

## TopBraid Suite 7.2.0

### Overview:

- All
- TopBraid EDG
- TopBraid EDG Studio and Files Mode
- SHACL, Active Data Shapes and GraphQL
- SPIN, SPARQL functions, SPARQLMotion and SWP

### All

- Improvement: TBS-4519: Upgrade jsoup to 1.14.3 to address CVE-2021-37714
- Improvement: TBS-3115: Use a unified, localized date and dateTime display format among React components.
- Change: TBS-4402: Upgraded to Jena 4.3.2 and RDF Delta to 1.1.0.
- Change: TBS-4465: Upgraded to Apache Tika 1.28.
- Change: TBS-4467: Convert JSON output of several services from json-simple to GSON 2.8.9
- Bug fix: TBS-4586: Fixes an issue with checking the installed license.

### TopBraid EDG

- Feature: TBS-3940: New TopBraid API with tbs: prefix, exposed through /tbl/service endpoint and through ADS APIs. See tbs object in ADS and Web Services Swagger UI.
- Feature: TBS-4447: New dropdown for asset collection navigation. The primary menu lists all available Asset Collections, the secondary menu lists the first 20 available collections. Replaces the left primary navigation menu.
- Feature: TBS-4468: Defined a user menu drop down, accessible through the user avatar in the page header. Items include, link to the Users Page, My Workflows, Find Tasks (not available for anonymous), User Directory (not available for anonymous), Workflow Templates, Server Administration (admin and power users only) and Help.

- Feature: TBS-4451: A new globally available search component that allows the user to choose which area to search (Search the EDG, Quick Lookup, Find Code).
- Feature: TBS-4002: Search the EDG results are now displayed using the items' DASH Property Roles, which can be configured by the user.
- Feature: TBS-4511: New Matrix panel for displaying and editing relationships between two sets of assets (rows vs columns).
- Feature: TBS-4640: Export to RDF file now has an option to export to JSON-LD 1.1 (which, among other changes, does NOT lower-case language tags).
- Feature: TBS-4673: Export to RDF file now has an option to keep EDG-specific triples about the asset collection type.
- Improvement: TBS-2458: Users can define custom properties to be used for matching instances in crosswalks
- Improvement: TBS-4417: Updates dompurify to v2.3.4 to address CVE-2020-26870
- Improvement: TBS-4418: Updates axios to v0.24.0 to address CVE-2020-28168 and CVE-2021-3749
- Improvement: TBS-4433: Updates react-window to v1.8.6.
- Improvement: TBS-4434: Updates react-virtualized-auto-sizer to v1.0.6.
- Improvement: TBS-4432: Updates patternfly to v4.164.2 and patternfly/react-core to v4.181.1.
- Improvement: TBS-4436: Updates react-table to v7.7.0.
- Improvement: TBS-4427: Spreadsheet-based exporters for taxonomies now download .tsv files instead of showing file contents in the browser
- Improvement: TBS-4437: Updates react-select to v5.2.1.
- Improvement: TBS-4435: Updates victory to v36.2.0
- Improvement: TBS-4507: Make inferred permission (via governance role) on a workflow editable.
- Improvement: TBS-4406: Fixed slowness of auto-complete index when deleting many instances.
- Improvement: TBS-4504: Better error handling of ADS-based modify actions.
- Improvement: TBS-4526: Properties lists and Property Groups panel were sometimes slow due to inefficient property label computation.
- Improvement: TBS-4580: EDG Diagram: ability to remove bends has been added.
- Improvement: TBS-4396: EDG Diagram now supports filtering of datatype properties.
- Improvement: TBS-4593: Create new Asset Collection Dialog follows the same ordering as the Asset Collection Navigator.
- Improvement: TBS-2891: Forms now download at most 1000 values per property, improving responsiveness.

- Improvement: TBS-4645: Archiving working copies was very very slow for large working copies.
- Improvement: TBS-4372: EDG Diagram adds ability to change edge routing style and diagram orientation.
- Change: The SPIN templates from the file teamworkTemplates.spin.ttl ("Teamwork SPIN Templates") have been deleted. If you still need them, add your own copy from a previous version.
- Change: The web services to export to RDF changed from `!/exportRDF/{format}` to `tbs/exportRDFFile?format={format}`.
- Change: TBS-4423: Updates LineageGram libraries.
- Change: TBS-4440: Semantic XML loader no longer handles .xsd and .html files.
- Change: TBS-4468: Relocated the basket menu item from the primary nav to the header next to the user avatar. Global basket now opens from the right side of the page.
- Change: TBS-4450: Update label of 'New Asset Collection' button from '+' to '+ New', moved button to the right side of the header.
- Change: TBS-4523: Manage tab now has a search bar
- Change: TBS-3870: Moves the LineageGram UI and associated UI actions to a plugin.
- Change: TBS-4626: Removed Search the EDG landing page widget, the search bar in the page header replaces this feature.
- Change: TBS-4596: Metrics Dashboards link has been moved to Reports tab of the Governance Model.
- Deleted: TBS-4423: Deleted teamworkflows JavaScript namespace and assets. Deleted deprecated SWP components, `teamwork:DefaultWorkflowDiagram`, `teamwork:DefaultTagWorkflowDiagram` and `teamwork:WorkflowDiagramDialog`. Deleted `teamwork:diagramViewClass` statements from `teamwork:NoReviewWorkflowTemplate`, `teamwork:VersionIncrementWorkflowTemplate`.
- Deleted: TBS-4460: The old Available Web Services page has been removed. The services remain in place though. Users should migrate to the new API once that is stable.
- Bug fix: SHACL validation profile dialog did not allow sorting by qname.
- Bug fix: TSM-2854: Create resource dialogs would sometimes show `rdf:type` twice if it had a `sh:minCount` constraint.
- Bug fix: TBS-4425: Query parsing errors in SHACL-SPARQL queries are now handled gracefully and reported as part of the Problems and Suggestions report.
- Bug fix: TBS-4426: Editor for `spin:body` did not handle UPDATE requests correctly.
- Bug fix: TBS-4453: Cloning a content tag set with AutoClassifier training model did not set the new tag set to use the original's training model.
- Bug fix: "no suitable editor" and SPIN Expressions editor were incorrectly showing up in some editor selection drop downs.
- Bug fix: TBS-4444: The class selection dialog of the SubClassEditor now pre-selects the selected class, if applicable.

- Bug fix: TBS-4492: Properties overview table incorrectly displayed case of multiple sh:class constraints meaning "or", now "and".
- Bug fix: TBS-4516: Drag and drop in Class Hierarchy (in 'move' mode) did not preserve anonymous parent classes such as owl:Restrictions.
- Bug fix: TBS-4520: Fixes an issue with EDG Diagram Drag and Drop from search panel for Firefox. Fixes an EDG Diagram rendering issue for Safari.
- Bug fix: TBS-4490: Validation report produced an unnecessary rdf:type violation at teamwork:Vocabulary for Ontologies, Taxonomies, Data graphs and Datasets.
- Bug fix: TBS-4518: Logout from basic auth would not release a license seat. Fixed.
- Bug fix: TBS-4514: A SAML user who was authenticated by the IDP, but unauthorized by the webapp container was able to browse some parts of the application.
- Bug fix: TBS-4099: Empty response from SPARQL endpoint for ASK queries when requesting CSV or TSV
- Bug fix: TBS-4533: Fixes user permission check for SPARQL Query Panel, Source Code Editor Panel and Script Panel when a user has memberships across multiple subject areas with different permissions.
- Bug fix: TBS-4509: Fixed issue rendering certain columns in the search results table.
- Bug fix: TBS-4537: EDG Diagram: resolves an issue where the NodeTypes were improperly handling labels with language tags.
- Bug fix: TBS-4614: GraphQL queries sometimes hung when requesting labels of reification URIs.
- Bug fix: TBS-1052: Search the EDG UI now handles long search terms correctly
- Bug fix: TBS-4627: The scripts of SWP elements with a dash:js now receive null variables for missing parameters instead of unknown variables.
- Bug fix: TBS-3891: Excel file importer did not correctly handle some cells (e.g. date/times) when the first row is empty.
- Bug fix: TBS-3891: Spreadsheet importer now has an option to select the file encoding, e.g. UTF-8, to correctly load CSV or TSV files.
- Bug fix: TBS-4592: Property Groups Panel was not able to drag and drop to the EDG Diagram.
- Bug Fix: TBS-4639: Fixes issue with embedded JavaScript in HTML data.
- Bug fix: TBS-4494: Transform > Execute (inference) rules, and RDF file export including inferences now also apply sh:defaultValue rules unless they are marked with dash:neverMaterialize true.
- Bug fix: TBS-4642: Power users can now update EDG Configuration parameter settings.
- Bug fix: TBS-4287: Fixes an issue where System graphs were being included in the 'Create new version' process.
- Bug fix: TBS-4630: Fixes an issue where My Tasks widget was not properly rendering task comments that contained HTML.

- Bug fix: TBS-4654: Icons used in tool tips (and some other places) did not use the ontology-specific icons, e.g. for `edg:DataAssets`.
- Bug fix: TBS-4658: Fix an issue where a server restart after configuration changes did not happen automatically.
- Bug fix: TBS-4689: Fix Turtle Plus reification serialization.
- Bug fix: TBS-4701: Search the EDG was not rendering custom icon correctly.
- Bug fix: TBS-4703: Workflows home page widget was always rendering 0.

#### TopBraid EDG Studio and Files Mode

- Improvement: TBS-4405: Updates embedded Tomcat to v9.0.56 to address CVE-2021-42340

#### SHACL, Active Data Shapes (ADS) and GraphQL

- Feature: TBS-4356: All ADS APIs will now include any `sh:Functions`, `dash:MultiFunctions`, `dash:IncludedScripts` defined in `.api.*` files.

And they will include functions for any `ui:Service` from `.ui.ttl*` files that have a `dash:apiStatus`. (For consistency, `ui:scriptFunctionReadOnly` was replaced with a combination of `dash:canWrite` and `dash:apiStatus`).

- Feature: TBS-4429: ADS now better handles result objects that are JavaScript Sets or Maps, converting them to arrays and objects, respectively.
- Feature: TBS-4632: Spreadsheet import functions from uploaded files now accept an optional file encoding parameter.
- Change: TBS-4483: `graph.withDataGraph` no longer allows changes to graphs, use the new function `graph.transaction` instead.
- Change: TBS-2891: GraphQL's internal `_encodedValues` field now returns at most 1000 values per property unless `returnAll=true`.
- Bug fix: `ui:currentQueryGraph()` did not work correctly within `graph.withDataGraph()` blocks of ADS scripts and from the `/tbl/sparql` servlet.
- Bug fix: SHACL Statistics/Profiling did not record SPARQL-based constraints.

#### SPIN, SPARQL functions, SPARQLMotion and SWP

- Feature: ui:throw now also supports ui:statusCode, for the HTTP response.
- Improvement: SWP services with ui:responseType ui:Turtle now report errors in plain text instead of HTML.
- Deleted: TBS-4556: Removed SPARQLMotion modules sml:ConvertSpreadsheetToRDF and sml:ImportExcelCellInstances from EDG. These did not work in 7.0 and 7.1.