

# **Sterling File Gateway**

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## **Build 5007 Updates**

**Version 2.0 Build 5007**



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# What's New in Build 5007

Build 5007 is now available for Sterling File Gateway 2.0.

## **Enhancements in This Release**

There are no new features for Sterling File Gateway in Build 5007. See the Sterling Integrator documentation for a description of this release.

## **Documentation Enhancements**

Additional information in existing topics in System Administrator:

- Set Up HTTPS for use with myFileGateway
- Best Practices - Specific Recommendations Checklist

New topic in Operator Help

- Troubleshoot and Resolve Slow Response Issues

# Set Up HTTPS for myFileGateway

To run *myFileGateway* inside your secure network, no configuration is required. An HTTP Server adapter configuration (named Http Server Adapter) comes with Sterling File Gateway that enables the clients on the same network as Sterling File Gateway to access *myFileGateway*.

To run *myFileGateway* in a DMZ, an HTTP Server adapter must be configured that uses a remote perimeter server.

After a Perimeter Server has been configured in Sterling Integrator, its name is available to the HTTP Server adapter configuration, in the Perimeter Server Name list on the HTTP Connection Properties page.

To configure *myFileGateway* to run in the DMZ:

1. Set up a perimeter server in the DMZ.
2. Configure a new Perimeter Server in Sterling Integrator.

The port specified in the Perimeter Server configuration must *not* be the HTTP listen port (to which trading partners are expected to connect), which is specified in a subsequent stage.

3. Ensure that the remote perimeter server is running.
4. Create a new instance of the HTTP Server Adapter configuration.
  - a) Log into Sterling File Gateway as a system administrator.
  - b) Select **Tools > B2B Console**.
  - c) From the Sterling Integrator Admin menu, select **Deployment > Services > Configuration**.
  - d) Under **Create**, next to **New Service**, click **Go!**
  - e) For **Service Type**, open the List View, select **HTTP Server Adapter** and click **Save**, then **Next**.
  - f) Give the adapter a new unique name and description. If you are using a clustered environment, from the **Environment** list, select the node where the remote perimeter server is to be assigned. Click **Next**.
  - g) For the **HTTP Listen Port**, specify the port that the Partner is expected to connect to. This port must not be used by a different application on the computer that the remote perimeter server is installed on. No two HTTP Server adapter configurations can listen on the same port on the same remote perimeter server computer. The default port for Sterling File Gateway is 33, so select a different port number.
  - h) From the **Perimeter Server Name** list, select the name of the Perimeter Server (previously configured) that corresponds to the specific remote perimeter server to be used. The name is in the format *node & name*, where name is what you specified.
  - i) For **Total Business Process queue depth threshold**, enter a number of business processes to allow in queue. The value of this setting has no effect if Sterling File Gateway is the only application hosted on this HTTP Server adapter, because Sterling File Gateway does not initiate business processes.

- j) For **Document Storage** and **User Authentication Required**, you can accept the default or change to match your system.
  - k) For **Use SSL**, select **Must** to implement stronger security. Click **Next**. See the Sterling Integrator 5.0 documentation for more information about settings for the SSL Settings page. Click **Next**.
  - l) On the Services Configuration page, click **add**, type the URI /myfilegateway.
  - m) Select **War File**. Click **Next**.
  - n) **Enter the War File Path**. The *myFileGateway* War file is located at *<install dir>\SI\container\Applications\myfilegateway.war*. (For UNIX, *<install dir>/container/Applications/myfilegateway.war*.)
  - o) Click **Save**.
  - p) In the **Confirm** page, verify that all parameters are as specified.
  - q) Ensure the **Enable Service for Business Process** check box enabled.
  - r) Click **Finish**.
5. If you have access to the computer on which the remote perimeter server is running, log in to that computer and run the following command:

```
netstat -an | grep <httpListenPort>
```

where *<httpListenPort>* is the port previously specified. If a row is found that reads, LISTEN, the HTTP Server adapter is ready to handle requests from external clients.

6. Verify that the HTTP Server adapter is listening and that *myFileGateway* is configured correctly by pointing an HTTP browser to the following URL:

```
https://<host>:<httpListenPort>/myfilegateway
```

where *<host>* is the IP address or host name of the computer where the remote perimeter server is running and *<httpListenPort>* is the port previously specified. Set your browser options to select TLS 1.0 (in the Advanced tab). A dialog opens, requesting the user name and password to use with *myFileGateway*. If instead the browser encounters an error, verify that *<httpListenPort>* is being listened on. If it is listening, verify that some other application has not reserved this port. To do this, disable the HTTP Server adapter and verify that this port is not being listened on. If it is, find the application that has the port bound and shut it down. Alternately, select a different HTTP Listen Port and try again.

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**Note:** If you have many concurrent users, you may find some degradation of performance. All HTTP server adapters in your Sterling Integrator installation share the setting for maximum number of threads. To increase the maximum number of threads running at the same time, edit *customer\_overrides.properties* to modify the following property:

```
http.numOfmaxThread = X
```

where *X* is the number of threads. The default value is 10. If your users are experiencing slow response when many concurrent connections have been made to the same port, increase this value to 50. Continue tuning this value until the system response is acceptable for the number of concurrent connections that must be supported. Setting this value to a value that is too high could be detrimental to system stability when too many concurrent connections are made. See the Sterling Integrator documentation for more information about changing property values.

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# Sterling File Gateway: Specific Recommendations Checklist

Sterling File Gateway is installed on an instance of Sterling Integrator, and shares many of the resources with the latter, including:

- Communication Adapters
- Business Processes
- Security Services
- Perimeter Services
- Encryption
- Decryption
- Account Management

You should, therefore, tune your Sterling Integrator installation first, and then perform the Sterling File Gateway-specific tuning and troubleshooting tasks. Be aware that the changes you make to Sterling File Gateway can also affect the performance of Sterling Integrator.

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**Note:** Do not edit the properties files. Make all the changes in the `customer_overrides.properties` file. For example, to change the `pgpCmdline2svcname` property, enter the following line in the `customer_overrides.properties` file:

```
filegateway.pgpCmdline2svcname=CUSTOM
```

In this line, replace `CUSTOM` with the name of your Command Line 2 adapter. For more information about the `customer_overrides.properties` file, refer to the *Sterling Integrator Property Files* documentation.

The following table describes some of the key parameters that must be configured to optimize the Sterling File Gateway performance.

In the following table, the Development (Dev) and Production (Prod) columns indicate whether the recommendations are Recommended (R), Critical (C), or Not Applicable (NA) in the development and production environments.

Recommendation	Dev	Prod	Comments
Increase the value of Sterling File Gateway services that run concurrently. Property: <code>fgRouteConcurrentSessionLimit</code>	R	R	Number of Sterling File Gateway services that can be run concurrently. The services are split into two groups, and each group has this value as the limit. Therefore, the total

Recommendation	Dev	Prod	Comments
			<p>number of services that can run concurrently is equal to the value for this property multiplied by two. Set this to a value that is higher than the sum of business process threads in queues 4 and 6 (where Sterling File Gateway services run).</p> <p>Default value: 8 (Maximum: 64)</p>
<p>If you are processing very large files, increase the probe values to avoid timeout conditions.</p> <p>Property:</p> <ul style="list-style-type: none"> <li>filegateway.bpCompletionProbes.2</li> <li>filegateway.bpCompletionSleepMsec.2</li> </ul>	R	R	<p>Timeouts and sleep intervals that control the period for which Sterling File Gateway waits for each of the sub-business process it invokes. The timeouts and sleep intervals control the timeouts when a business process is executed synchronously during routing. The types of business processes that run during routing are consumer identification and PGP processing. Setting the values for these properties also enables one set of relatively quick probes, followed by a second set of slower probes. The first set will be reactive, but consumes more processor capacity. The second set will be activated for longer-running processes and will consume less processor capacity.</p> <p>First, probe 120 times, with 100 milliseconds between each probe, for a total of 12 seconds.</p> <p>Default value:</p> <ul style="list-style-type: none"> <li>bpCompletionProbes.1=120</li> <li>bpCompletionSleepMsec.1=100</li> </ul> <p>Then, probe 600 times with 2000 milliseconds between each probe, for a total of 1200 seconds (20 minutes).</p> <p>Default value:</p> <ul style="list-style-type: none"> <li>bpCompletionProbes.2=600</li> <li>bpCompletionSleepMsec.2=2000</li> </ul>
<p>If you have a high volume of PGP traffic, you can improve your performance by specifying a group for the file gateway.</p> <p>Property: ppgCmdline2svcname</p>	R	R	<p>The name of the Command Line 2 adapter to be used for PGP packaging and unpackaging. You can override this property in the <code>customer_overrides.properties</code> file if a custom Command Line 2 adapter is used for PGP operations. You can also specify an adapter group name to balance the outbound PGP sessions load across multiple adapter instances.</p> <p>Default value: ppgCmdline2svcname=PGPCmdlineService</p>
<p>If you have very large files that will be processed by PGP, increase the value of the file gateway.</p> <p>Property: fgRoutePGPCmdLineSocketTimeout</p>	R	R	<p>Timeout value, in milliseconds, for PGP package and unpackage operations invoked by Sterling File Gateway.</p> <p>Default value: 240000 milliseconds (4 minutes)</p>
<p>If you have high volumes of FTP traffic, you can improve your performance by specifying a group.</p> <p>Property: filegateway.ftpClientAdapterName</p>	R	R	<p>The FTP Client Adapter instance or service group that the FileGatewayDeliverFTP business process will use. You can override this property in the <code>customer_overrides.properties</code> file to use a custom FTP Client Adapter instance to contact trading partners. You can also specify an adapter group name to</p>

Recommendation	Dev	Prod	Comments
			balance the outbound FTP sessions load across multiple adapter instances. Default value: ftpClientAdapterName=FTPClientAdapter
Decrease the value of evaluation frequency. Property: • MailboxEvaluateAllAutomaticRules or • MailboxEvaluateAllAutomaticRulesSubMin	R	R	You can enable either MailboxEvaluateAllAutomaticRules or MailboxEvaluateAllAutomaticRulesSubMin.  MailboxEvaluateAllAutomaticRulesSubMin verifies the presence of routable messages once every 10 seconds, and can be edited for other intervals of less than one minute by modifying the MailboxEvaluateAllAutomaticRulesSubMin business process.
Suppress Duplicate Messages Property: mailbox.disallowDuplicateMessages=true	R	R	Prevents duplicate messages from using system resources.
Increase the number of steps a business process must complete prior to returning to the queue. Property: noapp.AE_ExecuteCycle.#	R	R	Number of steps involved in the completion of a business process before the business process returns to the queue. Higher values will accelerate individual business process execution, while lower values will provide smoother multitasking capabilities. Interactive use favors a lower number of steps, while batch processing favors a higher number of steps. The value of noapp.AE_ExecuteCycle.# can be different for each queue. .# indicates the queue number.  When a business process has one service to begin a protocol session and another service to use the protocol session, a very low AE_ExecuteCycle may lead many business processes to be in the queue, with only the first service running. This may result in many protocol sessions accumulating in an open state, and session limits being met sooner than is necessary.
Increase the time period that a business process can use a thread, before releasing it to be used for another business process. Property: noapp.AE_ExecuteCycleTime.#	R	R	Maximum time period, in milliseconds, for which a business process can use a thread before releasing it for use by another business process. This value will override the value set for AE_ExecuteCycle. Tuning the value for this property ensures that a series of unusually slow steps will not tie up a thread completely. This value can be different for each queue. .# indicates the queue number. A value that is too low may result in the accumulation of more sessions than are recommended.
Increase the number of concurrent threads. Property: noapp.MaxThreads	R	R	Total number of concurrent threads that Sterling File Gateway is allowed to use. This value is the total number of threads available to a workflow engine to execute business process steps. Other, nonworkflow engine threads do not come under the purview of this limit. For example, the threads set in fgRouteConcurrentSessionLimit do not come under the purview of this limit.
Increase the number of concurrent threads in HTTP server adapters. Property: http.numOfmaxThread	R	R	Total number of concurrent threads for all HTTP server adapters in your Sterling Integrator installation. The default value is 10. If your users are experiencing slow response when many concurrent connections have been made to



Recommendation	Dev	Prod	Comments
			the same port, increase this value to 50. Continue tuning this value until the system response is acceptable for the number of concurrent connections that must be supported. Setting this value to a value that is too high could be detrimental to system stability when too many concurrent connections are made.
Set storage type. Property: filegateway_ui.storagetype=file	R	R	File System is more efficient, and enables storage of much larger files.  Default value: database
Set persistence setting for business processes that perform protocol translation to System Default.	R	R	Business processes that must have persistence settings set to System Default: <ul style="list-style-type: none"> <li>• FileGatewayRoutePGPPackageDocument</li> <li>• FileGatewayRoutePGPUnpackageDocument</li> <li>• User defined business processes used for translation of custom file layers</li> </ul>

# Troubleshoot and Resolve Slow Response Issues

If your users are experiencing slow response when many concurrent connections have been made to the same port, you may need to change some property settings.

All HTTP server adapters in your Sterling Integrator installation share the setting for maximum number of threads. To increase the maximum number of threads running at the same time, edit `customer_overrides.properties` to modify the following property:

```
http.numOfmaxThread = X
```

where *X* is the number of threads. The default value is 10. If your users are experiencing slow response when many concurrent connections have been made to the same port, increase this value to 50. Continue tuning this value until the system response is acceptable for the number of concurrent connections that must be supported. Setting this value to a value that is too high could be detrimental to system stability when too many concurrent connections are made. See the Sterling Integrator documentation for more information about changing property values.

# Create a Routing Channel Template

To create a routing channel template:

1. From the main menu, select **Routes > Templates**.
2. Click **Create**.
3. On the **Type** tab, enter a descriptive name for the template. Only alphanumeric, underscores, and <space> characters are allowed in the template name.

The following are system-designated prefixes and must not be used for user-created templates:

- AFT
  - FileGateway
  - FG
4. Select **Static** or **Dynamic**. If **Dynamic**, select how the consumer is determined, whether by facts or by business process. If by facts, specify the **ConsumerName** or **ConsumerCode** facts in every producer file structure. If by business process, specify the business process name and the element name in **ProcessData** that identifies the consumer.
  5. On the **Special Characters** tab, select how special characters in producer file names should be handled. Use this when the file name the producer gives a file is incompatible with the naming convention the consumer uses. Select from the following:

Selection	Other Input and Results
None	Do not change any special characters.
Substitute characters individually	<p>Enter which characters to substitute with what new characters. The number of characters specified in the search for and replace fields must match. The characters are case-sensitive.</p> <p>For example, Search for character sequence ABC, Replace with 123 would translate a producer file name of:</p> <ul style="list-style-type: none"><li>• Abbot.txt to a consumer file name of 1bbot.txt</li><li>• ABBOT.TXT to a consumer file name of 122OT.TXT</li></ul> <p>Search for abcdef, Replace with ABCDEF would translate producer a file name of:</p> <ul style="list-style-type: none"><li>• abbot.txt to a consumer file name of ABBot.txt</li></ul>

Selection	Other Input and Results
Replace characters, then omit consecutive replacements	Enter which sequence to substitute with what new sequence. For example, Search for [%*\$] Replace with -, would translate all of the following producer file names: <ul style="list-style-type: none"> <li>• A*B.txt</li> <li>• A***B.txt</li> <li>• A%%%%B.txt</li> <li>• A*B.txt</li> <li>• A\$**%B.txt</li> <li>• A*\$%\$*%\$*B.txt</li> </ul> to a consumer file name of A-B.txt
Remove characters	Enter the characters to remove from the producer file name to create the consumer file name.
Remove Windows invalid characters \.*?<> ;%	Characters that are invalid or cause problems in the Windows operating system are removed from producer file names prior to delivering to consumers.
Remove UNIX invalid characters /;!#\$%*"?'<>)	Characters that are invalid or cause problems in the UNIX operating system are removed from producer file names prior to delivering to consumers.
Remove all characters, except alphanumeric, dash, and period	All special characters are removed from producer file names prior to delivering to consumers.

6. On the **Groups** tab, click **Add** beneath each group box. Select from the drop down lists the producer groups and consumer groups that can use the template. You can select one or more producer groups and consumer groups by clicking **Add** and selecting additional groups from the lists.

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**Note:** Select the **All Partners** group in the producer and consumer lists to enable all partners present in the application to use the RCT.

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7. On the **Producer** tab, specify the producer mailbox name pattern and producer file structure. Mailbox paths are case insensitive and should therefore be unique without regard to case.
8. On the **Consumer** tab, specify the consumer mailbox pattern. Check the following:
  - If checked, mailboxes matching this pattern may be created on demand. For a dynamic template, this mailbox creation at run time is required.

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**Note:** The root mailbox for the user must already exist; only a submailbox for the partner is created by Sterling File Gateway.

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- If checked, the delivery channel will attempt to deliver to a listening protocol if available.

---

**Note:** If you have two delivery channels and you only want to send to that listening protocol once, uncheck this option.

---

9. Specify the delivery channel, including the consumer file structure. The innermost layer of the consumer file structure must match the innermost layer of the producer file structure, or be Unknown. The consumer file structure defines the file name format delivered to the consumer. To pass the file name through unchanged, enter: \${ProducerFilename}

---

**Note:** There can only be one consumer file structure for each delivery channel. If you click **Add** and specify another file structure, it will overwrite the previously defined file structure.

---

10. Click **Save** to complete the routing channel template. Sterling File Gateway validates the routing channel template and displays errors for invalid criteria. You will get a confirmation when the template is successfully validated and saved.

# Add Custom Event Codes

You can add custom events to Sterling File Gateway that are associated with any custom protocols and business processes you create. You will need a code, a name, and a description for each event you want to create, as well as permission and subscription settings.

To add custom event codes:

1. Open or create a file named `<install_dir>/properties/customer_overrides.properties`.
2. Add entries in the `customer_overrides.properties` file with the appropriate details about the custom event codes you are creating.

Your new event will be a series of properties describing attributes of the event. See the `FGEventCodes.properties` file for examples. Do not edit the `FGEventCodes.properties` file. Start each line of the custom event code description with:

```
filegateway_eventcodes.CUST
```

The following is a basic example:

```
filegateway_eventcodes.CUST_0265.name=  
filegateway_eventcodes.CUST_0265.attributes=  
filegateway_eventcodes.CUST_0265.text=  
filegateway_eventcodes.CUST_0265.description=  
filegateway_eventcodes.CUST_0265.permissions=  
filegateway_eventcodes.CUST_0265.EventNotificationEmailSubject=  
filegateway_eventcodes.CUST_0265.EventNotificationEmailContentType=
```

- **Event Code:** The event code in the example above is `CUST_0265`. It consists of keyword underscore 4-digit code. It is used to identify all the attributes for a particular event code. Required.
- **Keyword** - any text, optimally 4 characters long, but cannot be `FG_` nor `AFT_`. In the example, the keyword is `CUST`.
- **4-digit Code** - consists of two 2-digit codes - a category identifier and a unique identifier. No two events can have the same 4-digit code.
- **Category Identifier** - The first 2-digit code is a category identifier. You can use a system-defined category or create your own 2-digit code to categorize your codes in a way that is convenient for you. In the example, the category identifier is `02`. The following are the system-defined category codes:

Code	Category
00	Producer File Transfer

Code	Category
02	Routing Business Process
04	File Gateway General
05	Route Plan Determination
06	File Transformation
07	Consumer File Transfer

- Unique Identifier - The second 2-digit code is the unique identifier for the event within the category. 00 to 49 are successful events and 50 to 99 are error events. Error events display in red in Sterling File Gateway. You cannot exceed 99 event codes in a category. In the example, the unique identifier is 65.
- `<EventCode>.name` - This is the name of your event. It will be shown in the subscription UI (**Profile > Notifications**) if subscriptions are enabled, and in the log. Required.
- `<EventCode>.attributes` - A comma-delimited list of attributes for this event. While any attribute can be passed into the event, only these attributes will be stored in the database, will be searchable through the UI, and are usable in the event text defined below. They are generally indexed with the first one in the list having an index of 0. The attribute names must be names that can be passed as an xml element (no special characters, no spaces). This property is required but the list can be empty.
- `<EventCode>.text` - This property contains the text that will show up in the UI when this event is viewed. It can contain text and is generally limited by the Java Format rules (for example, in order to have a single quote, you must put two of them right next to each other.) You can also use attributes above by using the notation {#} which will substitute in the UI the value of the attribute at the index of the #. You do not have to use attributes, the user in the UI can click on the event and see all the attributes and they will still be searchable. So you can send in and store more attributes than you might want to show in the UI. Required.
- `<EventCode>.description` - This description is shown in the subscription UI (**Profile > Notifications**). Required.
- `<EventCode>.permissions` - This is a comma-delimited list of permissions for this event. There are three possible values to use: producer, consumer, subscription. This property is required but it can be empty. Empty means that only the Operator can see the event, and no one can subscribe for notifications to the event.
  - producer - This event can be seen by the producer for this route, and the producer receives notifications if subscribed.
  - consumer - This event can be seen by the consumer for this route, and the consumer receives notifications if subscribed.
  - subscription - This event can be subscribed to. After the subscription is selected for an event, the producer or consumer receives notification of the event if the event has the corresponding producer or consumer permission AND the subscription permission. For an Operator to receive notification of an event, the event must have the subscription permission.
- `<EventCode>.EventNotificationEmailSubject` - This is the subject line for the email notification when the event occurs. The default value is File Gateway Routing Event E-mail Notification [Event Code = {0}], where 0 is the four-digit identifier for the event code.

<EventCode>.EventNotificationEmailContentType - This specifies the content type for the email notification when the event occurs. Valid values are text/plain and html. The default is text/plain.

---

**Note:** See the <install\_dir>/properties/FGEventCodes.properties file as an example for how to structure your event properties. Do not edit the FGEventCodes.properties file.

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3. Save the customer\_overrides.properties file and restart Sterling File Gateway for the new file to take effect.
4. Edit your business process that generates the new event codes to call the FileGatewayRouteEventService, with the proper parameters, including the new custom event codes.
5. Add the FileGatewayRouteEventService, with the proper parameters, including the new custom event code. The following example will fire a hypothetical event:

```
<operation>
  <participant name=" FileGatewayRouteEventService " />
  <output message="Output">
    <assign to="EventCode">CUST_0265</assign>
    <assign to="ExceptionLevel">Normal</assign>
    <assign to="EventAttributes/Directory"
      from="directory/text()" append="true" />
    <assign to="EventAttributes/Comment" >
      BP changed directories</assign>
    <assign to="." from="*"></assign>
  </output>
  <input message="Input">
    <assign to="." from="*"></assign>
  </input>
</operation>
```

To send attributes to the FileGatewayRouteEventService, use the following guidelines. These guidelines only apply to the EventAttributes, not to other parameters of the service:

- The attributes will be sent to the service as a series of assigns. They need to be a series of assigns in order to support the advanced event attribute naming of Sterling File Gateway.
- The first assign must have an attribute append="true". This will append the EventAttributes the first time. The remaining assigns cannot have the append attribute.
- Hardcoded Values. If you want to send a hardcoded attribute value to the service (for example, IsError=true, when you know it will be true every time) then use the following assign statement template:

```
<assign to="EventAttributes/IsError"
  from="string('true')" />
```

- Process Data. If you want to send an attribute that is copied from another attribute in the service (for example, the results of another service, stored in the ProcessData at MyService/ResultCode) then use the following assign statement template:

```
<assign to="EventAttributes/MyServiceResultCode"
  from="MyService/ResultCode/text()" />
```

You can combine those two methods to send both types of attributes into the service, adding the append to the first one:

```
<assign to="EventAttributes/IsError"
  from="string('true')" append="true" />
```



```
<assign to="EventAttributes/MyServiceResultCode"  
  from="MyService/ResultCode/text()" />
```

### Example Section in customer\_overrides.properties File

**Note:** Although the example below shows the items displaying on multiple lines, do not do so in your implementation.

```
filegateway_eventcodes.CUST_0265.name=Custom Event - File Error  
filegateway_eventcodes.CUST_0265.attributes=ConsumerName,MyServiceResultCode,  
  
                                IDNumber  
filegateway_eventcodes.CUST_0265.text=File Error generated during  
processing:  
    Result code: {1} reported for File ID {2} received for Consumer  
    {0}  
filegateway_eventcodes.CUST_0265.description=Event from Custom BP  
generated  
  
                                when error occurs  
filegateway_eventcodes.CUST_0265.permissions=producer,consumer,subscription
```

# filegateway\_eventcodes.properties

The filegateway\_eventcodes.properties file contains properties that control the operation of event codes in Sterling File Gateway.

There are multiple properties in the filegateway\_eventcodes.properties file for each event, in the format:

```
FG_<EVENT_CATEGORY><EVENT_CODE>.<PROPERTY_NAME>=<REPLACEABLE_TEXT>
```

where:

- <PROPERTY\_NAME> is the parameter being defined for the particular event
- <REPLACEABLE\_TEXT> is the value of the parameter for the particular event
- and the values used by Sterling File Gateway for <EVENT\_CATEGORY> are:

Code	Category
00	Producer File Transfer
02	Routing Business Process
04	File Gateway General
05	Route Plan Determination
06	File Transformation
07	Consumer File Transfer

<EVENT\_CODE> is a unique code (within the category) to identify this event. Check the other properties (or the FileGatewayEvent enumeration) to ensure no duplication.

<REPLACEABLE\_TEXT> is text that displayed in the route details so users can monitor progress of the route.

The following information is provided for each event:

Property	Description	Example
Name	Name of the event. Displayed in the subscription UI ( <b>Profile &gt; Notifications</b> ). Required.	XX_0050.name=MyCustomEventFailure

Property	Description	Example
Attributes	Comma delimited list of named attributes to the event. Used in the text field and must correspond to the order listed in the text field. For example, UserId attribute corresponds to {0} below. All attributes need not appear in the text field. Required, but can be empty.	XX_0050.attributes=UserId,ErrorMessage
Text	Event description displayed in the route activity UI for a specific occurrence of this event. Required.	XX_0050.text=User {0} encountered failure {1}
Description	A generic event description that does not use attributes. Displayed in the subscription UI ( <b>Profile &gt; Notifications</b> ). Required.	XX_0050.description=When a user encounters this custom event failure
Permissions	Comma delimited list that indicates who can be notified and who can view this event. Possible values are: <ul style="list-style-type: none"> <li>• subscription - available for subscription to notifications</li> <li>• producer - producers can see in route activity events list and receive notifications</li> <li>• consumer - consumers can see in route activity events list and receive notifications</li> </ul> Optional.	XX_0050.permissions=subscription

filegateway\_eventcodes.properties includes only standard events shipped with Sterling File Gateway. Custom events you create are entered and configured in customer\_overrides.properties.

**Note:** Do not edit the filegateway\_eventcodes.properties file. Make all changes in the customer\_overrides.properties file. For example, to change the name property, enter the following line into customer\_overrides.properties:

```
filegatewayeventcodes.name=CUSTOM
```

substituting CUSTOM with the name of your event code. See *Add Custom Event Codes*.

## About Event Codes (Build 5006 or Later)

Each activity during the progress of a file transfer generates an event code. These codes are displayed in the activity details to enable Partners and Operators to see the progress and navigate to more details. System Administrators can create custom event codes and modify the permissions for standard event codes.

Some event codes trigger notifications to subscribers. System Administrators can change the permissions for an event code by using the `customer_overrides.properties` file to override values in the `FGEventCodes.properties` file. The default subscription settings are provided in the table below:

Event Code	Name	Description	Default Subscription Settings
FG_0050	MailboxAuthorizationFailure	When a user fails to access a mailbox that is monitored	Operators
FG_0201	BusinessProcessStarting	When a business process is started, with the reason for starting it stored in context.	Only in activity details.
FG_0202	BusinessProcessSuccess	When a business process is successfully completed, with a link to the business process.	Only in activity details.
FG_0203	SendMessageBusinessProcessStarted	When a business process is successfully started, with a link to the business process.	Only in activity details.
FG_0250	BusinessProcessFailure	When a business process fails, with a link to the business process	Operators
FG_0401	FactDiscovery	When a fact is discovered by the route, for example, matching a pattern on the file name.	Only in activity details.
FG_0404	ProducerFound	When a producer and user are identified based on the arrived file.	Only in activity details.
FG_0407	ConsumerFound	When a consumer is identified based on the route plan.	Only in activity details.
FG_0408	ArrivedFileStarted	When a file arrives to be routed	Operators, producers, and consumers
FG_0409	ArrivedFileDeterminingRoutes	When an arrived file starts determining routes.	Only in activity details.
FG_0410	ArrivedFileRouting	When an arrived file starts processing routes.	Only in activity details.

Event Code	Name	Description	Default Subscription Settings
FG_0411	ArrivedFileRouted	When an arrived file completes all its routes	Operators, producers, and consumers
FG_0412	RouteStarted	When a route is started from an arrived file.	Only in activity details.
FG_0413	RouteDetermining Deliveries	When a route starts determining deliveries.	Only in activity details.
FG_0414	RouteDelivering	When a route starts processing deliveries.	Only in activity details.
FG_0415	RouteComplete	When a route completes all its deliveries	Operators, producers, and consumers
FG_0416	DeliveryStarted	When a delivery is started from a route.	Only in activity details.
FG_0417	DeliveryTransforming	When a delivery starts to transform the consumer file.	Only in activity details.
FG_0418	DeliveryDelivering	When a delivery starts delivering the consumer file to the consumer.	Only in activity details.
FG_0419	DeliveryComplete	When a delivery is complete	Operators, producers, and consumers
FG_0420	ArrivedFileReplayed	When an arrived file is replayed, with a link to the replay	Operators, producers, and consumers
FG_0421	ArrivedFileReplayOf	When an arrived file is a replay of an original arrived file, with a link to the original file.	Only in activity details.
FG_0422	Redeliver	When a redelivery is requested by a user	Operators, producers, and consumers
FG_0423	DeliverRedelivering	When a delivery starts redelivering the consumer file to the consumer.	Only in activity details.
FG_0424	ArrivedFileIgnored	When an arrived file is ignored due to a configured pattern for ignoring files	Operators, producers
FG_0425	ArrivedFileDescription	The description of the Arrived File	Operators, producers
FG_0450	ProducerMessageNot Found	When a producer message is invalid or cannot be found	Operators, producers
FG_0451	ProducerDocumentNot Found	When a producer document is invalid or cannot be found	Operators, producers
FG_0455	ArrivedFileFailed	When an arrived file fails	Operators, producers
FG_0456	RouteFailed	When a route file fails	Operators, producers, and consumers
FG_0457	DeliveryFailed	When a delivery fails	Operators, producers, and consumers
FG_0458	FileGatewayService VersionMismatch	When a newer version of a system business process is installed, but is not the default chosen version.	Operators
FG_0501	ProducerMailboxRoute CandidatesFound	When route candidates are found for an arrived file based on the producer and the mailbox of the message.	Only in activity details.
FG_0502	RouteCandidatesFound	When route plan candidates are found for an arrived file.	Only in activity details.

Event Code	Name	Description	Default Subscription Settings
FG_0503	RouteCandidate	A route plan candidate for an arrived file.	Only in activity details.
FG_0504	Route	When one or more routes are chosen from the candidates.	Only in activity details.
FG_0505	RoutesFound	The number of routes that will be executed.	Only in activity details.
FG_0506	Route Candidate Does Not Match	When a routing channel template contains no matching producer file structure for an arrived file.	Only in activity details.
FG_0550	ZeroRouteCandidates Found	When no route candidates are found for an arrived file	Operators, producers
FG_0551	ZeroRouteChannelsFound	When no route channels are chosen from the list of candidates for an arrived file	Operators, producers
FG_0552	InvalidRoute	When a route is invalid	Operators, producers
FG_0601	TransformedMessage	When a message is transformed to the final format for the consumer.	Only in activity details.
FG_0602	ProducerPayloadExtracting	When the router begins to extract a producer payload file.	Only in activity details.
FG_0603	ConsumerPayload Constructing	When the router begins to construct a consumer payload file for delivery.	Only in activity details.
FG_0604	ConstructedLayer	When a single layer in the consumer payload file gets constructed.	Only in activity details.
FG_0605	ExtractedLayer	When a single layer in the producer payload file gets extracted.	Only in activity details.
FG_0606	LayerOptions	When options are passed to a business process to process a layer.	Only in activity details.
FG_0607	PGPConstructSkipped	When the PGP Construct layer is skipped because the consumer does not handle PGP and it is optional on the Routing Channel Template	Operators, consumers
FG_0650	ExtractLayerFailed	When extraction of a layer fails	Operators, producers
FG_0651	ConstructLayerFailed	When construction of a layer fails	Operators, consumers
FG_0701	DeliveredMailboxMessage	When a message is delivered to a mailbox (either a consumer mailbox or a mailbox for sending to a listening consumer).	Only in activity details.
FG_0702	DeliveredListeningPartner Message	When the file transfer is complete.	Only in activity details.
FG_0703	ChangeDirectory	When the supported protocol changes directory on the listening consumer's server to transfer the file.	Only in activity details.
FG_0704	ConsumerDestination MailboxFound	When the destination mailbox for the consumer is discovered.	Only in activity details.

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