

Introduction

What this bundle does, its modules, architecture, and mental model.

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Derafu Platform Bundle is a Symfony bundle that provides the foundational infrastructure for SaaS applications: user management, authentication, multi-tenant organizations, a plugin/app ecosystem, and an event-driven notification system. It supplies reusable building blocks that every SaaS needs — without imposing opinions on your business logic.

Modules

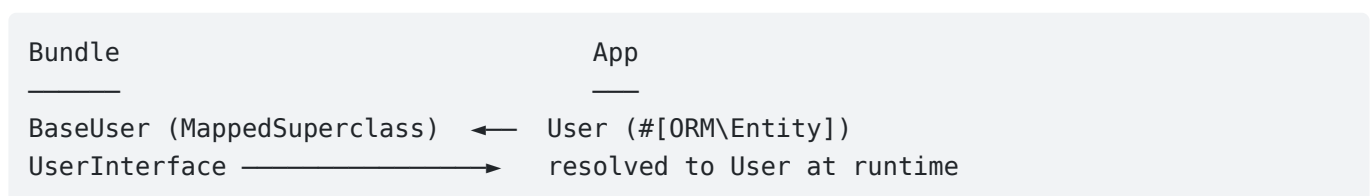
The bundle is organized into six modules, each independently useful but designed to work together:

Module	What it provides
Core	Base resource abstraction, seeders, registry, settings infrastructure
Identity	Users, roles, permissions, organizations, teams, API keys, JWT, 2FA
IdentityUi	Ready-made web UI for auth flows and account settings
Apps	Plugin/integration ecosystem with per-user and per-organization installations
Notifications	Event-driven notifications via email, in-app, and webhooks
Api	API Platform integration helpers (query string adapters, scope enforcement)

Architecture pattern

Every ORM relation in the bundle targets an **interface**, not a concrete class. Doctrine resolves interfaces to the app's concrete entities at runtime via `resolve_target_entities`, wired automatically by the bundle's DI extension. The bundle has zero knowledge of your `App\Entity\*` classes.

The entity pattern is **MappedSuperclass + ResolveTargetEntityListener**:



All public service contracts live under `Contract/{Entity,Service,Integration}/` folders. Services are `final` with companion interfaces — consumers inject the interface, not the class.

Mental model

```
User alice@example.com
├─ personal resources (UserOwnedInterface)
├─ member of Organization "acme"
│   ├── OrganizationMembership (role = org.owner)
│   ├── shared resources (OrganizationOwnedInterface)
│   ├── Team "backend" (subset of members → resource access)
│   └─ other invited members
```

App entities (Project, Invoice, Document, ...) integrate with the bundle by implementing one or more interfaces. The bundle provides traits with ready-made Doctrine mapping.

What it is

- A **MappedSuperclass** bundle — the bundle owns the ORM schema; the app owns the concrete entity classes, table names, and extra fields.
- A **cascading RBAC engine** — permissions are checked at four levels: resource → team → organization → global, with automatic fallback.
- A **user lifecycle toolkit** — registration, email verification, password reset, email change, magic links, sudo mode, and logout.
- A **multi-tenant membership system** — GitHub-style organizations with roles, teams, and invitations.
- A **plugin/app system** — apps installable per user, per organization, or per resource, with encrypted configuration storage.
- A **notification system** — event-defined notifications delivered via email, in-app messages, or webhooks, with per-user preferences.
- A **built-in web UI** — controllers, templates, and routes for all auth and account-settings flows (IdentityUi module).

What it is not

- Not a replacement for Symfony Security — it builds on top of it.
- Not a JWT library — it wraps Lexik JWT for convenience.
- Not a 2FA solution — it integrates Scheb 2FA Bundle.
- Not an OAuth or social-login solution.