

PlanGuard

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PlanGuard

Kind: Service

Source: `atlوريا-monorepo/apps/api/src/billing/plan.guard.ts`

Plan-tier gate (P0-a). Reads the `@RequiresPlan('PRO' | 'BUSINESS')` metadata and verifies the CALLER'S org (from the JWT — never from params/body, per the org-guard lessons) is on that tier or higher via `PlanService.featureLevel`.

No metadata → pass (safe to register broadly). Failure → 402 with a typed payload (`code: 'PLAN_REQUIRED'`) so the web app can show an upgrade CTA.

`PlanGuard` is a NestJS authorization guard that enforces feature access based on the authenticated caller's organization plan. It reads `@RequiresPlan('PRO' | 'BUSINESS')` metadata and compares it against `PlanService.featureLevel`; routes without plan metadata are allowed through. When the organization does not meet the required tier, it returns a typed `402 Payment Required` response with `code: 'PLAN_REQUIRED'` for upgrade handling in the web app.

Methods

Method	Signature	Returns
<code>canActivate</code>	<code>canActivate(context: ExecutionContext)</code>	<code>Promise<boolean></code>

Dependencies

- `Reflector`
- `PlanService`

Where it refuses work

- `PlanGuard` stops the work with `ForbiddenException` when `!user?.organizationId` — “User not authenticated”.
- `PlanGuard` stops the work with an early return when `!required` .
- `PlanGuard` stops the work with an early return when `this.planService.meetsPlan(actual, required)` .

Diagram

```
sequenceDiagram
    participant Client
    participant Guard as PlanGuard
    participant Reflector
    participant JWT as Authenticated Request
    participant PlanService
    participant Controller

    Client->>Guard: Request protected endpoint
    Guard->>Reflector: Read @RequiresPlan metadata

    alt No required plan metadata
        Guard->>Controller: Allow request
    else Plan requirement exists
        Guard->>JWT: Read caller org from JWT
        Guard->>PlanService: featureLevel(callerOrgId)
        PlanService-->>Guard: Current organization plan level

        alt Plan meets or exceeds requirement
            Guard->>Controller: Allow request
        else Plan is insufficient
            Guard-->>Client: 402 Payment Required<br/>{ code: "PLAN_REQUIRED" }
        end
    end
end
```

Usage

```
import { Controller, Get, UseGuards } from '@nestjs/common';
import { PlanGuard } from './plan.guard';
import { RequiresPlan } from './requires-plan.decorator';

@Controller('analytics')
@UseGuards(PlanGuard)
export class AnalyticsController {
    @Get('dashboard')
    @RequiresPlan('PRO')
    getDashboard() {
        return { data: 'Pro analytics dashboard' };
    }
}
```

```

}

@Get('advanced-export')
@RequiresPlan('BUSINESS')
exportAdvancedReport() {
  return { data: 'Business-only export' };
}

@Get('status')
getStatus() {
  // No @RequiresPlan metadata: PlanGuard allows this route.
  return { status: 'ok' };
}
}

```

AI Coding Instructions

- Always derive the organization identity from the authenticated JWT/request context; never trust organization IDs from route parameters, query strings, or request bodies.
- Use `@RequiresPlan('PRO')` or `@RequiresPlan('BUSINESS')` on routes requiring paid-plan features, while registering `PlanGuard` broadly is safe for unannotated routes.
- Compare plan access through `PlanService.featureLevel` rather than hard-coding plan ordering in controllers or feature handlers.
- Preserve the typed insufficient-plan response: return `402 Payment Required` with `{ code: 'PLAN_REQUIRED' }` so clients can consistently show upgrade CTAs.
- Keep this guard focused on plan authorization; authentication and organization-membership validation should remain the responsibility of their dedicated guards.

Relationships

- `DEPENDS_ON` → `reflector`
- `DEPENDS_ON` → `PlanService`

Referenced By

- `BillingModule` (`MODULE_PROVIDES`)
- `BillingModule` (`MODULE_EXPORTS`)