



TIBCO BusinessConnect™

Release Notes

Version 7.4.0

May 2023



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New Features

The following features have been added in this release of TIBCO BusinessConnect™.

- **Support for MySQL8**
TIBCO BusinessConnect™ now supports MySQL 8.0.x.
- **Support for Microsoft SQL Server 2022**
TIBCO BusinessConnect™ now supports Microsoft SQL Server 2022.
- **Support for Oracle 21c**
TIBCO BusinessConnect™ now supports Oracle Database 21c.

Changes in Functionality

The following functionality change has been made in this release of TIBCO BusinessConnect™.

External Reporting

You can now build the reports externally by using TIBCO BusinessConnect™ data. This includes both the audit data and the configuration data.

Deprecated and Removed Features

The following feature has been removed as of this release of TIBCO BusinessConnect™.

Removed Features

| Affected Component | Description | Deprecated Release | Removed Release |
|---------------------------|---|---------------------------|------------------------|
| JasperReports Dashboard | This version of the product no longer supports JasperReports Dashboard. | 7.4.0 | 7.4.0 |

Migration and Compatibility

The following information provides migration procedures and a compatibility matrix for this release of TIBCO BusinessConnect™.

i Note: Before installing TIBCO BusinessConnect™ 7.4.0, ensure that you stop all running TIBCO processes, such as TIBCO Hawk® and TIBCO Administrator™, because an updated JRE is part of the installation package. If any TIBCO processes are running, the installer issues a warning to stop the processes.

Migrating from Release 6.3.x, 6.4.x, or 7.x

To migrate data from TIBCO BusinessConnect 6.3.x, 6.4.x, or 7.x perform the following tasks:

- [Exporting the Old Configuration](#)
- [Exporting Domain Security Privileges](#)
- [Removing Old Applications](#)
- [Uninstalling TIBCO BusinessConnect 6.3.x, 6.4.x, or 7.x and Existing Protocols](#)
- [Installing and Configuring TIBCO BusinessConnect 7.4.0](#)
- [Importing Previously Exported Domain Security Privileges](#)
- [Importing the Old Configuration to Trigger Migration](#)
- [Upgrading the Other Database Schemas](#)

Exporting the Old Configuration

Perform the following steps to export the existing TIBCO BusinessConnect 6.3.x, 6.4.x, or 7.x configuration by using TIBCO Administrator GUI:

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

1. In the **Management** area of the Manage Installation dialog, click **Export**.
2. (Optional) In the Configuration Data Export dialog, click **set** to set a password to protect the exported data.
3. Click **Export** to export the existing configuration.
Do not exit until the export process is successfully completed.
4. 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 TIBCO BusinessConnect 7.4.0 as outlined in the following steps.

Exporting Domain Security Privileges

Export the domain security privileges along with Access Control List (ACL). Perform this task if either of the following conditions apply to your implementation:

- TIBCO Runtime Agent or TIBCO Administrator is upgraded.
- Data is migrated from one domain to another.

For more information, see *TIBCO Runtime Agent Domain Utility User Guide*.

If the domain data remains in the same domain after the upgrade, proceed to [Removing Old Applications](#).

Removing Old Applications

Perform the following steps to remove old applications:

1. Undeploy any existing TIBCO BusinessConnect applications.
For more information regarding undeployment, see *TIBCO BusinessConnect™ Interior Server Administration*, "Removing TIBCO BusinessConnect."

2. Delete TIBCO BusinessConnect applications.

For more information regarding removing the application, see *TIBCO BusinessConnect™ Interior Server Administration*, "Removing TIBCO BusinessConnect."

Uninstalling TIBCO BusinessConnect 6.3.x, 6.4.x, or 7.x and Existing Protocols

To uninstall TIBCO BusinessConnect 6.3.x, 6.4.x, or 7.x and existing protocols, perform the following steps:

Stop all running TIBCO processes, such as TIBCO Hawk and TIBCO Administrator.

1. Uninstall TIBCO BusinessConnect 6.3.x, 6.4.x, or 7.x and existing protocols. See the "Uninstallation" topic in the TIBCO BusinessConnect™ Installation and Configuration guide for more information about uninstalling BusinessConnect 6.3.x or 7.x. To uninstall existing protocols, see the installation guide of each protocol

i Note: Ensure that the BC-HOME directory is deleted. If it still exists, you must manually delete it.

2. Restart TIBCO Administrator and TIBCO Hawk.

Installing and Configuring TIBCO BusinessConnect 7.4.0

To install TIBCO BusinessConnect 7.4.0 and appropriate protocols, perform the following steps:

i Note After installing TIBCO BusinessConnect 7.4.0, if you want to use TIBCO BusinessConnect security features, you must install the Unlimited Strength JCE Policy files. For more information regarding the installation of the Unlimited Strength JCE Policy files, see *TIBCO BusinessConnect™ Installation and Configuration*.

1. Install TIBCO BusinessConnect 7.4.0. For more information, see *TIBCO BusinessConnect™ Installation and Configuration*.
2. Install the appropriate protocols. For more information, see the documentation of each protocol. To perform migration from TIBCO BusinessConnect 6.3.x, 6.4.x, or 7.x to 7.4.0, the systems must contain an identical set of protocols.

3. Configure the TIBCO BusinessConnect 7.4.0 installation.
This operation upgrades the configuration store database schemas. For more information, see *TIBCO BusinessConnect™ Installation and Configuration*, "Postinstallation."
4. After the installation is configured, activate the protocols.
For more information, see the documentation of each protocol.

Importing Previously Exported Domain Security Privileges

If the domain security privileges were exported as in [Exporting Domain Security Privileges](#), import them back to TIBCO Administrator.

For more information, see *TIBCO Runtime Agent Domain Utility User Guide*.

Importing the Old Configuration to Trigger Migration

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

1. Click **BusinessConnect** in the left panel, and then click **Manage** in the right panel.
2. In the **Management** area of the Manage Installation dialog, click **Import**.
3. In the Configuration Data Import dialog, click **change**.
4. In the Change File dialog, click **Browse** to specify where the *InstallationName.csx* file was saved. Click **OK**.
5. If the configuration file is saved with a password, enter that password.
6. Click **Import**.
7. When the Configuration Import dialog is displayed, click **OK** to import the exported data.
The migration process starts and the configuration store data is imported.



Note

Do not exit this process while data is being imported. It is important to wait until this process is completed. 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.

Upgrading the Other Database Schemas

After importing the old configuration, upgrade the other database schemas.

The following logs and runtime databases schemas are required to be upgraded:

- Audit Schemas, which are used to store audit information.
- Non-Repudiation Schemas, which are used to store non-repudiation information.
- Runtime Schemas, which are used by the TIBCO BusinessConnect runtime engine.

The migration code upgrades schemas if all of the following conditions are met:

- The database specified in TIBCO BusinessConnect 7.4.0 configuration is started and is running.
- The user schema privileges are appropriate.
- Old database schemas are not removed.
- The audit, non-repudiation, and runtime handles are not different from the configuration store handle.

If any of these requirements are not met, you have to create the schema tables manually.

If one or more requirements for upgrading the other database schema tables are not met, you have to update tables for audit logs, non-repudiation logs, or runtime manually by performing the following steps:

In TIBCO Administrator, expand **BusinessConnect > System Settings > Audit, Non-Repudiation and Runtime Database Configuration**.

1. From the **Target Table Type** list, select the table type to upgrade:
 - Audit Log
 - Non Repudiation Log
 - Runtime Data Store
2. Click **Create**.
3. In the Table Creation dialog:
 - Click **Create** to remove existing tables and recreate them.
 - Click **Update** to update tables with incremental changes.
4. Click **OK**.

After the other database schemas are upgraded, the whole migration process is completed.

Closed Issues

The following issues have been fixed in this release of TIBCO BusinessConnect™.

| Key | Summary |
|----------|---|
| BC-11527 | Interior server fails when you try to set up an SSL/TLS encrypted connection to the MySQL database. |
| BC-11340 | Gateway server fails TLS handshake with no cipher suites in common. |

Known Issues

The following issues exist in this release of TIBCO BusinessConnect™.

| Key | Summary/Workaround |
|----------|--|
| BC-11598 | <p>Summary: After the installation process, when you start the services BusinessConnect war file does not load on the Admin UI.</p> <p>Workaround: Increase the heap size to 1024M for hawkagent_domainname.tra file and tibcoadmin.tra file to get BusinessConnect war file loaded.</p> |
| BC-11587 | <p>Summary: Gateway Server fails to start when TIBCO BusinessConnect is initialized with the MySQL8 database.</p> <p>Workaround: Add the <code>explicit_defaults_for_timestamp = 0</code> property to <code>my.cnf</code>, restart MySQL server, and initialize the database.</p> |
| BC-11466 | <p>Summary: When the MTOM checkbox is enabled for the SOAP protocol, the "org.apache.james.mime4j.stream.MimeConfig: method" exception occurs.</p> <p>Workaround: None.</p> |
| BC-11120 | <p>Summary: For successful Gmail transactions, records in the <code>bc_process_details</code> table do not get deleted.</p> <p>Workaround: None</p> |
| BC-10423 | <p>Summary: When you send an EMAIL transaction for EZComm protocol enabled either for encryption or compression, or both, with signed Request Receipt, "MIC Mismatch Error" occurs.</p> <p>Workaround: None</p> |
| BC-10416 | <p>Summary: The signing verification fails for the asynchronous transaction in EZComm protocol, when you send encryption and compression together with an EMAIL transport.</p> <p>Workaround: None</p> |

| Key | Summary/Workaround |
|----------|--|
| BC-10258 | <p>Summary: When you try to migrate TIBCO BusinessConnect using Oracle database from versions 6.4.0 or 7.0.0 to version 7.2.0, database initialization fails and displays "Insufficient Privileges" error message. After you provide required privileges and initialize the database, "Datastore creation Failed" error message is displayed on Create Installation page and "Installation Created successfully. Please log out and Login again" message is displayed on Manage Installation page instead of logging off directly.</p> <p>Workaround: None</p> |
| BC-10250 | <p>Summary: When you click Cancel on Edit InterComponent Communication Settings Intercomponent DMZ-JMS Settings (Optional) tab, without making any changes and then click Save on Edit Application Configuration, the state of the BusinessConnect configuration changes to the deployable state.</p> <p>Workaround: None</p> |
| BC-10240 | <p>Summary: After execution of the bcappmanage commands, exception occurs on navigating to the left panel of the TIBCO Administrator.</p> <p>Workaround: Restart TIBCO Administrator.</p> |
| BC-10080 | <p>Summary: By default, Email Transport is displayed under Partners with Inbound Transports configured custom Reports, even if Email inbound transport is enabled or disabled under Allowed Inbound Transports for Partner in Business Agreement.</p> <p>Workaround: None.</p> |
| BC-10076 | <p>An error message "java.lang.OutOfMemoryError: Java heap space" is displayed under Deploy Configuration tab when heap size memory allocated in tibcoadmin_<domainname>.tra file is 512m.</p> <p>Workaround: Add java.heap.size.max=1024m in the tibcoadmin_<domainname>.tra file located in the <i>TIBCO_HOME/administrator/domain/<domainname>/bin</i> directory.</p> |
| BC-9576 | <p>Summary: From version 7.0.0, the Secure Sockets Layer (SSL) connection with TIBCO Enterprise Message Service is supported only for version 8.4.0 and above.</p> |

| Key | Summary/Workaround |
|---------|--|
| | <p>Workaround: None.</p> <p>Note: Add <code>java.property.Config.SecurityVendor=j2se</code> to the <code>designer.tra</code> file located in the <code>TIBCO_HOME/designer/version/bin</code> directory for private process JMS connection and Intercomponent and Private Process JMS test connection.</p> |
| BC-9270 | <p>Summary: When the responder fails to send a response to the initiator because of connection failures, the responder BusinessConnect server fails to recognize the failure and sends a positive responder ACK with a status code 200 and status message OK to the private process.</p> <p>Workaround: None.</p> |
| BC-8730 | <p>Summary: When you create an external user in TIBCO Administrator GUI under the BusinessConnect > System Management > Users > External tab, if you enable any gateway service permissions and set the authentication source to the LDAP server for external users, the <code>No Such Object LDAP</code> error is generated. However, the user is successfully created and stored in the LDAP server.</p> <p>Workaround: Before creating the external user, ensure that you configure a valid value for the <code>bc.ldap.rolebasedn.attribute</code> property that is located under BusinessConnect > System Settings > Activated Protocol Plug-ins and Properties > BC.</p> |
| BC-8729 | <p>Summary: The external users that are manually created in the LDAP server or are created by a previous version of TIBCO BusinessConnect are not displayed in TIBCO Administrator GUI under the BusinessConnect > System Management > Users > External tab.</p> <p>Workaround: Log in to the LDAP server, and then add the <code>o</code> attribute and set the value of this attribute to the associated trading partner name for these external users.</p> |
| BC-8596 | <p>Summary: User Management under BusinessConnect fails to update automatically.</p> <p>Workaround: None</p> |

| Key | Summary/Workaround |
|---------|---|
| BC-8302 | <p>Summary: The sample certificate used to connect to the Gmail SMTP server can expire occasionally depending on the Gmail service.</p> <p>Workaround: Download a new Gmail server certificate.</p> |
| BC-8262 | <p>Summary: The audit log of the UNPACKAGE_MSG state is not present for inbound PGP packaged files by using the SSHFTP transport, when a script is specified for retrieving and unpackaging the files.</p> <p>Workaround: None.</p> |
| BC-8141 | <p>Summary: Inbound messages sent by using FTPS, SSHFTP, or TIBCO PartnerExpress plug-ins are not counted to the InboundReceived count in TIBCO Hawk monitoring of Gateway Servers. This can only be resolved in the new release of each plug-in.</p> <p>Workaround: None.</p> |
| BC-7903 | <p>Summary: If you use the TIBCO BCAppManage tool to create a deployment, the BusinessConnect tab is not displayed on the Application Management > BusinessConnect > Configuration > BusinessConnect link > Edit Application Configuration page. You can also see null pointer exceptions if you select BusinessConnect in the left panel and click Manage in the installation section.</p> <p>Workaround: Restart TIBCO Administrator.</p> |
| BC-7831 | <p>Summary: When using the TIBCO BCAppManage tool to import .csx configuration files, Java class-loading errors are displayed occasionally after the import operation is completed in TIBCO Administrator.</p> <p>Workaround: Restart TIBCO Administrator.</p> |
| BC-7818 | <p>Summary: If you delete a tibbr subject in TIBCO BusinessConnect at the trading partner level, TIBCO BusinessConnect does not post messages to valid system level tibbr subjects. This behavior occurs because of the way TIBCO BusinessConnect interacts with the tibbr API.</p> <p>Workaround: None.</p> |
| BC-7776 | <p>Summary: Signed multiple attachments sent by using the AS1 email are not</p> |

| Key | Summary/Workaround |
|---------|---|
| | <p>verified by TIBCO BusinessConnect.</p> <p>Workaround: None.</p> |
| BC-7742 | <p>Summary: If you attempt to save a tibbr subject that has been deleted in either BusinessConnect > System Settings > Visibility > tibbr or BusinessConnect > Participants > Edit Participant > Visibility, an error message is displayed. This is because tibbr subject names must be unique. After a subject is created in tibbr, it cannot be recreated, even if you have deleted it. tibbr retains subjects internally to preserve old messages posted to that subject.</p> <p>Workaround: Use a different subject name.</p> |
| BC-7608 | <p>Summary: When the Host Logo field in the Host Partner Type option contains a file reference type to an image that is not reachable, then the imported host gets deactivated and disables the <code>PartnerSelfService</code> protocol if TIBCO BusinessConnect Trading Community Management is installed and activated.</p> <p>Workaround: Make sure that the Host Logo field has an image uploaded.</p> |
| BC-7604 | <p>Summary: When TIBCO BusinessConnect Trading Community Management is installed in the TIBCO BusinessConnect environment and changes are made to Property Metadata Editor to make protocol-specific properties self-serviceable, these self-serviceable attributes are not exported.</p> <p>Workaround: To make the properties self-serviceable, you must enable them explicitly after importing the configuration.</p> |
| BC-7242 | <p>Summary: When the Email transport is configured under BusinessConnect > System Settings > Inbound Public Transport Types, the setup under Application Management > BusinessConnect > Configuration must be changed and saved for the Email transport to work after redeployment.</p> <p>Workaround: The setup under Application Management > BusinessConnect > Configuration must be edited and saved.</p> |
| BC-7233 | <p>Summary: After Gateway tokens are created and deployed, if the value in the Installation Name or Installation Prefix field is changed under BusinessConnect > System Settings > General, Gateway Server does not come</p> |

| Key | Summary/Workaround |
|---------|---|
| | <p>up even after the tokens are reexported from BusinessConnect > Gateway > Gateway Tokens.</p> <p>Workaround: Delete the previously created Gateway tokens and create new ones for the changes to take place.</p> |
| BC-7216 | <p>Summary: TIBCO BusinessConnect can send the AS2_HTTPS message to TIBCO BusinessConnect™ Remote only if ENTRUST is selected from the bc.securityVendor.sockets list. The SUN and IBM providers are not supported in TIBCO BusinessConnect Remote.</p> <p>Workaround: None.</p> |
| BC-7165 | <p>Summary: Shadow credentials are not supported for the TIBCO BusinessConnect server keys; they are supported only for public certificates.</p> <p>Workaround: None.</p> |
| BC-7133 | <p>Summary: PGP credentials are not supported with the TIBCO BAppManage tool.</p> <p>Workaround: Only the TIBCO Administrator GUI can be used for exporting and importing PGP credentials.</p> |
| BC-6930 | <p>Summary: If any changes other than Email are made under BusinessConnect > System Settings > Inbound Public Transport Types, Interior Servers and Gateway Servers must be restarted. For the Email transport, a redeployment of Interior Servers is required.</p> <p>Workaround: None.</p> |
| BC-4398 | <p>Summary: The server plug-in property <code>bc.maxAuditLogEntriesPerView</code> fails to immediately implement in all the log viewers of TIBCO BusinessConnect.</p> <p>Workaround: Log out and log in back to the TIBCO Administrator.</p> |

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 [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.

Product-Specific Documentation

Documentation for TIBCO BusinessConnect™ is available on the [TIBCO BusinessConnect™ Product Documentation](#) page.

To directly access documentation for this product, double-click the following file:

`TIBCO_HOME/release_notes/TIB_bc_7.4.0_docinfo.html` where `TIBCO_HOME` is the top-level directory in which TIBCO products are installed. On Windows, the default `TIBCO_HOME` is `C:\tibco`. On UNIX systems, the default `TIBCO_HOME` is `/opt/tibco`.

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

- *TIBCO BusinessConnect™ Installation and Configuration*
- *TIBCO BusinessConnect™ Concepts*
- *TIBCO BusinessConnect™ Interior Server Administration*
- *TIBCO BusinessConnect™ Gateway Server Administration*
- *TIBCO BusinessConnect™ Training Partner Administration Guide*
- *TIBCO BusinessConnect™ Scripting Deployment User Guide*
- *TIBCO BusinessConnect™ Release Notes*

How to Contact TIBCO Support

Get an overview of [TIBCO Support](#). You can contact TIBCO Support in the following ways:

- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the [TIBCO Support](#) website.
- 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 [TIBCO Support](#) website. 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 [TIBCO Community](#).

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