



TIBCO Flogo® Extension for Visual Studio Code

Release Notes

Version 1.3.2 | July 2025

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New Features

This section lists all the new features added in this release.

Flogo Extension for Visual Studio Code

The following features have been added in this release of TIBCO Flogo® Extension for Visual Studio Code.

Support for Dynamic Headers in InvokeRESTService Activity

You can add dynamic headers at runtime in InvokeRESTService Activity. For more information, see [InvokeRESTService](#).

Wait for Notification and Notify Activities

You can use the Wait for Notification and Notify activities to improve communication between flows and enhance flow orchestration. For more information, see [Activities](#).

Loop Variables Integration in Data Mapping

You can view and drag the \$loop object for mapping arrays during mapping activities. For more information, see [Loop Variables](#).

Multiselection Feature for Copying and Pasting Activities

You can select multiple activities for copying and pasting them into the same or different apps. For more information, see [Copying or Pasting Multiple Activities](#).

Newly Supported Connectors

TIBCO Flogo® Connector for Google Sheets and TIBCO Flogo® Connector for Model Context Protocol (MCP) - Developer Preview are the newly supported connectors in this release. For more information, see [Supported Flogo Connectors](#).

Runtime

This following runtime feature has been added in this release of TIBCO Flogo® Extension for Visual Studio Code.

Load System Certificates in InvokeRESTService Activity

You can load system certificates directly into the InvokeRESTService activity without manual configuration or base64 encoded values. For more information, see [Using SSL](#).

Flogo Connector for Google Sheets

TIBCO Flogo® Connector for Google Sheets supports the following activities:

- **GetGoogleSheetData**
Use this activity to retrieve data from your Google Sheets. You can specify a cell range from which to retrieve data.
- **CopySheet**
Use this activity to copy data from one tab in a source Google Sheet to another tab in a destination Google Sheet. This activity copies the data from the named sheet to the destination Google sheet. Ensure that the destination sheet already exists.
- **UpdateGoogleSheetData**
Use this activity to update an area of the Google sheet with the data you provide in the input schema of this activity.
- **ClearGoogleSheetData**
Use this activity to erase data from a whole Google Sheet or a part of the sheet.

For more information, see [TIBCO Flogo® Connector for Google Sheets](#).

Flogo Connector for MCP

TIBCO Flogo® Connector for Model Context Protocol (MCP) - Developer Preview has the following new features:

- MCP Server Trigger

MCP Server trigger integrates Large Language Model (LLM) applications with internal data sources using the Model Context Protocol (MCP) for standardized context delivery.

- Support for Multiple Server Types

Supports both STDIO and HTTP server types, providing flexible configuration options for MCP clients.

- MCP Primitives Support

Supports three MCP primitive types: Tool, Prompt, and Resource, enabling a wide range of data processing and interaction capabilities.

- JSON Schema Data Model

Uses JSON Schema for input arguments to improve data structure and clarity.

- Mapping Capabilities

Provides enhanced mapping of trigger outputs to flow inputs and flow outputs to trigger replies for enhanced integration and flow management within applications.

For more information, see [TIBCO Flogo® Connector for Model Context Protocol \(MCP\) - Developer Preview](#).

Changes in Functionality

There are no changes in functionality in this release.

Deprecated Features

No features have been deprecated in this release.

Removed Features

No features have been removed in this release.

Migration and Compatibility

This section lists all migration procedures or compatibility issues in this release.

Flogo Extension for Visual Studio Code

There are no migration procedures or compatibility issues in this release of TIBCO Flogo® Extension for Visual Studio Code.

Flogo Connector for EMS

The following table provides migration and compatibility matrix for this release of TIBCO Flogo® Connector for TIBCO Enterprise Message Service™.

Connector Version	Flogo Runtime Version	Compatibility
1.0.0	2.25.4	Incompatible
1.0.1	2.25.3 and earlier	Incompatible
1.0.1	2.25.4	Compatible



Tip: To avoid compatibility issues, use TIBCO Flogo® Connector for TIBCO Enterprise Message Service™ version 1.0.1 with Flogo runtime version 2.25.4.

Closed Issues

This section lists all the issues that are closed in this release.

Flogo Extension for Visual Studio Code

The following issues have been closed in this release of TIBCO Flogo® Extension for Visual Studio Code.

Key	Description
FLOGO-15844	Security vulnerabilities in application scanning occur when TIBCO Flogo® Connector for Apache Pulsar is used.
FLOGO-15746	The application is corrupted when an empty object is set in the object type field in activities.
FLOGO-15577	Setting environment variables through the Configure and Run Action option does not work in cmd and PowerShell terminal when the value is set as key-value pair.
FLOGO-13676	Adding app schema from the Select view is not allowed from flow input/output.

Flogo Connector for EMS

The following issue has been closed in this release of TIBCO Flogo® Connector for TIBCO Enterprise Message Service™.

Key	Summary
FGEMS-87	The Flogo flow fails to send messages to the second EMS server when utilizing multiple EMS connections.

Known Issues

This section lists all the known issues in TIBCO Flogo® Extension for Visual Studio Code and Flogo® connectors.

Flogo Extension for Visual Studio Code

The following issues exist in this version of TIBCO Flogo® Extension for Visual Studio Code.

Key	Description
FLOGO-15908	<p>Summary: When the parent array is created using the Add Item option and the nested array is configured with the Iterate from Source option, Flogo Mapper fails to expose the loop variable.</p> <p>Workaround: None</p>
FLOGO-15898	<p>Summary: When setting environment variables through the Configure and Run Action option, the values appear with escaped quotes at the beginning and end.</p> <p>Workaround: Set the environment variables directly in the terminal instead of using the Configure and Run Action option.</p>
FLOGO-15887	<p>Summary: The Available Data tree closes when performing array-to-array mapping through drag or double-click in the Rest trigger flow inputs.</p> <p>Workaround: Expand the available data tree again after it closes to continue mapping.</p>
FLOGO-15845	<p>Summary: For Custom extension apps, the build-tp-deployment command does not generate an error if custom extension is missing during context creation. An error occurs in TIBCO Platform during app build import.</p> <p>Workaround: Check the Flogo engine binary size in the compressed file. If it is 0 or 1 KB, use the list-context command in the CLI to verify if the</p>

Key	Description
	custom extension path was set during context creation. If not, then create a new context with the correct extension path and re-run the command.
FLOGO-15781	<p>Summary: When you paste an activity with an attached app spec, the app spec is not copied even if the Spec Binding toggle is enabled.</p> <p>Workaround: None.</p>
FLOGO-15773	<p>Summary: The Timeout field in Wait for Notification activity does not show the default value immediately after the activity is added to the flow.</p> <p>Workaround: Refresh to see the default value.</p>
FLOGO-15771	<p>Summary: An activity with an app schema attached is copied when the Spec Binding toggle is enabled, but the schema is not present in the App Schemas tab. For app property, even when this toggle is enabled, the properties are not getting created in the App Properties tab.</p> <p>Workaround: None.</p>
FLOGO-15736	<p>Summary: The Filter By expression in Mapper incorrectly flags a syntax error when referencing loop variables using syntax, such as \$loop[LoopName].</p> <p>Workaround: Set the filter without using the loop variable. For example, use the \$loop.type filter instead of \$loop[name].type.</p>
FLOGO-15585	<p>Summary: Mocking a subflow in unit test play mode does not allow users to navigate into the called flow, which remains unexecuted.</p> <p>Workaround: None</p>
FLOGO-15542	<p>Summary: When importing an existing connector app with changes to the connection, those changes are not reflected.</p> <p>Workaround: Manually update the connection with the required changes.</p>
FLOGO-15535	<p>Summary: The fe_metadata section in the .flogotest JSON file does not revalidate against the updated schema, as the removed property still exists at the parent level.</p>

Key	Description
	Workaround: Manually delete the removed property from the .flogotest JSON file.
FLOGO-15534	<p>Summary: Changes made to the schema do not auto-reflect in the .flogo app JSON output fields of activity.</p> <p>Workaround: After updating the app schema, open the flow and edit the activities.</p>
FLOGO-15518	<p>Summary: If you do not select the primary checkbox of the schema, it does not show up in the preview. However, it is visible in the app after import.</p> <p>Workaround: None</p>
FLOGO-15502	<p>Summary: Modifying the Flogo app does not stop the execution of the play feature in Unit Test mode.</p> <p>Workaround: Manually stop the test case execution in play mode.</p>
FLOGO-15498	<p>Summary: Any renamed trigger is not displayed on the flow list page after importing the app.</p> <p>Workaround: Open the flow and then navigate to the flow list page to see the renamed trigger.</p>
FLOGO-15310	<p>Summary: You cannot create a new connection during import, and the changes in the connection of an imported app are not reflected.</p> <p>Workaround: Update the existing connection with the required changes that you want to import, or create a new connection and select the activities and triggers.</p>
FLOGO-15307	<p>Summary: The default blank flow remains in the app when flows are implemented using a Spec.</p> <p>Workaround: After implementing flows from a Spec, delete the default flow if it is not required.</p>
FLOGO-14954	<p>Summary: When you use ProtobufToJSON activity, you get the following error message: Unable to get message descriptor from registry.</p>

Key	Description
	Workaround: None
FLOGO-14947	<p>Summary: When an attached spec in a trigger or activity is deleted from the SPECS tab, no error is displayed.</p> <p>Workaround: None. Update the trigger or activity settings manually to use another spec.</p>
FLOGO-14882	<p>Summary: Changes are not reflected in the InvokeRestService activity configuration when the attached app spec is updated.</p> <p>Workaround: Reset the Use app level spec toggle and re-select the same spec. The changes are updated in the activity configuration.</p>
FLOGO-14773	<p>Summary: On the Import specs dialog, specs from the TIBCO Developer Hub display version 0.0.0.</p> <p>Workaround: None. Once a spec is imported, it shows the OpenAPI version of the spec.</p>
FLOGO-14699	<p>Summary: On adding ReplyToTrigger activity in the error handler flow for the first time, the mappings of REST trigger are not reflected.</p> <p>Workaround: Delete the ReplyToTrigger activity and add it again.</p>
FLOGO-14683	<p>Summary: Mapping, where an app property is already mapped, is not updated if the app property is moved from the root level to a group or from a group to the root level.</p> <p>Workaround: Update the app property mapping manually.</p>
FLOGO-14602	<p>Summary: Existing Oracle Database connection must be reconnected to server with upgrade of TIBCO Flogo® Extension for Visual Studio Code from version 1.1.1 to 1.2.0, otherwise app fails at runtime.</p> <p>Workaround: After upgrading TIBCO Flogo® Extension for Visual Studio Code, re-establish the Oracle Database connection and then Build and Run the application.</p>
FLOGO-14340	<p>Summary: On collapsing and then re-expanding the activity or trigger</p>

Key	Description
	<p>configuration, the number of mappings is removed from the right-most configuration panel. The data mappings remain the same.</p> <p>Workaround: Close and reopen the activity or trigger configuration.</p>
FLOGO-13705	<p>Summary: You cannot select oneOf for anyOf schema in the Start a Subflow activity.</p> <p>Workaround: Use schemas with oneOf or anyOf keywords in the main flow.</p>
FLOGO-13300	<p>Summary: On TIBCO Flogo® Extension for Visual Studio Code, when you try to connect to Oracle Database using the Install Prerequisite option, the test connection fails with the libsora.so.21.1 file not found message on Ubuntu 24.</p> <p>Workaround: Remove unused or unnecessary Oracle drivers and use the pre-install script to reinstall them.</p>
FLOGO-13284	<p>Summary: If test cases are exported from TIBCO Cloud Integration and run without test suites, the test run fails.</p> <p>Workaround: Create a test suite, add the test cases to the test suite, and then run the test.</p>
FLOGO-13093	<p>Summary: After discarding changes in the activity configuration, the Open Subflow icon is still present in the activity tile.</p> <p>Workaround: Navigate out of and then back into the same flow.</p>
FLOGO-13082	<p>Summary: In the activity configuration, when you click the Open Subflow icon, the UI is disabled.</p> <p>Workaround: Save the changes and then click the Open Subflow icon.</p>
FLOGO-12340	<p>Summary: After saving mapping changes in any tab of an activity configuration window, you cannot switch to another tab without saving even if no new changes are made.</p> <p>Workaround: Save the changes again.</p>

Key	Description
FLOGO-11904	<p>Summary: After a request is complete for an HTTP trigger app with proxy mode, an error is displayed in the logs.</p> <p>Workaround: You can ignore the error as the flow execution is complete. You can also change the processing mode to Data and then back to proxy to remove the error.</p>
FLOGO-10802	<p>Summary: The field with space or special character in the property name does not work in filter expressions of functions.</p> <p>Workaround: When a user uses the \$loop expression in the filter conditions of the array.forEach with source expression mapping and the property from available data has a space or special character in between of the property name, the user must insert an additional identifier ["<loopName>"] in the \$loop expression.</p>
FLOGO-8432	<p>Summary: When you use array.forEach, you get an error when mapping child elements through \$loop.xxxxx.</p> <p>Workaround: None</p>
WISNFK-219	<p>Summary: (macOS) An incorrect SQL query does not display any error.</p> <p>Workaround: Insert a valid SQL query that provides the metadata.</p>

Flogo Connector for Amazon Kinesis

The following issue exists in this release of TIBCO Flogo® Connector for Amazon Kinesis.

Key	Summary
FGAZKS-54	<p>Summary: Tags object is not supported for CreateDeliveryStream field of Firehose Stream type.</p> <p>Workaround: None.</p>

Flogo Connector for Apache Kafka

The following issue exists in this release of TIBCO Flogo® Connector for Apache Kafka.

Key	Summary and Workaround
FGKAFKA-201	Summary: Delay observed in retry attempts on error when network is slow at client side. Workaround: None.

Flogo Connector for Apache Pulsar

The following issues exist in this release of TIBCO Flogo® Connector for Apache Pulsar.

Key	Summary and Workaround
FGPUL-389	Summary: Batching does not work as expected, when georeplication is set to true. Workaround: None.

Flogo Connector for DocuSign

The following issues exist in this release of TIBCO Flogo® Connector for DocuSign.

Key	Summary and Workaround
FGDUSN-85	Summary: When you import any TCI DocuSign existing application in VS_Code and open existing connection tab to edit the connection details after entering any input in the

(Continued)

Key	Summary and Workaround
	<p>required fields, the connection does not validate the process and it displays, Login successful.</p> <p>Workaround: Create new DocuSign connection and use it in flow to run the application.</p>
FGDUSN-67	<p>Summary: While editing existing connection with DocuSign in VS-Code, the application does not load the DocuSign Authentication Type and OAuth2 Token fields.</p> <p>Workaround: Close the application and reopen.</p>

Flogo Connector for EMS

The following issue exists in this release of TIBCO Flogo® Connector for TIBCO Enterprise Message Service™.

Key	Summary and Workaround
FGEMS-27	<p>Summary: The SSL handshake logs are shown on the application startup unexpectedly.</p> <p>Workaround: None.</p>

Flogo Connector for Google Cloud Pub/Sub

The following issues exist in this release of TIBCO Flogo® Connector for Google Cloud Pub/Sub.

Key	Summary and Workaround
FGGCPS-42	<p>Summary: On the Windows operating system, installing the connector and generating the binary and docker images takes a long time.</p> <p>Workaround: None</p>
FGGCPS-40	<p>Summary: In the Message Publisher activity, an error message is displayed when you leave the Topic ID field blank on the Settings tab and override it on the Input tab.</p> <p>Workaround: None</p>

Flogo Connector for IBM MQ

The following issues exist in this release of TIBCO Flogo® Connector for IBM MQ.

Key	Summary and Workaround
FGIBMQ-142	<p>Summary: The Subscriber in JSON format is not saved if added directly with a JSON value format.</p> <p>Workaround: Add the JSON schema again after adding the Subscriber trigger.</p>
FGIBMQ-141	<p>Summary: The Listener in JSON format is not saved if added directly with a JSON value format.</p> <p>Workaround: Add the JSON schema again after adding the Listener trigger.</p>
FGIBMQ-107	<p>Summary: Connectors activity and trigger input tab fields take time to load the values.</p> <p>Workaround: Wait for some time or refresh VS Code.</p>

Flogo Connector for Microsoft Azure Service Bus

The following issues exist in this release of TIBCO Flogo® Connector for Microsoft Azure Service Bus.

Key	Summary and Workaround
WIAZSB-54	<p>Summary: If your app contains the QueueReceiver or TopicSubscriber Azure Service Bus trigger, the app will crash if an empty message is published to the Azure Service Bus queue or topic using HTTP POST.</p> <p>Workaround: None.</p>
WIAZSB-49	<p>Summary: When a message that is published to a topic or a queue in the service bus has the 'TimeToLive' broker property set, Microsoft Azure Service Bus Queue Receiver and Microsoft Azure Service Bus Topic Subscriber triggers are not able to process and display its value in the output.</p> <p>Workaround: None.</p>

Flogo Connector for Microsoft SQL Server

The following issues have been reported in this release of TIBCO Flogo® Connector for Microsoft SQL Server.

Key	Summary and Workaround
WIMSSS-327	<p>Summary: When passing a list of values in the prepared parameter, then query does not return any values.</p> <p>Workaround: Pass multiple prepared parameters such as ?a1,?a2</p>
WIMSSS-	<p>Summary: If you export or import from 2.8.1 to the current version, an error is</p>

Key	Summary and Workaround
213	<p>shown on the activities even after establishing a connection.</p> <p>Workaround: Refresh the page or click on the respective activity again.</p>
WIMSSS-92	<p>Summary: The OUTPUT clause in INSERT INTO is not supported. For example, the following INSERT INTO statement does not return the expected value for promotion id:</p> <pre>INSERT INTO promotions (promotion_name, discount, start_date, expired_date) OUTPUT inserted.promotion_id VALUES ('2018 Fall Promotion', 0.15, '20181001', '20181101');</pre> <p>Workaround: None</p>

Flogo Connector for MongoDB

The following issues exist in this release of TIBCO Flogo® Connector for MongoDB.

Key	Summary and Workaround
FGMGDB-117	<p>Summary: Options such as update, find, and delete do not work when the auto generated '_id' is given in the input criteria.</p> <p>Workaround: With user given ids in the documents, MongoDB activities work. While inserting a document, specify a unique id in the input JSON.</p>

Key	Summary and Workaround
FGMGDB-107	<p>Summary: MongoDB activities time out in 30 seconds even if the Timeout value is set to a higher value.</p> <p>Workaround: None</p>
FGMGDB-96	<p>Summary: On the MongoDB Connection page, the value entered in the Key Password field is not validated when using SSL.</p> <p>Workaround: None</p>
FGMGDB-93	<p>Summary: MongoDB Trigger is not compatible with Cosmos DB.</p> <p>Workaround: None</p>
FGMGDB-83	<p>Summary: The MongoDB Insert document activity generates an incorrect output on failure, if the ?Insert Many Documents? option is selected and the ?Continue on Error? field is set to False.</p> <p>Workaround: None</p>

Flogo Connector for OData

The following issues exist in this release of TIBCO Flogo® Connector for OData.

Key	Summary and Workaround
FGOD-50	<p>Summary: The output of content-length response header of OData Query activity is not getting mapped to the Log Message activity.</p> <p>Workaround: None.</p>

Flogo Connector for Oracle MySQL

The following issues have been reported in this release of TIBCO Flogo® Connector for Oracle MySQL.

Key	Summary and Workaround
WIMYSQ-488	<p>Summary: When importing an app's JSON with a MySQL, SQL Server, or Postgres activity, an error marker is shown on the activity even after updating the credentials.</p> <p>Workaround: Refresh the page.</p>
WIMYSQ-464	<p>Summary: For incorrect query, an error message is not showing up in the Insert, Delete, and Update activities.</p> <p>Workaround: None.</p>
WIMYSQ-440	<p>Summary: If there is no SSL server and you configure the connection as an SSL Connection with the TLS Required option selected, no error is generated at design time. An error is generated only at run time.</p> <p>Workaround: None.</p>

Flogo Connector for PostgreSQL

The following issues exist in this release of TIBCO Flogo® Connector for PostgreSQL.

Key	Summary and Workaround
WIPGRS-662	<p>Summary: You cannot fetch Auto suggestion on Windows for PostgreSQL default public schema.</p> <p>Workaround: None.</p>

Flogo Connector for TIBCO Data Virtualization

The following issues exist in this release of TIBCO Flogo® Connector for TIBCO® Data Virtualization.

Key	Summary and Workaround
FGTDV-205	<p>Summary: Additional logs appear when the user stops a running binary.</p> <p>Workaround: None</p>
FGTDV-151	<p>Summary: Tables are not auto-populated (if you use Ctrl + space) when you open an app after sometime.</p> <p>Workaround: Go to the Settings tab, change the catalog and switch it back. You can see the tables being auto-populated.</p>
FGTDV-46	<p>Summary: With Retry On Error before all retry attempts are completed, if we start the TDV server then the app does not auto connect.</p> <p>Workaround: None</p>
FGTDV-45	<p>Summary: The delay between retry attempts is more than 2 minutes when the TDV server is unreachable, not honoring connection timeout.</p> <p>Workaround: None</p>

Flogo Connector for WebSockets

The following issue has been reported in this release of TIBCO Flogo® Connector for WebSockets.

Key	Summary and Workaround
FGWSKT-125	<p>Summary: The TCI exported app does not work in TIBCO Flogo® Connector for WebSockets.</p> <p>Workaround: When you make any change in the app and save it again, the app gets corrected and runs as expected.</p>

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

Product-Specific Documentation

The following documentation for this product is available on the [TIBCO Flogo® Extension for Visual Studio Code Product Documentation](#) page:

- *TIBCO Flogo® Extension for Visual Studio Code Release Notes*
- *TIBCO Flogo® Extension for Visual Studio Code Installation*
- *TIBCO Flogo® Extension for Visual Studio Code User Guide*
- *TIBCO Flogo® Extension for Visual Studio Code Mapper Functions Guide*

Other TIBCO Product Documentation

When working with TIBCO Flogo® Extension for Visual Studio Code, you may find it useful to read the documentation of the following TIBCO products:

- [TIBCO® Control Plane](#)
- [TIBCO Flogo® Enterprise](#)
- [TIBCO Cloud™ Integration](#)

How to Access Related Third-Party Documentation

When working with TIBCO Flogo® Extension for Visual Studio Code, you may find it useful to read the documentation of Visual Studio Code: <https://code.visualstudio.com/>.

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 [TIBCO Community](#).

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