

ScimAdminService

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Kind: Service**Source:** [atloria-monorepo/apps/api/src/scim/scim-admin.service.ts](https://github.com/atloria-monorepo/apps/api/src/scim/scim-admin.service.ts)

Admin-facing SCIM management: token lifecycle + group-mapping CRUD + a sync dashboard. Guarded upstream (JwtAuthGuard + RolesGuard ADMIN + PlanGuard BUSINESS); this service re-verifies the org matches the caller's JWT org so a param can never reach another tenant.

`ScimAdminService` provides tenant-safe administration for SCIM provisioning within an organization. It manages SCIM bearer-token lifecycle, group-mapping CRUD operations, and synchronization status data while re-validating that the requested organization matches the caller's JWT organization. It is intended to run behind the API's JWT, admin-role, and Business-plan guards.

Methods

Method	Signature	Returns	Description
<code>listTokens</code>	<code>listTokens(orgId: string, user: JwpPayload)</code>	unknown	
<code>createToken</code>	<code>createToken(orgId: string, user: JwpPayload, dto: { label?: string })</code>	unknown	Mint a token — the plaintext is returned ONCE and never persisted.
<code>revokeToken</code>	<code>revokeToken(orgId: string, user: JwpPayload, tokenId: string)</code>	unknown	
<code>listGroupMappings</code>	<code>listGroupMappings(orgId: string, user: JwpPayload)</code>	unknown	
<code>createGroupMapping</code>	<code>createGroupMapping(orgId: string, user: JwpPayload, dto: {</code>	unknown	

Method	Signature	Returns	Description
	groupName: string; role?: UserRole; audienceId?: string })		
updateGroupMapping	`updateGroupMapping(orgId: string, user: JwtPayload, id: string, dto: { role?: UserRole	null; audienceId?: string	null })`
deleteGroupMapping	deleteGroupMapping(orgId: string, user: JwtPayload, id: string)	unknown	
status	status(orgId: string, user: JwtPayload)	unknown	

Dependencies

- PrismaService
- AuditService *(optional)*

Where it refuses work

- ScimAdminService stops the work with NotFoundException when !mapping — “Group mapping not found”, in 2 places.
- ScimAdminService stops the work with NotFoundException when !token — “SCIM token not found”.
- ScimAdminService stops the work with ForbiddenException when !groupName — “groupName is required”.
- ScimAdminService stops the work with ForbiddenException when orgId !== user.organizationId — “Access denied to this organization”.
- ScimAdminService stops the work with NotFoundException when !audience — “Audience not found in this organization”.
- ScimAdminService stops the work with an early return when token.revokedAt .

Diagram

```
sequenceDiagram
    participant Admin as Admin Client
    participant Guard as Auth / Role / Plan Guards
    participant Controller as SCIM Admin Controller
    participant Service as ScimAdminService
    participant DB as Database
```

participant SCIM as SCIM Sync Provider

```
Admin-->>Guard: Request with JWT and org parameter
Guard-->>Guard: Validate JWT, ADMIN role, BUSINESS plan
Guard-->>Controller: Authorized request
Controller-->>Service: Invoke admin operation(orgId, caller)
Service-->>Service: Verify caller JWT org matches orgId
```

alt Token lifecycle

```
Service-->>DB: List, create, or revoke SCIM token
```

```
DB-->>Service: Token result
```

else Group mapping CRUD

```
Service-->>DB: List, create, update, or delete mapping
```

```
DB-->>Service: Mapping result
```

else Sync dashboard

```
Service-->>DB: Read sync configuration and history
```

```
Service-->>SCIM: Read sync/provider status
```

```
SCIM-->>Service: Current sync state
```

end

```
Service-->>Controller: Tenant-scoped result
```

```
Controller-->>Admin: Response
```

Usage

```
import { Injectable, ForbiddenException } from '@nestjs/common';
import { ScimAdminService } from './scim-admin.service';

@Injectable()
export class ScimAdminController {
  constructor(private readonly scimAdminService: ScimAdminService) {}

  async createProvisioningToken(
    organizationId: string,
    currentUser: { organizationId: string; id: string },
  ) {
    // Route guards should already enforce authentication, ADMIN role,
    // and BUSINESS plan access.
    if (currentUser.organizationId !== organizationId) {
      throw new ForbiddenException('Organization access denied');
    }

    return this.scimAdminService.createToken(
      organizationId,
      currentUser,
    );
  }

  async addGroupMapping(
    organizationId: string,
```

```

    currentUser: { organizationId: string; id: string },
  ) {
    return this.scimAdminService.createGroupMapping(
      organizationId,
      currentUser,
      {
        sourceGroupId: 'idp-engineering',
        targetGroupId: 'app-engineering',
      },
    );
  }
}

async getSyncStatus(
  organizationId: string,
  currentUser: { organizationId: string; id: string },
) {
  return this.scimAdminService.status(organizationId, currentUser);
}
}

```

AI Coding Instructions

- Preserve tenant isolation on every method: validate that the requested organization ID matches the organization claim from the authenticated caller.
- Keep authorization in the controller/guard layer (`JwtAuthGuard` , `RolesGuard` with `ADMIN` , and `PlanGuard` with `BUSINESS`), but do not remove the service-level organization verification.
- Treat SCIM tokens as secrets: return plaintext only at creation time if supported, store only safe token representations, and revoke rather than mutate issued tokens.
- Scope all token, mapping, and sync-status database queries by organization ID; never fetch a record by its ID alone without tenant filtering.
- When changing group mappings, ensure downstream SCIM synchronization/dashboard status remains consistent with the mapping configuration.

Relationships

- `DEPENDS_ON` → `PrismaService`
- `DEPENDS_ON` → `AuditService`

Referenced By

- `ScimAdminController` (`DEPENDS_ON`)
- `ScimModule` (`MODULE_PROVIDES`)
- `ScimModule` (`MODULE_EXPORTS`)