TopBraid Suite 7.1.0

Overview:

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

ΑII

- Change: TBS-3717: Upgrade to Jena 4.2.0
- Change: TBS-4107: Upgrade to rdf-delta 1.0.1
- Bug fix: TBS-3750: Fix sending log to TopQuadrant function.
- Bug fix: TBS-3803: Fix problems in Oracle JDBC import.
- Bug fix: PLAT-849: Improve prefix and multi-line string literal handling in exported Sorted Turtle and Turtle+ files

TopBraid EDG

- Feature: TBS-3962: Added dash:JSONTableViewer as a generic component to render tables on forms, in particular computed through sh:values rules that use ADS scripts and SPARQL queries.
 - rules that use ADS scripts and SPANQL queries.
- Feature: TBS-3546: Added SHACL-SPARQL editor on forms for sh:ask, sh:construct and sh:select.
- Feature: TBS-3957: Several tabular viewers now include Export buttons.
- Feature: TBS-2983: SPARQL panel now also applies "also query included sub-graphs" setting for UPDATE queries (this is on the WHERE clause only).
- Feature: TBS-4044: Added Explore > Show References as a more intuitive way of opening the References panel.
- Feature: TBS-3323: Source Code panel now supports Find (CTRL-f) and Replace All (CTRL-Shift-r).
- Feature: TBS-4070: RDF/OWL Properties panel now has a setting to show owl:ObjectProperties and owl:DatatypeProperties only.
- Feature: TBS-4052: Added a new notification for committed workflows.

- Feature: TBS-3757: Allows for download and upload of Interactive Setup zip file.
- Feature: TBS-4066: Auto-complete editors for rdfs:Class now default to owl:Class but have a button to actually switch to rdfs:Class where needed.

For example this applies to widgets for sh:class and rdf:type.

- Feature: TBS-4067: Added a widget to render reification URIs as clickable hyperlinks for subject, predicate and object.
- Feature: TBS-1156: The Modify menu of Node shapes/classes now has a wizard to easily create SHACL qualified value shape constraints.
- Feature: TBS-3821: Git integration: When configured, the Export tab will have buttons to commit/push and the Import tab will have a reload from git feature (for users that are managers). Also the global + button can open an Import from Git page.
- Feature: TBS-4111: Change History panel now offers a button to copy all subjects from a selected change into the Asset List.
- Feature: TBS-3622: Added query booster that should increase overall performance by reducing unnecessary queries against included sub-graphs. This is currently EXPERIMENTAL and needs to be activated on the advanced configuration parameters page.
- Feature: TBS-4100: Icon in the upper left corner of Form panel, and the icons of the Taxonomy and Hierarchy Trees can now also be dynamically computed, see https://datashapes.org/propertyroles.html#IconRole for examples. This may carry a small performance penalty.
- Feature: TBS-4151: Added dash:InlineViewer to horizontally lay out multiple values on forms, e.g. for printing.
- Feature: TBC-571: SPARQL Query panel now has a help button showing a list of SPARQL functions in TopBraid.
- Feature: TBS-4156: Search panel now has a button to show the total number of matches if there are more than the configured max (1000).
- Feature: TBS-4191: Quick search above classes hierarchy and Node Shapes panel now switches to gnames if panel itself is in Display IDs mode.
- Feature: TBS-3799: 'Copy Link to Concept' Explore Menu action should produce more reliable shareable links directly to certain assets.
- Feature: TBS-4200: Create asset dialogs now mark mandatory fields with a red asterisk (*).
- Feature: TBS-4225: teamwork:stateEntryActions can now also be defined using ADS (instantiate teamwork:WorkflowActionScript).

- Feature: TBS-4227: Submit Query button on SPARQL endpoint page now disables when clicked and displays a spinner while busy.
- Feature: Added Modify > Create SHACL prefix declaration... to owl:Ontologies.
- Feature: TBS-3741: New Diagram Panel, replaces Class Diagram Panel and Relationship Tree. Provides ability to create, save, share ad-hoc diagrams.
- Feature: TBS-4280: Layouts admin page now has buttons to export and import layouts.
 - Feature: TBS-4308: Added Export Entire Asset Collection > Zip File, and corresponding import from .zip on the global + button.

Also added an option to export without the system graphs (both for TriG and Zip files).

- Feature: TBS-4340: Added 'Developer Mode' option, defaulting to true. If switched off, access to GraphiQL page is disabled.
- Feature: TBS-4308: teamwork:ImportTrigFileService renamed to teamwork:ImportDatasetFileService.
- Improvement: TBS-3407: Add description to the workflow tables.
- Improvement: TBS-2941: Add Governance Area selection to the create collection page
- Improvement: TBS-3822: Improve User section in header.
- Improvement: TBS-3348: Update user tab on workflow match user tab on production collections.
- Improvement: TBS-3926: Algorithm to Derive Property Shapes from Instances is now smarter about subclasses.
- Improvement: TBS-3843: Search Panel will no longer present properties marked with dash:hidden in available filters and available columns list.
- Improvement: TBS-3524: Enable Search Panel for Files Asset Collection.
- Improvement: TBS-3777: Better handling of skos: Collections, e.g. in Data Graphs.
- Improvement: TBS-1156: Forms for property shapes now have widgets for the 4 qualified value shape properties,

icons indicate object property if sh:class is used in a sh:qualifiedValueShape, properties table widget now renders qualifiedValueShape/sh:class and uses qualified cardinalities in that case.

- Improvement: TBS-4038: SWP viewer now gracefully handles literal values. Make sure to never use the normal Turtle importer for .ttlx files and only edit SWP in Files.

- Improvement: TBS-3913: Excel importers now handle currencies and calculated numeric values better.
- Improvement: TBS-3275: Display the user's full name (rather than user ID) whenever it is available.
- Improvement: TBS-3365: Improvements to Batch editor when launched from the search panel.
- Improvement: TBS-4076: Crosswalk suggestions now ignore sub-parts in parentheses (e.g. for Data Assets) and non-letter characters such as _. For Data Asset collections that include a Glossary, the Problems and Suggestions now also include label-based mapping suggestions from database columns (and other edg:DataElements) to glossary terms.
- Improvement: TBS-3845, TBS-4090: General performance improvements on label fetching using GraphQL, e.g. for Search panel.
- Improvement: TBS-4109: RDF file import will avoid redundant add entries in the change histories, now only record those that were truly added.
- Improvement: TBS-1410: Source code panels now support right-click context menus for the resource under the mouse, and in Change History and Inferences to navigate to the corresponding resource via a single click.
- Improvement: TBS-4079: Allow logout from EDG when using SAML.
- Improvement: TBS-3959: Treat administrators as administrators even if they have the Explorer role
 - Improvement: TBS-4079: Allow logout from EDG when using SAML.
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 - Improvement: TBS-4272: Improves the extensibility of the context menu available to EDG Diagram Nodes, adds a remove node action item to the context menu.
 - Improvement: TBS-4370: Decreases the default font size of the edge labels for increased diagram legibility.
 - Improvement: TBS-4371: Adds orthogonal edges, enabled by default this configuration improves how edges behave when nodes are moved around in the diagram.
- Change: TBS-3836: Removes the following deprecated SWP elements: swa:DataTable, swa:DataTableResultSetColumnsJSON, swa:DataTableSearchColumns swa:DataTableSearchColumnsJSON, swa:DataTableSearchResultsBody, swa:SimpleDataTableConfig, swa:SimpleDataTableResults, swa:ResultSetGrid, teamwork:DataTable, teamwork:DataTree, teamwork:DetailsViewPage, teamwork:DetailsViewCarouselComponent, teamwork:DetailsViewTitleComponent,

teamwork: Saved Searches Dialog, teamwork: Search Results Modal Body, edg: Build Table Of Roles Subject Areas And Workflows, edg: Create Resource Dialog For Abstract Class Plugin, edg: Create Resource Dialog Type Selection Panel, edg: Default Create Resource Dialog Plugin, edg: Dependency Analyzer, edg: Editable Grid Gadget, edg: Enumeration Types Asset Page,

edg:EnumerationsCreateProjectPage, edg:EnumerationsCreateProjectPageFormFields, edg:GuidedCreateEnumeratedValuesProjectPage, edg:ResultSetBody, edg:ResourceInstancesInlineEditingDataTable.

Removes the following deprecated JavaScript: datasetapp, DataTableUtils, DataTableEditorButtons, DataTableConfig, TableHelpers, ResultsTableComponent, DataTreeComponent, SearchDataTableComponent,

dtrenders, ResourceTypeContext, FilterActions, SearchContext, SearchState, SearchFilterComponent, GlobalStore, ColumnContext, LiteralLangInput.

- Change: TBS-3960: The SPARQLMotion engine and servlet will be removed from TopBraid EDG (SM to remain in TBC only)
 - Use of sml: modules in SWP scripts, and the use of smf functions remain possible
- The Export RDF File web services are now at /tbl/service/\${graphId}/!/exportToRDF/\${format} (see links on Export tab)
 - The Script-based Importers feature (from Import tab) has been removed
 - /tbl/sparqlmotion servlet deleted
 - sm:Functions limited to TBC
- Change: TBS-3837: Restructures TopBraid JavaScript bundles, ErrorWidget and BaseWidget are now part of the TBComponent namespace rather than swa.
- Change: TBS-3948: Remove Dashboards link and tab from left nav.
- Change: TBS-2840: skosshapes:fromConceptScheme is now visible on the main form of all object property shapes when skosshapes is owl:imported.
- Change: TSM-2576: Print feature moved from Search > Export to vertical dots menu above form, now using exactly what is shown on the form.
- Change: TBS-4185: Several Manage tab items no longer show up for File asset collections as they didn't make sense there.
- Change: TBS-3904: Create concept dialogs no longer show skos:definition unless it has been marked with sh:minCount 1.
- Change: TBS-4106: Reduced log rollover size-based trigger to 50MB and improved archived file name pattern.
- Change: TBS-4236: Editors based on Monaco (e.g. for ADS and SWP scripts) now preserve tab characters.
- Change: TBS-4283: Auto-complete fields using qnames now also start auto-completing before a prefix has been entered.

- Change: TBS-3790: EDG Models re-factoring to remove dependencies and improve modularity of asset collection types.
- Change: TBS-4134: Resolved issues in the EDG Governance Model
- Change: TBS-4261: Improvements to edg:Organization class
- Change: TBS-4262: Improvements to edg:Policy class and sub-classes
- Change: TBS-4124: Improvements to the modeling of Servers, Software Platforms. Added new class for software APIs.
- Change: TBS-4104: Provide English stop words to Search the EDG index.
- Change: TBS-4339: Move the 'Types' group into the 'Key Facts' group for Resource Nodes on the EDG Diagram.
- Change: TBS-4181: Don't show stack traces on error pages unless we are in developer mode or EDG Studio.
- Bug fix: TBS-3811: SPARQL endpoint would sometimes submit guery twice.
- Bug fix: TBS-3453: Fix Governance area tree selection issue when adding new role.
- Bug fix: TBS-3577: Fix bugs for entries with null user on Password Management page.
- Bug fix: TBS-3859: Prevent instances from being created without a UUID.
- Bug fix: TBS-3917: Cloning a collection sometimes left duplicate values for metadata:status.
- Bug fix: TBS-3864: Path viewer on forms of property shapes did not produce hyperlinks if the property had no namespace prefix.
- Bug fix: TBS-3831: Large result labels would force Search the EDG layout into the responsive mode on any size screen.
- Bug fix: TBS-3936: Fixes typo in edg:SystemAnnouncementsWidgetConfig class definition.
- Bug fix: TBS-3971: In File mode, edits to default namespace were not applied to file.
- Bug fix: TBS-3943: Create Top Concept dialog now uses declared sh:class of skos:hasTopConcept, if that exists, over skos:Concept.
- Bug fix: TBS-4009: Fixes an issue when decoding SAML responses from IBM cloud IDP.
- Bug fix: TBS-4059: Fixes Edit includes dialog not correctly escaping URIs for adding imports.

- Bug fix: TBS-3925: All auto-complete requests for all graphs now use an engine with a dedicated index.
- Bug fix: TBS-4075: Cloning an asset collection did not copy the namespace prefixes.
- Bug Fix: TBS-3825: Batch import of EDG system enumerations is now fast
- Bug Fix: TBS-4176: Delete Backup will now properly delete a backup from an S3 bucket
- Bug Fix: TBS-4209: Addresses an issue where ADS NamedNode.shapes was using the wrong scope to resolve data.
- Bug fix: Crosswalk suggestions mapping was crashing on some weird labels such as from OWL blank nodes. Improved error handling too.
- Bug fix: TBS-4112: Asset Lists with many many items were sometimes exceeding the localStorage quota, now handled more gracefully.
- Bug fix: TBS-4115: Clear Change History did not delete changes from committed workflows.
- Bug fix: TBS-4146: The Default namespace widget now allows entering URNs ending with ':'.
- Bug fix: TBS-4168: Clarified that sh:languageIn needs to be edited via source code panel.
- Bug fix: TBS-3858: Permission cache would not refresh on changes to a edg:DataSubjectArea.
- Bug fix: TBS-4205: Crosswalk suggestions mechanism did not use labels in "en" if the preferred language was "en-US" (etc).
- Bug fix: TBS-4210: Script editor panel's file upload feature did not re-upload file if the name did not change.
- Bug fix: TBS-4049: Revert on change history panel did not work if the change had no description (e.g. executed from SPARQL).
- Bug fix: TBS-4224: Source Code panel does not support unescaped " at end of line in """ literals.
- Bug fix: TBS-4114: Voters in voting workflows were allowed to vote twice if they had voted abstain or reject before. When a voting workflow transitions to a voting state, all previous votes are now being reset.
- Bug fix: TBS-4253: Misc bug fixes related to auto-complete in SPARQL and Turtle Source Code editors.
- Bug fix: TBS-4255: Custom Match Predicate selection for Crosswalks did not allow selecting properties that only had a sh:path declaration.
- Bug fix: TBS-4129: Addresses a UX issue with LineageGram DataProvider Settings, settings were being auto applied before a user had finished configuration.

- Bug fix: TBS-3983: Problems & Suggestions panel did not use inherited constraints or those from sh:targetClass when filtered by class.
- Bug fix: TBS-3964: teamwork:lastChange was not updated if a working copy was committed and its most recent change was newer.
- Bug fix: TSM-2732: Spreadsheet importer did not allow selecting instances of subclasses of skos:ConceptScheme as default concept scheme.
- Bug fix: TBS-4307: Add new... action from Hierarchy panels now correctly sets the parent, see https://groups.google.com/g/topbraid-users/c/X11eufK4Gpl
 - Bug fix: TBS-4331: Client-side namespace/local name splitting algorithm is now correct, e.g. fixing a problem with parentheses in property creation dialogs (TSM-2755).
 - Bug fix: TBS-4119: When logged out, .editor servlet was redirecting to "evn" servlet, now "edg".
 - Bug fix: TBS-4302: Some form aggregate viewers were not respecting the 'Also show properties that have no values' form setting.
 - Bug fix: TBS-4293: Inferred permissions on workflows are derived from the inferred permissions on the collection's master graph.
 - Bug fix: TBS-4118: Only show button to remove a collection from a subject area if the user has at least editor permission.
 - Bug fix: TBS-4327: Removed outdated Property Definitions section from Settings tab of Reference Datasets.
 - Bug fix: TSM-2759: SPARQL library panel did not correctly handle malformed queries.
 - Bug fix: TSM-2764: Create EDG Ontologies for Existing Files sometimes displayed an error message if the OWL2SHACL conversion failed to convert all classes.
 - Bug fix: TBS-4294: Search the EDG was not finding a suitable facet label.
 - Bug fix: TBS-4335: Some EDG Diagram Dialogs were incorrectly using the term property when referencing relationship.
 - Bug fix: TBS-4333: Resource and Property Shape Diagram Nodes now persist the collapse state of each property group.
 - Bug fix: TBS-4332: Fix issue with attachment downloads from within a workflow.

- Bug fix: TSM-2787: Fixed a corner case with Crosswalk label mapping suggestions, if labels resulted in an empty string due to weird characters.
- Bug fix: TSM-2795: Saving a SPARQL query to the library did not correctly remember the withImports flag, causing the URL to execute on the base graph only.
- Bug fix: TBS-4334: Replaces confusing icons on Available Relationship dialog for EDG Diagram.
- Bug fix: TBS-4336: EDG Diagram was not returning to the proper label when switching between Label/Qname/URI, and pref language.
- Bug fix: TBS-4337: Ensures deactivated and duplicate relationships are not presented on the expansion dialog.
- Bug fix: TBS-4180: Fixes a XSS vulnerability on the Rights Management page.
- Deleted: TBS-4046: Removed unused/outdated servlets evnundo, swpCreateParams and getResource/putResource.
- Deleted: TBS-4160: Class Diagram panel deleted, now that we have the new EDG Diagram panel.
- Deleted: TBS-4173: Neighborgram Panel deleted, now that we have the new EDG Diagram panel
- Deleted: TBS-4171: Relationship Tree deleted, now that we have the new EDG Diagram panel.
- Removed: TBS-4238: Support for Weka-based classification.

Bug fix: TBS-4119: When logged out, .editor servlet was redirecting to "evn" servlet, now "edg".

TopBraid EDG Studio and Files Mode

- Feature: First release of this new product, running local copies of TopBraid EDG for development and testing purposes.
- Feature: TBS-4201: Various performance improvements to SWP file editing and better feedback on File operations.
- Feature: TBS-3541: The Edit button on the Files page now checks for missing imports and asks to download them to local files. The right-click menu of folders now has an item to download graphs from any URL.
- Feature: TBS-4016: For Files, the right-click menu of the Workspace root has a Refresh all files action, e.g. after external batch edits, an action to finish editing of all open files and an action to save all open files.

- Feature: TBS-4234: Right-click menu of files now has an item to Rename and potentially change the file ending.
- Feature: TBS-4242: For the Home ontology (and global vertical dots button), added Explore > Find by Text... similar to text search feature of TBC.
- Feature: TBS-4239: Added Modify > Delete (Resource) from all files...
- Feature: TBS-4186: Added EDG widget for editing SPIN expressions, esp for teamwork:pluginValidExpression.
- Feature: TBS-4249: Added EDG widget for editing SPIN queries (spin:body).
- Feature: TBS-4285: Forms for SWP elements and SPIN modules now also show inherited arguments.
- Feature: TBS-4216: Added Link to Folder button to conveniently create symlinks.
 - Feature: TBS-4312: For Studio, the right-click menu of folders offers Open Folder location and for files Open file with default app.
- Improvement: TBS-4254: Opening files is now significantly faster.
- Improvement: TBS-3715: Upgrade Quartz to 2.3.2 to address CVE-2019-13990
- Change: For Files, "Show Unsaved Changes" was renamed to "Compare with File on Disk".
- Change: TBS-4282: SWP elements are now rendered with word-wrapping between attributes on forms.
- Bug fix: TBS-4211: Refreshing the workspace will now replace already loaded graphs when their file has changed.
- Bug fix: TBS-4188: When opening .ui.ttlx files, the system was accidentally adding an owl:import to the HTML namespace now on create file only.

SHACL, Active Data Shapes (ADS) and GraphQL

- Feature: TBS-3908: ADS Scripts can now be executed on Node.js, see http://datashapes.org/active/nodejs.html

- Feature: TBS-3007: ADS Scripts can now be executed from web/React components, see http://datashapes.org/active/web.html
- Feature: TBS-3902: Added tosh:reificationSubject/Predicate/Object functions, also as convenience for ADS scripts. Added functions such as myProperty_ex_ReifShape(value) to access reified values more easily.
- Feature: TBS-3919: Added ADS NamedNode.literalValue(s)/namedValue(s)/stringValue(s), and e.g. skos.asConceptArray functions.
- Feature: TBS-3912: Added dash:IncludedScript as a mechanism to inject some global functions or constants into generated APIs.
- Feature: TBS-3910: ADS scripts can now query the added and removed triples of the session and roll them back, see graph.changes. There is also a new function graph.validate() to validate the whole graph or the changed resources.
- Feature: TBS-2976: Script Console panel now refreshes continuously and also shows other console items for the current user.
- Feature: TBS-3965: ADS Script Editor now offers buttons to edit and then save the current script to the most recently selected dash:Script. This makes it easier to, for example, edit and continuously update a dash:js script embedded into some resource.
- Feature: TBS-3235: ADS scripts can be used to post-process changes/edits, similar to teamwork:EditRules, see http://datashapes.org/active/changescripts.html
- Feature: TBS-4053: Added graph.every() function to get all instances of a given class.
- Feature: EDG config parameters -> Governance Roles now has an option to disable ADS script editing for certain user roles.
- Feature: TBS-3892: Added SPARQL function teamwork:graphQLQuery to programmatically execute GraphQL queries. Added ADS function graph.ql to execute GraphQL queries, e.g. graph.ql('query(\$uri: ID!) { cities(uri: \$uri) { label } }', { uri: focusNode.uri})
- Feature: teamwork:ProjectTypes can now declare teamwork:scriptGraphs with additional Explore/Modify action that apply to all asset collections.
- Feature: TBS-4117: Added new mechanism to declare Multi-Functions, replacing (SPIN) magic properties: http://datashapes.org/multifunctions.html
- Feature: TBS-4136: Added dash:Constructors as a means to define custom handlers for the New buttons (see http://datashapes.org/active/constructors.html)
- Feature: TBS-4348: Added GraphQL timeout parameter to GraphQL Features on the server configuration parameters page.

- Improvement: TBS-3893: ADS createXY functions now use a generated _Props type, JSDoc of props more correctly handles datatype unions.
- Improvement: TBS-3927: Scripts now produce more useful errors and stack traces on JavaScript exceptions, and handle errors in (sh:values) node expressions more gracefully.
- Improvement: TBS-3909: dash:ResourceActions can now declare a pre-condition using dash:jsCondition (property made visible).
- Change: TBS-3931: ADS no longer generates constants for all prefixes and classes automatically. Instead, use dash:generateClass,

dash:generatePrefixClasses and dash:generatePrefixConstants (available from the "Script API" tab of the "home" resources).

This may break existing ADS code, until those properties are added for your used namespace prefixes and/or classes.

The common namespaces such as rdf, sh, skos and edg have been updated in the system ontology files.

- Change: ADS generated APIs will from now on only contain SPARQL functions that have some value for dash:apiStatus. This will be used to define a cleaner contract distinguishing which functions are stable vs experimental or deprecated.
- Change: TBS-3974: ADS scripts that are based on the same Ontologies will now share the same shape definitions and thus have the same API. It is no longer supported to define any ADS-related triples outside of Ontologies and files (never really was).
- Change: TBS-4035: ADS HTML results viewer now preserves CSS styles.
- Change: TBS-4060: All generated ADS APIs are now reset if anyone presses the Script refresh button, and from TBC-ME a warning is logged if someone accesses APIs that are older than the most recent change to some ontology.
- Change: TBS-3834: GraphQL schemas now always include fields for properties that have a complex sh:path, even if no graphql:name is declared. As a result, those fields will now show up on forms unless they are hidden.
- Change: TBS-3967: Removed owl2shacl:owlUnionOfIRIs2rdfsSubClassOf from OWL-to-SHACL mapping.
- Change: When the String Kinds constraints files is imported, its constraint parameters will automatically appear for datatype property shapes.
- Bug fix: ADS prefix objects no longer generate createXY functions in read-only mode.
- Bug fix: Some arguments of Explore and Modify actions did not receive the correct datatype on their ADS scripts.
- Bug fix: TBS-4061: Improved editing and handling of dash:scriptConstraints.

- Bug fix: ADS imported spreadsheets columnNames and sheetNames functions did not return an iterable JavaScript array.
- Bug fix: The parameter dialogs of ADS resource actions did not handle sh:in enumerations correctly.
- Bug fix: TBS-4222: ADS servlet did not return UTF-8 encoded JSON.
- Bug fix: TBS-4223: dash:ScriptFunctions did not allow graph.withDataGraph() correctly.

SPIN, SPARQL functions, SPARQLMotion and SWP

- Feature: TBS-4225: Added ui:evalScript to execute arbitrary ADS from SWP scripts, and ui:ScriptElements to produce SWP from JavaScript.
- Change: TBS-3977: sml:ConvertJSONToRDF now requires the sml:schema argument and no longer supports the "json" namespace. See the description of the module for alternatives (e.g. GraphQL, ADS and ui:json).
- Bug fix: TBS-3801: Fix null pointer in ui:encodeURL if unbound variable is passed in.
- Bug fix: TBS-4135: swa:isImportedResource and spif:isReadOnlyTriple did not work correctly in WHERE clause of some UPDATE queries.
- Deleted: TBS-3978: Removed SPIN constraint checking from server products use SHACL instead:
 - Deleted sml:CheckConstraints (deprecated since 6.1), use SHACL and sml:ValidateGraph instead
 - Deleted spif:canInvoke function (applicable to SPIN only, not used much)
 - sml:ValidateGraph no longer performs SPIN constraint checks
 - SPARQL endpoint no longer supports the check=resources flag in UPDATE requests