



TIBCO EBX®

Release Notes

Version 6.1.1
July 2023

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6.1 service packs

6.1.1

6.1.1 has been built on July 10, 2023. Overview of this service pack:

EBX® SQL	The EBX® SQL API now includes a single parameter FK_AS_STRING built-in function. This avoids the problem of providing the wrong arguments to the 3-parameter version. In some cases, it will still be necessary to use the 3-parameter version. See <i>EBX® SQL functions</i> for more information.
REST exception handling	The <i>REST Toolkit exception JSON format</i> has been updated to match the exception JSON format of the <i>Built-in RESTful services</i> (same as in version 5).
Search on associations	Quick search now includes association fields. Additionally, the 'text search' operator is available for associations when performing an advanced search. The search is performed on each field used in the label of the associated records. To improve performance, exclude fields and associations from the quick search tool using the new property <code>osd:defaultView/hiddenInQuickSearch="true false"</code>. See <i>Default view</i> for more information.
Complex search filters	Multiple search criteria can now be grouped by logical operator to create complex filters. The groups display in a tree view that utilizes a variety of features to streamline the construction of even the most complex filters. See <i>Create complex filters</i> for more information.
Staging	The following new <i>types of staging elements</i> were added: • Global permissions • Scheduled tasks • Workflow models The <i>automatic import of staging archives on startup</i> feature was also added. See <i>Staging</i> for more information.
Permission: Access rights configuration	The dataset permission configuration screen has been replaced by a <i>new grid configuration service</i> that allows users to configure and check all dataset permissions in a single screen.

Permission: Access to history and scripted permission rule	It is now possible to configure a list of authorized profiles to access a table's history when a scripted permission rule is set. See <i>Scripted permission rules on records and table history</i> for more information.
Backward compatibility – retrieving a value in an invalid context	The ReadContext.get(SchemaNode) <code>ReadContext.get^{API}</code> method behaved incorrectly in previous versions if the specified node didn't belong to the same table as the current record. Now, the consistency of the specified node is checked and an <code>IllegalArgumentException</code> is thrown if it does not belong to the same table as the current record.
Business objects	The business objects extension is now available in the DMA even if the TIBCO EBX® Match and Merge Add-on is not registered. See <i>Business objects</i> , <code>BusinessObjectModel^{API}</code> and <code>MainEntity^{API}</code> for more information.
Known issues	See the 6.1.1 Known issues section.
Closed issues	See the 6.1.1 Closed issues section.

Java API

The Java API was improved on the following topics:

- `DataspaceValidationReport`

A new interface has been added to represent the validation report of a dataspace. It gathers the validation reports of all datasets included in the dataspace according to the specified policy. It provides also several methods to exploit the validation result. See `DataspaceValidationReportAPI` for more information.

- `AdaptationHome`

Two new methods have been added to validate a dataspace.

See `AdaptationHome.getValidationReportAPI` and `AdaptationHome.getValidationReportAPI` for more information.

Note

All datasets in this dataspace will be validated according to the specified policy. The validation of the dataspace can therefore take a long time.

A new method has been added to identify that a dataspace is used by the validation framework.

See `AdaptationHome.isUsedByValidationAPI`

- `DependenciesDefinitionContext`

Five new methods have been added to specify a dependency for validation.

See `DependenciesDefinitionContext.addDependencyToModifyAPI`,
`DependenciesDefinitionContext.addDependencyToInsertAndDeleteAPI`,

`DependenciesDefinitionContext.addDependencyToInsertDeleteAndModifyAPI` and
`DependenciesDefinitionContext.addDependencyToInsertDeleteAndModifyInOtherInstanceAPI`
for more information.

Note: 6.1.0 has been built on March 22, 2023.

Audit trail

The "Audit Trail" feature has been extended. Now it handles user access to comparison and validation services. The attribute "service-mode" is now logged in the specific case of the "User service" event. See *Audit trail* for more information

Tile views

You can now create a custom view that displays data using tiles. The tiles are arranged in a grid and can include the following information: title (required), subtitle, image, and description. For the title and description you can: select fields to automatically populate the values, manually specify the text that displays, or use a combination of both methods. Additionally, you can define sort and filter criteria that apply to the view. Toolbars can also be added. See *Tile views* for more information.

Team Up

Team Up features introduce new ways to collaborate and engage with your data. Business users can leave comments on records, rate records, and assign tags to records. Access to, and visibility of Team Up features is highly customizable. See *Collaborative features (Team Up)* and *Introduction to collaborative features (Team Up)* for more information.

Hierarchies

This release contains the following new hierarchy features and updated functionality:

- In addition to Enumeration, Boolean, and Date, supported enumerable data types now also include String and Integer. See [Hierarchy limitations](#) for information on limitations for these new dependencies.
- A Group By hierarchy view can now be created based on the columns contained in a single table; the columns set the hierarchy dimensions. Fields used for this type of hierarchy must be a foreign key or an enumerable type. See *Group by hierarchies* for more information.
- Level skipping is now available to generate views of ragged hierarchies where a member's parent skips one level. To enable ragged hierarchy display, the new property **Allow level skipping** is available under a hierarchy view configuration's **Advanced properties** group. Note that all foreign keys must be present in the target dimension table. See *Ragged hierarchies* for more information.
- Fields with a Date data type can now be defined as time-based hierarchy dimensions. When reaching the last screen while creating the hierarchy view, select the date field at the top of the screen and use the **Time dimension** menu to select how you want the dimension to display. See *Time-based hierarchy dimensions* for more information.
- The **Remove recursive root leaves** was reactivated in this release. In a recursive case, when a search filter is applied or if **Prune hierarchy** is enabled, this option prevents root leaves from displaying.

Record metadata

Record metadata is now automatically added to a table's structure. The metadata nodes allow you to retrieve the following information about a record: creator, creation time, last modifier, time of last modification, and Unique identifier (UUID). Since this metadata is now part of the data model, you can:

- Use the quick search feature to locate records using the metadata fields as part of the search criteria.
- Execute queries with the API using XPath or SQL.
- Define table views that include the metadata fields.

See *Record metadata*, `SchemaMetadataConstants`^{API} and `SchemaNode.getNodeChildren`^{API} for more information.

Staging

The new staging feature allows you to move elements in your EBX® repository from one environment to another. For example, you can stage configuration settings from a development environment to a testing environment. See *Staging* for more information.

Workflows

Several improvements were made to workflows:

Workflow Launcher	The Workflow Launcher built-in service was improved in the following ways: • When activating a workflow launcher you can now select and activate multiple tables at the same time. • The process to launch or view workflows that require a record selection was simplified. Now users can view and launch workflows from the toolbar that displays on rows in the table view. This prevents them from having to open a record, or use the Actions menu to locate a workflow before launching it. See <i>Workflow launcher in data</i> for additional information.
Workflow model editor improvements	• A pop-up is now displayed when unvalidated changes of the layout are not saved when creating a new step. • Customize the links arrangement, and more generally the steps disposition using new connectors. • A pop-up is now display when unvalidated changes of the layout are not saved. The following new automatic placement mode is available: vertical layout.
New built-in script tasks	• Update a record String value • Retrieve a record's field value (String) • Update a dataspace label • Update a workflow label

Perspectives

A new perspective mode is now available to set as the default when connecting to EBX®. Choose between the following two modes:

- **Favorite perspective:** apply the favorite perspective at connection. This is the default mode.
- **Last used perspective** (new for this release): apply the last visited perspective at connection.

See also *Perspective modes*.

Data modeling

Data modeling includes the following new features:

- [Entity names](#)
- [Search strategies](#)

Entity names

By default, an entity name is now automatically created for tables when no name is explicitly defined in the data model. Entity names allow you to directly reference tables in SQL requests and data service operations using unique names instead of their paths. This is accomplished by defining aliases for SQL requests and suffixes for WSDL operations. This new behavior can impact existing data models.

Note that this new behavior may trigger an error on data model compilation, as indicated in the [Backward compatibility](#) section.

Search strategies

The following search strategies are now available to define on String fields: Levenshtein, Soundex, Double Metaphone, and NGram strategy. Previously, these strategies were only available when the EBX® Information Search Add-on was deployed; in case a data model was already using them, no further action is required.

See *Advanced strategies for strings* for more information.

Data validation

When creating a constraint on table with a record level check, you can now specify a behavior depending on the record's creation status. It is now possible to use an indicator to know if current record is being created. The method `isRecordCreation()` returns `true` if the current record is being created. See `ValueContextForValidationOnRecord.isRecordCreationAPI` for more information.

Request and query optimizations

Several features offer better performance. In particular:

- A request cache has been introduced that caches the transformation from requests to queries, when executing a Request. See *Request cache activation* for more information.
- `RequestResult` size related methods have a better performance if executed multiple times.
- Requests that are based on primary key values will be executed using a more optimized implementation of `RequestResult`.

Java API

The Java API was improved on the following topics:

Iterable RequestResult	RequestResult now extends Iterable<Adaptation> so it can be traversed using a simplified syntax. See RequestResult ^{API} for more information.
Repository	The new method Repository.getDefaultWhenFullyInitialized() blocks the calling thread until the repository is fully initialized and become able to handle: SOAP, REST Built-in, REST Toolkit requests and UI. See Repository.getDefaultWhenFullyInitialized ^{API} for more information.
SchemaLocation	Some methods have been added to SchemaLocation to retrieve the properties of packaged and embedded data models. See SchemaLocation.isPublication ^{API} , SchemaLocation.getPublicationName ^{API} , and SchemaLocation.getPathInModule ^{API} for more information.
UICustomViewContext	The new Java interface UICustomViewContext allows to get: • the recommended view for a given user; • the favorite view for a given user; • the currently applied view. See UICustomViewContext ^{API} for more information.
ValidationReportItemSubject	Two new methods have been added to ValidationReportItemSubject to check the subject type of a validation item. • See ValidationReportItemSubject.isDatasetOrRecordSubject^{API} for more information. • See ValidationReportItemSubject.isTableSubject^{API} for more information.

Data services

The following sections describe new features and improvements to data services:

- [REST Toolkit APIs](#)
- [Built-in RESTful services](#)

- [Built-in SOAP operations](#)

REST Toolkit APIs

The OpenAPI operations now extend the 'api' category to generation documents for REST Toolkit resources. See *OpenAPI* for more information.

Built-in RESTful services

The built-in RESTful services were improved in the following areas:

URL encoding	URL encoding has been improved for REST services. It now complies with the following URI specifications: <i>RFC-3986 with percent encoding (section 2.1)</i> . See backward compatibility for more information.
Record metadata	The select operation has been improved to return record metadata using the new <code>includeMetadata</code> parameter. The system metadata can now be used by the <code>filter</code> and <code>sort</code> parameters with the following metadata fields: creator, creation time, updater and update time. As a consequence the: • <code>includeMeta</code> is deprecated and replaced by the <code>includeMetamodel</code> parameter. • <code>includeTechnicals</code> parameter is deprecated and replaced by the <code>includeMetadata</code> parameter with the 'system' value. • <code>checkNotChangedSinceLastUpdateDate</code> parameter is deprecated and replaced by the <code>checkNotChangedSinceLastUpdateTime</code> parameter for the delete operation. Update and delete operations now support the <i>Optimistic locking</i> in JSON compact format with the same mechanism as the extended format. See data modeling Record metadata, <i>includeMetadata</i> parameter, <i>includeMetamodel</i> parameter and <i>checkNotChangedSinceLastUpdateTime</i> parameter for more information.
New mass update and delete operations	These operations can combine a <i>XPath predicate</i> expression and/or a published table view that can also contain an XPath expression. The update operation applies one or more changes to each record that matches. See <i>Insert operation</i> and <i>Delete operation</i> for more information.
Health REST built-in	New health category operation helps monitor the EBX® server. See <i>Health operations</i> for more information.
Lightweight JSON extended format	The selector URL of the multi-occurs enumeration field is moved under the field instead of each occurrence. This change lightens the JSON content for select operations.

Built-in SOAP operations

The built-in SOAP operations were improved in the following areas:

Record metadata

The select operation was improved to return record metadata using the new `includesMetadata` parameter. The system metadata can now be used by the predicate parameter with those fields: creator, creation time, updater and update time. As a consequence, the `includesTechnicalData` is deprecated and replaced by the `includesMetadata` parameter with the 'system' value.

The update operation was improved to take all data content returned by the select operation even if fields are ignored. For example, it can take association values and record metadata, except `ebx-metadata/system/update_time` to ensure success of the *optimistic locking* feature.

See *includesMetadata parameter*, *Update operation* and [Record metadata](#) for more information.

EBX® main configuration file

The main configuration file has been improved on the following topics:

Configuring SMTP without JNDI

Timeouts for sending an email are now configurable from main configuration file, when ignoring the Java Naming and Directory Interface (JNDI).

See *Activating and configuring SMTP and emails* for more information.

EBX® Container Edition

The Container Edition was improved on the following topics:

Java SE Development Kit

The JDK has been upgraded to LTS version 17.

See *Overview* for more information.

Configuring SMTP timeouts

Timeouts for sending an email are now configurable.

See *Email connectivity* for more information.

Limitations for this release

Hierarchy limitations

On allowed dimension for new dependencies:

- List field is not allowed inside a Nested Column Dependency.
- Date List field is not allowed as a Time Dimension field.

Query limitations

The performance of these features is not yet optimized:

- Navigation on paginated views (next/previous page) with sort on foreign key fields having a custom display pattern, if this pattern contains fields outside the primary key of the referenced table.
- Advanced search filtering on foreign key fields using string-based operations (e.g. starts-with, contains, matches, etc.).
- Navigation on paginated views (next/previous page) with sort on linked fields.

The following cases do not rely on Lucene indices. This has two consequences: first, performance is not optimized; second, Quick search behaves like a 'contains', rather than a full-text search:

- computed fields with non-local dependency;
- inherited fields;
- all fields in an inherited dataset;
- all fields in table history views.

More specific cases not benefiting from index optimization are described in the *following section*.

Value-labeling limitations

Search and sort using the value-labeling feature have a few limitations described in section *Value-labeling*.

Data validation limitations

- It is not possible to validate a dataset or a table within a Procedure.

Linked fields limitations

- Targeting a node which is an enumeration is not fully supported yet. Currently, only the raw value will be available for display and search, instead of the enumeration label. Until this limitation is removed, the workaround is to declare the same enumeration in the target node and in the linked field itself.

Version upgrade

In addition to the information provided in this release note, the chapter 6.1 Java API changes provides an exhaustive list of the new Java APIs published since the release of the 6.0 version.

Compilation and build environments

Your compilation and build environments must now use the following new development JAR libraries, instead of `ebx.jar`:

- `ebx-api.jar`, for the Java API of EBX®;
- `ebx-resources-api.jar`, for the Java API of third parties.

Note

Java types in `ebx.jar` are no longer obfuscated.

Note

At runtime, development JAR libraries should not be deployed, continue to only use the `ebx.jar` library.

Changes on supported environments

The chapter *Supported environments* has been updated to reflect the necessary upgrades detailed below.

Browser support	Please note that Microsoft Internet Explorer and the non-Chromium version of Microsoft Edge are not supported anymore.
JVM support	Required Java Runtime Environment: either JRE 11 or 17. Java 8 is no longer supported.
IBM support	WebSphere Application Server 9 is no longer supported. WebSphere Application Server Liberty, for Java EE 8 only, is supported.
Oracle support	Oracle 12c is no longer supported. Minimum supported version of Oracle is now 19c.
PostgreSQL support	PostgreSQL 10 is no longer supported. Minimum supported version of PostgreSQL is now 11.
Microsoft support	SQL Server 2012 SP4 is no longer supported. Minimum supported version of SQL Server is now 2014.

Migrating an existing EBX® 5 environment

To get a running EBX® 6 from an existing EBX® 5 environment, follow the *dedicated migration guide*.

Upgrading from an existing EBX® 6 environment

The Lucene library version has been bumped from 8.11.0 to 9.4.0, bringing modifications in the index format. As a consequence, the directory holding the indices is going to be automatically deleted during the product upgrade. Thus, a delay at the first access to each table can be expected for index rebuild. Some minor changes in search behavior can also be observed.

Removal of dataset creation options

In the **Create a dataset** service, the option to create a dataset from an *external data model* was removed. It is still possible to import a file in the data model assistant.

Backward compatibility

URL encoding

URL encoding has been improved for REST services and GUI. It now complies with the following URI specifications: *RFC-3986 with percent encoding (section 2.1)*. The percent encoding is used to encode path and query parameters values and keys of URL when they contain dataspace keys or primary keys which may have characters that would require encoding. For example, '&' in a query parameter value of a URL (like in A&B will be encoded as A%26B)

Server configuration should be checked to support slash and backslash characters.

See *Installation notes* for more information.

Entity names

In this release EBX® now automatically creates an entity name for the tables defined in a data model. The last step of the table's path is used as the default entity name. Since entity names must be unique in a data model, an error is now raised during compilation if the model contains tables with the same name. To prevent an error in this case, you must explicitly set the entity names.

See *Entity mappings* and `SchemaNode.getTableEntityNameAPT` for more information.

JSON extended format change

Selector URL has been moved for multi occurrence enumeration fields using the select operation. See [Lightweight JSON extended format](#) for more information.

REST Toolkit exception handling

The *REST Toolkit exception JSON format* has been modified and is no longer compatible with the format used on versions 6.0.x.

See [the overview of 6.1.1](#) for more information.

Decimal serialization in the REST Toolkit

The JSON serialization library was upgraded and the new version serializes a `java.util.BigDecimal` into a JSON string instead of a JSON number. A *custom serializer* can be used to override this behaviour.

Maximum number of clauses in a query

Due to the upgrade of the Lucene library, the method to compute the maximum number of clauses authorized in a query has changed. Previously, it was possible to have a very high number of clauses. Those queries now throw an exception. The condition is not easily met. If it happens, this is probably due the Levenshtein search strategy. This can be avoided by customizing the strategy to decrease its

fuzziness. For instance, by adding an invariant prefix, or reduce the max edit distance.

Rolling log files

From 6.0.6 to 6.0.10 (included), the rolling files names have changed from `xxxx.log.yyyy-MM-dd` (or `xxxx.log.yyyy-MM-dd-i`) to `xxxx.MM-dd-yyyy.log` (or `xxxx.MM-dd-yyyy-i.log`). By default, the former format (`xxxx.log.yyyy-MM-dd` or `xxxx.log.yyyy-MM-dd-i`) is used. The rolling format can be specified in `ebx.properties` file by setting the property `ebx.log4j.appender.ebxFile.rollingFormat`. If this property is specified, the filenames will have the following format: `xxxxx.rollingFormat.log` and will not be append to the end of the filename with the extension. To configure same filename format than since 6.0.6, the value must be `%d{MM-dd-yyyy}-%i`. The property will accept both a date/time pattern compatible with *Java SimpleDateFormat* and/or a `%i` which represents an integer counter. The integer counter is used in conjunction of the backup threshold, and will increment to create new files when the current file size will reach the threshold.

Since 6.0.6, the `ebx.log4j.appender.ebxFile.backup.Threshold` property defines the maximum size (in megabytes) of backup files for daily rollover and *not* the maximum number of backup files.

6.1.1 Known issues

User Interface

- **CP-24388** Tiles views cannot be used as advanced selector of a combo box.

If a tile view is specified as the advanced selector of a combo box, the "select" button is not displayed in the cards of the tile view.

6.1.1 Closed issues

Container Edition

CP-25175

The TIBCO EBX® Container Edition installer does not always build an AMD64 platform image.

When running the installer on the ARM64 platform, the image produced is ARM64. The ZIP packaging must not include the AMD64 suffix.

Core Engine

CP-16736

Fix search strategies to disable sort on irrelevant columns.

It is not useful to provide sorting on columns, such as "Progress view", "Actions", or description values.

CP-16856

Inter-database migration might fail when copying binary data.

CP-18406

Search results are not highlighted correctly when searching on multi-value fields under a group.

CP-18408

Keywords are not highlighted correctly on targeted searches.

CP-18435

A StackOverflowError is thrown while publishing a schema with mutual recursive primary keys.

CP-18487

The Result.getHighlights() API returns an empty RecordHighlights if the field is under a complex group.

CP-18524

Search results are not highlighted correctly when they meet the conditions specified in the Key field.

CP-19033

It should not be possible to delete records in the "Deleted dataspace/snapshots" administration table.

If this is done, it is no longer possible to delete the history of a deleted dataspace from the GUI.

CP-21209

Writing to history tables can consume numerous connections.

CP-22630

Highlighting a value that contains a tag throws an exception.

CP-23388

The case-insensitive 'contains-whole-word' filter is not working properly.

An incorrect result is returned when applying a filtered view with the "contains whole word" filter when the word contains special characters.

CP-23400

The results are not highlighted when searching a keyword ending with the "%" character on an enumeration field.

CP-23928

The error message that displays when importing an archive is unclear.

CP-25314

LinkedField properties do not display for non-administrative users.

CP-25315

An error occurs when converting a field type from Date to DateTime.

CP-25336

An error occurs when evaluating a computation rule containing a recursive formula.

CP-25383

The last record of a CnyCanopyProducerCallable is not processed.

CP-25420

A NullPointerException occurs when creating a child dataspace.

CP-25458

XtbRequestResult.close() tries to close the underlying ResultSet twice.

This can result in an already closed warning in the persistence.log file if the data source doesn't intercept the double call.

CP-25460

A deadlock occurs at startup due to the ServiceKey class initialization.

CP-25505

The ProcedureContext.setTriggerActivation(false) does not work as expected.

When the procedure context is used to create another record in the same table (Child for a parent), the setTriggerActivation(false) method does not disable the trigger and the handleBeforeCreate method gets called for the child record.

CP-25519

The file stream is not closed.

When using the Windows platform, certain temporary files cannot be deleted until the server is shutdown.

CP-25639

The purge process should use different database connections for read and write operations.

CP-25640

The buffer size management is not robust enough.

It should have improved resizing methods, prevent negative size allocation, and add clear exceptions on borderline cases.

CP-25641

com.onwbp.adaptation.ReadContext.get(SchemaNode) must check its input.

The validity of the node should be checked upstream and an exception should be raised if required.

CP-25696	Searching on Hiragana and Kanji character sets with the NGram search strategy doesn't return the expected records.
CP-25751	After adding a batch to a PreparedStatement, the parameters should be reset.
CP-25762	A ClassCastException is thrown on an XPath filter with parameters.
CP-25788	NewTransientOccurrenceContext.getReferencingRecordContext() always returns null.
CP-25789	The purge fails if rows are concurrently inserted in BLK or SHR.

Data Modeling

CP-21989	A blank workspace is displayed when users access a validation rule that has a text search operator. When users access a validation rule that has a text search operator or run the 'Modify criteria' service on this rule, a blank workspace is shown.
CP-25687	An error occurs during index rebuild after adding a computed field that uses inherited fields.

Data Services

CP-22805	A StackOverflow is thrown on large predicate expressions used for record selection.
CP-25418	When using the REST API, the built-in insert operation does not complete successfully if a value function field is present.
CP-25609	The swagger-ui.css file is not found. When accessing the REST documentation, the Swagger UI is unusable.
CP-25776	The REST API's built-in select operation has no validation content for multi-occurrence and groups in records. The JSON extended format does not contain the validation property if a field such as maxOccurs is greater than 1.
CP-25797	The REST API's built-in insert operation returns a 400 Bad request code if the body contains over 1000 records.
CP-25889	A 500 error code is returned when parsing requests that include an incorrect BigDecimal value. When the value corresponds to an illegal argument, such as 5f5 an internal server error is returned.

Data Validation

CP-25145	An IncompatibleChangeError occurs while purging validation dataspace.
CP-25650	A PathAccessException is thrown from TableRefFilter when ValueContext.getValue is called with an absolute path.

Documentation

CP-25491	The documentation related to deleting an add-on module is incomplete. Steps are missing in the Deleting an add-on module section of the Deploying and registering TIBCO EBX® add-ons chapter.
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Hierarchies

CP-17172	Nodes are missing when applying a hierarchy view that has an incomplete ternary join link dimension.
CP-21464	The 'Labels' field is displayed incorrectly on the hierarchy creation screen. On the Hierarchy creation screen, only the Target table is displayed in the 'Labels' field.
CP-21607	The incorrect label displays for nodes in the hierarchy view of the 'Activations' table.
CP-21751	[All browsers] The record is still selected after moving a record in a hierarchy view.
CP-23604	There is a performance issue on pruned recursive hierarchies when a level predicate is set.
CP-24964	The Java enumeration label is not displayed when using it as a dimension in the hierarchy view.
CP-25417	There is a performance issue on recursive hierarchies for the Find action.

CP-25521	The screen is blocked when closing a hierarchy member's configuration panel. On a hierarchy based on a recursive n-n dependency, there are performance issues when closing the hierarchy member.
CP-25647	Illegal and ambiguous dimension tree nodes can display in hierarchies.
CP-25731	Attempting to perform the 'Select all' or 'Select all elements' action on the root element of a ternary recursive hierarchy fails.
CP-25800	When creating a Group by hierarchy view that targets another dataset, the 'GroupBy' foreign key is not available in the dimension tree.

Staging

CP-25921	In the staging domain's 'Administration' category, there are two options not displayed in alphabetical order.
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User Interface

CP-1371 [36718]	The 'Find in Hierarchy' service does not work properly if a members cycle exists.
CP-17443	An error message is missing under the 'Main' tab after defining a custom layout.
CP-24144	The hierarchy view in the child dataset is displayed inconsistently when applying a quick search.
CP-25262	A blank page displays when redirecting to another user service.
CP-25474	The TIBCO EBX® Data Exchange Add-on's export service fails for non-administrative users, but succeeds for administrators.
CP-25589	The "User logged out" page is shown after a workflow finishes or is cancelled in the user service. This occurs after upgrading from 5.9 to 6.0.13, or to 6.1.0.
CP-25703	There is an error on the custom form preview when displaying a field with an enumeration. This occurs when the following properties are displayed: a static enumeration set or enumeration values with undefined labels.
CP-25880	[All browsers] When using the REST API, a javascript error displays if special characters are used for authentication.

6.1.0 Closed issues

Container Edition

CP-24408 A stopped EBX Container Edition container may fail when started again.

Core engine

CP-18256 **Sorting a table with large volume on a foreign key is very long.**
Sorting a table with a large volume of data takes longer than expected.

CP-18919 **EBX logs are not deleted when the file size is zero.**

CP-20968 **The loading screen displays for a long time when applying the 'Apply last modifications' service.**
This occurs when the service is run on a child dataset that contains 100,000 records.

CP-21133 **The Jaro-Winkler strategy should not accept parameters.**

CP-23002 **A NullPointerException occurs when applying a Jaro-Winkler search for Assigned search strategies.**
The exception happens when executing a global search and the Assigned search strategies for a field is set to Default search template and uses the Jaro-Winkler strategy.

CP-23572 **The "present in" operator is not available on an enumeration field of the HTML data type.**

CP-24178 **AdaptationHome.getTerminationDate() does not return null on open dataspace.**

CP-24189 **Clustering throws errors when relation matching and cluster field in complex data type.**
Clustering throws errors when using relationships in matching and the cluster field is in a complex data type.

CP-24199 **Datasets cannot be accessed during data model compilation.**

CP-24257 **A NullPointerException occurs when levels for logging categories are defined by a variable.**

CP-24290 **Error importing a perspective archive when a perspective has been duplicated.**
An error occurs when importing an archive contain a perspective that was duplicated.

CP-24333 **The add-on license threads can block the server shutdown.**

CP-24345 **NullPointerException when exporting a record, table or dataset created in severe error.**
A NullPointerException occurs when exporting a record, table, or dataset that was created in a state of severe error.

CP-24346 **ClassCastException when calling SchemaFacetTableRef.getLinkedRecords() in a Widget**
A ClassCastException occurs when calling SchemaFacetTableRef.getLinkedRecords() in a widget.

CP-24379 **Repository purge operation fails at validation reports cleaning step.**
A repository purge operation fails at the validation report cleaning step.

CP-24405 **UIDropDownList on a foreign key does not display elements.**

CP-24449 **Migration to EBX 6 fails if the metadata references tables that don't actually exists.**
Migration to EBX 6 fails if the metadata references tables that don't actually exist.

CP-24579 **An error occurs when rebuilding indexes in a child dataspace.**

CP-24627 **Default value is set on existing records in history tables when adding a new column**
When adding a new column in a historized table its default value is added to the existing records in the history.

CP-24634 **Errors prevent access of table contents.**
This includes errors with messages like the following: java.lang.IllegalStateException: CfOccurrence with ref (...) could not be fetched from table zza7[<tableName> of content type=VALUES in dataset <datasetName> in dataspace DataspaceName]: record have been deleted a transaction.

CP-24657 **"java.lang.IllegalStateException: This index is read-only" error while updating a record.**
An IllegalStateException error can occur when updating a record.

CP-24706 **Editing Greatest Value set field to a greater value doesn't affect Auto-increment when creating a new record.**

CP-24733 **Sub queries are not correctly identified when preparing query parameters.**

CP-24763 **Missing com.orchestranetworks.service.directory.EncryptPassword class.**
The com.orchestranetworks.service.directory.EncryptPassword class mentioned in the main configuration file documentation is missing in the product package.

CP-24895 **Values from uncommitted transactions can corrupt table size estimation.**

CP-24917	An error occurs when applying an advanced search on the following table: <emphasis>Administration > Database mapping dataset > Tables</emphasis>.
CP-24944	When extending SchemaDocumentation, displayed links are not clickable.
CP-24997	There is a missing search strategy for the default template. An exception can be thrown when compiling a data model that contains a foreign key node with multiple search strategies defined.
CP-24999	A LockObtainFailedException: Lock held by this virtual machine error occurs. If something goes wrong while rebuilding an index, the IndexWriter used to perform the rebuild is not properly closed and the slot remains locked preventing it from being reused afterwards.
CP-25032	Log failure can occur during index refresh at commit. This can disrupt synchronization between the cached index and the table content after commit.
CP-25233	A primary key violation occurs when replicating records with lists in a mass update.
CP-25270	A LxiDuplicateKeyException occurs when creating a record.
CP-25405	When the XPxParametrizedLiteral value is in an internal format, it can cause a ClassCastException to occur inside of toXPathExpression.

Data modeling

CP-21255	SqlChecker error with data models if they have circular dependencies, including one data model in error
CP-22225	Deprecated properties of table reference cannot be used The data model does not compile, when declaring a table reference using the deprecated properties: displayKey or labelPaths.

Data services

CP-2130 [32243]	REST built-in select does not return data from table that has multiple-occurrences group. A REST request does not return data from the inner group when a multiple-occurrence group is nested within a multiple-occurrence group.
CP-17619	Optional parameters in SOAP header do not work using default namespace without prefix. When calling a SOAP operation, adding additional parameters in the header does not work when using the default namespace without prefix.
CP-20709	ContentHolderForInput automatically removes object attributes named "content". When a ContentHolder is used for data input, it automatically removes object attributes named "content" even if these attributes are parts of the data model.
CP-21814	REST count operation on association field with :count syntax returns 404.
CP-21830	The documentation does not mention the limitation for procedure context with the REST built-in JSON compact format
CP-24606	Lineage WSDL configuration does not considered UI selected context. The lineage WSDL configuration does take the selected UI context into account.
CP-24653	The REST built-in transient operation should ignore association fields and value function nodes.
CP-24664	SOAP body validation error for select operation with some activated parameters. When a select operation enables exportCredentials with a value of true, the XML body response is invalid.
CP-24673	NPE when branch does not exists using SOAP operation. When using a SOAP operation, a NullPointerException occurs if the defined branch does not exist.
CP-24722	Association field must be ignored using REST builtin import/update operations. When using the REST built-in import/update operations, ignore association fields.
CP-24962	A PathAccessException occurs when importing XML. The exception causes the import to fail when a record contains an empty group that comes directly after a list of groups.
CP-25013	A REST built-in selector field must not be present for a read-only field.

Data validation

CP-7461 [11075]	Cannot enter a date with format like "dd/MMM/yyyy" It is not possible to enter a date if the formatting policy specifies a 3-character format for the month.
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CP-18807	In a user service, an exception may be thrown on page redisplay. The User Service API can be used to customize the form for creating a record. If a record contains a foreign key, an unexpected exception may be thrown, when the user service is redisplayed.
CP-21584	In a UserService, the record form submission is not blocked when an error message is added in ConstraintOnTableWithRecordLevelCheck#checkRecord.
CP-23502	The record validation report is computed for each tab to be displayed in a record form The header of a record's form displays the up-to-date validation report of the related record. Each tab of the form has its own header. As a consequence the validation report is computed as many times as the number of tabs to be displayed in the form. This can lead to performance issues if the table contains many constraints.
CP-24171	CalciteException Table not found when validating a table with a table reference filter using a table reference node An exception is thrown when a table reference filter uses a node that is a table reference to a table located in another dataset.
CP-24192	NullPointerException in code generated by calcite for a table reference filter validation A NullPointerException occurs in code generated by Calcite for a table reference filter validation.
CP-24336	xs:pattern facet is not applied on the XML string representation of dates. The xs:pattern facet checks the string representation of the Java Date object instead of the XML string representation.
CP-24483	NullPointerException while updating the persisted validation report A NullPointerException occurs while updating the persisted validation report.
CP-24526	Slow performance when accessing the persisted validation report. Performance is impacted when accessing the persisted validation report.
CP-24777	An IllegalStateException occurs when accessing a validation dataspace after an aborted deletion of a functional dataset.
CP-24904	Validation of a table reference fails with a ClassCastException. This is caused when PvrActionForTableRef generates a query plan with the wrong FK_AS_STRING parameters
CP-24923	A ClassCastException occurs during the validation of a contextual table reference filter.
CP-24933	A contextual table reference filter with multi-valued fields returns incorrect results.
CP-25019	The result of ValidationReportItemSubjectForTable.getRecords() contains null values.

Data views - hierarchies

CP-16830	Hierarchy cycle detection does not work on a recursive ternary dependency.
CP-17169	Cannot execute the specific property "prune recursive orphan leaves". The option to prune orphan leaves cannot be executed if there are recursive members without a parent.
CP-17204	[All browsers] The node level icons and their text are not aligned in the hierarchy view creation screen. The node level icons and text are not aligned in the hierarchy view creation screen.
CP-18439	Search not found on a multi links hierarchy. Search results are not found on a multi-link hierarchy.
CP-20401	Some child nodes are duplicated in a hierarchy view. When a hierarchy view is applied, some child node display twice.
CP-20448	Level filter on enumerable does not work for hierarchy. An incorrect result is shown when users create a hierarchy view and set a filter.
CP-21838	The hierarchy 'expand all' is not anymore limited to 2000 displayed members. Hierarchy expansion is no longer limited to displaying 2000 members.
CP-21840	Find on a ternary recursive hierarchy fails. The Find tool on a ternary recursive dimension hierarchy does not work properly.
CP-21882	The 'Last' button is activated on the last page of a hierarchy view based on the Date/ enumeration field. After navigating to the last page in a hierarchy that is based on a field with a data type of date or enumeration, the "move to last" navigation button is still active.
CP-21892	member.isLooping() may lead to stackOverflow mostly in workflow. Use of member.isLooping() might lead to a StackOverflowError, mostly in workflows.
CP-21900	The child nodes of levels are not displayed fully when creating a hierarchy view. When users create and apply a hierarchy view that has several levels, its child nodes are not displayed fully.

CP-22403	[All browsers] Number of selected records is displayed incorrectly on toolbar when users select/ unselect recursive record on hierarchy view multiple times. The number of selected records does not display correctly in a hierarch view toolbar when a recursive record is selected and deselected multiple times.
CP-22429	Nodes of a hierarchy view on a ternary with an ordering field model are switched after enabling pruned mode. The order of nodes is switched after enabling pruned mode on a ternary table hierarchy view.
CP-22483	In a hierarchical view, some records are displayed although they should be filtered out. Some records display in a hierarchical view when they should be filtered out.
CP-22881	Hierarchy branch selection does not work on ragged hierarchy. Hierarchy branch selection does not work on a ragged hierarchy.
CP-23010	An unexpected node is displayed on a hierarchy view. An unexpected node displays in hierarchy views and an error occurs if it is selected.
CP-24281	Reimplement the 'prune recursive orphan leaves' option. The <code><emphasis role="bold">Remove recursive root leaves</emphasis></code> option must be reimplemented.
CP-24443	'Enable/Disable pruned mode' is not properly set. The pruned mode options are not set properly.
CP-24558	Pagination does not work on an enumerable field.
CP-24646	Hidden records must not be used for hierarchy display.
CP-24675	The cycle member remains, in a ternary dependency hierarchy. In a ternary dependency hierarchy containing a cycle member, the cycle member remains alone after a search; it is not in a valid branch.
CP-24746	Hierarchy REST API orphan members are not properly managed. In the REST API, a hierarchy's orphan members are not managed properly.

Data workflows

CP-19283	Documentation in activation record is not updated when updating the label of a Launcher. A launcher activation label can be inherited from the label of its launcher or customized. If this label is inherited, it is not updated when the label of the launcher is modified and users might not realize this. No information or hint displays to inform users that they must save again to apply new values.
CP-22631	Fix "remove" icon in workflow diagram editor. The <code><emphasis role="bold">Remove</emphasis></code> icon in the workflow diagram editor does not display correctly.
CP-24148	No way to clear a profile field in a workflow step There is no way to clear a profile field in a workflow step.
CP-24578	Workflow complex objects should be expanded by default.
CP-24724	When dragging a link to another step and cancelling the confirmation, the link end spot changes.
CP-24769	The documentation for the Xpath parameter of the update a record field value script task is not correct.
CP-25239	Data context mapping in the model configuration should be open by default.

Dataspaces & History

CP-24934	A <code>NullPointerException</code> occurs during the dataspace compare action.
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Documentation

CP-18443	Fix java sample in security documentation. The Java sample in the documentation on security best practices needs to be updated.
CP-25026	Incorrect Java EE platform for WebSphere AS 8.5 and 9.0 support The Java EE platform for WebSphere Application Server 8.5 and 9.0 support is incorrect.
CP-25092	The double quote usage for the Windows path in the Tomcat installation note is incorrect.

Infrastructure

CP-24586	All <code>handleRepositoryStartup</code> method should complete before opening access to EBX®.
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Queries

CP-24291	Field trimmer removes all fields from the input to a LogicalAggregate with COUNT(). A <code>ClassCastException</code> occurs during the field trimming step.
CP-24319	Result of <code>RequestResult.getSize()</code> might be incorrect and vary from call to call. The <code>RequestResult.getSize()</code> method might return an incorrect result and vary from call to call.
CP-24551	Performance problem when setting request log level to DEBUG because of a slow <code>RelNode</code> to SQL translation. A performance issue occurs when setting the request log level to DEBUG.
CP-24608	Although set as non confidential, hidden nodes cannot be used in a foreign key filter when under a complex node.
CP-24631	Sort by resource field (and pagination) when the Lucene index is not available throws an exception.
CP-24677	An SQL query throws a <code>CannotPlanException</code> due to <code>HepRelVertex</code> in the plan after the Hep phase.

Team Up

CP-24911	An error occurs when applying search with Team up fields on hierarchy view.
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User interface

CP-2041 [33485]	Fields are unexpectedly filled automatically while creating a record through an association. When creating a record through an association, fields in the creation form should be pre-filled, but not read-only.
CP-17509	An error occurs when using a web component URL that selects a perspective and a branch.
CP-19856	The page for selecting backed-up user does not display in some cases A user selection page backup does not display when defining a custom login.
CP-20087	[IE11] An alignment problem occurs between the text of button and its arrow. On the <code><emphasis role="bold">Import</emphasis></code> screen and <code><emphasis role="bold">Task Creation</emphasis></code> modal, the button text and arrow do not align horizontally.
CP-20157	[All browsers] The toolbar overlaps the number of filters applied when searching on a table under data workflow. When users take a task and apply an advanced search, the toolbar overlaps the number of filters applied.
CP-21620	[WCAG 2.0 - 4.1.2.][Accessibility] The 'Remove' and 'Checkbox' buttons should provide additional information when using the accessibility checker tools (NVDA). Additional information should include its role, state, and value related information such as the element removed and checked, and it's corresponding value.
CP-21684	The tables under a group still display when the group is set to hidden.
CP-21753	[IE11] An alignment problem occurs in the Wait task creation screen of Workflow models. In the workflow model's <code><emphasis role="bold">Wait task</emphasis></code> creation screen, the "x" icon for the <code><emphasis role="bold">Hidden in progress view</emphasis></code> fields are not vertically aligned with the radio buttons <code><emphasis>Yes</emphasis></code> and <code><emphasis>No</emphasis></code> .
CP-22032	A corresponding dataset is not selected when selecting the 'Data' column on the 'Export' dataspace screen. The dataset selection behavior does not work correctly on the <code><emphasis role="bold">Export</emphasis></code> dataspace screen.
CP-22041	The URL computing documentation must mention the data lineage configuration when using a reverse proxy. When using a reverse proxy (particularly in https), it is necessary to configure the data lineage property. This should be mentioned in the URL computing configuration.
CP-22275	Default values are lost if a custom widget is defined. In certain circumstances default values are lost when a custom widget is defined.
CP-22295	[All browsers] The scrollbar is not displayed on 'Refresh all data models'. When invoking 'Refresh all data models', the scrollbar is not displayed in the pop-up.
CP-22703	Increase advanced search pane height produces a bad display. Display issues occur in the hierarchical and tile views when re-sizing the advanced search pane.
CP-22970	The default label is missing in the Workflow launcher records.

CP-23788	[All browsers] When applying an advanced search with the "present in" operator, the value of the drop-down list field is duplicated sometimes. The value of the drop-down list field is duplicated when applying an advanced search with the "present in" operator.
CP-24131	The highlighted bar is hidden in Data Model and Workflow sections.
CP-24668	A confirmation message is not displayed for a user service declared on a dataset in a perspective.
CP-24771	The bottom horizontal scroll bar doesn't display when loading tables in the UI.
CP-25000	Errors are not clickable.
CP-25166	When the label of a record is empty, the breadcrumb and its documentation pane should display a placeholder.

Users & Permissions

CP-21226	Exception when filtering on linked field if the FK is hidden. An exception is thrown when filtering on a linked field if the foreign key is hidden.
CP-24489	The dropdown to set the owner of perspectives is only showing profiles with the built-in administrator role.