps, DDM, LDA/PDA/GDA and HTML data areas.



### Complete Natural editor

Syntax highlighting, minimap, line numbers, find and replace, go to line, vim mode and autosave.



### Compile and output

Compiles the object and shows the compiler output in the same screen, with the error number and line.



### AI assistant

Generate, complete, explain, document and fix with AI, with configurable model and temperature.



### Integrated Git

Commits, branches, version comparison and per-object history, over the environment repository.



### Workspaces

Group objects into a workspace, with its packages and deployments attached.



### SYSOBJH packages

Composition by library, SYSOBJH transport, linked ticket and optional target compile.



### Deployments and rollback

Immediate or scheduled, with log, result and one-click rollback.



### Backups

Per-module snapshots with immediate recovery and downloadable backup package.



### Compare and copy

Compare libraries and objects between environments, and copy libraries in a controlled way.



### Buffer pools and audit

State of the core buffer pools and a full audit trail of every team action.



### Users, groups and RBAC

Permissions per resource and action, with the system roles already defined.

# Where it pays off

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

01

## Modernise without rewriting

A real IDE for the code that already exists, with a distributed team.

02

## Control the promotions

Packages, SYSOBJH, ticket and log: what goes where and why.

03

## Train the team

Any programmer logs in with their own user and learns your Natural from home.

04

## Recover in time

Per-module snapshots and rollback: the incident is contained in minutes.

# Install and connect in one day

## Requirements

- Linux x86-64 (RHEL 8 or RHEL 9)
- SSH access to the Natural fuser server
- NaturalOBJ and the compile tools in the PATH
- Git in the environment (optional, recommended)
- Product licence or the 30-day trial

## Install and first run

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

# Initialise the IDE directory
nsnatide init ./data

# Start and connect to the fuser
nsnatide start ./data --port 11033
# → in Configuration: environments, fuser, AI and Git
```

The console is protected by users, groups and RBAC; the audit log records every change. Without a licence: 30-day trial.

## FREQUENTLY ASKED QUESTIONS

# What customers always ask

### Does it write to the core?

The editor works on the fuser over SSH with your environment's permissions. Deployment is always an explicit, audited package.

### Does it replace the development environment?

No: the team still programs in Natural. What changes is where they program, how they version and how they promote.

### Do we need a licence per seat?

No: there is one product licence plus console users with permissions. The per-seat cost disappears.

### What if the code is old?

It does not matter: the IDE works with the existing DDM. With AI, documentation and change summaries, old code becomes readable.

NEXT STEP

# The Natural they already have, with an IDE people use.

Ask for a demo with your own fuser: we show your explorer, your editor and a package promoted end to end.

REQUEST A DEMO →

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



## NSNatIDE at a glance

- Full FUSER explorer and editor
- AI, Git, packages and deployments
- Audit trail and per-resource RBAC
- Backups and immediate recovery