

Collaborative Tools Meeting

September 23, 2026

InvenioRDM

InvenioRDM V14 Upgrade

- ✦ **InvenioRDM application upgraded to v14** on a development server and the new environment is operational.
- ✦ Underlying services (DB, Search, Cache & Queue) migrated to the v14 environment and are running in containers.
- ✦ Repository data has been preserved in the v14 upgrade.
- ✦ Containerized services provide a more consistent setup and simplify future installation & upgrades.
- ✦ Containerization of the application, worker and front end are being worked on.
- ✦ Project-specific customizations are being progressively migrated and tested with v14.

InvenioRDM v14: New & Integrated Features

Anticipated Features

Collaboration & Conversation

Community membership requests, per-version reviews, expanded commenting capabilities including replies, quoting, attachments, LaTeX, direct links, and conversation locking, record deletion.

File Preview & Access

New ZIP, GeoJSON, and web-archive previewers.

Metadata & Integrations

DataCite metadata updates, Crossref DOI support, and OAuth improvements.

Enhanced Administration

UI-based user and role management, reducing reliance on command-line administration, along with improved job notifications.

Modernized Technology Stack

Python 3.14, uv, pnpm, and Rspack provide a more modern development and build environment.

Previously Custom / Now Available in Core

Published-record conversations, comment collapse/expand, and fixes for LaTeX and admin user display.

v14 Customizations & Upstream Contributions

- ✦ Existing custom features are being **modified for compatibility with InvenioRDM v14**.
- ✦ Enhance document search capabilities - **extract text from repository files** and generate structured output to be used by LLMs.
- ✦ **OSTI/DOI integration** is being updated for the v14 code base.
- ✦ **CILogon authentication support** is also being adapted for v14.
- ✦ OSTI/DOI and CILogon changes will be structured as **general-purpose enhancements suitable for the core software**. Has approval for contribution from RDM.
- ✦ Core adoption would **reduce local customization and future upgrade/maintenance effort**.

Next Steps (6 months)

- ✦ **Complete migration and testing of custom features** with InvenioRDM v14
- ✦ **Complete the application containerization** and finalize the deployment approach
- ✦ **Complete OSTI/DOI and CILogon updates** and prepare upstream submissions
- ✦ Continue development of **text extraction and harvesting**, including automation
- ✦ Obtain user feedback and address the **features and changes** identified through production use.
- ✦ Continue reducing **instance-specific code** through configuration and reusable/core functionality & upgrade other servers.

Questions?