



TIBCO Flogo® Enterprise Release Notes

*Software Release 2.6.0
May 2019*

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Contents

TIBCO Documentation and Support Services	4
New Features	5
Changes in Functionality	9
Deprecated and Removed Features	10
Migration and Compatibility	11
Closed Issues	12
Known Issues	15

TIBCO Documentation and Support Services

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the TIBCO Product Documentation website, mainly in HTML and PDF formats.

The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product. To access the latest documentation, visit <https://docs.tibco.com>.

Documentation for TIBCO Flogo[®] Enterprise is available on the TIBCO Flogo[®] Enterprise Product Documentation page.

Product-Specific Documentation

The following documents for this product can be found on the TIBCO Documentation site:

- *TIBCO Flogo[®] Enterprise Installation*
- *TIBCO Flogo[®] Enterprise User's Guide*
- *TIBCO Flogo[®] Enterprise Release Notes*
- *TIBCO Flogo[®] Activities and Triggers Guide*

How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit <http://www.tibco.com/services/support>.
- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at <https://support.tibco.com>.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to <https://support.tibco.com>. If you do not have a user name, you can request one by clicking Register on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, go to <https://community.tibco.com>.

New Features

The following features have been added since the last major release of TIBCO Flogo[®] Enterprise.

Release 2.6.0

GraphQL

This release of Flogo Enterprise adds an out-of-the-box trigger for GraphQL that provides an efficient and flexible API design paradigm with a powerful query language allowing frontend clients to query exact data. You can import a GraphQL schema in a Flogo application and choose to auto-generate the GraphQL trigger and flows for implementing resolver functions or add a GraphQL trigger to existing flows allowing you to rapidly implement GraphQL server for your API.

Support for OpenAPI Specification 2.0 (formerly Swagger Specification)

Using Flogo Enterprise, you can now develop REST APIs from OpenAPI Specification version 2.0 (formerly Swagger Specification). You can import the OpenAPI Specification in a Flogo application and auto-generate the REST trigger and flows for implementing the API, which in turn enables rapid development.

Improved error handling capabilities

The new Error branch type extends the flow execution control and error handling capabilities of Flogo. An Error branch allows you to catch activity level exceptions and execute a different path in the flow if activity execution throws an error. Flogo Enterprise now supports three types of branches - Success, Success with Condition, and Error.

Mapper activity

The new Mapper activity enables you to define data mappings for any data type and construct data in the required structure for mapping to subsequent activities in the flow.

New schema synchronization option

A new Sync flow input/output configuration option is added to the Flogo Enterprise Web UI on the Trigger configuration tabs. If you make any changes in the trigger input/output schema, this option allows you to propagate the changes to the flow input and output parameters by copying the Trigger Output schema to Flow Inputs and Trigger Reply schema to Flow outputs without having to manually update flow input/output schema.

Additional platforms supported for containerized deployment

The PaaS or containerized deployment options have been extended to support Pivotal Application Service (PAS) of the Pivotal Cloud Foundry (PCF) platform, Amazon ECS, and AWS Fargate.

Support for securing APIs using TLS

Using Flogo Enterprise, you can now secure APIs built using Swagger and GraphQL through X509 certificates.

Mapper improvement

With this release, you can clear child mappings configured for objects and arrays in the mapper using a single click "Clear Mapping" option.

Release 2.5.0

AWS Lambda Triggers

This release of Flogo Enterprise takes integration with AWS Lambda to the next level by adding triggers for Amazon API Gateway and Amazon Simple Storage Service (S3). This gives you ability to develop functions in Flogo, deploy them on AWS Lambda, and invoke them from Amazon API Gateway and S3.

Prometheus Support

In the area of Application Monitoring Flogo Enterprise now provides support for Prometheus, an open source project under Cloud Native Computing Foundation (CNCF). If the environment variable `FLOGO_APP_METRICS_PROMETHEUS` is set to true, Flogo application starts exposing flow and activity metrics via the HTTP endpoint as Prometheus-compliant time series data. This gives you the ability to configure Prometheus for pulling and storing Flogo application metrics, use features of Prometheus for monitoring as well as alerting, and also use tools like Grafana for visualization.

Out-of-the-box support for Kafka, MQTT, TCM and Avro connectors

Starting this release, Flogo Enterprise includes a range of activities and triggers for Apache Kafka, MQTT, Apache Avro, and TIBCO Cloud Messaging out of the box removing the need to install them as separate connectors.

Duplicating Flows

With this new feature added in the Flogo Enterprise Web UI, you can now make a copy of an existing flow within a Flogo application.

Ability to build engine from CLI

To simplify CI/CD for Flogo applications, this release adds the ability to build a single Flogo runtime engine binary with a set of required connectors. You can execute this binary to run any compatible Flogo application by passing '--app' argument to provide the application's JSON file. This removes the need to install Flogo Enterprise on build machines and build the binary for individual applications. For example, If you develop ten applications that use TIBCO Flogo Connector for Kafka and TIBCO Flogo Connector for Avro connectors, you can build a single Flogo runtime engine binary with TIBCO Flogo Connector for Kafka and TIBCO Flogo Connector for Avro connectors included in it and use the same binary to run all ten applications instead of building ten different binaries.

Support for Docker Toolbox

For developers who are using Docker Toolbox on Windows this release allows using Docker Toolbox for running Flogo Enterprise Web UI.

Release 2.4.0

Configuration Management

This release adds a set of new features to help you isolate the configuration from your app and manage it using external stores, so that you can deploy the same app in multiple environments without making any changes to the app. Flogo Enterprise extends the Application Properties feature and allows you to provide the values for application properties at runtime using environment variables or fetching them by connecting to external configuration stores such as Consul. This release certifies use of Consul, AWS Param Store, and Kubernetes ConfigMaps for storing your app configuration. This release also adds the ability to export application properties from the app binary in a JSON file, or as environment variables. If you use application properties for configuring secrets in your app, such as database passwords, you can now generate obfuscated values for the secrets.

Application Logging

This release adds support for the Zap library for app logging. Zap aims to provide fast, structured, and leveled logging. You can switch to the Zap logger for your app by setting the environment variable, `FLOGO_LOGGER_IMPL`, to `zap`. This release also gives you ability to log in JSON format by setting the environment variable, `FLOGO_LOGGER_FORMAT`, to `JSON`.

Kubernetes

Flogo Enterprise now certifies deployment and management of apps using Kubernetes. This allows you to run Flogo apps in Docker containers and use Kubernetes to manage the containers leveraging the benefits of Kubernetes including self healing, load balancing, health check, configuration management, rollouts, and rollbacks

Application Metrics API

This release provides the ability to collect flow and activity metrics for monitoring your app using a REST API. You can now enable collection of app metrics by setting the environment variable, `FLOGO_APP_METRICS`, to `true` and collecting instrumentation as well as execution statistics for the flows and activities in your app using the REST API.

Subflows

This release adds support for creating a subflow and calling the subflow from other flows in your app. This gives you the ability to define the common logic in a subflow and reuse it in multiple flows.

Mapper Improvements

Flogo Enterprise now adds a set of new array functions to support `count`, `get`, `delete`, and `append` operations in the mapper. The use of nested ternary operators in the mapper expressions for conditions is now supported. This release also improves validation of mandatory fields and expressions in the mapper.



Application binaries created prior to 2.4 must be recreated to use above features.

Release 2.3.0

Application Properties

This release introduces the concept of application properties and the ability to define, configure (inside an application) and manage application properties. Apart from properties provided during application design, developers can also override the value for such properties at the time of deployment.

Runtime Statistics

In the area of monitoring and tracking your application runtime, new features have been introduced across two areas:

- Memory and CPU profiling data can be collected and reviewed for a given application in a test environment
- TIBCO Flogo[®] Enterprise includes the ability to gather Go runtime statistics such as memory usage, number of Go routines, logical CPUs used, version and more

Healthcheck

This release introduces the ability to enable healthcheck for a Flogo app that is running.

DB Service

TIBCO Flogo Enterprise 2.3 supports a common DB Service component that facilitates database operations for database connectors.

Release 2.2.0

Flow Testing

This release introduces the ability for testing the flows created using TIBCO Flogo[®] Enterprise from the design-time including creating and managing launch configurations for running these tests.

Command-Line Interface

This release provides a command-line utility capable of building a Flogo application binary.

Release 2.1.0

Improved support for building and deploying AWS Lambda functions

This release allows developers to build Flogo flows as functions in AWS Lambda and deploy them directly from the design-time environment in to their AWS accounts.

Support for Connectors

This release introduces an installation manager and the ability to install and manage connectors for Flogo[®] Enterprise.

Release 2.0.0

Improved experience across installation, design, and runtime

A completely revamped user experience across installation, design-time, and runtime components has been introduced in v2.0.0 of TIBCO Flogo[®] Enterprise. This makes the experience better aligned for enterprise developers and consistent with the concepts available in TIBCO Flogo[®] Apps.

Cross-compatibility for Flogo Applications

Starting with this release, Flogo apps/flows created in the open-source Project Flogo[™] can be imported into Flogo[®] Enterprise (or TIBCO Cloud[™] Integration - Flogo[®]). Starting with this release, Flogo[®] Enterprise will pick the most current stable release of the open-source Project Flogo[™] and be compatible with capabilities provided in such a release.

Support for AWS Lambda Trigger

This release introduces the support for triggers for server-less frameworks and environments such as AWS Lambda. Developers can now build Flogo flows that can be run in AWS Lambda as functions.

Changes in Functionality

The following functionality-related changes have been made in this release.

Iterator Mappings

Apps created in earlier versions of Flogo Enterprise have iterator mappings using the `$current` tag. Such apps return validation errors in version 2.6. You must manually update the iterator mappings for such apps.

Also, the datatype for key attribute under `$current` is changed from number to string. So, any mappings that involve the key attribute must also be manually updated.

Imported Apps

It is mandatory to provide a condition on branches. If the condition is not provided, the app fails at runtime.

Application Property

This release of Flogo Enterprise provides additional validations for app properties. If you delete an app property or the property is not configured properly, the app fails to start.

Application Property Override Using Environment Variables

The environment variable used to enable application property override using environment variables has changed from `FLOGO_APP_PROPS_RESOLVERS=env` to `FLOGO_APP_PROPS_ENV="{ }"`

Deprecated and Removed Features

The following features have been deprecated or removed as of this release of Flogo Enterprise.

Release 2.6.0

- No features have been deprecated or removed in this release.

Release 2.5.0

- The 'Start with Trigger' option in Flogo Enterprise Web UI when creating flows has been removed in Flogo Enterprise 2.5.0 release.

Release 2.4.0

- Use of triggered flow is deprecated in Flogo Enterprise 2.4.0 and the UI support for creating such flows will be removed in a future release.

Release 2.3.0

- No features have been deprecated or removed in this release.

Release 2.2.0

- The `Flogo OSS Reply(Legacy)` activity is now deprecated. Do not use this activity in your applications. Instead, use the `Return` activity in serverless flows.

Migration and Compatibility

The following migration and compatibility related changes have been made in this release.

Flogo Enterprise Web UI

In version 2.6, due to an application model change, it is recommended that you import old apps JSON in version 2.6 and export them.

CLI Tool

When the CLI tool is used to build an app created in an earlier version of Flogo Enterprise, the app binary created might not work properly in version 2.6 due to an application model change.

To avoid errors, import and export old apps in version 2.6 before using the CLI tool.

Closed Issues

The following issues have been fixed in this release of TIBCO Flogo® Enterprise.

Release 2.6.0

Key	Description
FLOGO-2923	Summary: For an empty condition, an error was not returned and the condition was evaluated as true at runtime.
FLOGO-2695	Summary: Building a Flogo app binary through UI and testing the Flogo app through Flogo tester did not work.
FLOGO-2512	Summary: If you created a Flogo app from an API specification, the flows for the REST methods that had query or path parameters of type integer or long were not created even though the app was created successfully.
FLOGO-2403	<p>Summary: To run Flogo Enterprise on the Docker toolbox, you had to do the following:</p> <ul style="list-style-type: none"> provide the virtualbox read/write access if it was installed in any directory other than the home directory hierarchy. make the following changes in the bash script file: <pre>SET DATA_DIR="/c/Users/<username>/customer_docker_18.09.01_toolbox/flogo/data" SET FLOGO_HOME="/c/Users/<username>/customer_docker_18.09.01_toolbox/flogo/2.3" SET TOOLS_DIR="/c/Users/<username>/customer_docker_18.09.01_toolbox/flogo/tools" SET SERVICES_DIR_LOCAL="/c/Users/<username>/customer_docker_18.09.01_toolbox/flogo/services" ECHO %DATA_DIR% ECHO %FLOGO_HOME% ECHO %TOOLS_DIR% ECHO %SERVICES_DIR_LOCAL%</pre>

Release 2.5.0

Key	Description
FLOGO-2404	Summary: If you imported an app that contained a connection extension, the app got imported without errors, but you had to recreate the connection after importing the app. The connection detail are now preserved except for the password which must be reset in the imported app.
FLOGO-2396	Summary: When invoking a Flogo service from LiveApps, LiveApps didn't get response from the Flogo service. This issue has now been fixed.

Release 2.4.0

Key	Description
FLOGO-2103	Summary: If the InvokeRESTAPI activity URL contained "--", it gave an error at design time for Flogo apps. This has now been fixed.
FLOGO-2022	Summary: Flogo Enterprise now supports nested ternary operators.
FLOGO-2021	Summary: If you removed the array .forEach() from the root element, all the mappings underneath would get deleted. This issue is now fixed.
FLOGO-1999	Summary: On certain Windows machines, the uninstall service would fail. This issue has now been fixed.
FLOGO-1925	Summary: When overriding a property from the CLI using the FLOGO_APP_PROPS_OVERRIDE environment variable, if your value was a query that used the comma delimiter, you encountered an error. This issue has now been fixed.
FLOGO-1833	Summary: The xpath expression count() which is used to get the number of array items is now available for Flogo apps.
FLOGO-1723	Summary: Fixed an issue when running run-studio.sh as a regular user, you received a "permission denied" error.
FLOGO-578	Summary: When using branches conditions in Flogo apps, you received error messages when the conditions contained special characters (Expected "(", ",", ":", ":", ":", "/*", "//", ";", "[", comment, end of line, or whitespace but "<" found.) but the condition would work and the flow executed as per the condition provided.
FLOGO-368	Summary: If the schema entered in the Input and/or Output tab of a REST activity or trigger contains reserved names in the schema attributes, after the app is imported into Flogo Enterprise Flogo Enterprise, such attributes get treated as special characters which results in runtime errors. The reserved names to avoid in schemas is now documented in the product documentation under the "Mapper" section.
FLOGO-324	Summary: When uploading an app that contained a subflow, the subflow-related configurations did not get imported. This has now been fixed.

Release 2.3.0

Key	Description
FLOGO-1443	Summary: Fixed an issue where if your Flogo app used any Flogo connector using OAUTH for authentication, the application binary built using the Flogo CLI tool did not work at runtime.
FLOGO-1405	Summary: Flogo applications exported from prior versions such as 2.0.0 or 2.1.0 were not compatible with the Flogo CLI tool.

Key	Description
FLOGO-325	Summary: When uploading an app that contains an iterator, the iterator-related configurations did not get imported. This has now been fixed.
FLOGO-313	Summary: When uploading an app that contained app properties, the app properties related configurations did not get imported. This has now been fixed.

Known Issues

The following issues exist in this release of TIBCO Flogo[®] Enterprise.

Key	Description
FLOGO-3204	<p>Summary: Flogo apps exported from Project Flogo[™] version 0.9.0 can not be imported into Flogo[®] Enterprise 2.6.0.</p> <p>Workaround: Open the <code><application>.json</code> file in a text editor and change version from 0.0.1 to 1.1.0.</p>
FLOGO-3162	<p>Summary: In Lambda apps, if you use an application property when configuring the Execution Role Name field, you will be unable to push your app. You get an error, Execution role name [= \$property ["execRoleName"]]Execution role name [= \$property ["execRoleName"]]ValidationError: The specified value for roleName is invalid.</p> <p>Workaround: Do not use an application property when configuring the Execution Role Name field.</p>
FLOGO-3160	<p>Summary: Flogo Enterprise Web UI does not return a validation error for invalid credentials in Connections.</p> <p>Workaround: Re-enter your credentials. If your credentials are valid, the Connections page opens.</p>
FLOGO-3155	<p>Summary: If there is no activity on the UI for some time, the UI is redirected to <code>http://localhost:<port>/undefined/idm/logout-request</code>.</p> <p>Workaround: Change the URL and access it again: <code>http://localhost:<port>/</code></p>
FLOGO-3154	<p>Summary: Failed to get data from Marketo Upsert or Delete activity's output errors field.</p> <p>Workaround: Get the value from the Marketo Upsert activity output field.</p>
FLOGO-3152	<p>Summary: On Windows platforms, you cannot uninstall FE using the <code>installmgr</code> script.</p> <p>Workaround: Delete <code><version></code> folder and <code>data</code> folder manually and rename backed up <code>/data</code> folder to <code>data</code>.</p>
FLOGO-3141	<p>Summary: When an app is imported, input data (string) in a subflow activity is lost.</p> <p>Workaround: None</p>
FLOGO-3136	<p>Summary: On importing a Lambda Trigger app, Reply Data schema (in the Reply Settings tab in Receive Lambda Invocation Trigger) is lost.</p> <p>Workaround: Manually enter the schema.</p>

Key	Description
FLOGO-3133	<p>Summary: After upgrading Flogo Enterprise from 2.x to 2.6.0, if the app has an OSS activity, the Flogo tester fails to run and displays the following error message:</p> <pre data-bbox="549 331 1481 388">Failed to create engine: %!s(MISSING) error unmarshalling flow: activity '#error' not imported.</pre> <p>Workaround: Export and import the same app to resolve this issue. You may need to reconfigure some Project Flogo activities.</p>
FLOGO-3124	<p>Summary: After importing a Flogo app, an extra return activity is added if the flow has no return activity.</p> <p>Workaround: Manually delete the extra return activity.</p>
FLOGO-3117	<p>Summary: In branch condition, if you compare a string type variable with a number, a validation error is not displayed at design time and the flow does not get executed at runtime.</p> <p>Workaround: Compare a string type variable with a string value.</p>
FLOGO-3099	<p>Summary: If any string in a mapper starts with =, the flow fails at runtime.</p> <p>Workaround: Avoid using = as the first character in a string.</p>
FLOGO-2888	<p>Summary: Flogo does not support uploading Swagger specification definitions which have a cyclic dependency.</p> <p>Workaround: None</p>
FLOGO-2886	<p>Summary: Depending on your machine configuration and browser configuration, you might not be able to upload a large Swagger API definition JSON file or the browser might become unresponsive. The following error message is displayed on the Network tab and the file is not uploaded:</p> <pre data-bbox="549 1224 1481 1251">Request entity too large</pre> <p>Workaround: None</p>
FLOGO-2861	<p>Summary: When uploading custom schema for GraphQL, if the custom schema has a cyclic dependency, the following error is returned and the upload fails:</p> <pre data-bbox="549 1444 1481 1472">Maximum call stack size exceeded for circular reference</pre> <p>Workaround: None</p>
FLOGO-2844	<p>Summary: If you change the input or output schema in a subflow, it does not give any warning or error in mapping in the call flow activity.</p> <p>Workaround: None</p>
FLOGO-2676	<p>Summary: On Linux platforms, the Flogo Enterprise Web UI does not launch after connecting to VPN.</p> <p>Workaround: Disconnect the VPN and re-launch or refresh the Flogo Enterprise Web UI.</p>

Key	Description
FLOGO-2594	<p>Summary: Currently, deploying Lambda apps on AWS using the Flogo engine binary is not supported.</p> <p>Workaround: None</p>
FLOGO-2536	<p>Summary: Importing a Flogo app using Salesforce activities with no connection set in connections page takes longer than expected time to import.</p> <p>Workaround: None</p>
FLOGO-2466	<p>Summary: Use of any "trigger output" is not supported in "trigger output" to "flow input" array mappings. Also, use of "flow output" is not supported in "flow output" to trigger reply array mappings.</p> <p>Workaround: Use \$flow instead of \$ in the mapping.</p>
FLOGO-2432	<p>Summary: After upgrading a connector, if you try to uninstall the connector, you get an error saying bash: ./installmgr.sh: No such file or directory.</p> <p>Workaround: None</p>
FLOGO-2344	<p>Summary: When you use the Iterator key as an array index, the following error is displayed and the flow execution fails:</p> <pre data-bbox="549 940 1481 968">index based access expected for an array</pre> <p>Workaround: Ignore the UI validation error and build it.</p>
FLOGO-2224	<p>Summary: In a REST trigger, when the endpoints have the same base path but different wildcard in path parameters, the app fails to run resulting in a path conflict error.</p> <p>Workaround:</p> <p>Change the wildcard names such that they match. For example, if you have the following endpoints:</p> <pre data-bbox="549 1297 1118 1325">/books/{name}/id and /books/{name2}/id2</pre> <p>you must change them to either /books/{name}/id and /books/{name}/id2 or /books/{name2}/id and /books/{name2}/id2</p>
FLOGO-2223	<p>Summary: When there is a conflict in the path parameters wildcards, even though you see an error in the logs, the app proceeds to run.</p> <p>Workaround: Change the wildcard names.</p>
FLOGO-2187	<p>Summary: When using an iterator to loop over an array or to invoke an activity a certain number of times, if you access the iterator value and index using \$current.iteration.value or \$current.iteration.key you encounter an error such as "index based access expected for an array".</p> <p>Workaround: None. This is not currently supported.</p>

Key	Description
FLOGO-2171	<p>Summary: Application properties updated in the AWS Parameter Store are not propagated to Lambda functions when self deploy(./App --deploy) mode is used. The flow continues to use the default value for such properties.</p> <p>Workaround: None</p>
FLOGO-1684	<p>Summary: When accessing the Flogo Enterprise Web UI, you get a "502 Bad Gateway" error if your machine is configured with a static IP address.</p> <p>Workaround: Configure your machine IP address as dynamic.</p>
FLOGO-1488	<p>Summary: Mandatory fields in all the AWS Kinesis activities are not displayed as mandatory in the Web UI</p> <p>Workaround: Refer to the AWS Kinesis documentation for mandatory fields.</p>
FLOGO-992	<p>Summary: If you enter an invalid API Key when creating a Chargify connection, you will be prompted to enter username and password for your Chargify account instead of getting an error.</p> <p>Workaround: Cancel out of the username/password dialog and reenter the valid API Key. This is a third-party issue.</p>
FLOGO-836	<p>Summary: You are erroneously able to scale a Lambda app to more than one instance.</p> <p>Workaround: None.</p>
FLOGO-814	<p>Summary: In the flow error handler, <code>\$error.data</code> and <code>\$error.code</code> are not supported in the mapper.</p> <p>Workaround: Manually delete them from mappings from any FLOGO OSS applications imported into Flogo Enterprise.</p>
FLOGO-389	<p>Summary: FLOGO does not support anonymous arrays.</p> <p>Workaround: Add a root element to the array.</p>
FLOGO-358	<p>Summary: On Macintosh platform, if you run the <code>run-studio.sh</code> installer from a directory that is not shared with the Docker container, the installation will fail resulting in a <code>Mounts denied</code> error.</p> <p>Workaround: Configure the path to the <code>run-studio.sh</code> file in Docker > Preferences > File Sharing before running the <code>run-studio.sh</code> command.</p>

Key	Description
WIDBSV-37	<p>Summary: The following sections specify the grammar supported by Flogo DB Service 2.0.1 for SQL SELECT, INSERT and DELETE statements. The grammar follows the standard normative form as described in PostgreSQL documentation available on the web. As such, this document does not go at lengths describing parameters and their elements constituting each clause in the grammar, instead it assumes familiarity and understanding of these constructs from the user. Nevertheless, the user may consult PostgreSQL documentation on the Web for detailed description if they so may desire.</p> <p>SQL Statement</p> <p>The following grammar is supported for SQL SELECT queries:</p> <pre data-bbox="550 583 1481 808"> [WITH with_query [, ...]] SELECT [[* expression [[AS] output_name] [, ...]] [FROM from_item [, ...]] [WHERE condition] [GROUP BY grouping_element [, ...]] [{ UNION INTERSECT EXCEPT } [ALL] select] [ORDER BY expression [USING operator]] [, ...]] table_name] </pre> <p>In general the following clauses/parameters are not supported:</p> <pre data-bbox="550 865 1481 1165"> [RECURSIVE]] [HAVING condition] { RANGE ROWS GROUPS } frame_start [frame_exclusion] { RANGE ROWS GROUPS } BETWEEN frame_start AND frame_end [frame_exclusion] [DISTINCT] FIRST LAST }]] [LIMIT { count ALL }] [OFFSET start [ROW ROWS]] [FETCH { FIRST NEXT } [count] { ROW ROWS } ONLY] [FOR { UPDATE NO KEY UPDATE SHARE KEY SHARE } [OF [NOWAIT SKIP LOCKED]]] </pre> <p>INSERT Statement</p> <p>The following grammar is supported for SQL INSERT statement</p> <pre data-bbox="550 1270 1481 1348"> INSERT INTO table_name [(column_name [, ...])] { VALUES ({ expression } [, ...]) [, ...] query } [RETURNING * output_expression] </pre> <p>In general the following clauses/parameters are not supported:</p> <pre data-bbox="550 1402 1481 1528"> [WITH [RECURSIVE] with_query [, ...]] [OVERRIDING { SYSTEM USER } VALUE] { DEFAULT VALUES ({ DEFAULT }) } [ON CONFLICT [conflict_target] conflict_action] [[[AS] output_name]] </pre> <p>DELETE Statement</p> <p>The following grammar is supported for SQL DELETE statement:</p> <pre data-bbox="550 1633 1481 1732"> DELETE FROM table_name [*] [USING using_list] [WHERE condition] [RETURNING * output_expression] </pre> <p>In general the following clauses/parameters are not supported:</p> <pre data-bbox="550 1789 1481 1887"> [WITH [RECURSIVE] with_query [, ...]] [ONLY] [[AS] alias] [WHERE CURRENT OF cursor_name] [[[AS] output_name] [, ...]] </pre> <p>SQL Functions</p>

Key	Description
	<p>All DB Connectors</p> <p>Following SQL functions are currently not supported:</p> <p>CONCAT</p> <p>Workaround: None</p>