

Introducing SCIM (System for Cross-domain Identity Management) to Automate IdP Group Provisioning and User Provisioning

We've introduced automatic user provisioning with SCIM so:

1. Subscription admins can pick identity provider groups straight from a dropdown when setting up SSO, and
2. Your identity provider can create, update, and offboard Pencil users on its own, keeping access in sync with your directory in near real time.

With SSO alone, Pencil only learns about a user's details and group memberships at the moment they sign in. Setting up group mappings meant typing each identity provider group name by hand, and there was no way for your identity provider to tell Pencil when someone changed teams or left mid-session so keeping access accurate meant waiting for a user's next login or cleaning up users by hand.

Automatic User Provisioning syncs your identity provider's groups into Pencil's SSO settings and connects Pencil directly to your identity provider's user lifecycle, applying every create, update, group change, and deprovisioning event as it happens with SSO just-in-time provisioning as a fallback for identity providers that don't support SCIM.

The screenshot shows the 'User provisioning (SCIM)' configuration page in Pencil. It features a toggle switch for enabling SCIM. Below the toggle, there are four input fields: 'OAuth endpoint' with the URL 'https://pro-gateway.trypencil.com/subscription/oauth/token', 'SCIM endpoint' with 'https://pro-gateway.trypencil.com/scim/v2/b174e49-81c-4ed1-94c6-2392dad9c0df', 'Client ID' with 'e59ed524-43d1-44c5-9d1e-6ec7a403f721', and 'Client secret' which is masked with dots. A 'Rotate secret' button is next to the client secret field. A warning banner at the bottom states: 'This secret rotates automatically every 365 days. The current secret will expire on 2 Oct 2027. Update your identity provider with the new secret each time it rotates, or user provisioning will stop.'

Loom video: <https://www.loom.com/share/bda810a5a02d496f88255bbd1a1cc98f>

What's new

- **Pick groups from a dropdown:** When configuring "Set group access" for SSO with SCIM enabled, subscription admins can choose identity provider groups from a dropdown instead of typing each group name by hand, avoiding the risk of typos.
- **Automatic user creation and updates:** New users are created in Pencil automatically, and changes to their name or group membership in your identity

provider flow through without manual edits or needing to wait until their next login for the changes to apply.

- **Group changes applied instantly:** When someone moves between groups in your identity provider, their Pencil access updates to match on their next action, without waiting for them to sign in again.
- **Automatic deprovisioning:** When a user is offboarded in your identity provider, Pencil deactivates them, revokes their access, and immediately ends every active session.
- **SSO fallback:** If your identity provider doesn't support SCIM, Pencil falls back to SSO just-in-time provisioning, creating and updating users and group memberships each time they sign in.

Why it matters

- **Your directory stays the source of truth:** Who has access to Pencil, and at what level, mirrors your identity provider without a second system to maintain.
- **Tighter security on offboarding:** Departing users lose access and active sessions immediately, not at their next login.
- **Less manual admin:** No more typing group names during setup.
- **Works with your setup:** SCIM where your identity provider supports it, SSO just-in-time provisioning where it doesn't.

Who it's for

- Enterprise accounts running many workspaces
- Subscription admin role is required to configure
- Enterprise IT and identity admins

What this unlocks

Automatic User Provisioning via SCIM turns SSO setup and user management from hands-on, error-prone chores into an automatic sync with your identity provider. This lets administrators map groups in a few clicks and onboard, move, and offboard people in one place, the Identity Provider (IdP), while access to Pencil stays accurate and secure in near real time.

Give it a try and let us know what you think! 🚀

A guide for how to set this up can be found [here](#).