

TRIPjxp v8.2-1

Change History

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About This Document

This document contains the change history for TRIPjxp.

Version 8.2-1

New Features in v8.2-1

Improvements for adding a large number of values [TRIP-5769]

The TdbField classes have two new methods; appendValues and insertValues. These should be used when you have a lot of values (subfields or paragraphs) to add per field in a record. Using these will yield significant performance improvements compared to using the regular appendValue and insertValue to add one value at a time.

In order to get best performance from also the commit operation, use of TRIPsystem 8.2-1:3 or later is strongly encouraged.

See also the new sample program BulkPut for a demonstration of the use of the appendValues method and a comparison with the regular appendValue method. The full name of this sample class is com.tietoerator.trip.jxp.examples.data.BulkPut, and is included pre-built in the tripjxp_examples.jar file.

Version 8.2-0

New Features in v8.2-0

Improved session encryption [TRIP-5367]

Encrypted sessions against TRIPsystem 8.2 and later will now use session-specific AES keys for encryption, resulting in enhanced security and improved performance.

Java 11 compatibility [TRIP-5599]

TRIPjxp can now be used with Java 11. The older Java version 8 remains supported.

Corrected in v8.2-0

Method TdbUser.get() fails for current user [TRIP-5041]

Calling the get() method of the TdbUser class without having created the TdbUser instance via a TdbUserList or previously fetched a user's profile with the same instance should retrieve the currently logged on user's profile. This always failed with a TdbException containing the message "Invalid arguments passed to function".

Corrected in 8.2-0:1.



Version 8.1-2

New Features in v8.1-2

SortMerge property [TRIP-5590]

A new property SortMerge has been added to the TdbRecordSet and TdbSearchSet classes. This should always be used by applications to control sort merge behavior for cluster search results instead of relying on TRIPsystem default.

This feature requires TRIPsystem version 8.1-1:3 or later.

Corrected in v8.1-2

Encrypted sessions do not work [TRIP-5562]

Any attempt to establish an encrypted session failed with an "unexpected state" exception.

Corrected in 8.1-2:1.

Version 8.1-1

Corrected in v8.1-1

32-bit limitation in TdbIntegerField and TdbNumberField [TRIP-5539]

The classes TdbIntegerField and TdbNumberField validates the values assigned to them when using the methods appendValue, insertValue and setValue. This validation incorrectly used 32-bit validation even when connected to a TRIPsystem installation capable of handling 64-bit numerical values.

Version 8.1-0

New Features in v8.1-0

Default values for database design creation [TRIP-5430]

A new overloaded version of the get method of the TdbDatabaseDesign class has been implemented. This takes two argument; a string with the name of the database whose design to retrieve, and a boolean that indicates if the design is retrieved for subsequent creation or update (true) or for reference/inspection only (false).

This new overloaded get method should be called with the second parameter set to true as the first call after having created a new TdbDatabaseDesign instance with the intention of using it for the creation or alteration of a database design. This populates the design instance with TRIPsystem-assigned default values when the database does not previously exist, thereby reducing the necessity to explicitly specify some of the mandatory parameters such as database file paths.

This feature requires TRIPsystem version 8.1-0 or later.



Corrected in v8.1-0

Formats with the NOLF filter not properly handled via XPI [TRIP-5488]

Reports using an output format with the NOLF filter will be rendered without TRIPsystem doing any sort of line planning. This did not have any effect for SHOW orders issued by TRIPjxp.

The TdbKernelWindow class will now keep track of the NOLF filter use in the retrieved window buffer. The toString() method will not apply linebreaks for output format reports generated using the NOLF filter. For applications that wish to render their own output, the line feed status for the current window buffer is available through the new isLinePlanned method.

Note that for SHOW orders from clusters with mixed output formats where some databases use a NOLF filter and some do not, the linefeed behavior is undefined for window buffers that contain information from more than one database.

This correction requires TRIPsystem version 8.1-0:4 or later.

New login attempt fails after first one failed [TRIP-5443]

If a login attempt has failed (e.g. due to incorrect password), the session could immediately become unusable. The intended behavior is that secondary login attempt should be possible to make without having to create new session object and try again with that.

Version 8.0-8

Corrected in v8.0-8

Record commit may not detect deleted field contents [TRIP-5280]

Removing all values from a field would cause TRIP not to update the field upon commit if the application implemented the following sequence:

- A new TdbRecord instance is created and populated with values.
- The TdbRecord instance is committed, creating a new record in TRIP.
- Using the same TdbRecord instance, a field is cleared from all values.
- The TdbRecord instance is committed again.

Version 8.0-7

Corrected in v8.0-7

Facet sorting does not always work [TRIP-5311]

Requesting a facet to be sorted by text descending or frequency ascending would instead yield the default sorting direction of text ascending and frequency descending, respectively.

The correction of this issue also involves changes to TRIPsystem. To ensure that this issue is not encountered, make sure to use TRIPsystem 8.0-7 or newer.



Version 8.0-6

News in v8.0-6

Property for overriding default facet timeout [TRIP-5310]

The `TdbFacet.setDefaultTimeout` method has been added. This static method can be used to override the default facet timeout (1800 seconds) so that the `TdbFacet.setTimeout` method does not have to be called for every facet request.

Corrected in v8.0-6

Error encrypting passwords and tickets [TRIP-5309]

In rare cases a user would not be able to log in even though the password was correctly specified. The same problem could also occur when logging in using a ticket instead of username and password.

The correction of this issue also involves changes to TRIPsystem. To ensure that this issue is not encountered, make sure to use TRIPsystem 8.0-6 or newer.

Version 8.0-4

New Features in v8.0-4

Ticket subsystem status property [TRIP-5293]

The `TdbSession.isTicketsEnabled()` method has been added. It returns true if the login ticket subsystem is enabled and the `requestLoginTicket()` method can be expected to succeed.

This feature requires TRIPsystem version 8.0-4 or later.

Ticket revocation method [TRIP-5292]

The `TdbSession.revokeLoginTicket()` method has been added. Use it to revoke the login ticket for the current user, or when logged in as SYSTEM to revoke the ticket for another user.

The example program `LoginTicket` has been extended to exemplify the use of the `revokeLoginTicket` method.

This feature requires TRIPsystem version 8.0-4 or later.

Check if a record has uncommitted changes [TRIP-5287]

The `TdbField` and `TdbRecord` classes have been extended with a new method `isChanged()` that returns true if the field or record contains uncommitted changes.

Corrected in v8.0-4

Graph edge records not retrievable [TRIP-5288]

Attempting to retrieve graph edge records from a `TdbGraphSet` instance would return an error message like "The record at index NNN is not a graph record."



The fix for this problem involves changes in both TRIPjxp and TRIPsystem. The minimum required version of TRIPsystem for use of graph functionality is therefore 8.0-4.

Version 8.0-2

New Features in v8.0-2

Info on current thesaurus [TRIP-5267]

The name and definition of the currently defined thesaurus is now available via the methods `getCurrentThesaurusName` and `getCurrentThesaurusDef` in the `TdbCclCommand` and `TdbSearch` classes. This thesaurus information is available after a CCL command has been executed via the related `TdbSearch` or `TdbCclCommand` instance, and that command has involved a thesaurus definition or the generation of a search set.

This feature requires TRIPsystem version 8.0-2 or later.

Version 8.0-1

New Features in v8.0-1

Access to facet baseline update count [TRIP-5261]

The count of values with a non-zero record count for facets that use baselines is now available via the `getUpdateValueCount` method of the `TdbFacet` class.

This feature requires TRIPsystem version 8.0-1 or later. For older versions of TRIPsystem, and for facets that do not use baselines, the `getUpdateValueCount` method will always return the same value as the `getValueCount` method.

Databases for data from TRIPcof import connectors [TRIP-5247]

Support for TRIPcof import connector databases has been added. Such databases have a pre-defined design required by TRIPcof import connectors and can be created by passing true to the `setConnectorDatabase` method of the `TdbDatabaseDesign` class.

This feature requires TRIPsystem version 8.0-1 or later.

Version 8.0-0

New Features in v8.0-0

Facet baseline reset [TRIP-5234]

This feature requires TRIPsystem version 8.0-0 or later.



The new `TdbFacet.setResetBaseline` method will, if assigned to true, cause the most recent record counts for the specified facet to be copied to the baseline, overwriting the previous baseline counts. This operation will keep the previous facet values, even values that have a baseline count of zero.

See the updated example program `facet/FacetBaseline` for an example of how to use this functionality.

Facet baselines with TRIP kernel support [TRIP-5219]

This feature requires TRIPsystem version 8.0-0 or later.

Facets that use baselines will with TRIPsystem 8.0 and later benefit from added performance and added features such as the option to have baseline values inline with the regular values, access of baselined facets without needing to perform a refinement, and access to any facet value without having to explicitly fetch ranges of values from the server.

The `TdbFacet` methods `setFetchFrom`, `setFetchTo` and `setBaselineSize` have been DEPRECATED. Please refer to the reference manual for information on how to modify your application.

The example applications `FacetSet` and `FacetBaseline` have been updated to illustrate the use of facets with and without baselines with version 8 of TRIPjxp and TRIPsystem.

The facet chapter in the "TRIPnpx & TRIPjxp Programmer's Guide" has been updated. Note especially the new example of how to retrieve an existing facet more efficiently (e.g. when displaying more values in response to a scrolling operation).

Formatted Values [TRIP-5203]

This feature requires TRIPsystem version 8.0-0 or later.

The new `TdbFieldFetchType.FormattedValue` enum can be used to request the result from an output format to be returned as if it were a text field value. Use with the `TdbFieldTemplate` class in search set retrieval templates.

See the new example program `data/FormattedValues` for an example of how to use this functionality.

Indicator for partial values [TRIP-5191]

This feature requires TRIPsystem version 8.0-0 or later.

The `TdbField.isPartial` method has been added. This method returns true if the retrieved value held by the `TdbField` instance is partial. Partial values are typically produced when requesting hit-focused, part-merged fragments from larger text or phrase fields.

Login tickets [TRIP-5182]

This feature requires TRIPsystem version 8.0-0 or later.

The `TdbSession` class now can be used to request a login ticket for a logged in user. This ticket can in subsequent logins be used instead of username and password to enable an SSO-like behavior in applications.



To use this feature, it must first be enabled in TRIPsystem. Please refer to TRIPsystem documentation for more information.

See the new example program session/LoginTicket for an example of how to use this functionality.

Field groups [TRIP-5135]

This feature requires TRIPsystem version 8.0-0 or later.

A new class TdbFieldGroupDesign has been added. It is used together with the TdbDatabaseDesign class in order to administer field groups, a new feature supported from version 8.0 of TRIP.

The TdbTupleList class has been given an additional constructor that can initialize a tuple list using a field group.

XML database storage space reduction [TRIP-5134]

TRIPsystem 8.0 introduced a new design for JSON/XML databases that uses less disk space than the previous design. As part of this overhaul, the default value for the StoreCopy property of the TdbXmlRecord class has been changed from true to false. If your application stores XML documents and still need to have binary copies included, make sure to call setStoreCopy(true) before committing the record.

JSON storage support for TdbXmlRecord [TRIP-5012]

This feature requires TRIPsystem version 8.0-0 or later.

The TdbXmlRecord class has been adapted to the JSON storage functionality in TRIPsystem 8.0. Both XML and JSON documents can be stored in XML databases, and retrieved as either JSON or XML regardless of the original format. XPath can also be used to search in documents whose original format is JSON.

64-bit record and hit counts [TRIP-5004]

This feature requires TRIPsystem 8.0-0 or later.

Record counts and hit counts for search sets and term lists are now available as 64-bit integer (long) values. New properties and methods for this purpose have been added to the classes TdbHistoryDetail, TdbTerm, TdbTermList, TdbRecordSet, TdbSearchSet and TdbFacetTermList.

Accessing a record count or hit count larger than Integer.MAX_VALUE (2147483647) via the older 32-bit properties will cause the value to be truncated to 2147483647.

Only applications that work with a very large number of records or need to operate on very large hit counts need to use the new 64-bit record count and hit count properties.



Corrected in v8.0-0

Unnecessary network I/O in TdbSearch [TRIP-5235]

The automatic retrieval template functionality of the TdbSearch class allows data to be retrieved by an application without explicitly having to specify the fields to retrieve. This template was always created upon successful completion of a CCL order that results in a search set, even if the application ends up not retrieve any data from the search set. This caused some unnecessary network I/O and slightly longer response times.

This behavior has been changed so that the automatic retrieval template, if enabled, is not created until it is known that a template will be needed. This change will result in a minor performance improvement.

Version 7.2-1

New Features in v7.2-1

Facet Baselines [TRIP-5129]

This feature requires TRIPsystem 7.2-1 or later.

A facet baseline enables the recall of a previous, initial set of facet values so that a new facet request can 1) include the previous counts as a comparison, and 2) add values from the baseline to the new result if the new result is smaller than the requested range.

A new example program FacetBaseline has been added to exemplify the usage of this new feature. It can be found in the `com.tietoenator.trip.jxp.examples.facet` package.

Database name for TdbHistoryDetail and TdbSearchSet [TRIP-5128]

This feature requires TRIPsystem 7.2-1 or later.

The name of the database or cluster that was used to produce a search set is now available via the TdbHistoryDetail and TdbSearchSet classes.

Corrected in v7.2-1

Risk for connection failure with large facets

When using the TdbFacet classes to generate facet values such that the total number of values for at least one facet exceeded 100, an incorrect request was sent by TRIPjxp to TRIPsystem that caused an instability that would result in a crash a couple of minutes later.



Version 7.2-0

New Features in v7.2-0

Save part of search history as procedure [TRIP-5111]

The TdbProcedure class has been extended with a method called saveSearch, that saves the CCL commands associated with a specified search set as a procedure, complete with dependent commands such as BASE and renumbered search set references (S=<num>).

A new example program "SearchProcedure" has been added to illustrate this new feature. It is available in the com.tietoenator.trip.jxp.examples.users package.

This feature requires TRIPsystem 7.2 or later.

DB designs from TdbDatabaseClusterDesign [TRIP-5110]

The TdbDatabaseClusterDesign class can now provide a list of all database designs for databases in a cluster, with nested clusters resolved. Use the new method getMemberDesigns() for this.

The TdbDatabaseClusterDesign.get() method can now be asked to resolve nested clusters into their constituent databases. Note that the TdbDatabaseClusterDesign instance will not support updating the cluster after this option has been used since it will represent derived information, not an actual cluster.

The new method getCommonFields() of the TdbDatabaseClusterDesign class provides access to a list of TdbFieldDesign instances that represent the fields common to all databases in the cluster.

A new example program "ShowCluster" has been added to illustrate these new features. It is available in the com.tietoenator.trip.jxp.examples.database package.

These new features require TRIPsystem 7.2 or later.

New field fetch types

New field fetch types have been added to the TdbFieldFetchType enum. When used, these new types provide additional control over what parts of a field of a record in a search set to retrieve.

Enhanced support for threaded applications

Parallel requests from multiple threads are now executed in invocation order, whereas they before would be executed in random/unpredictable order depending on JVM implementation.

Record fetch option can distinguish between databases for the same field name

It is now possible to set different field fetch options for the same field name in different databases. For example: the field db_A.D as TdbFieldFetchOption.Always and db_B.D as TdbFieldFetchOption.HitOnly.



HTML highlighting support for local use [JXP-107]

Extended the HTML conversion functionality of the TdbStringField class to support hit highlighting when a local TRIPcof or TRIPviewX installation is used.

Support for client-side use of TRIPviewX/TRIPcof

A local installation of TRIPviewX/TRIPcof can now be used in client-side mode when performing text extraction and HTML conversion.

Corrected in v7.2-0

TRIPjxp could hang indefinitely on server-side crash [JXP-108]

If the tbserver process crashes or is killed, there was a risk that TRIPjxp would hang indefinitely waiting for response data from the server.

Client-side text extraction and HTML conversion under Linux/UNIX [JXP-110]

Client-side text extraction and HTML conversion via TRIPviewX, TRIPview-C or TRIPcof did not work properly under non-Windows operating systems. There was a high risk that file path parameters sent to the text extraction and HTML conversion worker process would not be correctly formatted.

Risk for array bounds violation in client-side text extraction and HTML conversion [JXP-111]

There was a risk for an array bounds violation in the handling of response data from the client-side text extraction and HTML conversion routines.

Setting part id to retrieve a single part did not work [JXP-113]

Using the setPartId method of the TdbRecord class in order to retrieve a single part record had no effect.

Array bounds exception thrown if a TdbSearchSet contained a deleted record [JXP-114]

If a record is deleted using the TdbRecord.delete() method and a search immediately thereafter is conducted via the TdbSearch class such that the resulting search set contains the record, then an array bounds exception is thrown with a message like "Array index out of range: 9" when fetching records from the set using TdbSearchSet.

This error would only occur if the database was not indexed between the delete and the search operations.

As part of the correction for this issue a new property 'deleted' has been added to the TdbRecord class. This property will return true if the object represents a deleted record.

Access violation exception if not logged in to session [JXP-115]

If a TdbSession object has been created but the login() method has not been successfully called, TRIP will crash on an access violation if TRIPjxp is nevertheless being used.



TRIPjxp will now prior to any call that is not a login/authentication check the state of the session and throw a `TdbException` with code `TdbException.NOT_LOGGED_IN` if the login method has not been successfully called.

Version 3.1-0

New Features in v3.1-0

Graph search and navigation [JXP-70]

This feature requires TRIPsystem 7.1 or later.

A package `com.tietoenator.trip.jxp.graph` has been added. This package contains APIs for the use of graph databases in TRIP. For more information, please refer to the Programmer's Guide.

This feature requires TRIPsystem 7.1 or later.

Graph support is EXPERIMENTAL in version 7.1 of TRIPsystem and version 3.1 of TRIPjxp. Its use is encouraged and Tieto would like feedback on it. This feedback will help determine the future direction of the development of graph database support in TRIP.

New method `TdbSearch.addSearchSet` [JXP-97]

This new method can be used to add a pre-existing search set to a `TdbSearch` instance, which then assumes control over it. Once added, a `TdbSearchSet` instance can be obtained for the search set.

This feature requires TRIPsystem 7.1 or later.

`TdbSession.isConnected` [JXP-106]

A method `isConnected` has been added to the `TdbSession` class. This reports true if the session is connected to the server via a socket or if the session is web or local. False is returned for networked sessions that no longer have an active socket connection to the TRIP server.

This method is useful if TRIP access code is implemented in object finalizers that may be executed by the runtime after the session has been terminated.

Version 3.0-8

New Features in v3.0-8

Copy method for `TdbRecord` [JXP-105]

A new method "copy" for record copying has been added to the `TdbRecord` class. It is strongly recommended that all existing record copying routines in TRIPjxp applications are modified to use this new method if possible. This is because it will offer better performance, plus that it fully supports `STRING` fields, values of which may silently be omitted from the copy when using TRIPjxp version 2.1-3 or later.



This functionality requires TRIPsystem 6.2-11 or later or TRIPsystem 7.0-4 or later in order to work.

Corrected in v3.0-8

Committing records from a TdbLocalSession fails [JXP-103]

Committing a new or modified record in a TRIPjxp application that uses a TdbLocalSession to connect to TRIP would throw a NullPointerException.

Using XML special characters in names may cause exception [JXP-104]

Using XML special characters in record name and part record values could cause a TdbException to be thrown. E.g. when a quotation mark was used in the name of a record being inserted, updated or retrieved.

Version 3.0-7

Corrected in v3.0-7

Upload of STRINGs larger than 2MB failed to DB w/o record names [JXP-102]

Uploading a value larger than 2MB to a STRING field in a database would fail if either 1) the STRING field is in a part record and there is no part name field, or 2) the STRING field is in the head record and there is no record name field.

This issue was also fixed in the 2.1 release series in TRIPjxp version 2.1-11.

Version 3.0-6

New Features in v3.0-6

Support for pessimistic record locking [JXP-100]

Methods lock() and unlock() have been added to the TdbRecord class in order to support pessimistic (exclusivie) record locking. This kind of locking differs from the default optimistic locking in that it blocks other user's attempts to update the record until the lock is released.

This feature requires TRIPsystem 7.0-3 or later.

Corrected in v3.0-6

INI-file argument to TdbTripNetSession constructor ineffective [JXP-99]

The TdbTripNetSession constructor with four arguments takes as its third argument the name of a server-side session initialization (INI) file. The value passed to this argument did not get transferred correctly to the server, which led to the INI-file being ignored.

Initialization of local TRIPcof use fails [JXP-101]

TRIPjxp attempted to load the TRIPcof file filter configuration file using an invalid path. This resulted in TRIPcof being impossible to use locally from TRIPjxp.



Version 3.0-5

Corrected in v3.0-5

Client-side use of TRIPcof/TRIPview-C not working under Unix [JXP-96]

Use of a local installation of TRIPview-C or TRIPcof to perform text extraction or HTML conversion did not work correctly on Linux and Unix systems. Use of a server-side installation of TRIPview, TRIPview-C or TRIPcof was unaffected by this issue.

Use of TdbPoolInitializer could cause crash [JXP-98]

There was a risk for a TdbException to be thrown when the TdbPoolInitializer was used for the execution of TRIP statements that will apply to the entire lifetime of a pooled session.

This issue was also fixed in the 2.1 release series in TRIPjxp version 2.1-10.

Version 3.0-4

New Features in v3.0-4

Activity logging for connection pools [JXP-93]

Activity logging is now supported in the TdbConnectionPool class. Assign a TdbActivityLogger instance to a pool using the new setActivityLog method. This will log the activity of the pool itself for problem analysis purposes.

This feature was also added to the 2.1 release series in TRIPjxp version 2.1-9.

Overloaded acquire() method with timeout / blocking behavior [JXP-94]

The TdbConnectionPool class has been given a new overloaded version of the acquire() method. It takes a long integer as argument that denotes a period in milliseconds to wait until a session becomes available if one is not available immediately.

This feature was also added to the 2.1 release series in TRIPjxp version 2.1-9.

Session pool initialization [JXP-95]

A new interface TdbPoolInitializer has been added to TRIPjxp. When a class implementing this interface is assigned to the connection pool right after it has been created, the pool initialization method will be called for each session added to the pool.

The use of this new interface is strongly recommended in high-load situations when several operations need to be done (e.g. opening databases, defining views, executing defines, etc) prior to the actual operation the application requires.

This feature was also added to the 2.1 release series in TRIPjxp version 2.1-9.



Corrected in v3.0-4

Risk for NullPointerException in TdbSession.licensedProducts() [JXP-92]

If the TRIP license contains information about a (new) TRIP product that TRIPjxp does not know about, the licensedProducts() method would throw a NullPointerException when called.

This issue was also fixed in the 2.1 release series in TRIPjxp version 2.1-9.

Version 3.0-3

New Features in v3.0-3

Support the TRIPview-C product [JXP-85]

TRIPjxp can now detect the TRIPview-C product in the license of the currently connected TRIPsystem installation. The TdbProduct enumeration has been modified accordingly and documentation that refer to TRIPview has been modified when it also applies to TRIPview-C.

NOBAF option for TdbDatabaseList [JXP-89]

Using the TdbDatabaseList class to generate a list of databases now supports a NOBAF parameter to the constructors. Setting this to true causes the list to be produced without any access to the BAF files of the databases. This gives better performance in situations with a large number of databases and when the BAF files are stored on a storage medium with slower access times.

Using the NOBAF parameter set to true means that information that is solely stored in the BAF file will not be returned. This includes the record count, which instead will be reported as the last total number of indexed records (any unindexed records will not be reported). Neither will the time for the last database update be reported.

This feature requires TRIPsystem 7.0.1 or later, and databases must be reindexed with in order for the count of indexed records to be correctly reported.

Corrected in v3.0-3

Documentation incorrect for TdbControlObject.getManagerRights [JXP-86]

The bitmask returned by the getManagerRights method of the TdbControlObject class was incorrectly documented. It said that bit 0 indicates file management and bit 1 indicates user management, while it actually is the other way around.

TdbControlObject.isFileManager returned incorrect value [JXP-87]

The isUserManager method of the TdbControlObject class returned true only if the control object represented a user that is a user manager.

TdbControlObject.isUserManager returned incorrect value [JXP-88]

The isUserManager method of the TdbControlObject class returned true only if the control object represented a user that is a file manager.



Data retrieval from databases with classification schemes failed [JXP-90]

Retrieval of data from any database with a classification scheme associated with it always failed with an exception indicating an out of memory error.

Version 3.0-2

New Features in v3.0-2

TdbTextExtractionInfo.ExtractFromStored property added [JXP-79]

While it has been possible to extract text from data previously stored in a STRING field, the support for this has been depending on ambiguous use of programming interfaces and success has been context dependent.

To reduce ambiguity, the TdbTextExtractionInfo class has been extended with a new property [get|set]ExtractFromStored that must be set to true if text extraction is to be done from a value previously stored in the STRING field referred to by the BinaryCopyField property. It is still also necessary to set the FileName property, but this is to inform TRIPview/TRIPcof of the file name/type. The file itself does not have to exist, nor does it get transferred to the server.

This functionality requires TRIPsystem 6.2-9:20 or later or TRIPsystem 7.0-0:4 or later in order to work.

This feature was also added to the 2.1 release series in TRIPjxp version 2.1-8.

Use TdbStringField for text extraction via TextExtractionInfo [JXP-83]

It is now possible to use the data assigned to a TdbStringField instance (via the setBlob() or copyFromFile()) in text extraction specified via TdbTextField.getTextExtractionInfo().

This works so that when the new method TdbTextExtractionInfo.setStringField() is assigned a non-null value, text extraction will be performed from any value assigned to the provided TdbStringField instance. This works like if the file data had been provided to TdbTextExtractionInfo.setStream().

When the TdbTextExtractionInfo.setStringField() property is assigned a non-null value, any value passed to TdbTextExtractionInfo.setStream() will be ignored. The TdbTextExtractionInfo.setFileName() method is still required, though.

Note that if text extraction is to be performed from a value already stored in a string field, it is better not to include the TdbStringField instance at all in the TdbRecord object used for commit. In this case, pass 'true' to the TdbTextExtractionInfo.setExtractFromStored() method instead.

This functionality requires TRIPsystem 6.2-9:20 or later or TRIPsystem 7.0-0:4 or later in order to work.

This feature was also added to the 2.1 release series in TRIPjxp version 2.1-8.



Corrected in v3.0-2

Invalid characters from text extraction not handled [JXP-77]

Text extraction (and re-extraction when creating an HTML conversion with highlight) using TRIPview or TRIPcof may sometimes produce characters that are not valid in XML text. This will result in the text not being possible to import into TRIP.

Text extraction using TdbStringField may fail [JXP-78]

Text extraction from data added to a STRING field using the ExtractionTarget property of the TdbStringField class in TRIPjxp did not work if copyFromFile was used to load data into the field and setExtractionTarget was called with 'true' before the call to copyFromFile.

The operation would fail silently without throwing an exception or otherwise indicating any error. It would appear to succeed, but no content would be extracted to the referred TEXT field.

This fix was also introduced into the 2.1 release series in version 2.1-8.

Using TextExtractionInfo without setting Stream may fail [JXP-80]

Using TdbTextField.TextExtractionInfo to perform text extraction without setting the Stream property would not work properly against TRIPsystem versions older than 6.2-9:8

This problem occurs with TRIPjxp versions 2.1-4 - 2.1-7 and 3.0-0 - 3.0-1. This fix was also introduced into the 2.1 release series in version 2.1-8.

Text extraction update to named part records fails [JXP-81]

Text extraction (using the classes TdbTextExtractInfo and TdbTextField) during update of a record does not work if the database has a part record name field defined. The operation appeared to succeed (no error reported), but the contents of the TEXT and STRING fields would be incorrect. Depending on usage scenario, either of these fields would be empty or retain the old value.

This problem occurs with TRIPjxp versions 2.1-4 - 2.1-7 and 3.0-0 - 3.0-1. This fix was also introduced into the 2.1 release series in version 2.1-8.

TdbComponent.setName(String) fails [JXP-82]

Creating a part record with a part name field always failed. The assignment of the name of the new part using the setName(String) would fail with an exception being thrown.

This fix was also introduced into the 2.1 release series in version 2.1-8.



Version 3.0-1

New Features in v3.0-1

Keyword and metadata analysis [JXP-69]

TRIPjxp now supports keyword and metadata analysis of text in records using TRIPcof and TRIPnlp. Analysis is performed upon commit of a new or modified record if the TdbNlpInfo instance accessible via the TdbRecord.getNlpInfo() method has been configured.

This feature requires TRIPsystem 7.0 or later with TRIPcof installed on the server side. TRIPnlp or a custom text analysis adapter for TRIPcof is also required.

Use TRIPview for HTML conversion and text extraction [JXP-73]

The TdbStringField.convert() method can now be used with a local installation of TRIPview 3.0 or later.

The client-side text extraction behavior of the TdbRecord class via the TdbTextExtractionInfo class can now be used with a local installation of TRIPview.

New method TdbSearchSet.delete() [JXP-74]

A new instance method delete() has been added to the TdbSearchSet class. This method should be used for the deletion of individual search sets created via a TdbSearch instance instead of explicitly issuing a DELETE CCL order.

This feature was also added to the 2.1 release series in TRIPjxp version 2.1-6.

Corrected in v3.0-1

Risk for NullPointerException in TdbStringField.convert() [JXP-75]

The TdbStringField.convert method could throw a NullPointerException when used with a STRING field containing more than 1MB of data.

Fetching large STRING values from part records [JXP-76]

Incorrect part record information is can be supplied by TRIPsystem for the retrieval of large (>2MB) string field values. This causes STRING values for part record 2..N to always be fetched from the first part record instead.

When storing a large (>2MB) STRING field value for part record nr 2..N, the STRING value for the last part record would be assigned to all part records. This was due to missing part record information in the communications between TRIPsystem and TRIPjxp for the stream transfer of large binary values.

TRIPsystem version 6.2-9:18 or later and version 7.0-0:3 or later are also required on the server side to make part record storage work correctly.

This problem occurs in TRIPjxp versions 2.1-3 - 2.1-6 and in 3.0-0. This fix was also introduced into the 2.1 release series in version 2.1-7.



Version 3.0-0

New Features in v3.0-0

Client-side text extraction [JXP-46]

Added support for client-side text extraction using a local TRIPcof installation. Assign the ClientSide property to true on the TdbTextExtractionInfo instance for the text field in which to store the extracted text.

Do not pass file data using the only the Stream property; either pass the name of an existing local file using the FileName property, or pass the file data using a Stream and the name of the file in the FileName property.

This feature requires a local installation of TRIPcof. For usage, please look at the new sample program CofExtract and the Programmer's Guide.

Client-side HTML conversion [JXP-47]

Added support for client-side HTML conversion using a local TRIPcof installation. Use the new method TdbStringField.Convert to perform client-side conversion operations.

This feature requires a local installation of TRIPcof. For usage, please look at the new sample program CofConvert. and the Programmer's Guide.

TdbControlObjectList.contains methods added [JXP-48]

The TdbControlObjectList class has been enhanced with two new versions of the contains method. One takes a name and a type and the other a name only. These can be used for more straight-forward checking of existence, e.g. the membership of users in groups.

Also see the new example ListCheckMember.

Session encryption [JXP-59]

Support for encrypted sessions has been added. To establish an encrypted session, use one of the new overloaded constructors for the TdbTripNetSession class.

This feature requires TRIPsystem 7.0 or later to benefit from. With older versions of TRIPsystem, requesting an encrypted session will result in an error.

On-demand term lists [JXP-60]

Support for term lists whose values are retrieved on demand has been added to the TdbSearch and TdbCclCommand classes. Terms from such term lists are retrieved on demand and in blocks of 100 terms each, which improves retrieval performance for large term lists. This behavior can be enabled using the setUsePagedTermLists (available on both the TdbCclCommand and TdbSearch classes).

Multiple on-demand term lists can also be used concurrently. See the new example program TermLists for an illustration of this behavior.



NOTE: The interface of the TdbTermList class has changed slightly in order to accommodate this enhancement. If you built your application using a version of TRIPjxp older than 3.0, you should recompile your application in order to check if you have to make any modifications to your code prior to deploying TRIPjxp.

This feature requires TRIPsystem 7.0 or later to benefit from. With older versions of TRIPsystem, all terms from a term lists will always be returned as a result of the DISPLAY command.

Facet classes [JXP-61]

A new package com.tietoenator.trip.jxp.facet has been added that contains classes for generation of facets based on regular field-based term lists, KVP term lists, record classification and collections of searches.

A new example program FacetSet is provided. It illustrates the use of all four types of facets.

This feature requires TRIPsystem 7.0 or later to benefit from.

Access to database file location names [JXP-63]

A class TdbLocations in the com.tietoenator.trip.jxp.databases package has been added. This class provides access to TRIP configuration entries that map to directory paths so that the corresponding symbols can be used as location names by custom database creation and alteration routines.

This feature requires file or system manager privileges in order to use.

Retrieve control object for a single database [JXP-66]

The TdbDatabaseList class has been extended with an additional constructor to make it able to return a control object for a single, named database, thesarus or cluster.

This feature requires TRIPsystem 7.0 or later for best efficiency, but will work with older versions as well.

Synchronous indexing of databases [JXP-71]

The TdbDatabaseDesign class has been extended with a new overloaded index method that can be used to order incremental indexing and reindexing, both in batch mode and synchronously. Note that synchronous indexing may take a long time if there is a large number of records to index.

This feature requires TRIPsystem 7.0 or later in order to work.

Synchronous indexing of single records [JXP-72]

The TdbRecord class has been extended with a boolean property IndexOnCommit (setIndexOnCommit/getIndexOnCommit). By setting this to true before committing a new or updated record, the record will be synchronously indexed as part of the commit operation.

Note that batch oriented indexing remains best practise with TRIP. If synchronous indexing of single records is utilized to a great extent with a database, the scheduling of a reindex of the database from time to time is highly recommended.



This feature requires TRIPsystem 7.0 or later in order to work.

Corrected in v3.0-0

Extracting text from file with ampersand in the filename fails [JXP-55]

Any call from TRIPjxp to TRIPview or TRIPcof to extract text from a file with an ampersand '&' in its name would fail.

Database language information missing from TdbDatabaseDesign [JXP-64]

The TdbDatabaseDesign class does not provide any information about the natural language of the text in the database, nor is it possible to define this.

Chinese segmentation type "Word" not exposed [JXP-65]

The chinese segmentation types All and Max are supported by the TdbDatabaseDesign class, but the type Word is reported as None. Neither is it possible to define segmentation type Word for a chinese database.

Version 2.1-6

New Features in v2.1-6

New method TdbSearchSet.delete() [JXP-74]

A new instance method delete() has been added to the TdbSearchSet class. This method should be used for the deletion of individual search sets created via a TdbSearch instance instead of explicitly issuing a DELETE CCL order.

This feature was also added to TRIPjxp 3.0 as per the 3.0-1 release, because version 2.1-6 was released after 3.0-0.

Version 2.1-5

Corrected in v2.1-5

TdbDatabaseDesign.getVifFile returns BAF file name [JXP-62]

When retrieving the name of the VIF file for a database using the getVifFile() method of the TdbDatabaseDesign class, the BAF file name would be returned instead.

String field values may get deleted on update [JXP-67]

When updating a record containing a string field, the string field value may get deleted if it has not been altered by the application. This problem applies to TRIPjxp version 2.1-3 and 2.1-4 when used with TRIPsystem version 6.2-9:7 or newer.

TdbDateform throws exception on partial TRIP dates [JXP-68]

A TRIP DATE value may be specified with only its year component, as well as with only its year and month component. TRIPjxp throws an exception from the TdbDateform.formatDate(String) method when trying to parse such a date.



Version 2.1-4

New Features in v2.1-4

Improve STRING field upload performance [JXP-58]

When uploading a value to a string field or to server-side text extraction, TRIPjxp may run out of memory alternatively time out when committing the new (or new version of a) record.

The string field value upload behavior has been changed so that large values are uploaded to the server in smaller chunks, which lowers memory and CPU consumption.

This feature requires TRIPsystem 6.2-9:8 or later to benefit from. With older versions of TRIPsystem, string value upload behavior will be the same as before.

Version 2.1-3

New Features in v2.1-3

Improve STRING field download performance [JXP-56]

When retrieving records containing large string fields, the memory usage requirements are extremely high. Fetching a single record with 100MB of binary data have been known to cause client applications to run out of memory. The same problem can manifest also with smaller string field values when retrieving a set of several records where the total size of the binary data is high.

When used with TRIPsystem version 6.2-9:7 or later, TRIPjxp will now fetch string field values on demand by utilizing a streaming mechanism added to the XPI protocol in the aforementioned version of TRIPsystem. This will lower memory usage and reduce the overall retrieval and processing time for records and search results.

This feature requires TRIPsystem 6.2-9:7 or later to benefit from. With older versions of TRIPsystem, string values will be fetched inline like before.

Corrected in v2.1-3

TdbException.getMessage() not complete [JXP-57]

The getMessage() method of the TdbException class would in some cases not return a stack trace. Stack traces for nested exceptions would only be one level deep.

Version 2.1-2

New Features in v2.1-2

TdbDatabaseDesign.getOwnerName method added [JXP-50]

The TdbDatabaseDesign class has been enhanced with a method getOwnerName that returns the name of the user who owns the database.



This feature requires TRIPsystem version 6.2-8:4 or later.

Filename field name for HTML conversion [JXP-53]

There are now new constructors for the classes TdbRendition and TdbHighlightRendition that take the name of a phrase field. This phrase field must contain the original name of the file stored in the string field that is about to be converted to HTML.

This information is necessary for TRIPview so that it will better be able to identify the type of the file. If the original file name is not known to the HTML converter, there is a risk that the conversion will fail.

This feature requires TRIPsystem version 6.2-9 or later.

Access rights via group memberships from TdbUserAccessList [JXP-54]

A new constructor to TdbUserAccessList has been added that takes a boolean parameter that indicates if access rights granted via group memberships also should be returned.

This feature requires TRIPsystem version 6.2-9 or later.

Corrected in v2.1-2

Invalid exception from TdbSearchSet.clearCache() [JXP-51]

The clearCache() method in the TdbSearchSet class would incorrectly throw an exception if called before at least one record was returned to the application via the current TdbSearchSet instance.

No output to activity log if server exits prematurely [JXP-52]

The TRIPjxp activity log would not produce any output for an XPI transaction if the server hangs or crashes. Neither request nor response would get logged.

Version 2.1-1

New Features in v2.1-1

Support for search comforters [JXP-45]

Support for search comforters has been added to TRIPjxp. This makes it possible to get regular notifications ("searching...") from the server for lengthy queries, and also enables applications to abort such queries.

The sample TRIPtty.java has been extended to include comforter notification support.

This feature requires TRIPsystem 6.2-8 or later.



Version 2.1-0

New Features in v2.1-0

Open up for segmentation type "Word" [JXP-39]

Enabled assignment of the Chinese text segmentation type "Word" to a database design. Existing database designs with this segmentation type will be correctly shown as "Word" instead of "None", which also is used in TRIPjxp for unknown or invalid segmentation values.

XPath as Query Language [JXP-40]

Enhancements have been made to the TdbSearch, TdbRecordSet, and TdbCclCommand classes so that they can be used to query TRIPxml databases using XPath expressions.

This feature requires TRIPsystem 6.2-5 or later and TRIPxml 3.0 or later. Please refer to the TRIPxml manual for valid XPath syntax.

XML Fragment Retrieval [JXP-41]

It is now possible to retrieve XML fragments from a search set containing XML records. The node set that form the roots of the fragments is specified by an XPath expression via the new TdbSearchSet method asFragmentSet().

This feature requires TRIPsystem 6.2-5 or later and TRIPxml 3.0 or later. Please refer to the TRIPxml manual for valid XPath syntax.

Corrected in v2.1-0

TdbTuple.setValue(String,String) always throws exception [JXP-43]

Using the TdbTuple.setValue(String,String) method to assign a value to a tuple always results in an exception being thrown saying that "There is no field <1> in this tuple list."

Exception when creating a record in DB with a record id field [JXP-44]

Creating a new record in a database with a record id field may throw an exception in TRIPjxp upon completion. The record will be successfully created, however.

Version 2.0-4

Corrected in v2.0-4

Changing password for another user does not work [JXP-37]

Being logged on as SYSTEM and using the resetPassword method of the TdbUser class to change the password for another user did not work. Success would be reported, but the password had not changed into the specified new password. The old password would not work either after the resetPassword call.



Changing password for current user does not work [JXP-38]

Using the `changePassword` method of the `TdbUser` class to change the password of the current user did not work. The request would fail with the message "invalid arguments passed to function".

Version 2.0-3

New Features in v2.0-3

Control object method for checking if a database is XML enabled [R1460]

The `TdbControlObject` class has a new method `isXmlEnabled()`, which returns true if the database that the control object represents is XML enabled.

Enable custom ASE calls for insert and update of records [R1457]

It is now possible to assign names of ASE routines to call when updating or inserting a record. The `TdbRecord` class has two new methods for this: `insertAseList` and `updateAseList`. Add the names of the ASE routines to call to these lists, and they get called in order.

There is a new section at the end of chapter 7 in the TRIPnpx & TRIPjxp Programmer's Guide that explains this feature.

This behavior requires TRIPsystem 6.2-4 or later.

Version 2.0-2

New Features in v2.0-2

Automatically close idle sessions in connection pool [R1415]

It is now possible to have a connection pool automatically close sessions that have been idle for more than a specified number of seconds.

New properties have been added to the `TdbConnectionPool` class to accomplish this; `purgeInterval`, `idleTimeout` and `minIdle`.

Version 2.0-1

New Features in v2.0-1

Finer control when specifying what to fetch from a TEXT field [R1411]

The `TdbFieldTemplate` class has changed so that the 'focus' property now is split into three different modes. 'Focus' means to only fetch a keyword-in-context representation of a field with hits. If no hits are available, nothing will be returned. 'Extract' means to extract a specified number of characters from the start of the field. 'FocusOrExtract' first attempts to do a keyword-in-context, but if the field contains no hits, then the specified first number of characters from the field will be returned instead. This corresponds to the behavior in version 2.0-0 and earlier.



All the new fetch modes for a field is available via the new enum `TdbFieldFetchType`. The `TdbFieldTemplate` properties `Focus` and `Summary` are marked as obsolete and will be removed in the next major release.

Proper use of the `TdbFieldTemplate` class requires TRIPsystem version 6.2-2 or later. Earlier versions of TRIPsystem will also work, but the fetch types 'Extract' and 'Focus' will not work.

Version 2.0-0

New Features in v2.0-0

Method `TdbDatabaseClusterDesign.remove()` added [R1404]

A `remove()` method has been added to the `TdbDatabaseClusterDesign` class in order to make removal of cluster members easier.

Get field value size [R1372]

The total size of the value in a field can now be accessed via the `TdbField` method `getFieldSize()`.

If the application only needs the size of the field and not the value itself, note that a significant overhead can be incurred. In order to avoid that, there is a new method `setFieldContent(boolean)` on the `TdbFieldTemplate` class that, if passed 'false', disables retrieval of the field value while retaining the capability to return the size of the field value to the application.

This behavior requires TRIPsystem 6.2-1 or later.

Access field template collection via `TdbRecord` [R1346]

The class `TdbRecord` contains a new method "getFieldTemplates", that returns an `Iterator<TdbFieldTemplate>` object that can be used to inspect the field templates in a retrieval template.

FieldCount property for `TdbDatabaseDesign` [R1345]

The new `TdbDatabaseDesign` method `getFieldCount` provides a count of the number of fields in the database design.

New class: `TdbSearch` [R1344]

The new class `TdbSearch` provides a search interface that combines the best of the classes in the `ccl` and `data` packages with features gathered from best practices and observations regarding ease of use of search capabilities in earlier versions of TRIPjxp.

The `TdbSearch` class is demonstrated in the new examples "Search" and "SearchSetIteration".

The `TdbSearch` class is EXPERIMENTAL in this release.



Support for thesaurus-based searching in TdbRecordSet [R1333]

Via the new method `setThesaurus` on the `TdbRecordSet` object, it is now possible to define a thesaurus to use with the CCL order. This makes it possible to use thesaurus-specific syntax, e.g. `DOWN()` and `UP()`.

Access record timestamp through TdbRecord [R1316]

Via the new method `getTimeStamp()` on the `TdbRecord` object, it is now possible to get a Java Date version of the timestamp for stored records.

Record ID available for new records [R1305]

When creating a new record using the `TdbRecord` or `TdbXmlRecord` classes, the method `getRecordId()` returns the record ID of the new record after successful completion of the `commit()` call.

TdbDateform capable of formatting TRIP time stamps [R1300]

It is now possible to use the `TdbDateform` class to format TRIP time stamp values such as returned by the `LastUpdate` property of the `TdbDatabaseDesign` class.

Session isolation for connection pools [R1291]

It is now possible to control the session isolation behavior for connection pools. By default, sessions in pools are isolated from each other, but this may now be disabled, so that the automatic `SAVE/LOAD STATUS` that otherwise generate network I/O is not performed.

Support for TRIPxml 2.x added [R1124]

Via the new class `TdbXmlRecord`, it is now possible to import and export documents to/from a TRIPxml database. This feature requires TRIPsystem version 6.2-1 or later.

Corrected in v2.0-0

Exception thrown when saving database cluster design changes [B1403]

Modifying a cluster via an instance of the `TdbDatabaseClusterDesign` class initialized via a call to `get(string)` would cause an exception to be thrown when calling the `put()` method to commit the changes.

Base64 routines produce invalid encoding [B1294]

The Base64 encoding is used to transmit `STRING` field values and output format results via the XPI protocol.

Unfortunately, the data produced by the the encoder and decoder was not valid according to the RFC 4648. In order to fix this problem, the server-side base64 routines has been modified. The client-side decoder in `TRIPjxp` has consequently also been modified to reflect the necessary changes.

One of the noticeable symptoms of this were that output data could sometimes be a couple of bytes larger than what was originally sent in.



A side effect of this bug fix is that when connecting to a TRIPsystem installation older than version 6.2, the login attempt will at first fail even if a correct password was provided. TRIPjxp will then automatically fall back to the old version of the Base64 encoding and retry the login. The user will not notice anything, but the two separate login attempts can be detected on the server if logging is enabled.

Version 1.3-4

New Features in v1.3-4

Access to the did-you-mean facility [R1256]

In preparation for the release of TRIPsystem 6.2, the classes TdbCclCommand and TdbRecordSet have been enhanced with the property getter method `getDidYouMean()`. When used with TRIPsystem 6.2 and later, any FUZZ command issued can result in a suggestion for an alternative query that is likely to give a greater amount of hits.

Corrected in v1.3-4

Less-than sign in command text caused corrupt XPI request [B1250]

A TdbException with the message "illegal order part" was thrown when searches were done via the TdbCclCommand class using the lower-than-or-equal operator, e.g. "FIND FLD<=2009".

When searching via the TdbCclCommand class using the lower-than operator (e.g. "FIND FLD<2009") invalid hits or no hits at all would be returned.

Version 1.3-3

Corrected in v1.3-3

Months incorrectly parsed in TdbDateform.formatTimestamp [B1221]

The month in the timestamp string produced by the TdbDateform.formatTimestamp method is incorrect. The method produces April for March, November for October, etc.

Risk for exception in TdbDatabaseAccess.get for empty scopes [B1244]

The server may sometimes send an XPI response with an empty node for a read or write scope where TRIPjxp assumed the existence of a text node for the scope definition. This special case was incorrectly handled in TRIPjxp when parsing the response.



Version 1.3-2

New Features in v1.3-2

TRIPgrid added to TdbProduct enum [R1199]

TRIPgrid has been added to the TdbProduct enumeration, which makes it possible to check if the license on the currently connected server includes TRIPgrid.

Corrected in v1.3-2

Record name not parsed for databases not owned [B1214]

The structure of the BASE_RES message from the server when calling the TdbDatabaseDesign methods get() or get(name) is different depending on whether the logged on user is the owner of the database or not.

TRIPjxp did not pick up the record name correctly if the logged on user is not the owner of the requested database design.

Version 1.3-1

Corrected in v1.3-1

Removal of all values from a field not working [B1182]

If all values in a structured field were removed (e.g. via the TdbField.clear() method), no information about the removal was sent to the server upon commit. This resulted in that the field was totally unaffected, and the values remained in the field. This applies to structured fields only.

Version 1.3-0

New Features in v1.3-0

Tuple lists [R1152]

Tuple lists are now supported via the two new classes TdbTupleList and TdbTuple for all fields that are capable of having subfields, i.e. fields of type Phrase, Integer, Number, Date and Time.

There is a new section 8 in the Programmer's Guide that describes how to use tuple lists. There is also a new example program named "Tuples".

New method TdbField.getValueCount [R1158]

The method TdbField.getValueCount has been added that reports the number of values (subfields) in the current field.

Previously, the only way to get a subfield count was to access the list returned by the values() method. This was not optimal, since that collection is re-created every time it is accessed.



Value insert method for TdbField [R1159]

The method `TdbField.insertValue` has been added that enables the insertion of a value in the middle of the value list (subfields).

Value remove method for TdbField [R1160]

The method `TdbField.removeValue` has been added that enables the removal of a single value from a field. The only way to accomplish this prior to release 1.3-0 was to clear all values from the field, the adding the required ones back.

Date format conversion class [R1170]

There is a new class called `TdbDateform` that offers methods for conversion of Java Date objects to and from the current TRIP date format. It is accessible via the method `getCurrentDateform()` on the `TdbSession` class.

Finer granularity for TdbConnectionPool synchronization [R1171]

The synchronization in the `TdbConnectionPool` class is now more fine grained, which allows more instructions to be run without any need for synchronization.

Corrected in v1.3-0

Setting a numeric field to an empty string caused exception [B1161]

Passing an empty string to a numeric field caused TRIPjxp to throw an exception upon format validation.

Exception thrown if decimal separator in locale is not a dot [B1162]

The TRIPxpi server-side library does not accept any other decimal separator than a dot. A locale that specifies something else, e.g. a comma, caused a formatting error.

Field values passed to and obtained from the `TdbNumberField` class now uses the decimal separator as defined in the current locale. Any required conversion is done internally by TRIPjxp.

Calling TdbRecord.setRecordName could throw an exception [B1168]

Calling `TdbRecord.setRecordName` on a new record would throw an exception if the head component contained a `TdbField` object for the record name field and no value previously existed.

Version 1.2-2

New Features in v1.2-2

Unicode session awareness [R1143]

As per TRIPsystem 6.0-2, the TRIPxpi always starts sessions in unicode mode. The methods `TdbSession.setCharacterSet()` and `TdbSession.setCharacterSetName()` are now able to return the unicode character set enumerated type and name instead of incorrectly reporting `ISOLatin1/LA1` as the fallback for an unknown character set.



Corrected in v1.2-2

Exception thrown when using TdbRecordSet without a retrieval template [B1138]

Using the TdbRecordSet without a retrieval template as documented on page number 39 in the Programmer's Guide threw a NullPointerException instead of reporting the number of records found.

Version 1.2-1

New Features in v1.2-1

Connection pool shutdown

A method close() has been added to the TdbConnectionPool class. Call it to cleanly shut down the pool on application exit.

Re-establishing broken pooled sessions

The TdbConnectionPool class will now attempt to re-establish broken sessions (e.g. ones that have lost connection to the server).

Two new properties, RestoreRetries and RestoreDelay, have been added to support this behavior. The RestoreRetries property represents the max number of retries to use for re-establishing a broken session. The RestoreDelay property represents the number of milliseconds to wait between session attempts to re-establish a broken session.

Version 1.2-0

New Features in v1.2-0

Modified property access method names

Property accessors (get/set) are now named using the JavaBean naming conventions wherever possible.

Language support for connection pools

A connection pool can now be associated with a CCL dialect.

Connection pool limit and size

Two new properties on the TdbConnectionPool class (Limit and Size) allows for control of the number of sessions that can be maintained by the connection pool.

TRIPview 2.0 HTML highlighting

The class TdbHighlightRendition was added to support the retrieval of highlighted HTML conversions of STRING field contents. Use of this feature requires TRIPview 2.0 on the server.



List property for assigned classification categories

Via the method `getCategories()`, the `TdbRecord` class can return a list of assigned classification categories for the record. This list will be empty unless the database is configured with a classification scheme.

Reverse retrieval of record sets

Setting the property `RetrieveReversed` on a `TdbRecordSet` instance can be used to retrieve the requested set of records in reverse order. This is equivalent of the CCL command "SHOW REVERSE".

Version 1.1-0

New Features in v1.1-0

Local session support

TRIPjxp now supports local sessions via the `TdbLocalSession` class. Local sessions connect to TRIPsystem running on the local machine via direct JNI calls to the TRIP kernel. In order for this to work, the following requirements must be met:

- The JAR file "tripjxp_local.jar" must be on the CLASSPATH.
- The JNI library `jxplocal` (i.e. "JXPLOCAL.DLL" on, or `libjxplocal.so` on Linux/Unix) must be on the library path, or specified using the system property `java.library.path`.

New package name

The word 'trip' has been inserted into the package name. The jxp packages are now all prefixed by `com.tietoenator.trip.jxp`.

Corrected in v1.1-0

Connection pools not working

Trying to create a connection pool resulted in a `TdbException` with the `TdbException.UNUSABLE_SESSION` code.

Known Remaining Issues

No issues are currently known.