

TIBCO® API Exchange Gateway Release Notes

Software Release 2.3.0

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New Features

This section lists features added in the named releases of TIBCO API Exchange Gateway.

Version 2.3.0

The following new features have been added to version 2.3.0 of TIBCO API Exchange Gateway.

HP Itanium Support

This release adds support for HP Itanium: 11i v3 (B.11.31) 64-bit on Itanium.

IBM DB2 10.5 Support

This release adds support for IBM DB2 10.5 on Windows 2012 R2 64-bit.

Access Tokens

This release adds an option to not cache the access token in a session.

MinimumFailoverHTTPStatusCode Property

This release adds `tibco.clientVar.ASG/Routing/MinimumFailoverHTTPStatusCode` to `asg.properties`. This property allows the failure response from the backend to be propagated to the client even when the `TargetOperations` are configured with `RoundRobinWithFailover` or `WeightedRoundRobinWithFailover`. This is the minimum Error Status code after which the load balancer will continue with failover. Normally, the value should be 500; in some use cases, this can go up to 550.

Changes in Functionality

This section lists changes in functionality in the named releases of TIBCO API Exchange Gateway.

Version 2.3.0

The following are changes in functionality in version 2.3.0 of TIBCO API Exchange Gateway.

Use of special characters in URI

This release only supports the usage of alphanumeric characters and _ (underscore) in the URI sent to the Gateway, due to restrictions imposed by the dependencies of TIBCO API Exchange Gateway. The list of supported and unsupported characters include:

Characters	REST/HTTP	SOAP/HTTP
Supported	<ul style="list-style-type: none"> • - (dash) • : (colon) • ~ (tilde) • (blank space) • . (dot) • " (quotation mark) • ' (Single quote) 	<ul style="list-style-type: none"> • . (dot) • ' (Single quote) • (blank space) • " (quotation mark)
Not Supported	<ul style="list-style-type: none"> • \$ (dollar sign) • ^ (caret) • & (ampersand) • // (double forward slash) • \ (backslash) 	<ul style="list-style-type: none"> • : (colon) • - (dash) • \$ (dollar sign) • ~ (tilde) • ^ (caret) • & (ampersand) • // (double forward slash) • \ (backslash)

Deprecated and Removed Features

No features have been deprecated in this release of TIBCO API Exchange Gateway.

Migration

This section explains the migration process to migrate TIBCO API Exchange Gateway product from a previous release to version 2.3.0.

Migration Process

Perform the following tasks to migrate from a previous version TIBCO API Exchange Gateway to TIBCO API Exchange Gateway 2.3.0.

1. Stop the existing version of TIBCO API Exchange Gateway.
2. Install TIBCO API Exchange Gateway 2.3.0.
3. Migrate the ASG configuration directory, including the project configuration and properties files. See [Migrating the Project Configuration and Properties Files](#).

After completion, manually update the substitution variables %TIBCO_ASG_CONFIG_HOME_ESC% and %TIBCO_ASG_HOME_ESC% in the `asg.properties` and `asg_portal.properties` files.



If you are installing both TIBCO API Exchange Gateway and TIBCO API Exchange Manager, perform this step when installing TIBCO API Exchange Manager.

4. Manually migrate customizations made to the ASG_DefaultImplementation project. See [Migrate ASG_DefaultImplementation Project Customizations \(Optional\)](#).
5. Manually migrate customizations made to the CDD files. See [Migrate CDD Files](#).
6. Manually migrate customizations made to the TRA files. See [Migrating TRA Files \(Optional\)](#).
7. Update the database schema. See [Update Database Schema for Central Logger](#).
8. Start TIBCO API Exchange Gateway 2.3.0.



If you are installing both TIBCO API Exchange Gateway and TIBCO API Exchange Manager, start after installing TIBCO API Exchange Manager.



If the engine has been started before migration, disable "Read-Only" on all the files in the destination configuration directory.

Migrating the Project Configuration and Properties Files

Use the migration tool to migrate the project configuration containing the *.cfg files and runtime properties files. Before migrating, make sure to back up your configuration folder, TIBCO_CONFIG.

Procedure

1. Navigate to the `TIBCO_HOME/asg/2.3/bin` directory.
2. Type the following command to run the tool:

```
asg-tools -u migrate-config -cc Source_Configuration_Directory -dc
Destination_Configuration_Directory -sv Source_Version
```

The arguments of the `asg-tools` migration tool are defined as follows:

- `cc` : specifies the full path of the source configuration directory to be migrated.
For example, this is the configuration directory for a previous release such as 2.1.0.
- `dc`: specifies the full path of the destination configuration directory where the migrated configuration is stored.

For example, this is the configuration directory for the current release such as 2.3.0.

- `sv`: specifies the release version of the source configuration directory to be migrated.

For example, this is the version for a previous release such as 2.1.0.

For example, on the Windows platform, run the tool as follows to migrate the project configuration and runtime properties files from version 2.1.0 to version 2.3.0:



Any changes made to the project configuration or properties files in the directory specified by `-dc` parameter are overwritten by the `asg-tools` tool. Any change to be made to the configuration directory as specified by the `-dc` parameter have to be made after completing the migration process.

The original configuration files are saved in `<TIBCO Config Home>/tibco/cfgmgmt/asg/../../asg.bak/asg`.

```
asg-tools -u migrate-config -cc C:/TIBCO_CONFIG/tibco/cfgmgmt/asg.bak/asg -dc C:/TIBCO_CONFIG/tibco/cfgmgmt/asg -sv 2.1.0
```

3. Replace the internal configuration files. These are not automatically converted by the migration tool, and must be manually restored.

Copy the files listed below from `{TIBCO_CONFIG}/tibco/cfgmgmt/asg/default` to your destination configuration directory.

- `InternalFacadeAccess.cfg`
- `InternalFacadeOperation.cfg`
- `InternalRouting.cfg`
- `InternalTargetOperation.cfg`

Migrating ASG_DefaultImplementation Project Customizations (Optional)

You must migrate the `ASG_DefaultImplementation` project only if you have made any custom changes to the default `ASG_DefaultImplementation` project to extend the default behavior of Core Engine in a previous release.

If you have made any changes to the `ASG_DefaultImplementation` Project, redo the changes manually in the `ASG_DefaultImplementation` project of TIBCO API Exchange Gateway 2.2.x.

Migrating CDD Files (Optional)

If you have made any changes to the CDD files, redo the changes manually in the CDD files of TIBCO API Exchange Gateway 2.2.x.

Migrating TRA Files (Optional)

You must manually migrate any changes made to the TRA files located in the `ASG_HOME/bin` directory.

If you have made any changes in the TRA files (for example, `ASG_HOME/bin/asg_engine.tra`) in a previous release, redo the changes manually in the TRA files of TIBCO API Exchange Gateway 2.2.x.

Update Database Schema for Central Logger

TIBCO API Exchange Gateway 2.3 includes changes to the database schema of `asgstat` database used by the Central Logger.

The schema for the following tables have been changed:

- `ASG_KPI`
- `ASG_TRANSACTION_DETAILS`
- `ASG_TRANSACTIONS`

ASG_KPI Table Changes

The following column has been added to the ASG_KPI table in the asgstat database:

- KPI_END_TIMESTAMP

ASG_TRANSACTION_DETAILS Table Changes

The following columns have been added to the ASG_TRANSACTION_DETAILS table in the asgstat database:

- DET_SERVICEURI
- DET_SOAPACTION
- DET_HTTPHEADERS
- DET_PAYLOAD_SIZE

ASG_TRANSACTIONS Table Changes

The following columns have been added to the ASG_TRANSACTIONS table in the asgstat database:

- TRN_CORRELATION_ID
- TRN_REQUEST_PAYLOAD_SIZE
- TRN_RESPONSE_PAYLOAD_SIZE

This section explains the steps required to migrate the existing databases from a previous version (such as 2.0.0) to version 2.3.x of TIBCO API Exchange Gateway.

Updating Oracle Database

Complete the following steps to upgrade the Oracle database with the schema changes.

Procedure

1. Back up the existing data in the ASG_KPI, ASG_TRANSACTION_DETAILS, and ASG_TRANSACTIONS table of the database.
2. Execute the following SQL statements on the asgstat database:

```
ALTER TABLE ASGSTAT.ASG_KPI ADD KPI_END_TIMESTAMP TIMESTAMP;

ALTER TABLE ASGSTAT.ASG_TRANSACTION_DETAILS ADD (DET_SERVICEURI VARCHAR(256),
DET_SOAPACTION VARCHAR(256), DET_HTTPHEADERS CLOB, DET_PAYLOAD_SIZE INTEGER);

ALTER TABLE ASGSTAT.ASG_TRANSACTIONS ADD (TRN_CORRELATION_ID
VARCHAR(256), TRN_REQUEST_PAYLOAD_SIZE INTEGER, TRN_RESPONSE_PAYLOAD_SIZE
INTEGER);
```

3. (Only when upgrading from version 1.2 to version 2.x of TIBCO API Exchange Gateway) Import the following SQL file into the asgstat database: TIBCO_HOME/asn/2.3/templates/database/oracle/migrateASGTransactions.sql.

Updating MS SQL Server Database

Complete the following steps to upgrade the MS SQL Server database with the schema changes.

Procedure

1. Back up the existing data in the ASG_KPI, ASG_TRANSACTION_DETAILS, and ASG_TRANSACTIONS table of the database.
2. Execute the following SQL statements on the asgstat database:

```
ALTER TABLE ASG_KPI ADD KPI_END_TIMESTAMP DATETIME default getdate();

ALTER TABLE ASG_TRANSACTION_DETAILS
ADD DET_SERVICEURI VARCHAR(256), DET_SOAPACTION VARCHAR(256), DET_HTTPHEADERS
NVARCHAR(max), DET_PAYLOAD_SIZE BIGINT;

ALTER TABLE ASG_TRANSACTIONS
ADD TRN_CORRELATION_ID VARCHAR(256), TRN_REQUEST_PAYLOAD_SIZE BIGINT,
TRN_RESPONSE_PAYLOAD_SIZE BIGINT;
```

3. (Only when upgrading from version 1.2 to version 2.x of TIBCO API Exchange Gateway) Import the following SQL file into the asgstat database: TIBCO_HOME/asg/2.3/templates/database/sqlserver/migrateASGTransactions.sql.

Updating MySQL Database

Complete the following steps to upgrade the MySQL database with the schema changes.

Procedure

1. Back up the existing data in the ASG_KPI, ASG_TRANSACTION_DETAILS, and ASG_TRANSACTIONS table of the database.
2. Execute the following SQL statements on the asgstat database:

```
ALTER TABLE ASG_KPI ADD COLUMN KPI_END_TIMESTAMP TIMESTAMP NULL
AFTER KPI_TIMESTAMP;

ALTER TABLE ASG_TRANSACTION_DETAILS ADD (DET_SERVICEURI VARCHAR(256),
DET_SOAPACTION VARCHAR(256), DET_HTTPHEADERS MEDIUMTEXT, DET_PAYLOAD_SIZE
BIGINT);

ALTER TABLE ASG_TRANSACTIONS ADD (TRN_CORRELATION_ID VARCHAR(256),
TRN_REQUEST_PAYLOAD_SIZE INTEGER, TRN_RESPONSE_PAYLOAD_SIZE INTEGER);
```

3. (Only when upgrading from version 1.2 to version 2.x of TIBCO API Exchange Gateway) Import the following SQL file into the asgstat database: TIBCO_HOME/templates/database/mysql/migrateASGTransactions.sql.

Updating DB2 Database

Complete the following steps to upgrade the DB2 database with the schema changes.

Procedure

1. Back up the existing data in the ASG_KPI, ASG_TRANSACTION_DETAILS, and ASG_TRANSACTIONS table of the database.
2. Execute the following SQL statements on the asgstat database:

```
ALTER TABLE ASGSTAT.ASG_KPI ADD KPI_END_TIMESTAMP TIMESTAMP;

ALTER TABLE ASGSTAT.ASG_TRANSACTION_DETAILS ADD COLUMN DET_SERVICEURI
VARCHAR(256) ADD COLUMN DET_SOAPACTION VARCHAR(256) ADD COLUMN DET_HTTPHEADERS
CLOB ADD COLUMN DET_PAYLOAD_SIZE BIGINT;
```

```
ALTER TABLE ASGSTAT.ASG_TRANSACTIONS ADD COLUMN TRN_CORRELATION_ID
VARCHAR(256) ADD COLUMN TRN_REQUEST_PAYLOAD_SIZE BIGINT ADD COLUMN
TRN_RESPONSE_PAYLOAD_SIZE BIGINT;
```

Updating Foreign Key Constraints

The foreign key constraints on the tables of the asgstat database has been updated to include the ON DELETE CASCADE clause.

Execute the following steps to update the foreign key constraints of database tables:

Procedure

1. Back up the existing data of ASG_TRANSACTION_KEYS , ASG_TRANSACTION_MESSAGES, and ASG_TRANSACTION_DETAILS tables.
2. Depending on the database server, execute the following SQL statements on the asgstat database:

Oracle

```
ALTER TABLE ASGSTAT.ASG_TRANSACTION_KEYS DROP CONSTRAINT
ASG_TRANSACTION_KEYS_FK;
ALTER TABLE ASGSTAT.ASG_TRANSACTION_KEYS ADD (constraint
ASG_TRANSACTION_KEYS_FK foreign key (KEY_TRN_GUID) references
ASGSTAT.ASG_TRANSACTIONS (TRN_GUID) ON DELETE CASCADE);
```

```
ALTER TABLE ASGSTAT.ASG_TRANSACTION_MESSAGES DROP CONSTRAINT
ASG_TRANSACTION_MESSAGES_FK;
ALTER TABLE ASGSTAT.ASG_TRANSACTION_MESSAGES ADD (constraint
ASG_TRANSACTION_MESSAGES_FK foreign key (MSG_TRN_GUID) references
ASGSTAT.ASG_TRANSACTIONS (TRN_GUID) ON DELETE CASCADE);
```

```
ALTER TABLE ASGSTAT.ASG_TRANSACTION_DETAILS DROP CONSTRAINT
ASG_TRANSACTION_DETAILS_FK;
ALTER TABLE ASGSTAT.ASG_TRANSACTION_DETAILS ADD (constraint
ASG_TRANSACTION_DETAILS_FK foreign key (DET_TRN_GUID) references
ASGSTAT.ASG_TRANSACTIONS (TRN_GUID) ON DELETE CASCADE);
```

MS SQL Server

```
ALTER TABLE [ASGSTAT].[DBO].ASG_TRANSACTION_KEYS DROP CONSTRAINT
ASG_TRANSACTION_KEYS_FK;
ALTER TABLE [ASGSTAT].[DBO].ASG_TRANSACTION_KEYS ADD CONSTRAINT
ASG_TRANSACTION_KEYS_FK foreign key (KEY_TRN_GUID) references [asgstat].[dbo].
[ASG_TRANSACTIONS] (TRN_GUID) ON DELETE CASCADE;
```

```
ALTER TABLE [ASGSTAT].[DBO].ASG_TRANSACTION_MESSAGES DROP CONSTRAINT
ASG_TRANSACTION_MESSAGES_FK;
ALTER TABLE [ASGSTAT].[DBO].ASG_TRANSACTION_MESSAGES ADD CONSTRAINT
ASG_TRANSACTION_MESSAGES_FK foreign key (MSG_TRN_GUID) references [asgstat].
[dbo].[ASG_TRANSACTIONS] (TRN_GUID) ON DELETE CASCADE;
```

```
ALTER TABLE [ASGSTAT].[DBO].ASG_TRANSACTION_DETAILS DROP CONSTRAINT
ASG_TRANSACTION_DETAILS_FK;
ALTER TABLE [ASGSTAT].[DBO].ASG_TRANSACTION_DETAILS ADD CONSTRAINT
ASG_TRANSACTION_DETAILS_FK foreign key (DET_TRN_GUID) references [asgstat].
[dbo].[ASG_TRANSACTIONS] (TRN_GUID) ON DELETE CASCADE;
```

MySQL

```
ALTER TABLE ASG_TRANSACTION_KEYS DROP FOREIGN KEY
ASG_TRANSACTION_KEYS_FK;
ALTER TABLE ASG_TRANSACTION_KEYS ADD (CONSTRAINT ASG_TRANSACTION_KEYS_FK
```

```
foreign key (KEY_TRN_GUID)
references ASG_TRANSACTIONS (TRN_GUID) ON DELETE CASCADE);
```

```
ALTER TABLE ASG_TRANSACTION_MESSAGES DROP FOREIGN KEY
ASG_TRANSACTION_MESSAGES_FK;
ALTER TABLE ASG_TRANSACTION_MESSAGES ADD (CONSTRAINT
ASG_TRANSACTION_MESSAGES_FK foreign key (MSG_TRN_GUID) references
ASG_TRANSACTIONS (TRN_GUID) ON DELETE CASCADE);
```

```
ALTER TABLE ASG_TRANSACTION_DETAILS DROP FOREIGN KEY ASG_TRANSACTION_DETAILS_FK;
ALTER TABLE ASG_TRANSACTION_KEYS ADD (CONSTRAINT ASG_TRANSACTION_DETAILS_FK
foreign key (KEY_TRN_GUID) references ASG_TRANSACTIONS (TRN_GUID) ON DELETE
CASCADE);
```

DB2

```
ALTER TABLE ASGSTAT.ASG_TRANSACTION_KEYS DROP FOREIGN KEY
ASG_TRANSACTION_KEYS_FK;
ALTER TABLE ASGSTAT.ASG_TRANSACTION_KEYS ADD CONSTRAINT ASG_TRANSACTION_KEYS_FK
foreign key (KEY_TRN_GUID) references ASGSTAT.ASG_TRANSACTIONS (TRN_GUID) ON
DELETE CASCADE;
```

```
ALTER TABLE ASGSTAT.ASG_TRANSACTION_MESSAGES DROP FOREIGN KEY
ASG_TRANSACTION_MESSAGES_FK;
ALTER TABLE ASGSTAT.ASG_TRANSACTION_MESSAGES ADD CONSTRAINT
ASG_TRANSACTION_MESSAGES_FK foreign key (MSG_TRN_GUID) references
ASGSTAT.ASG_TRANSACTIONS (TRN_GUID) ON DELETE CASCADE;
```

```
ALTER TABLE ASGSTAT.ASG_TRANSACTION_DETAILS DROP FOREIGN KEY
ASG_TRANSACTION_DETAILS_FK;
ALTER TABLE ASGSTAT.ASG_TRANSACTION_DETAILS ADD CONSTRAINT
ASG_TRANSACTION_DETAILS_FK foreign key (DET_TRN_GUID) references
ASGSTAT.ASG_TRANSACTIONS (TRN_GUID) ON DELETE CASCADE;
```

Closed Issues

This section lists the issues that were closed in the named releases of TIBCO API Exchange Gateway.

Closed Issues in 2.3.0

The table lists closed issues in version 2.3.0 of TIBCO API Exchange Gateway.

Key	Summary
ASG-8053	Expired Access Tokens can be used to make API calls until time specified in retention.time.
ASG-7872	OAuth could not be configured to use different Resource Path Name value.
ASG-7847	Request transformation pipeline should have behaved consistently with the response pipeline, wherein payload overrides at forward northbound are available at forward southbound.
ASG-7845	OAuth access tokens persisted in database were not getting removed even after they expired.
ASG-7836	Setting <code>oauth.dataspace.load.batch.size</code> Global Value in asg.properties to zero did not work, as value was reset.
ASG-7827, ASG-7818, ASG-7492	Southbound Response from TIBCO ActiveMatrix BusinessWorks Service Engine service threw NumberFormatException when <code>CorrelationId</code> is not explicitly mapped in Target Service.
ASG-7824, ASG-7775	Content-Encoding was changed to <i>Identity</i> when Content-Type was application/JSON and Content-Encoding from backend service was set to <i>gzip</i> .
ASG-7812, ASG-7808	Policy Enforcement failed after applying TIBCO API Exchange 2.2.1. HF1 due to trailing slash in Policy Binding Operation URI.
ASG-7798	All OAuth Tokens were getting read from Oracle DB during instance startup, regardless of the load.batch.size setting in asg.properties.
ASG-7796	CorrelationID override should have been allowed by the northbound mapper.
ASG-7793	<code>FacadeHTTPChannel</code> was not able to handle encoded characters in query-string.
ASG-7777, ASG-7739, ASG-6914	FacadeHTTPChannel was not able to handle encoded characters in query-string.
ASG-7772	When overriding the JMS Correlation ID, a NullPointerException was being thrown.
ASG-7710	URI was being truncated while generating OAuth token with Kerberos policy.

Key	Summary
ASG-7709	Encoding error in Kerberos OAuth authentication when Owner Adapter returned null for invalid user.
ASG-7695	Corrected the indexes for OAuth token database table.
ASG-7694	Generated refresh token for 'Subject' flow.
ASG-7679	WSS policies were not getting enforced when SOAPAction was empty.
ASG-7678	Unable to access out-of-box ASG Monitor and Management Console as it threw HTTP 404 error.
ASG-7676	Override headers XSLT did not work if configured on facade operations, but worked fine on target operations.
ASG-7675	X-Request-ID/correlationID was not being generated in case the southbound transport was not HTTP (JMS/ESB).
ASG-7672	When payload was greater than 2KB and Header included Transfer-Encoding chunked, Gateway threw a malformed error.
ASG-7668	Avoid validating the access token multiple times.
ASG-7659	Unable to build an EAR file with default implementation project due to missing package in TIBCO BusinessEvents.
ASG-7639	Operation not found error was thrown when soapAction was missing slash (/) in the beginning.
ASG-7632, ASG-7631	The ConfigAPI did not save the HTTP Communications Type column in the TargetOperations.cfg file.
ASG-7601	Authentication policy failed to authenticate Security Assertion Markup Language (SAML) assertions that were created with a timestamp before the NotBefore value.
ASG-7588	The version of TIBCO Business Studio shipped with API Exchange 2.2.1 was incorrect.
ASG-7483	Global Variable <i>java.property.oauth.access.token.attributes=true</i> in asg-engine.tra was not documented.
ASG-7474	HTTP headers added in a northbound response did not work.
ASG-7381	The documentation has been updated to reflect the correct functionality. Override Header is not supported in the parse step of process body.
ASG-7243	Asg.properties file was missing OAuth global values for Token retention.time and retention.period .

Key	Summary
ASG-7140	Documentation for using the password obfuscator has been updated for correct usage. Config UI will no longer throw an AXSecurityException exception when using obfuscator.
ASG-7048	CORS filter threw HTTP 403 (Forbidden) error for POST AJAX calls.
ASG-5116	Needed to map JMS properties to HTTP Header and HTTP Headers to JMS Properties (in both directions).
ASG-614	Simple proxying should have been the default for HTTP-to-HTTP communication.

Known Issues

The table lists known issues in version 2.3.0 of TIBCO API Exchange Gateway.

Key	Summary
ASG-7244	<p>Summary: When there is a restart of the gateway, only tokens loaded up to the cache capacity during start up or created after start up, will be automatically purged from database, once they have passed the retention time. Tokens that are expired will not be loaded and will remain in the database.</p> <p>Workaround: Run the following SQL command to delete the tokens that have passed their retention time: <code>DELETE from OAUTH_TOKENS where "createdOn" < {currentTime - retentionTime in millisecond}</code></p>