

TopBraid  
Suite  
6.3.0

Overview:

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- SPARQLMotion
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All

- Feature: Added JDBC drivers; hive, jtds, postgresql [TBS-2046]
- Feature: Added ability to include new JDBC drivers at runtime. [PLAT-1013]
- Changed: Upgrade to Apache Jena 3.13.1 [TBS-2281, TBS-2360]
- Changed: Upgrade to RDF Delta 0.8.2 [TBS-2448]
- Changed: Upgrade to Jackson 2.10.1 [TBS-2424]
- Changed: Update existing JDBC driver versions. [PLAT-1516]
- Changed: Update existing UI build utility versions for yarn and frontend-maven-plugin. [TBS-2000]
- Bug fix: Reading from an Excel file no longer attempts a write access on the file. [PLAT-1525]
- Bug fix: Importing from a spreadsheet now trims extra spaces from cell contents. [TBS-2015]

TopBraid EDG

- Feature: New importer extracts taxonomy candidate concepts from text documents. [TBS-2437]
- Feature: Taxonomy Tree items can now be sorted by other criteria than labels, see teamwork:taxonomyTreeOrderByExpr. [TBS-1994]
- Feature: Provide ability to batch clone managed graphs, users must provide a version but have the option to clone the managed imports and define a subject area. [TBS-1419]
- Feature: Export to TriG now also redirects owl:imports based on teamwork:externalGraphURI. [TBS-2167]
- Feature: Provide Feature to add and delete values for multiple resources (batch edit / bulk edit). [TBS-1354]
- Feature: General create new asset collection feature. [TBS-2230]
- Feature: Export tab now has option for sorted Turtle writer (git-friendly). [TBS-2198]
- Feature: There is now an admin page to specify default prefixes for all newly created asset collections.
- Feature: .editor servlet now accepts ?uri=XY which then redirects to .editor#XY [TSM-1065]
- Feature: Spreadsheet importer now allows selecting system properties such as rdfs:seeAlso as target columns if they are explicitly declared using SHACL. [TSM-1094]
- Feature: Trig export is now also available for working copies. [TBS-2167]
- Feature: RDF file imports now transforms skos:topConceptOf to skos:hasTopConcept.
- Changed: Data Sample table is now displayed in form instead of dialog. [TBS-1960]
- Changed: metadata.ttl no longer owl:imports EDG core vocabulary.
- Changed: NeighborGrams now render classes with the same algorithm as other resources. Use Class Diagrams instead. [TBS-1857]

- Changed: TopBraid GraphiQL now defines a unique local storage key for each asset collection rather than using a shared key. [TBS-2223]
- Changed: "Export" is now a file download. [TBS-2199, TBS-2253]
- Changed: Apollo Client has been replaced with Urql to improve error handling [TBS-2176]
- Changed: Remove find asset collection feature. [TBS-2037]
- Changed: Use the template name in the template file name so it's easier to find. [TBS-2057]
- Changed: Users of teamwork:EditRules should verify that
  - Rules that make additional changes to the data are marked with teamwork:ruleMayUpdate=true
  - Rules that make no additional changes but only side effects (e.g. sending emails) are not marked as ruleMayUpdate
  - The two groups of rules above are disjoint, i.e. don't mix updates and side effects into the same ruleThis separation and stricter contract is needed because these rules are executed in different contexts, e.g.
  - when the user selects Preview no side effects should happen. [TBS-2490]
- Bug fix: RDF file import now moves sh:prefixes and sh:declare triples into target ontology. [TBS-2097]
- Bug fix: Auto-complete above classes tree did filter out viewpoint classes.
- Bug fix: SPARQL servlet sometimes returned an incorrect response header for CONSTRUCT queries instead of RDF/XML.
- Bug fix: OWL 2 SHACL converter crashed on some Java versions. [TBS-2180]
- Bug fix: Trigger indexing after import. [TBS-2185]
- Bug fix: Lucene text index (e.g. used by GraphQL searches) did not include triples from certain owl:imported files. [TBS-2276]
- Bug fix: Workflows with minimum vote count were sometimes allowed to progress prematurely. [TBS-2302]

- Bug fix: Improved security for Explorer when users have multiple roles. [TBS-2068]
- Bug fix: Import Spreadsheet using Pattern is creating new Concept Schemes [TBS-2330]
- Bug fix: "Any Value" filter is not longer removed when a property is determined to be an external type. [TBS-2371]
- Bug fix: EDG configuration page would fail to load if incorrect RDBMS connection information was provided. [TBS-2059]
- Bug fix: Search the EDG was not properly joining content tag sets to display enriched facets. [TBS-2134]
- Bug fix: Wrong error message for an invalid turtle file import into a workflow. [TBS-2425]
- Bug fix: Search the EDG displayed URI's for facet categories but should have resolved a display label from a Property Shape. [TBS-2471]

#### TopBraid Live, EDG

- Feature: Include a rights management group with permission for creating collections. [TBS-2012]
- Feature: Allow SAML Browser SSO for authentication. [TBS-2005]
- Improvement: Improve performance when checking the product license. [TBS-2300]
- Improvement: Cache TBUser objects to avoid repeated LDAP searches. [TBS-2240]
- Bug fix: Close any outstanding TDB iterators at the end of a request. [TBS-2182]
- Bug fix: Don't try to use an LDAP configuration if the password has not been set. [TBS-2241]
- Bug fix: Improve accuracy for counting concurrent anonymous users. [TBS-2195]
- Bug fix: Error when sending log to TQ support if using Java 11. [PLAT-1533]

- Bug fix: Timed out sessions would not always release a concurrent user license for Explorer. [TBS-2486]

- Improvement: URI Construction Rules

URI Construction rules have been renamed

- teamwork:newInstancesConstructMethod -> teamwork:uriConstructMethod
- teamwork:newInstancesClassPrefix -> teamwork:uriClassPrefix
- teamwork:newInstancesUserCannotModiyURI -> teamwork:userCannotModifyURI

Server default rules have been renamed as well

- cfg:edgnewInstancesConstructMethod -> cfg:edgURIConstructMethod
- cfg:edgNewInstancesClassPrefix -> cfg:edgURIClassPrefix
- cfg:edgNewInstancesUserCannotModifyURI -> cfg:edgUserCannotModifyURI

Two new properties have been added

- teamwork:uriPrefixSeparator - If class prefix is set to 'name' or 'acronym' - this field determines what characters will be used to separate the prefix and the rest of the local name of the URI. Previously it would default to '-'
- teamwork:uriCounterOffset - The counter mechanism is now controlled by a counter offset. This value will be used to generate the next URI when the 'counter' is set. This is stored per-graph or per-class, if a class prefix is set.

The location of the rules has changed

- Previously, these rules were stored in the main graph
- They have been moved to the teamwork graph
- We have provided an automated service to rename and move the rules to their new location

Migration from Previous Versions

- The Server Default Parameters will be reset on the migration to 6.3. After the migration has been completed, you will want to go into Server Admin -> EDG Configuration Parameters to re-set these up.

- As part of this, you will notice a link 'Migrate URI Rules from Previous Versions'

- After re-setting the server default parameters, you will want to make sure you click on this link.

- This will run a service that loops through each graph in the workspace, removing the rules under the old names from the main graph, and putting them into the team graph under the new rule names.

- Depending on the size of your workspace, this may take a while to execute. The good news is, it will only have to be run once.

- After his service has been executed, your rules should be moved and will once again be picked up properly in 6.3.

## TopBraid Composer

- Changed: SPARQLMotion module palette no longer truncates module descriptions in tooltips. [TBC-590]
- Changed: Embedded JRE updated to OpenJDK 8u222. [TBC-591]
- Bug fix: Removed option to include/exclude the RDF/OWL system triples from inferences - they are always in now because SHACL needs them. [TBC-585]
- Bug fix: Remove limit on maximum number of threads for Jetty. [TBC-589]
- Bug fix: Logout from TBL after deploying to TBL. [TBC-586]

## SHACL and GraphQL

- Feature: All asset collections (including ontologies) can now be queried using system GraphQL schemas such as meta-shapes.
- Feature: GraphQL mutations can now produce a "diff" field to refresh UI after changes.
- Feature: GraphQL mutations now support clone and replace operations.
- Feature: GraphQL mutation's commit field now has a 'strict' flag to reject commits if there were errors.
- Feature: GraphQL delete operations now support dash:composite.
- Feature: Property shapes for rdfs:label and rdf:type are now by default mapped to GraphQL fields rdfs\_label and rdf\_type, avoiding clashes with the built-in fields label and type.
- Feature: Added generic mutations addValues and deletedValues to support schema-less interactive editors.
- Feature: Added dash:singleLine constraint component, also useful to select between text fields and text areas in forms.
- Feature: Added support for dash:readOnly, dash:viewer and dash:editor.
- Feature: GraphQL mutations can now execute SPARQL UPDATES.

- Feature: GraphQL mutations (generic schema) may now include user-defined fields backed by an SWP script, see `ui:mutationFieldName`.
- Feature: Added suggestions to fix `sh:uniqueLang` violations by deleting selected values.
- Feature: DASH test cases with `'sh:deactivated true'` will be skipped during test evaluation. [PLAT-1524]
- Changed: `uri` field in mutation input is now also ID, not String (for consistency).
- Changed: GraphQL label fields now produce `prefix:localName` if no `rdfs:label` exists. Was: just `localName`.
- Bug fix: Algorithm that maps class names to GraphQL names is now more tolerant against less common characters. [TSM-962]
- Bug fix: Improved error tolerance of values for `sh:or` union properties where none of the types matches. [TSM-959]
- Bug fix: SHACL validation service now also works for non-admin users.
- Bug fix: Spreadsheet importer sometimes did not recognize well-formed `xsd:dateTime` literals. [TBS-2243]
- Bug fix: Changed various error responses for GraphQL service from HTML to JSON. [TBS-2255]
- Bug fix: GraphQL servlet did not handle complex objects or arrays as input variables.

#### SPIN and SPARQL functions

- Feature: `ui:currentQueryGraph` now also works when called from GraphQL.
- Changed: `smf:file` now returns the full system path of a graph's file.

#### SPARQLMotion

- Feature: Added SPARQLMotion modules `sml:GetRequest`, `sml:PutRequest`, `sml:PostRequest`. [PLAT-1517]
- Feature: Added properties `sml:securePasswordURL`, `sml:securePasswordHeader`, `sml:acceptStatusCodes` and `sml:statusCodeVariable` to `sml:PostRequest` and `sml:ImportJSONFromGraphQLService`. [PLAT-1517]
- Feature: `sml:ImportJSONFromGraphQLService` now allows setting of custom HTTP headers via `arg:httpHeader_xxx` properties. [PLAT-1517]
- Feature: `sml:ValidateGraph` now has an option `sml:selectQuery` to select one or more focus nodes. [TBS-2172]
- Changed: Changed default encoding for `sml:PostRequest` and `sml:ImportJSONFromGraphQLService` payloads from ISO-8859-1 to UTF-8. [PLAT-1517]
- Changed: `sml:PostRequest` and `sml:ImportJSONFromGraphQLService` will now report an error on non-200 status codes; set `sml:acceptStatusCodes` to change this. [PLAT-1517]
- Changed: Various small behavior changes in `sml:PostRequest` and `sml:ImportJSONFromGraphQLService`. [PLAT-1517]
- Bug fix: `sml:ImportXHTML` now also handles `file:` URLs.

#### SPARQL Web Pages

- Feature: SWP services can now query the body of an HTTP POST/PUT request if they declare a variable named `"httpBody"`. [TBS-2156]
- Feature: Stack traces in logs and error pages now show SWP pseudo-stack traces with more detail and precision. [PLAT-1519]
- Feature: `ui:try/ui:catch` bind additional variables `?message` and `?swpTrace`. [PLAT-1519]
- Feature: Added `ui:trace` argument to `ui:log`. [PLAT-1522]
- Feature: `ui:call` can now also execute `dash:SPARQLConstructTemplates` and `dash:SPARQLSelectTemplates`.

- Bug fix: Fixed garbled SWP pseudo-stack trace for ui:dynamicView. [PLAT-1519]
- Bug fix: ui:currentQueryGraph() inside a ui:Function returns nothing if query graph is not a base graph. [PLAT-1523]
- Bug fix: ui:try/ui:catch should not intercept ui:return. [PLAT-1521]
- Bug fix: Several functions and control elements were not working correctly if used in the prototype of a ui:Script or ui:Style. [PLAT-1526]
- Bug fix: ui:dynamicView behaved differently from straight-up element calls in various ways. [PLAT-1520]