# 3.8 Release Notes

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## Overview

Elements 3.8's headline feature is a generic, server-driven OIDC login flow: register any OIDC provider by its discovery URL and get the full authorization-code handshake, including the browser redirect and callback, handled entirely server-side, with no per-provider client code. Twitch ships as a fully worked reference provider. Alongside that, this release hardens username handling and closes a collision bug in user lookup, fixes several element-loading/attribute-hierarchy issues, and switches the project's license to MPL 2.0.

## Highlights

- **Generic OIDC browser-redirect login** — one integration path for any OIDC provider an admin registers; see OIDC Login for Thick Clients and Setting Up Twitch OIDC Login.
- **OIDC provider-configuration admin UI** — providers are now a server-side config change, not a client rebuild.
- **Username validation and lookup hardening** — tighter username rules and a fixed lookup collision (see below).
- **Deployment editor attribute editing** — set and adjust Element attributes directly from the deployment editor.
- **License change** — Elements is now licensed under MPL 2.0.

## New Features

### Generic OIDC Browser-Redirect Login

A full walkthrough lives in OIDC Login for Thick Clients and Setting Up Twitch OIDC Login; the summary:

- New `OidcProviderConfiguration` resource and admin console UI (**Auth > OIDC Providers**) for registering providers by discovery URL, replacing the previous hand-seeded default schemes for Google, Apple, and Twitch.
- New endpoints driving the full authorization-code flow server-side: `POST /oidc/session` to begin an attempt, a provider-facing callback, and `GET /oidc/session/{id}` for the client to poll for completion.
- Per-provider `successRedirectUrl` / `errorRedirectUrl` are now configured on the provider, not supplied by the client on each request.
- OIDC profile claims ( `preferred_username` , `given_name` , `family_name` ) now backfill `User.displayName` / `firstName` / `lastName` on a new user's first login, fail-soft — a malformed or missing claim doesn't fail the login. Every provider's full claim set is also snapshotted into `user.linkedAccountProfiles` , see Users and Profiles.
- Fixed a duplicate-key error that could occur on a user's very first OIDC login.
- **Renames:** `OidcProviderConfiguration.provider` → `name`, `User.preferredUsername` → `displayName` , and the OIDC login attempt's `handle` field → `id`.

### Deployment Editor Attribute Editing

The deployment editor can now set and adjust an Element's attributes directly, backed by a new `@ElementRequiredAttribute` annotation Elements use to declare which attributes they expect.

## Bug Fixes

### Username Validation and Lookup Collision

Usernames are now validated against a dedicated pattern — no whitespace, no control characters, no Unicode formatting characters, 50 characters max — instead of a generic "no whitespace" check. Separately, user lookup by name/email no longer falls back to treating the input as a raw database id except as a last resort at read time, closing a collision where a username that happened to look like a valid id could resolve to the wrong account.

### Element Load Ordering and Attribute Hierarchy

- Fixed `FilteredServiceLocator` throwing when directory- and Maven-sourced Elements are mixed in the same deployment.
- Fixed `GuiceSpiModule` throwing on duplicate service bindings.
- Fixed Element load ordering ignoring `@ElementDependency`, which could break deployments that mix `.elm`-packaged and Maven-sourced Elements.
- Fixed the attribute merge hierarchy so operator-set attributes take correct precedence.

### Progress API Permission Fix

Fixed the progress-update API improperly allowing client-level callers to create or update progress directly; this is now restricted to superusers, with client callers receiving a `501`. Superuser update capability, which had been accidentally removed by an earlier fix, was restored alongside a regression test.

### Admin Console Fixes

- Fixed Element grouping and a Jakarta RS override issue in the installed-elements view.
- Forms that create or edit auth schemes now indicate when a user level is required, and a stuck "missing attributes" badge in the deployment editor now clears correctly once the missing attributes are added.

## Other Changes

- **License change**: Elements is now licensed under the Mozilla Public License 2.0.