



# **TIBCO Flogo® Enterprise**

## **Security Guide**

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# Security Features

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TIBCO Flogo® Enterprise includes the following security features:

- Flogo® Enterprise uses TLS for triggers such as the ReceiveHTTPMessage REST trigger, and the GraphQL trigger.
- The InvokeRESTService Activity supports server authentication using SSL certificates.
- Some Flogo Enterprise connectors use HTTPS for clients to connect securely to the services.
- Flogo Enterprise gives you the ability to store app secrets in external configuration management systems.

You can encrypt the password values using an internal proprietary utility and then store the encrypted value in an external configuration management system. This prevents the Secret from being exposed in plain text format.

- You can set API keys that can be used to register their app with Flogo Enterprise monitoring. This mitigates the vulnerability of your app.
- For advanced security capabilities, we recommend using specialized solutions such as API Gateway.

# Security Vulnerabilities

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This topic describes the key security technologies for Flogo Enterprise software. In addition to these key technologies, security also depends in part upon the correct use of its capabilities.

- Unauthorized access to the UI or your development environment

Make sure you do not share your Flogo Enterprise installation with other users. Do not allow other users to remote login to your machine and use your Flogo Enterprise installation. Do not give the host IP or name of the machine on which your Flogo Enterprise is running to another user. Doing so allows the user to access your Flogo Enterprise installation from a remote browser by constructing the URL (`http://<your_machine_IP>:8090`) with your IP. If your IP is publicly accessible, your apps can be compromised.

- Flogo Enterprise uses some third-party software, for example, Docker and OpenSSL. If the security of the third-party software gets compromised, it can compromise the security of the UI too.
- Currently, Flogo Enterprise does not support HTTPS to secure communication from the browser to the server. Hence, we recommend that the browser used to access Flogo Enterprise reside on the same machine as your Flogo Enterprise installation.

# Product Connectivity

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Flogo Enterprise follows the client-server model.

# Developing Secure Apps

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Ensure that the browser you use to access your Flogo Enterprise installation is on the same machine as the Flogo Enterprise installation. Do not make your Flogo apps accessible from outside of your machine.

# TIBCO Documentation and Support Services

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

## How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

## Product-Specific Documentation

The documentation for TIBCO Flogo® Enterprise is available on the [TIBCO Flogo® Enterprise Product Documentation](#) page.

## How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, 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 [TIBCO Community](#).



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