

Read-Only User Role RCAT-839

A new read-only user role has been introduced for the Technology Catalog. Users assigned this role can browse all catalog content - software products, versions, publishers, hardware, fingerprints, and vulnerabilities - without the ability to create, edit, or delete any records. This enables broader, safer access for teams that need catalog visibility without edit permissions.

Note: users with this role assigned are allowed to send fingerprints for recognition (including uploading them) via dedicated endpoints.

Activity Log: Historical Object State Snapshots RCAT-840

The activity logging API now returns historical object state snapshots for catalog entities. Each activity log entry includes the full JSON representation of the object's state immediately before and after each change, allowing administrators to programmatically retrieve a complete picture of how a record looked at any point in its history.

Kubernetes Deployment via Helm Charts RCAT-900

Official **Helm Charts** for Technology Catalog have been created. Customers running Kubernetes-based deployments can now use Helm to deploy and manage the Technology Catalog in a standardized, repeatable way.

CPE String Endpoint RCAT-841

A new REST API endpoint has been added that returns CPE (Common Platform Enumeration) strings. This provides integrations and downstream systems direct access to structured CPE data without requiring a full recognition call.

Improved Search for Publishers and Software Products RCAT-761 RCAT-895

We have significantly enhanced the search experience across Publishers and Software Products by extending our OpenSearch integration. This update delivers more accurate results, improved relevance ranking, and enhanced responses - particularly for partial-name queries and searches that span multiple data fields simultaneously. Indexes have been extended to include newly added model properties, ensuring all searchable fields introduced in this release are correctly indexed and retrievable.

Security Improvements

- User accounts are now automatically locked after 5 consecutive unsuccessful login attempts. This protects against brute-force attacks and aligns with enterprise security hardening requirements. RCAT-672

- API key values stored in System Settings are now masked in both the UI and the REST API. Previously, keys were displayed in plain text, creating a security exposure risk. Keys are now obfuscated by default; administrators can reveal them explicitly when needed. [RCAT-902](#)

Other Improvements

- The system now prevents removal of permissions from the last remaining `SiteAdmin` account. This safeguard avoids accidental lockout scenarios where no administrator can access the system. [RCAT-675](#)
- The software version inheritance module has been redesigned to include an explicit inheritance flag. [RCAT-760](#)
- Users can now edit the ignore reason on a fingerprint without having to restore it first. [RCAT-736](#)
- Software search now includes alternative product names in its scope, allowing users to find a product by any of its registered alternative names. [RCAT-741](#)
- The OpenSearch index update process can now be scheduled via a configurable cron job expression in system settings. This gives administrators control over when index synchronization occurs, allowing them to avoid peak usage windows or align updates with data import schedules. [RCAT-899](#)
- AI Capability values in the Synchronization Conflicts view are now displayed in a human-readable format instead of raw Enum values, making conflict resolution clearer for catalog editors. [RCAT-834](#)
- Optimized the Vulnerability Recache process for better performance on large catalogs; improved log output now provides more actionable detail when recache operations encounter edge cases. [RCAT-804](#)
- `NotificationService` updated to support batch operations for entity update messages, reducing message overhead and improving system performance during bulk catalog operations. [RCAT-843](#)
- `FallbackMd5Hash` checksum calculation now includes Edition property and normalizes casing before hashing, producing more accurate and consistent fingerprint matching. [RCAT-795](#)
- User interface libraries were upgraded from Angular 18 to Angular 20, bringing improved performance, better compatibility with modern browser APIs, and a foundation for future UI enhancements. [RCAT-625](#)
- General improvements and stability fixes. [RCAT-722](#) [RCAT-728](#) [RCAT-729](#) [RCAT-731](#) [RCAT-732](#) [RCAT-735](#) [RCAT-740](#)

[RCAT-750](#) [RCAT-768](#) [RCAT-799](#) [RCAT-800](#) [RCAT-803](#) [RCAT-832](#) [RCAT-838](#) [RCAT-850](#) [RCAT-852](#) [RCAT-866](#) [RCAT-888](#) [RCAT-903](#) [RCAT-906](#)

[RCAT-908](#) [RCAT-904](#)

Bug Fixes

- Fixed an issue, where fingerprint assigning fingerprints did not work. [RCAT-905](#)
- Fixed issues with suggestions data grid and import errors in the Hardware Add view. [RCAT-910](#)
- Fingerprints table was not refreshed after Review or Unassign actions. [RCAT-731](#)
- During Assign/Reassign, the Version value was not sent when the Parent Version had been deleted. [RCAT-747](#)
- Assign Fingerprints did not work for both Software and Hardware. [RCAT-769](#)
- Restored and re-assigned fingerprints were incorrectly shown as ignored during recognition. [RCAT-796](#)
- Reassigned fingerprints retained the previous Publisher/Product Name in the Product and Model tabs. [RCAT-872](#)
- Fingerprint version in the recognition response was modified during CPE custom normalization. [RCAT-901](#)
- Parent Product nested objects were not expanded in fingerprint recognition responses. [RCAT-874](#)
- Vulnerability recache hung when processing fingerprints containing special characters. [RCAT-844](#)
- Vulnerability details endpoint returned incomplete CWE information. [RCAT-848](#)
- Vulnerable products were not displayed on the Vulnerability Details page. [RCAT-875](#)
- Performance issues in the Vulnerabilities tab for large datasets. [RCAT-882](#)
- SaaS recognition vulnerability response returned incorrect data. [RCAT-887](#)
- Multiple issues in ECCN code table, add, and edit dialogs. [RCAT-858](#) [RCAT-859](#) [RCAT-860](#) [RCAT-864](#) [RCAT-890](#)
- Issues with ECCN synchronization between Catalog instances. [RCAT-856](#)
- Synchronization failed when re-syncing previously deleted Product Numbers from a Parent Instance. [RCAT-909](#)
- Missing properties in select options; Parent Product could not be added to a Software Product. [RCAT-892](#)
- Publisher and License information was not displayed on the Software page. [RCAT-893](#)
- License inheritance from a parent product did not work correctly. [RCAT-833](#)
- Hardware Details page was displayed incorrectly and non-functional. [RCAT-822](#)
- Fixed loading issues with the Merge Software Products dialog. [RCAT-823](#)
- An unnecessary empty field was visible in the Merge Version window. [RCAT-829](#)
- Latest version badge was displayed for two versions with different release dates. [RCAT-740](#)
- Export worker returned an error when sorting by Tags, Creation Date, or Modification Date. [RCAT-750](#)

- The `select` parameter in the search endpoint did not filter response properties correctly. `RCAT-837`
- Multiple filtering UI issues across Catalog list pages. `RCAT-883`
- Tag filtering did not work correctly. `RCAT-764`
- Tag filter displayed an empty checkbox option. `RCAT-698`
- Publisher search did not return an existing value unless a trailing space was added. `RCAT-748`
- Support status icon did not update when dates were edited directly in the data grid. `RCAT-724`
- Fixed incorrect or missing validation error messages across multiple forms. `RCAT-349` `RCAT-622`
- Whitespace in the Product Family field did not trigger the correct validation error. `RCAT-832`
- Review button was not visible for users with the standard User role in the fingerprints data grid. `RCAT-729`
- Wrong description shown in the parent version info box in the Edit Version view. `RCAT-723`
- Incorrect model shown in the Hardware models dropdown after reassign. `RCAT-732`
- Export button was not appearing in the Hardware Fingerprint view. `RCAT-735`
- Multiple issues on the Fingerprints page. `RCAT-819`
- Tags column appeared empty in fingerprint data grids. `RCAT-906`
- Table layout broke when filters were opened on multiple Catalog list pages. `RCAT-853`
- The `http://` prefix was not automatically added when editing a product's Homepage URL field. `RCAT-866`
- Multiple issues in the Edit User dialog. `RCAT-670`