TIBCO BusinessConnect™ Container Edition

Installation and Deployment

Version 1.3.0 | October 2023

Contents

Introduction

TIBCO BusinessConnect™ Container Edition is the containerized edition of TIBCO BusinessConnect™, TIBCO's leading enterprise B2B gateway.

BusinessConnect™ Container Edition does not have TIBCO Universal Installer. It contains scripts and configuration files with preloaded settings to build and deploy Docker images of each component either on Docker or Kubernetes platform.

Installation Requirements

Before you install and deploy the application, ensure that your system meets all the hardware and software requirements. For more information about the hardware and software requirements, supported platforms, versions, and the required patches, see the product *Readme* file.

The *Readme* file can be obtained either on the TIBCO Product Documentation website or from the TIBCO eDelivery website with the product software.

> **Note:** To access the TIBCO eDelivery website, you need a user name and password. If you did not receive a user name and password, contact TIBCO Support.

System Requirements

Disk Space

The minimum disk space requirement is 10 GB.

System Memory

The minimum system memory requirement is 8 GB.

Platform

The supported platforms are as follows:

- CentOS 7.7 64-bit on x86-64
- Red Hat Enterprise Linux Server 8.x 64-bit on x86-64

Required TIBCO Products

The following table lists the required and optional TIBCO products:

> ℹ **Note:** The following software products are distributed and installed separately from this product. See the *Readme* file for the supported versions.

Software	Description
TIBCO® AuditSafe	Required. TIBCO AuditSafe is used to securely post and store audit events generated by your business processes, and retrieve those events later. You must deploy TIBCO AuditSafe to post audit logs from BusinessConnect Container Edition.
TIBCO Enterprise Message Service™	Required. Enterprise Message Service™ is used as the notification and messaging backbone for BusinessConnect Container Edition. It is also used for internal communication between the Interior Server and Poller Server, and Interior Server and Gateway Server. BusinessConnect Container Edition and Enterprise Message Service can be installed on the same machine or on different machines in the same environment. BusinessConnect Container Edition license does not include Enterprise Message Service software. You must separately obtain an Enterprise Message Service license.
TIBCO BusinessConnect™ Container Edition – Services Plug-in	Optional. BusinessConnect™ Container Edition – Services Plug-in is an easy-to-use data transfer protocol, which you can use to securely exchange data over the internet.

Software	Description
	Trading partners managed by BusinessConnect Container Edition can quickly and efficiently be configured to exchange documents securely with the BusinessConnect Container Edition host using this plug-in, without the overhead of interpreting the document contents.
TIBCO BusinessConnect™ Container Edition EDI Protocol powered by Instream®	Optional. BusinessConnect™ Container Edition EDI Protocol powered by Instream is the TIBCO B2B solution for transferring Electronic Data Interchange (EDI) documents between trading partners. It can be used for all EDI integration scenarios, including connecting directly to trading partners and connecting to value added networks (VANs).
TIBCO BusinessConnect™ Container Edition – RosettaNet Protocol	Optional. BusinessConnect™ Container Edition – RosettaNet Protocol is the TIBCO implementation of RosettaNet. It acts as a plug-in to BusinessConnect Container Edition and uses business process models that conform to the RosettaNet Partner Interface Process standard, which enables you to conduct e-business transactions with your trading partners using RosettaNet. BusinessConnect Container Edition – RosettaNet Protocol implements the RNIF 1.1 and RNIF 2.0 standards. It supports all PIPs listed as approved standards on the *RosettaNet website*.
TIBCO BusinessConnect™ Container Edition- SOAP Protocol	TIBCO BusinessConnect™ Container Edition - SOAP Protocol is the TIBCO implementation of SOAP. It acts as a plug-in to TIBCO BusinessConnect™ Container Edition, which enables you to conduct e-business transactions with your trading partners using SOAP.

Software	Description
TIBCO BusinessConnect™ Container Edition - ebXML Protocol	TIBCO BusinessConnect™ Container Edition - ebXML Protocol is the containerized edition of TIBCO BusinessConnect™ ebXML Protocol. You can use ebXML Protocol with TIBCO BusinessConnect™ Container Edition to enable users of TIBCO BusinessConnect to conduct e-commerce tansactions with ebXML protocol. TIBCO BusinessConnect ebXML Protocol implements ebXML Message Service 2.0 and AS4 Profile of ebMS3 specification.
TIBCO BusinessConnect™ Container Edition- EDI Protocol HIPAA Edition powered by Instream®	TIBCO BusinessConnect™ Container Edition - EDI Protocol HIPAA Edition powered by Instream® is the containerized edition of TIBCO BusinessConnect™ EDI Protocol HIPAA Edition powered by Instream®. You can use BusinessConnect™ Container Edition - EDI Protocol HIPAA Edition powered by Instream with TIBCO BusinessConnect™ Container Edition to engage in electronic commerce using the standards established for exchanging electronic health care transactions through the Health Insurance Portability and Accountability Act of 1996.

Required Third-Party Products

The following table lists the required third-party products:

> ℹ️ **Note:** When you obtain third-party software or services, it is your responsibility to ensure you understand the license terms associated with such third-party software or services and comply with such terms. See the product *Readme* file for the supported versions.

Software	Description
Docker	Docker provides a way to securely run applications isolated in a container,

Software	Description
	packaged with all its dependencies and libraries. Your application can run in any environment as all the dependencies are already present in the image of the application. You must install Docker to build the Docker images. For more information about Docker installation and initial setup based on your operating system, see *Docker Documentation*.
Elasticsearch	Elasticsearch is a distributed, open source search and analytics engine for all types of data, including textual, numerical, geospatial, structured, and unstructured. The Elasticsearch REST APIs support structured queries, full text queries, and complex queries that combine the two. TIBCO recommends that you install Elasticsearch 7.6 or later. For more information, see *ElasticSearch Documentation*.
kubectl	Kubernetes provides many advantages such as scaling, high-availability, and recovery. You must install Kubectl to deploy BusinessConnect Container Edition on the Kubernetes cluster. For more information, see *Kubernetes Documentation*.
Kubernetes cluster	You must set up a Kubernetes cluster to deploy and run the BusinessConnect Container Edition services. **Note:** To run the application in a Kubernetes cluster on a cloud platform, you must have an active account on that cloud platform.
MySQL	You need to create one database for BusinessConnect Container Edition and one for AUS. If the AUS database is already created while installing TASEE, only create one database for BusinessConnect Container Edition
Oracle	You can install one of the supported database services to facilitate the storage, retrieval, modification, and deletion of data in conjunction with various data-processing operations. For more information, see *Database Documentation*.

BusinessConnect Container Edition Dockerfiles and Scripts

BusinessConnect Container Edition installation and deployment package provide all the necessary Dockerfiles, scripts, and configuration files to install, deploy, and uninstall all the BusinessConnect Container Edition services or deployments.

Dockerfiles and Scripts

A Dockerfile is simply a text-based script of instructions that is used to create a container image.

File	Description
`build-images.sh`	Creates the BusinessConnect Container Edition Docker images and push the images to the Docker repository. File Location: `/bcce-1.3.0/images/scripts`
`docker-run-bcce-all.sh`	Deploys BusinessConnect Container Edition services onto the Docker cluster. File location: `/bcce-1.3.0/deployment/samples/scripts`
`deploy-bcce.sh`	Deploys the BusinessConnect Container Edition services onto the Kubernetes cluster File Location: `bcce-1.3.0/deployment/k8s-scripts`

File	Description
`stop_bcce_containers.sh`	Removes all BusinessConnect Container Edition services on the Docker File location: /bcce-1.3.0/deployment/samples/dockerscripts
`remove_bcce_services.sh`	Deletes all the BusinessConnect Container Edition services and deployments File Location: `bcce-1.3.0/deployment/k8s-scripts`
`apply_secret_cert.sh`	Creates the Kubernetes secret bcce-gs-config for two key/cert files File Location: `bcce-1.3.0/deployment/k8s-scripts`
`apply_secret_docker_login.sh`	Creates the Kubernetes secret Docker-registry for Docker login File Location: `bcce-1.3.0/deployment/k8s-scripts`
`apply_secret_log4j2.sh`	Creates the Kubernetes secret log4j2 with the `log4j2.xml` File Location: `bcce-1.3.0/deployment/k8s-scripts`
`apply_secret_log4j2_json.sh`	Creates the Kubernetes secret log4j2_json with the `log4j2.json` File Location: `bcce-1.3.0/deployment/k8s-scripts`
`apply_secret_aus_database.sh`	Creates the Kubernetes secret for aus database File Location: `bcce-1.3.0/deployment/k8s-scripts`

File	Description
`apply_secret_credentials.sh`	Creates the Kubernetes secret credentials File Location: `bcce-1.3.0/deployment/k8s-scripts`
`apply_secret_customized_properties.sh`	Creates the Kubernetes secret customized properties File Location: `bcce-1.3.0/deployment/k8s-scripts`
`apply_secret_database.sh`	Creates the Kubernetes secret for database File Location: `bcce-1.3.0/deployment/k8s-scripts`

Configuration files

A configuration file (config file) is used to configure the parameters, settings, and preferences.

File	Description
`configuration.properties`	Contains all the properties that user has to set to build the BusinessConnect Container Edition's Docker images and deploy to the Kubernetes cluster File location: `bcce-1.3.0/deployment/config`
`credentials.properties`	Default file to create the Kubernetes credentials secret. File location: `bcce-1.3.0/deployment/config`
`deployment.properties`	Contains all the properties that user has to set to deploy the BusinessConnect Container Edition's Docker images to the Kubernetes cluster File location: `bcce-1.3.0/deployment/config`

File	Description
log4j2.xml	Default XML file to create the Kubernetes log4j2 secret. You can also change logger levels for all servers except Admin Server using this file. File location: bcce-1.3.0/deployment/config
log4j2.json	Default JSON file to create the Kubernetes log4j2_json secret. You can change logger levels only for Admin Server using this file. File location: bcce-1.3.0/deployment/config

Installing BusinessConnect Container Edition Application

Before you begin

Ensure that you have the infrastructure and other requirements listed in Installation Requirements.

To deploy and run BusinessConnect Container Edition components on Docker or Kubernetes platform, perform the steps described in the following sections.

- Building BusinessConnect Container Edition Component's Docker Images

- Deploying BusinessConnect Container Edition Component's Docker Images

> **Note:** For more details on migrating BusinessConnect Container Edition 1.3.0 from older BusinessConnect Container Edition versions, see Exporting the Old Configuration before you start the installation.

Building BusinessConnect Container Edition Component's Docker Images

To run the BusinessConnect Container Edition components on Docker or Kubernetes platform, you must first build the Docker images for the components and applications.

Before you begin

1. From TIBCO eDelivery, download the `TIB_bcce_<version>.tar.gz` installation and deployment package.

2. Extract the contents of the package to a local directory.

3. Install the required protocols, such as, EZComm, RosettaNet, EDI (X12, EDIFACT, and

Gateway), ebXML, SOAP and EDI HIPAA. Any number of supported protocols can be installed. For installing a protocol, refer to protocol's *Installation document.*

Procedure

1. Navigate to the `<folder>/bcce-1.3.0/images/config` directory.

2. Open the `configuration.properties` file and configure the properties listed in the following table.

Property	Description
docker_ repository=*<docker_ registry_ip>:<docker_registry_ port>*	*<docker_registry_ip>* is the IP address and *<docker_registry_port>* is the port of the machine to which you want to push the Docker images
docker_username	Specify the user name required to log in to Docker
download_dir=*<download_ dir>*	*<download_dir>* is the directory path where you want to download all the JAR files

3. Save and close the `configuration.properties` file.

4. Navigate to the `<folder>/bcce-1.3.0/images/scripts` directory.

5. Run the following command:

```
./build-images.sh
```

6. Follow the command-line interface instructions, review the license agreement, and enter `y` to accept it.

7. When prompted:

```
Do you want to push the BCCE docker images to <docker_registry_ip>:<docker_
registry_port>?
If not, the BCCE docker images will still be built at local.
```

```
(y/n)
```

Enter y to build the Docker images.

> **Note:** The following message displays only if you have installed EDI HIPAA.

8. When ConfigStore Management Server starts building, it asks if guidelines from instream are to be copied:

```
Do you need to copy the EDI HIPAA guidelines from TIBCO instream
installation? (y/n)
```

Enter y.

```
Please enter the TIBCO instream installation home
```

Provide instream home.

Result

The following BusinessConnect Container Edition Docker images are built and pushed to the Docker repository:

- bcce-gs

- bcce-is

- bcce-ps

- bcce-as

- bcce-cms

Deploying BusinessConnect Container Edition Component's Docker Images

To deploy the BusinessConnect Container Edition component's Docker images on the Docker or Kubernetes platform, perform the following steps.

Before you begin

> ⚠ **Important:** Before you deploy Docker images, if you are using MySQL 5.7.*x* or later versions; then in the `my.ini` file under **[mysqld]** section, you must add **skip_ssl**, set **max_allowed_packet** to `1024M` and set `explicit_defaults_for_timestamp` to **0**

Procedure

1. Navigate to the `<folder>/bcce-<version>/deployment/config` directory.

2. Open the `deployment.properties` file and configure the properties listed in the following table.

Property	Description
Docker Properties	
docker_repository=*<docker_registry_ip>:<docker_registry_port>*	*<docker_registry_ip>* is the IP address and *<docker_registry_port>* is the port of the machine from which you want to pull the Docker images from.
docker_username	Specify the user name required to log in to Docker.
host_ip=*<host_ip>*	*<host_ip>* is the IP address of the host machine, host name, or Kubernetes cluster.
gstoken_unzip=*<gstoken_unzip>*	*<gstoken_unzip>* is the directory path where you should extract the contents of `GSToken.zip` file. `gstoken` can be downloaded from Admin UI after the deployment of Admin server.
Database properties	
database_url=jdbc:mysql://*<database_*	*<database_machine_ip>* is the IP address of the

Property	Description
machine_ip>:3306/*<database_ schema> ?useSSL=false\\&allowPublicKeyRetrieval=true* for MySQL database	machine where the database resides. The default value in `deployment.properties` is **bcce**.
database_ url=jdbc:oracle:thin:@*<machine_ ip>*:1521:*<serv_id>* for Oracle Database	*<machine_ip>* is the IP address of the machine where the database resides. *<serv_id>* is the service identifier for oracle instance.
database_username=*<username>*	*<username>* is the name of the user accessing the database.
database_password=*<password>*	*<password>* is the password to access the database.
database_ driver=com.mysql.cj.jdbc.Driver for MySQL database **database_ driver**=oracle.jdbc.OracleDriver for Oracle Database	Configure the database driver property accordingly.
Optional **mount_path**=*<nfs_path>*	*<nfs_path>* is the path for Poller Server and Interior Server to monitor or get the files mount_path. **Note:** You need to install and configure a working NFS for this feature to work.
Optional **mount_path2**=*<nfs_path>*/*<folders>*	Path for Interior Server to store the large EDI files.

Property	Description
	Note: The value of `mount_path2` should be different from the value of `mount_path`.
Optional **Poller Server Properties**	
`bcce_poller_engine and bcce_poller_other_servers_instances`	Default value is 1. One server is deployed unless the value is explicitly set to 0 (zero)
`bcce_poller_other_servers_refresh_rate`	The time intervals for which the changes for these pollers are dynamically updated to servers from the UI Default value is 300 seconds.
`bcce_poller_other_servers_weight`	The priority given to each server. 10 being the highest and 1 being the lowest. Server with 10 weight starts first and server with weight 1 starts last.

3. Configure additional properties that are specific to Kubernetes services: Amazon Elastic Kubernetes Service (AWS EKS), Azure Kubernetes Service (AKS), or Google Cloud Kubernetes Engine (GKE).

4. Save and close the `deployment.properties` file.

5. To deploy the BusinessConnect Container Edition component's Docker images, run one of the following commands depending on the platform:

   - **Kubernetes**: Navigate to the `<folder>/bcce-<version>/deployment/k8s-scripts` directory and run the following command:

     ```
     ./deploy-bcce.sh
     ```

   - **Docker**: Navigate to the `<folder>/bcce-<version>/deployment/samples/docker-scripts` directory and run the

following command:

```
./docker-run-bcce-all.sh
```

6. Follow the command-line interface instructions, review the license agreement, and enter y to accept it.

7. This step is applicable only if you want to deploy BusinessConnect Container Edition services on Kubernetes, otherwise skip this step.

   When prompted:

   ```
   Which Kubernetes environment do you want to deploy TIBCO BCCE
   services?
   1. Native Kubernetes

   2. AWS EKS

   3. Azure AKS

   4. Google Cloud GKE

   q. Quit
   ```

   Enter 1, 2, 3, 4, or q.

8. When prompted:

   ```
   Do you want to deploy TIBCO BCCE Server services?
   1. ConfigStore Management Server

   2. Admin Server

   (y/n)
   ```

   Enter y to deploy ConfigStore Management Server and Admin Server.

   > ℹ **Note:** To reflect the dynamic updates from ConfigStore Management Server to Interior Server or Poller Server, restart the ConfigStore Management server after the JMS details are configured.

9. Perform the following steps to configure JMS Server settings; before you deploy Poller Server and Interior Server.

   a. Log in to the BusinessConnect Container Edition application using the URL:

```
http://<host_ip>:<as_port>.
```

> ✅ **Tip:** Use the **`<host_ip>`** and **`<as_port>`** that you have set in the
> `deployment.properties` file.

b. Go to System Settings > General, click **Internal Messaging (JMS)**.

> ℹ️ **Note:** For more information on how to configure Private Process
> JMS, Intercomponent JMS, or Intercomponent DMZ-JMS, see the
> "Configuring JMS Settings" topic in *TIBCO BusinessConnect™
> Container Edition Administration Guide*.

c. Click **Private Process JMS**, select or enter information in all the mandatory
fields, and click **Save**.

d. Click **Intercomponent JMS**, select or enter information in all the mandatory
fields, and click **Save**.

e. Optional: To use different JMS between Gateway Server and Interior Server,
click **Intercomponent DMZ-JMS (Optional)**, select or enter information in all
the mandatory fields, and click **Save**.

10. On the command-line interface, when prompted:

```
Do you want to deploy TIBCO BCCE Server services?
3. Poller Server
4. Interior Server
Please make sure the JMS Server settings are done properly from the
BCCE Admin UI.
Otherwise, the Poller Server and Interior Server won't work.
(y/n)
```

Enter y to deploy Poller Server and Interior Server.

11. Perform the following steps to download the `GSToken.zip` file; before you deploy
Gateway Server.

a. Go to System Settings > Transport Protocols > Inbound Protocols.

b. Select the **HTTP** checkbox and click **Save**.

c. Click **Configure Service** of **HTTP** and click **Add** ➕.

d. Enter **Gateway Service Name**, select HTTP from the **Gateway Service Type** list and click **Proceed**.

> ✔ **Tip:** Default **Gateway Service Name** is set to `http` in the `deployment.properties` file. To use another **Gateway Service Name**, set *<service name>* for **gs_services**=HTTP:*<service name>* in the `deployment.properties` file.

e. Select the **Enable** checkbox to enable the Gateway Service and configure the **Ports**, **Advanced**, and **Credentials** tabs. For more information on how to configure these tabs, see the "Configuring Gateway Services (HTTP)" topic in *TIBCO BusinessConnect™ Container Edition Administration Guide*.

f. On the Admin UI, go to System Settings tile > General, click **Installation Properties**.

g. Click **Export GS configuration** to download the `GSToken.zip` file, which contains `intercomProps`, `hostKey`, and `peerCert` files that are required to deploy Gateway Server.

h. Extract the contents of `GSToken.zip` to the **<gstoken_unzip>** directory.

> ✔ **Tip:** Use the **<gstoken_unzip>** that you have set in the `deployment.properties` file.

12. On the command-line interface, when prompted:

```
Do you want to deploy TIBCO BCCE Gateway Server services?
Please make sure that you have downloaded the GSToken.zip from
Admin UI, extracted it
in a folder and set the property gstoken_unzip in the
deployment.properties file.
Otherwise, the Gateway Server won't work.
(y/n)
```

Enter `y` to deploy Gateway Server.

Result

You have deployed all the components of the BusinessConnect Container Edition application.

What to do next

Configure the Outbound Email poller to receive an email in the event of a forgotten password.

Viewing Container Logs

All the BusinessConnect Container Edition component containers publish their logs on the standard output device.

To view logs of a particular container, run one of the following commands depending on the platform:

- **Docker**:

  ```
  docker logs <containername>
  ```

- **Kubernetes**:

  ```
  kubectl logs <container_id> -n <k8s_namespace>
  ```

  Where *<k8s_namespace>* is Kubernetes namespace that you have set in the `deployment.properties` file.

  > **Note:** If *<k8s_namespace>* is not set, then its default value is *bcce*.

  > **Tip:** To follow logs use `--follow`.

BusinessConnect Container Edition Migration

To migrate from earlier versions to TIBCO BusinessConnect™ Container Edition 1.3.0, perform the following steps.

Migrating from Release 6.4.x or 7.x

To migrate from TIBCO BusinessConnect™ 6.4.x or 7.x to BusinessConnect™ Container Edition 1.3.0, complete the following steps:

Exporting the Old Configuration

Perform the following steps to export the existing BusinessConnect™ 6.4.x or 7.x configuration by using the TIBCO Administrator GUI:

Procedure

1. Log in to TIBCO Administrator. Click **BusinessConnect** in the left panel, and then click **Manage** in the right panel.

2. In the Management area of the Manage Installation dialog box, click **Export**.

3. (Optional) You can also set a password to protect the exported data. In the Configuration Data Export dialog box, click **Set**.

4. Click **Export** to export the existing configuration. Do not exit until the export process is successfully completed.

5. Click **Download**.

   You are prompted to confirm that you want to download the *InstallationName*.csx file and to specify where the file is to be saved. The exported configuration is secure and can be imported into BusinessConnect Container Edition as explained in the following steps.

> **ⓘ** **Note:** To perform migration from TIBCO BusinessConnect 6.4.x or 7.x to TIBCO BusinessConnect™ Container Edition 1.3.0, the systems must contain an identical set of protocols.

Importing the Old Configuration to Trigger Migration

To import the saved old installation, perform the following steps:

1. Log in into the TIBCO BusinessConnect Container Edition UI.

2. In **System Settings**, click **Installation Properties** under the General tab.

3. On the Installation Properties page, click **Import Configuration**.

4. In the right panel, click **Upload file**, navigate to the location where the `.csx` file is saved and upload the file. Provide password (if any).

5. Click **Start Importing** and wait for the import process to complete.

> **❗** **Important:** Do not exit this process while data is being imported. If the data import process is interrupted for any reason, the system might be left in an unpredictable state. In this case, you have to recreate the installation and perform a new import operation.

> **ⓘ** **Note:** If you wish to migrate from one BusinessConnect Container Edition to the other, export the `.bcce` file by using the **Export BCCE configuration** option in the Installation Properties page and follow the importing procedure.

Migrating from Release 1.0.0, 1.1.0, 1.1.1, or 1.2.0

To migrate from TIBCO BusinessConnect Container Edition 1.0.0, 1.1.0, 1.1.1, or 1.2.0 to TIBCO BusinessConnect Container Edition 1.3.0, complete the following steps:

Exporting the Old Configuration

Perform the following steps to export the existing TIBCO BusinessConnect Container Edition 1.0.0, 1.1.0, 1.1.1, or 1.2.0 configuration by using the TIBCO Admin UI:

1. In the Admin UI, navigate to **System Settings > General > Installation** Properties.

2. On the Installation Properties page, click **Export BCCE configuration**.

3. In the Export Configuration Data dialog box, click **Export**.
   Setting the password is optional.

4. Click **Export** and wait for the export process to complete.

5. After the export process is completed, click **Download**, and save the exported `.bcce` file to a desired location.

   The exported configuration is secure and can be imported into BusinessConnect Container Edition as explained in the following steps.

> **(i) Note:** To migrate from TIBCO BusinessConnect Container Edition 1.0.0, 1.1.0, 1.1.1, or 1.2.0 to TIBCO BusinessConnect™ Container Edition 1.3.0, the systems must contain an identical set of protocols.

Importing the Old Configuration to Trigger Migration

To import the saved old configuration, perform the following steps:

1. Log in to the TIBCO BusinessConnect Container Edition UI.

2. In **System Settings**, click **Installation Properties** under the **General** tab.

3. On the Installation Properties page, click **Import Configuration**.

4. In the right panel, click **Upload file**, navigate to the location where the `.bcce` file is saved and upload the file. Provide password (if any).

5. Click **Start Importing** and wait for the import process to complete.

> **Important:** Do not exit this process while data is being imported. If the data import process is interrupted for any reason, the system might be left in an unpredictable state. In this case, you have to recreate the installation and perform a new import operation.

Uninstalling BusinessConnect Container Edition

To uninstall BusinessConnect Container Edition, perform the following steps:

Procedure

1. To remove all the BusinessConnect Container Edition services or deployments, run one of the following commands depending on the platform:

   - **Kubernetes**: Navigate to the *<folder>*/`bcce-`*<version>*/`deployment/k8s-scripts` directory and run the following command:

     ```
     ./remove_bcce_services.sh
     ```

   - **Docker**: Navigate to the *<folder>*/`bcce-`*<version>*/`deployment/samples/docker-scripts` directory and run the following command:

     ```
     ./stop_bcce_containers.sh
     ```

2. Delete all the Docker images.

What to do next

Delete the database that you have set up for BusinessConnect Container Edition.

TIBCO Documentation and Support Services

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 following documentation for TIBCO BusinessConnect™ Container Edition is available on the TIBCO BusinessConnect™ Container Edition page.

- *TIBCO BusinessConnect™ Container Edition Release Notes*

- *TIBCO BusinessConnect™ Container Edition Installation and Deployment*

- *TIBCO BusinessConnect™ Container Edition Concepts*

- *TIBCO BusinessConnect™ Container Edition Trading Partner Management*

- *TIBCO BusinessConnect™ Container Edition Administration*

- *TIBCO BusinessConnect™ Container Edition Security Guidelines*

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.

Legal and Third-Party Notices

for the availability of a specific version of Cloud SG software on a specific operating system platform.