

VersionCarryForwardService

September 4, 2026

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Kind: Service**Source:** [atlوريا-monorepo/apps/api/src/doc-version/carry-forward.service.ts](#)

`VersionCarryForwardService` carries reusable content from one document version into another during versioning workflows. It resolves carry-forward flags, identifies placeholder references, and transfers associated screenshots while reporting what was successfully carried or missing.

Methods

Method	Signature	Returns	Description
<code>carryForward</code>	<code>carryForward(newVersionId: string)</code>	<code>Promise<CarryForwardResult></code>	Carry forward documents from previousVersion → newVersion.
<code>resolveFlag</code>	<code>`resolveFlag(previousDocId: string, newVersionId: string, action: 'keep_previous'</code>	<code>'use_new'</code>	<code>'discard')`</code>
<code>extractPlaceholders</code>	<code>extractPlaceholders(docs: Array<{ id: string; content: string }>)</code>	<code>Array<{ text: string; routePath: string; documentId: string }></code>	Phase 4: Extract screenshot placeholders from document content.
<code>carryForwardScreenshots</code>	<code>carryForwardScreenshots(previousVersionId: string, newVersionId: string)</code>	<code>Promise<{ carried: number; missing: number }></code>	Phase 4: Carry forward screenshots from previous version to new version.

Dependencies

- `PrismaService`
- `DocVersionService`

Where it refuses work

- `VersionCarryForwardService` stops the work with an early return when `!newVersion.previousVersionId` .
- `VersionCarryForwardService` stops the work with an early return when `!oldCategoryId` .
- `VersionCarryForwardService` stops the work with an early return when `!oldCategory` .

- `VersionCarryForwardService` stops the work with an early return when `newCategory` .
- `VersionCarryForwardService` stops the work with an early return when `!previousDoc` .
- `VersionCarryForwardService` stops the work with an early return when `placeholders.length === 0` .

When something fails

- `VersionCarryForwardService` handles failure in 2 places: it logs it and continues in 1, and discards it silently in 1. A failure discarded silently leaves no trace for whoever debugs this later.

Diagram

```
sequenceDiagram
    participant Caller as Version Workflow
    participant Service as VersionCarryForwardService
    participant Docs as Document Version Store
    participant Assets as Screenshot Storage

    Caller->>Service: carryForward()
    Service->>Service: resolveFlag()
    Service->>Docs: Load source and target versions
    Service->>Service: extractPlaceholders()
    Service->>Docs: Copy eligible placeholder content
    Service->>Service: carryForwardScreenshots()
    Service->>Assets: Copy referenced screenshots
    Assets-->>Service: carried / missing counts
    Service-->>Caller: CarryForwardResult
```

Usage

```
import { VersionCarryForwardService } from './carry-forward.service';

// Typically injected by NestJS into a workflow service or controller.
@Injectable()
export class DocumentVersionWorkflowService {
    constructor(
        private readonly carryForwardService: VersionCarryForwardService,
    ) {}

    async createVersion(): Promise<void> {
        const result = await this.carryForwardService.carryForward();

        console.log('Carry-forward complete:', result);
    }
}
```

AI Coding Instructions

- Treat `carryForward()` as the orchestration entry point; keep new carry-forward steps coordinated through it rather than calling internal helpers independently.
- Run `resolveFlag()` before copying content so document-version state is normalized before placeholder and asset processing.
- Preserve the `{ text, routePath, documentId }` shape returned by `extractPlaceholders()` when extending placeholder detection or routing logic.

- Handle missing screenshots as an expected outcome from `carryForwardScreenshots()` ; report them through the result instead of failing the entire carry-forward operation.
- Keep document persistence and screenshot-storage integration concerns separated so carry-forward behavior remains testable.

Relationships

- `DEPENDS_ON` → `PrismaService`
- `DEPENDS_ON` → `DocVersionService`

Referenced By

- `DocVersionController` (`DEPENDS_ON`)
- `DocVersionModule` (`MODULE_PROVIDES`)
- `DocVersionModule` (`MODULE_EXPORTS`)
- `DocAutomationService` (`DEPENDS_ON`)