

Sterling File Gateway



Release 2.2.3 Updates

Version 2.2.3

Sterling File Gateway



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Note

Before using this information and the product it supports, read the information in “Notices” on page 77.

Copyright

This edition applies to Version 2 Release 2 Modification 3 of Sterling File Gateway and to all subsequent releases and modifications until otherwise indicated in new editions.

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Version 2.2.3 Updates

Sterling File Gateway 2.2.3 provides enhanced functionality.

The following enhancements are available in Sterling File Gateway 2.2.3:

Quick Start Guide

The information you need to get started with IBM® Sterling File Gateway version 2.2.3 is provided in this guide.

About Sterling File Gateway

Sterling File Gateway utilizes the Sterling B2B foundation, which includes IBM Sterling B2B Integrator, Sterling Standards, and the Sterling platform, to deliver capabilities similar to those found in Sterling Advanced File Transfer and IBM Sterling Connect:Enterprise® for UNIX, while adding new features and functionality.

Use Sterling File Gateway for movement of large and high-volume file transfers, with end-to-end visibility of file movement in a process-oriented and highly-scalable framework that alleviates file transfer challenges, such as protocol and file brokering, automation, and data security.

Sterling File Gateway supports integration with Sterling B2B Integrator Mailbox, IBM Sterling Control Center, IBM Sterling Secure Proxy, IBM Sterling Connect:Direct® for UNIX server products, Sterling Connect:Direct for Microsoft Windows, and IBM WebSphere® MQ File Transfer Edition. Sterling File Gateway, which is delivered atop the Sterling B2B Integrator platform with a unique application URL, provides single sign-on access to the Sterling B2B Integrator administrative console through menu selection.

System Requirements

Sterling File Gateway system requirements are contained in the Sterling B2B Integrator System Requirements

What's new in release 2.2.3

There are several new features and enhancements in release 2.2.3.

Integration with WebSphere MQ File Transfer Edition

The Sterling File Gateway 2.2.3 release provides integration with IBM WebSphere MQ File Transfer Edition. The key elements of the integration are:

- Support for inbound file transfer requests from WebSphere MQ File Transfer Edition to Sterling File Gateway
- Support for outbound file transfer requests from Sterling File Gateway to WebSphere MQ File Transfer Edition
- Management of WebSphere MQ File Transfer Edition file transfer activity
- Asynchronous file delivery with delivery updates

- Response processing for WebSphere MQ File Transfer Edition agents
- Visibility of WebSphere MQ File Transfer Edition in Sterling File Gateway in lists of protocols, event reporting, logging, and other visibility-related facilities.
- Sterling Control Center monitoring of activity between WebSphere MQ File Transfer Edition and Sterling File Gateway
- Integration of WebSphere MQ File Transfer Edition with the Sterling B2B Integrator mailbox subsystem
- A new adapter, WebSphere MQ File Transfer Edition Agent Adapter, that acts as an embedded WebSphere MQ File Transfer Edition agent within Sterling B2B Integrator
- A new service, WebSphere MQ File Transfer Edition Create Transfer Service, that is used to create transfer requests.

Note that important elements of this release are implemented in Sterling B2B Integrator. Sterling File Gateway provides additional features and functionality on this base.

Additional Tasks for Resolving Issues and File Status after System Failure

Tasks for troubleshooting and resolving issues after a system failure and determining file status after a system failure are included. See *Troubleshoot and Resolve Issues after a System Failure* and *Determine File Status after a System Failure*.

Translation

Sterling B2B Integrator release 2.2.3 supports translation. Translation includes support for several languages that can be used in the user interface and for notifications. See *Translation* for details.

Language for Notifications Sent by email Setting in Profile

Sterling File Gateway users can now modify the language for notifications sent by email from the Profile > Notifications tab in the Sterling File Gateway user interface. Users can choose from 9 languages supported for translation or English. During Sterling File Gateway login, the system checks to determine whether the Sterling B2B Integrator "Preferred Language " setting for email notifications is the same as the browser's language setting. If they are not the same, the user is prompted to change the language setting. See *Set the language for notifications* for details.

Creating Custom email Notifications

If email notifications in multiple languages are needed, define the notification properties in the new `filegateway_notifications.properties` file and edit the `.xlst` templates provided with Sterling File Gateway 2.2.3. See *Creating email notifications in multiple languages* for details.

Additional Details for Sterling Connect:Direct Parameters

In the Create a partner wizard, Sterling File Gateway provides the ability for you to specify certain IBM Sterling Connect:Direct parameters for use in each partner's profile. The documentation explains these parameters and acceptable values. See *Create a partner* in the Route Provisioner help.

Add Custom Tabs to *myFileGateway*

The procedure for creating new tabs for additional functionality in *myFileGateway* has been modified. Sample assets are now included in the installation. These assets can be used as the basis to create custom tabs, for example, a custom Welcome Tab.

Multiple Rebranding

Multiple rebranding includes:

- New property in `filegateway_ui.properties` to support multiple different custom versions of rebranding. See *filegateway_ui.properties*.
- Procedure to implement multiple rebranding for *myFileGateway*. See *Rebrand Sterling File Gateway and myFileGateway*.
- Additional information for setting the URLs when implementing multiple rebranding. See *Setting up HTTPS for myFileGateway*.

Export and Import with Resource Tags

The export and import process has been modified. If there is a Resource Tag on the target system with the same name as the Resource Tag on the source system, you no longer have to rename the target system Resource Tag before you export and import the source system Resource Tag.

Export and Import Documentation Enhancements

The documentation for using Export and Import to migrate from one version or patch to another has been expanded in the 2.2 documentation. The expanded documentation includes guidelines, requirements, and settings for the major steps in the migration process:

1. Migrating Sterling Integrator Managed Resources
2. Migrating Custom Protocols
3. Migrating a Sterling File Gateway Community
4. Migrating Sterling File Gateway Configurations

Revising Business Process Names for Custom Protocols

There is a restriction for revising business process names for custom protocols. See *Adding custom protocols*.

Parameter Changes for Event Codes in the `filegateway_eventcodes.properties` and `customer_overrides.properties` Files

Event Codes parameters have been modified. See *filegateway_eventcodes.properties* and *customer_overrides.properties*

Overview

About IBM Sterling File Gateway

Sterling File Gateway is an application for transferring files between partners using different protocols, file naming conventions, and file formats.

Sterling File Gateway utilizes the Sterling B2B foundation, which includes IBM Sterling B2B Integrator, Sterling Standards, and the Sterling platform, to deliver capabilities similar to those found in Sterling Advanced File Transfer and IBM Sterling Connect:Enterprise for UNIX, while adding new features and functionality.

Use Sterling File Gateway for movement of large and high-volume file transfers, with end-to-end visibility of file movement in a process-oriented and highly-scalable framework that alleviates file transfer challenges, such as protocol and file brokering, automation, and data security.

Sterling File Gateway supports integration with Sterling B2B Integrator Mailbox, IBM Sterling Control Center, IBM Sterling Secure Proxy, IBM Sterling Connect:Direct for UNIX server products, Sterling Connect:Direct for Microsoft Windows, and IBM WebSphere MQ File Transfer Edition. Sterling File Gateway, which is delivered atop the Sterling B2B Integrator platform with a unique application URL, provides single sign-on access to the Sterling B2B Integrator administrative console through menu selection.

How Sterling B2B Integrator and Sterling File Gateway Work Together

Sterling File Gateway utilizes the Sterling B2B foundation, which includes Sterling B2B Integrator, Sterling Standards, and the Sterling platform, to deliver capabilities similar to those found in Sterling Advanced File Transfer and Sterling Connect:Enterprise for UNIX, while adding new features and functionality.

Within Sterling File Gateway, Sterling B2B Integrator is known as the B2B Console, and is accessed from the Tools menu. Administrative functions such as creating and managing user accounts, permission groups, and security keys for Sterling File Gateway are handled in Sterling B2B Integrator.

Sterling File Gateway utilizes the communication adapters of Sterling B2B Integrator, which include the following:

- FTP Server adapter
- FTP Client adapter
- SFTP Server adapter
- SFTP Client adapter
- HTTP Server adapter
- HTTP Client adapter
- Connect:Direct Server adapter
- Command Line adapter 2 (for PGP)
- WebSphere MQ File Transfer Edition Agent adapter
- WebSphere MQ File Transfer Edition Create Transfer Service

To install Sterling File Gateway, you must first install Sterling B2B Integrator. After you install Sterling File Gateway on an instance of Sterling B2B Integrator, when you install upgrades or new builds of Sterling B2B Integrator, Sterling File Gateway upgrades and builds are automatically installed as part of the installation script.

Configuration Checklist for System Administrators

Before installing Sterling File Gateway, review this checklist to understand the overall process.

The following table provides the process for implementing Sterling File Gateway:

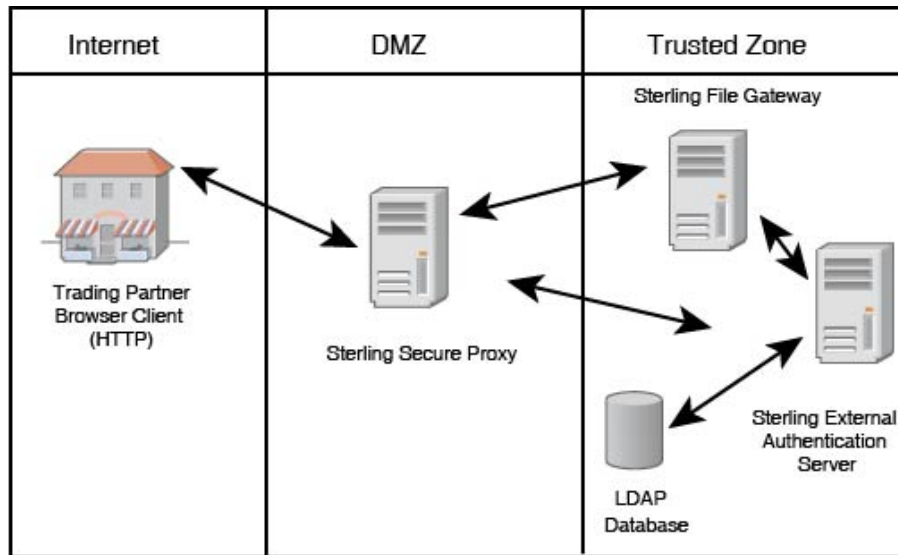
Stage	Description
1	Create an architectural design plan.
2	Determine system and hardware requirements.
3	Obtain product training.
4	Install Sterling B2B Integrator.
5	Install Sterling File Gateway.
6	Tune Sterling B2B Integrator.
7	Configure permissions and set up user accounts for administrative users (Operators, Route Provisioners, and Integration Architects). Delete default user accounts or change the default passwords for users installed with Sterling B2B Integrator.
8	Configure services and adapters, based on the protocols you will use: <ul style="list-style-type: none">• HTTP Server adapter• HTTP Client adapter• FTP Server adapter• FTP Client adapter and services• SFTP Server adapter• SFTP Client adapter and services• Connect:Direct Server adapter and services• Command Line Adapter 2 for PGP• WebSphere MQ File Transfer Edition Agent adapter• WebSphere MQ File Transfer Edition Create Transfer Service
9	Set up any certificates and keys that are required.
10	Verify that a routing schedule is enabled.

How Sterling Secure Proxy and Sterling File Gateway Work Together

Sterling Secure Proxy can be used as a proxy with Sterling File Gateway and other HTTP applications and supports a single sign-on connection. Single sign-on (SSO) provides access control that allows a user to log in once to Sterling Secure Proxy, using the HTTP protocol, and then gain access to Sterling File Gateway without logging in again. SSO bypasses normal user authentication in Sterling File Gateway and trusts that Sterling Secure Proxy has authenticated the user.

After you set up the basic single sign-on configuration, trading partners can communicate in a secure environment that provides authentication. The trading partner first connects to Sterling Secure Proxy which then connects to Sterling File Gateway on behalf of the trading partner.

Following is an illustration of the flow of data:



See *Configure a Single Sign-On Configuration between Sterling File Gateway and Sterling Secure Proxy*.

How Sterling Control Center and Sterling File Gateway Work Together

IBM Sterling Control Center gives you a consolidated view of your entire file transfer environment—plus the power to respond quickly and efficiently to exceptions, and changes in your environment.

To use Sterling Control Center with Sterling B2B Integrator servers, including Sterling File Gateway and WebSphere MQ File Transfer Edition through Sterling B2B Integrator, set up a Sterling Control Center service in Sterling B2B Integrator. See the topic called *Monitoring Sterling B2B Integrator with Sterling Control Center* in the Sterling B2B Integrator documentation for more information.

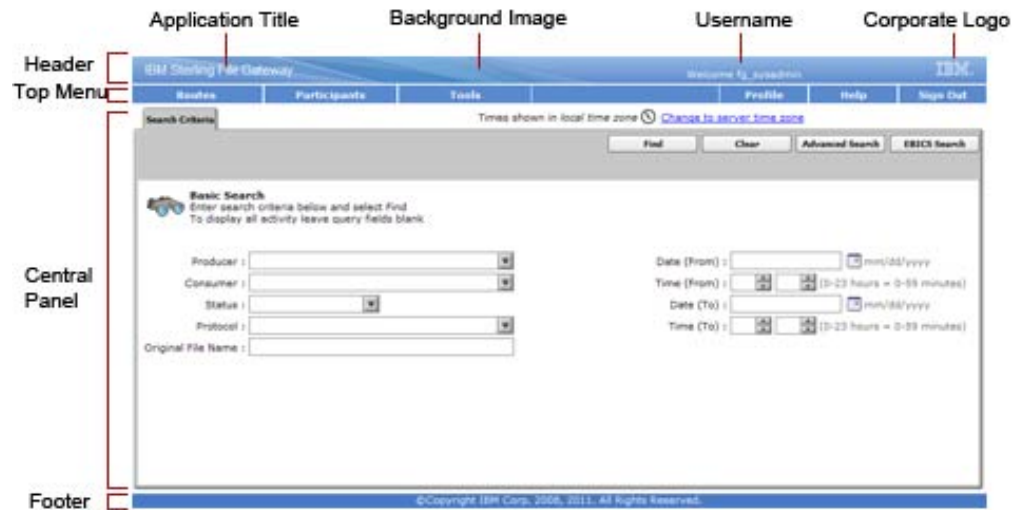
System Admin help

Rebrand Sterling File Gateway and *myFileGateway*

You can rebrand Sterling File Gateway and *myFileGateway* to use your company's logo or other special content. To customize the look of Sterling File Gateway and *myFileGateway*, you create a skin, reference this new skin, and restart your system. You can use the same or different skins for Sterling File Gateway and *myFileGateway*.

About this task

The following figure shows the location of the portions of the screens you can rebrand:



The corresponding file names are:

- Header:
 - [skin]/brandingcontent/header.txt
 - [skin]/brandingcontent/myFgHeader.txt
 - [skin]/load_skin.js
 - [skin]/images/FGimages/brandingimages/...
- Top Menu: [skin]/skin_styles.css
- Central Panel:
 - [skin]/skin_styles.css
 - [skin]/load_skin.js
 - [skin]/images/...
- Footer: [skin]/brandingcontent/footer.txt
- Login Footer: [skin]/brandingcontent/loginFooter.txt

Note: If you rebranded Sterling File Gateway in a previous version, you must make an additional change after you install Build 5201. Add the menuBackground property to your custom skin .css file as in the following:

```
/* --- menu background color for main navigation bar;
default is #7896CF --- */
.menuBackground {
background-color: #7896CF;
}
```

To rebrand Sterling File Gateway:

Procedure

1. Locate files in the following directories for the default skins:
 - <install_dir>/container/Applications/filegateway/isomorphic/skins/
 FileGateway_vXXX
 - and <install_dir>/container/Applications/myfilegateway/isomorphic/
 skins/FileGateway_vXXX where vXXX is the version identifier of the skin.

Tip: To create more than one style of rebranding, create multiple skins with a separate directory for each skin.

2. Copy and rename the “FileGateway_vXXX” directory in path:
`<install_dir>/container/Applications/filegateway/isomorphic/skins/
FileGateway_vXXX`
You can use any valid directory name. Use a version number in your skin name, such that if you make changes to your skin files, your users' browsers will automatically fetch new skin files as opposed to using the browser cache. In the next steps, the renamed directory is referred to as [skin].
3. To customize the header, you can change the following elements:
 - Application Title
 - Background Image
 - Corporate Logo
 - Position of the user name
 - HeaderALT
4. To change the Application Title:
 - a. Open the following file: [skin]/brandingcontent/header.txt
 - b. Change line 11 to refer to your company name (`My Company`)
 - c. Open [skin]/brandingcontent/myFgHeader.txt
 - d. Change line 11 to refer to your company name (or another name) (`My Company`)
5. To change the browser title text, which appears up in the top left-hand side of the browser (if different from Application Title, mentioned in the graphic, above) set the variables:
 - fgWindowTitle (for Sterling File Gateway)
 - myfgWindowTitle (for *myFileGateway*)

in customer_overrides.properties as

```
filegateway_ui.fgWindowTitle=xxx
```

and

```
filegateway_ui.myfgWindowTitle=xxx
```
6. To change the Corporate Logo:
 - a. Create a new Corporate Logo GIF image, which should be 15 pixels high by 41 pixels wide and named “hdr_logo.gif”
 - b. Place this GIF in the following directory: [skin]/images/FGimages/brandingimages/
 - c. Open the following file: [skin]/brandingcontent/header.txt
 - d. Change the reference to isomorphic/skins/FileGateway/images/FGimages/brandingimages/ibm-logo-white.gif to refer to your skin's directory and logo filename where your corporate logo image is located (isomorphic/skins/[skin]/images/FGimages/brandingimages/hdr_logo.gif). You should also change the image alt tag (alt=My Company).
 - e. Open [skin]/brandingcontent/myFgHeader.txt
 - f. Change line 13 to refer to your skin's directory where your corporate logo image is located (isomorphic/skins/[skin]/images/FGimages/brandingimages/hdr_logo.gif). You should also change the image alt tag (alt=My Company) on the same line.
7. To change the position of the user name:
 - a. Open the following file: [skin]/load_skin.js

- b. Change the two variables on Lines 21 and 22 to position the name label where you desire:
 - headerUserNameTop (expressed in absolute pixels from the top)
 - headerUserNameLeft (expressed as a percentage of page width, from the left side)
8. To change the Log In page footer:
 - a. Open the following file: [skin]/brandingcontent/loginFooter.txt
 - b. Modify the content to refer to your company name.
9. To change the footer for all pages after the Log In page:
 - a. Open the following file: [skin]/brandingcontent/footer.txt
 - b. Modify the content to refer to your company name.

The <DIV> within the footer will be modified such that only a background color is used and not a background image. You can modify the <DIV> if preferred. The color of the footer background is found in load_skin.js as the variable "footerBkClr" and has been explained in the page "load_skin.js" comments.

10. To turn off the "splash page" for Sterling File Gateway or *myFileGateway*, go to the directory: [skin]/images/FGimages/brandingimages/lang and locate the language for the splash page in one or more of these directories:

English:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/en
German:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/de
Spanish:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/es
Italian:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/it
French:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/fr
Korean:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/ko
Japanese:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/ja
Simplified Chinese:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/zh
Traditional Chinese:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/zh_TW
Portuguese Brazil:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/pt_BR

These steps specify how to turn off the splash page for English. You can adapt these steps for other languages:

- a. Open the "en" directory.
 - b. Copy the file "BACKUP_noSplash_en.gif"
 - c. If you are turning off the splash page for Sterling File Gateway, rename the file you copied to "SFGsplash_en.gif", overwriting the existing file. If you are turning off the splash page for *myFileGateway*, rename the file you copied to "myFGsplash_en.gif", overwriting the existing file.
11. To rebrand the splash page for Sterling File Gateway or *myFileGateway*, go to the directory: [skin]/images/FGimages/brandingimages/lang and locate the language for the generic splash page in one or more of these directories:

English:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/en
German:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/de
Spanish:

```

isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/es
Italian:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/it
French:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/fr
Korean:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/ko
Japanese:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/ja
Simplified Chinese:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/zh
Traditional Chinese:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/zh_TW
Portuguese Brazil:
isomorphic/skins/MySkin/images/FGimages/brandingimages/lang/pt_BR

```

These steps specify how to rebrand the splash screen for English. You can adapt these steps for other languages:

- a. Open the "en" directory.
 - b. Copy the generic splash page from directory: [skin]/images/FGimages/brandingimages/generic_splash.gif to the "en" directory you opened in Step a.
 - c. If you are rebranding the splash page for Sterling File Gateway, rename the file you copied to "SFGsplash_en.gif", overwriting the existing file. If you are rebranding the splash page for *myFileGateway*, rename the file you copied to "myFGsplash_en.gif", overwriting the existing file.
12. To suppress hover help:
- a. Access the file [skin]/load_skin.js
 - b. Around Line 398, find the section titled "11) Hovers"
 - c. Within this section, locate the conditional statement "if (isc Hover) { ..."
 - d. Modify the property "defaultWidth:200" to a value of 0 (that is, "defaultWidth:0")
13. To reference the new [skin],
- a. create or open customer_overrides.properties in a text editor. Add the following line:

```
filegateway_ui.fgSkinName=[skin]
```

where [skin] is your new skin name for Sterling File Gateway and
filegateway_ui.myfgSkinName=[skin]

where [skin] is your new skin name for *myFileGateway*. The values for [skin] can be different for Sterling File Gateway and *myFileGateway*.

- b. The new skin name needs to be updated in [skin]/load_skin.js. To update the skin name, change approximately line 54 to refer to the directory name of your new [skin], as shown:
- ```

//-----
// Specify skin directory
//-----
// must be relative to your application file or isomorphicDir
isc.Page.setSkinDir("[ISOMORPHIC]/skins/[new skin]/")

```
- c. If you want to use multi-rebranding, specify customContextPathDictatesSkinName=true in the filegateway\_ui.properties.in file. The details about this setting are in the filegateway\_ui.properties.in file:



```
If "true", specifies that the "context path" of the URL ("/abc" in "http://host:port/abc/x/y/z") should be used as the
name of the skin directory ("<install>/container/Applications/*filegateway/isomorphic/skins/abc" to use the example
above). This property only has any effect if the context path is not "/filegateway" or "/myfilegateway" and matches
the regular expression "^/[\\p{L}\\d_]+$".
#
Unlike the Noapp server, the HTTP Server Adapter permits an arbitrary URI (say "/xyz") to map to the myfilegateway.war
file (the user would visit "http://host/xyz" instead of "http://host/myfilegateway"). Moreover, multiple URIs can be
configured on the same HTTP Server Adapter, each pointing to the myfilegateway.war file. In such cases, setting this
property to true will allow separate skins (themes) to be served out from the same HTTP Server Adapter, based upon the
URL that the user visits.
#
This setting does not obsolete the fgSkinName and myfgSkinName properties; regardless of the
customContextPathDictatesSkinName value, users who visit "http://host/filegateway" or "http://host/myfilegateway" will
see the skin specified through fgSkinName and myfgSkinName respectively. It is only when the URL deviates from these
standard names that the customContextPathDictatesSkinName property is examined.
```

- d. Copy this [skin] directory into the *myFileGateway* directory at:  
`<install_dir>/container/Applications/myfilegateway/isomorphic/skins/`.
14. To change the header only for *myFileGateway*:
  - Modify only the two files, "header.txt" and "myFgHeader.txt" in the new directory at: `<install_dir>/container/Applications/myfilegateway/isomorphic/skins/[skin]/brandingcontent`
15. Run the following scripts:
  - `<install_dir>/bin/hardstop.sh`
  - `<install_dir >/bin/deployer.sh`
  - `<install_dir >/bin/setupfiles.sh` (UNIX) or `setupfiles.cmd` (Microsoft Windows).
  - `<install_dir >/bin/run.sh`
16. If any branding files modified contain a matching .gz file (for example, "load\_skin.js" and "load\_skin.js.gz"), then the .gz file must be removed. Check the `/install/noapp/deploy/myfilegateway/webapp` or `/install/noapp/deploy/filegateway/webapp` directory to ensure your changes have been propagated as expected.
17. Refresh your browser cache.

## Results

When you launch Sterling File Gateway, the new branding is shown in the header and footer. When your Partner users launch *myFileGateway*, the new branding is shown in the header.

## Setting up HTTPS for myFileGateway

### About this task

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 data management zone (DMZ), an HTTP Server adapter must be configured that uses a remote perimeter server.

After a Perimeter Server has been configured in Sterling B2B Integrator, its name is available to the HTTP Server adapter configuration, in the Perimeter Server Name list on the HTTP Connection Properties page.

**Restriction:** You cannot deploy Sterling File Gateway on an HTTP server adapter. Only *myFileGateway* can be installed on an HTTP server adapter.

To configure *myFileGateway* to run in the DMZ:

## Procedure

1. Set up a perimeter server in the DMZ.
2. Configure a new Perimeter Server in Sterling B2B 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 B2B 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 depend upon the HTTP Server Adapter to initiate business processes.
  - j. For **Document Storage** and **User Authentication Required**, you can accept the default or change to match your system. If **User Authentication Required** is chosen, the user will have to login twice, once entering their username and password in a pop up browser dialog and a second time through the standard myFileGateway login page.
  - k. For **Use SSL**, select **Must** to implement stronger security. Click **Next**. See *Implementing SSL in the Sterling B2B Integrator 5.2* online library for more information about settings for the SSL Settings page. Click **Next**.
  - l. On the Services Configuration page, click **add**, type the URI `/myfilegateway`. To accomplish multiple different custom versions of myFileGateway, specify URI names that match their skin names (`/department1`", `/department2`", and so forth), all linked to `myfilegateway.war`.
  - 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. 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.

## What to do next

If you have many concurrent users, you may find some degradation of performance. All HTTP server adapters in your Sterling B2B Integrator installation share the setting for maximum number of threads that they will consume. 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 experience 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 too high could be detrimental to system stability when too many concurrent connections are made.

## filegateway\_ui.properties

The *filegateway\_ui.properties* file contains properties which control the location of the Help systems for Sterling File Gateway and *myFileGateway*, as well as several other user interface settings.

The following table describes properties in the *filegateway\_ui.properties* file:

**Remember:** Do not edit the *filegateway\_ui.properties* file. Make all changes in the *customer\_overrides.properties* file. For example, to change the URL for the Help system, enter the following line into *customer\_overrides.properties*:

```
filegateway_ui.help.uri=http://CUSTOM
```

substituting CUSTOM with your preferred URL. See *Using Property Files in the Sterling B2B Integrator 5.2 online library*.

| Property                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| reportingdirectory                | Location of the reports templates.<br><br>Required. Do not modify or override.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| help.uri                          | Specifies the URL for the Help used by Sterling File Gateway. Required. The default is:<br><code>http://help.sterlingcommerce.com/SFG22/index.jsp</code><br><br>This site is hosted by IBM.                                                                                                                                                                                                                                                                                                                                 |
| myFghelp.uri                      | Specifies the URL for the help used by <i>myFileGateway</i> . Required. The default is:<br><code>http://help.sterlingcommerce.com/mySFG22/index.jsp</code><br><br>This site is hosted by IBM.                                                                                                                                                                                                                                                                                                                               |
| notification.partner.url          | Login URL for partner users to access <i>myFileGateway</i> . Required. The default is:<br><code>notification.partner.url=http://&amp;HOST_ADDR;:&amp;PORT1;/myfilegateway</code><br><br><b>Important:</b> The specified URL will be included in email messages generated to partner users. If you implement Sterling Secure Proxy, it is imperative that you change this property to remove the original server details and replace with the Sterling Secure Proxy-designated URL.                                          |
| notification.admin.url            | Login URL for administrative users to access Sterling File Gateway. Required. The default is:<br><code>notification.admin.url=http://&lt;si-host-address&gt;;:&lt;si-port-number&gt;/filegateway</code><br><br><b>Important:</b> The specified URL will be included in email messages generated to administrative users. If you implement Sterling Secure Proxy, it is imperative that you override this property to remove the original server host and port and replace with the URL designated by Sterling Secure Proxy. |
| fgMaxRoutingChannelRecords        | Limits the total number of routing channel records returned by a search. Required. Default is 1000. You can change this to fine tune performance by editing the <code>customer_overrides.properties</code> file.                                                                                                                                                                                                                                                                                                            |
| myFgStoragetype                   | Storage type to use for new documents sent through <i>myFileGateway</i> . Possible values are:<br><ul style="list-style-type: none"> <li>• default - use the system default</li> <li>• db - store documents in database</li> <li>• file - store documents in file system</li> </ul> The default is default.<br><br>To change this value, use the <code>customer_overrides.properties</code> file. For example to set it to database:<br><code>filegateway_ui.myFgStoragetype=db</code>                                      |
| fgMaxActivityRecords              | Limits the total number of Activity Records that will be returned in activity search. This can be edited to fine tune performance. The default is:<br><code>fgMaxActivityRecords=1000</code>                                                                                                                                                                                                                                                                                                                                |
| fgWindowTitle                     | The title of the window that displays in the top browser bar for Sterling File Gateway. Required. Default is Welcome to Sterling File Gateway.                                                                                                                                                                                                                                                                                                                                                                              |
| myfgWindowTitle                   | The title of the window that displays in the top browser bar for <i>myFileGateway</i> . Default is Welcome to Sterling File Gateway.                                                                                                                                                                                                                                                                                                                                                                                        |
| fgSkinName_vXXX                   | The file that contains the branding information for Sterling File Gateway, with XXX being the version number. Required. Default is <code>FileGateway_v001</code> .                                                                                                                                                                                                                                                                                                                                                          |
| myfgSkinName_vXXX                 | The file that contains the branding information for <i>myFileGateway</i> , with XXX being the version number. Required. Default is <code>myFileGateway_v001</code> .                                                                                                                                                                                                                                                                                                                                                        |
| fgOnboardingDefaultSessionTimeout | The default session timeout in minutes for a Partner User created using the Sterling File GatewaySterling File Gateway onboarding.<br><br>The default is:<br><code>fgOnboardingDefaultSessionTimeoutInMinutes=15</code>                                                                                                                                                                                                                                                                                                     |

| Property                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| fgOnboardingDefaultUserGroupId           | The group partner users are automatically assigned to when they are created as a result of creating a partner in Sterling File Gateway, migrated from AFT, or the partner's identity is associated with a File Gateway partner group. Required. Default is File Gateway Partners Users Group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| FGConsecFailedAttempts                   | Number of consecutive failed login attempts that are allowed before a user is locked out of the application. Default is 0, which means users are never locked out.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| FGLockInterval                           | Length of time, in minutes, that the lock is applied after the number of failed login attempts is exceeded. Default is 30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| userIdMinLength                          | <p>Minimum number of characters in the user ID. The default is 5. To enable shorter or require longer User IDs, modify the following property in <code>customer_overrides.properties</code>:</p> <p><code>userIdMinLength.ui=(# of characters)</code></p> <p>The value of # of characters must be greater than zero. To implement single sign-on, this value must match the value set in Sterling B2B Integrator.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| myfilegateway.extension_js_file_x        | <p>The name of the JavaScript that defines a custom functionality for tabs in myFileGateway. You can list several .js files by incrementing the final <i>x</i>. The value is in the format:</p> <pre>myfilegateway.<br/>extension_js_file_1=CustomFunc1.js<br/>myfilegateway.<br/>extension_js_file_2=CustomFunc2.js</pre> <p>where CustomFunc = name of the .js file</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| myfilegateway.extension_tab_resource_ids | <p>Contains a comma separated list of resource identifiers that define additional permissions. When setting permissions for users that access myFileGateway, assign myfilegateway.extension_tab_resource_ids for a custom tabs. When you create a custom tab, you can also create a new permission to control whether a user can view that tab. Only new and custom tab permissions are listed in this property.</p> <p><b>Restriction:</b> Users must have permissions to at least one tab, either the standard upload, download, file activity, or reports tab, or one of the permissions created for a custom tab.</p>                                                                                                                                                                                                                                                                      |
| customContextPathDictatesSkinName        | <p>Controls whether the skin to use is determined based on the context path portion of the URL. Valid values are:</p> <ul style="list-style-type: none"> <li>• true</li> <li>• false (default)</li> </ul> <p>If set to false, the skin name will be determined solely using the values of the <code>fgSkinName</code> and <code>myfgSkinName</code> properties. The skin name appears in the URL to the rebranded assets.</p> <p>If set to true, the myfilegateway.war can be deployed on the HTTP Server Adapter to a context path other than <code>"/myfilegateway"</code> and this context path will be used as the skin name. If the context path is <code>"/foo"</code> for instance, the skin name will be determined to be <code>"foo"</code>, which must exist as a custom skin following the steps in the section <code>"Rebrand Sterling File Gateway and myFileGateway"</code>.</p> |

## customer\_overrides.properties

You can add custom event codes that are associated with any custom protocols and business processes you create. The `<EventCode>.name` property has been modified and a new property, `<Eventcode>.displayName` has been added to the file.

The property modifications and additions include:

- `<EventCode>.name` - This is the name of the event. Required.
- `<EventCode>.displayName` - This is the long form of the `<EventCode>.name` of your event. It will be shown in the subscription UI (Profile > Notifications) if subscriptions are enabled and in the log.

## About Event Codes

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 `filegateway_eventcodes.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.           |
| 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    | RouteDeterminingDeliveries        | 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 |

| Event Code | Name                                | Description                                                                                               | Default Subscription Settings       |
|------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------|
| 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_0426    | DeliveryPending                     | When a Delivery is pending.                                                                               | Operators, producers, and consumers |
| FG_427     | ManualStateChange                   | When a user manually changes the state of a delivery.                                                     | Operators, producers, and consumers |
| FG_0450    | ProducerMessageNotFound             | When a producer message is invalid or cannot be found                                                     | Operators, producers                |
| FG_0451    | ProducerDocumentNotFound            | 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    | FileGatewayServiceVersionMismatch   | When a newer version of a system business process is installed, but is not the default chosen version.    | Operators                           |
| FG_0501    | ProducerMailboxRouteCandidatesFound | 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.           |
| 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.           |

| Event Code | Name                             | Description                                                                                                                         | Default Subscription Settings       |
|------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 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    | ZeroRouteCandidatesFound         | 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_0553    | InvalidConsumerBroadcastGroup    | When value of ConsumerBroadcastGroup does not contain name of an existing partner group                                             | Operators, producers                |
| FG_0554    | MaxBroadcastGroupSizeExceeded    | When the number of consumers in broadcast scenarios is too big                                                                      | 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    | ConsumerPayloadConstructing      | 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    | DeliveredListeningPartnerMessage | 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    | ConsumerDestinationMailboxFound  | When the destination mailbox for the consumer is discovered.                                                                        | Only in activity details.           |
| FG_0705    | AsyncTransferIdAssigned          | When an additional transfer identifier has been associated with a delivery.                                                         | Operators, producers, and consumers |
| FG_0706    | AsyncTransferSuccessful          | When an asynchronous transfer has reported successful completion.                                                                   | Operators, producers, and consumers |



| Event Code | Name                            | Description                                                                               | Default Subscription Settings       |
|------------|---------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------|
| FG_0707    | AsynTransferRequestAcknowledged | When an asynchronous transfer request has been acknowledged as received.                  | Operators, producers, and consumers |
| FG_0750    | AmbiguousDeliveryRequestStatus  | When the submission status of an asynchronous delivery request is in doubt.               | Operators                           |
| FG_0751    | DeliveryAlreadyInTerminalState  | When delivery status notification is received for a delivery already in a terminal state. | Operators                           |
| FG_0752    | AsyncTransferFailed             | When an asynchronous transfer has reported failure.                                       | Operators, producers, and consumers |

## Adding 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.

### About this task

To add custom event codes:

#### Procedure

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 `filegateway_eventcodes.properties` file for examples. Do not edit the `filegateway_eventcodes.properties` file. Use the example as a model:

```
filegateway_eventcodes.CUST_0265.name=
filegateway_eventcodes.CUST_0265.displayName=
filegateway_eventcodes.CUST_0265.attributes=
filegateway_eventcodes.CUST_0265.text=
filegateway_eventcodes.CUST_0265.description=
filegateway_eventcodes.CUST_0265.permissions=
```

- 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. Required.
- <EventCode>.displayName - This is the long form of the <EventCode>.Name of your event. It will be shown in the subscription UI (**Profile > Notifications**) if subscriptions are enabled, and in the log.
- <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 and subscribed to by the producer for this route.
  - consumer - This event can be seen and subscribed to by the consumer for this route.
  - subscription - This event can be subscribed to. For a producer or consumer to subscribe to an event, the event must have the corresponding producer or consumer permission AND the subscription permission. For a Operator to subscribe to an event, the event requires only to have the subscription permission.
- EventNotificationEmailSubject - This is the subject line for the email notifications when events occurs. This applies to all event codes for your

system. 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.

- EventNotificationEmailContentType - This specifies the content type for the email notification when the event occurs. This applies to all event codes for your system. Valid values are text/plain and html. The default is text/plain.

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

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

**Remember:** 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

```

## Adding Custom Protocols

You can add support for custom protocols for listening consumers in addition to the ones preconfigured in Sterling File Gateway.

### About this task

The information you provide in performing this procedure determines the text displayed in the Partner management wizard. That is, after you perform this procedure, new choices are available for protocols offered by Sterling File Gateway when creating a community and when creating a listening consumer in a community that is configured for the custom protocol.

### Procedure

1. Write a business process that implements the custom protocol. The business process name must be unique for each custom protocol. Do not use an underscore character (\_) in the name of the business process.

**Restriction:** The configured business process queue is disregarded because the business process is invoked inline.

2. Use the existing AFTEExtensions.xml as a guide to create an AFTEExtensionsCustomer.xml file to describe the protocol. Do not edit the AFTEExtensions.xml file. The AFTEExtensions.xml file is located in the following directory: <install\_dir>/container/Applications/aft/WEB-INF/classes/resources/xml. For the Element "AFTEExtensions", the following attribute is required:
  - bp - The business process created in step 1 that implements the custom protocol

**Important:** The value for bp cannot be edited after it is set. The application does not read the AFTEExtensionsCustomer.xml file at run time to obtain a new value. Do not edit the value of the bp attribute. Create a new protocol with a different name to use a different business process.

3. Save the AFTEExtensionsCustomer.xml file to the same directory as AFTEExtensions.xml.
4. Use the existing AFTEExtensions.properties file as a guide to create the AFTEExtensionsCustomer.properties file. Do not edit the AFTEExtensions.properties file. The AFTEExtensions.properties is located in the following directory: <install\_dir>/container/Applications/aft/WEB-INF/

classes/resources The user interface elements to describe the protocol are specified in the htmlType parameter. Valid values are:

- text
  - password
  - select - When "select" is chosen for htmlType, the UI presents a list whose contents are derived from an "options" class. An example of an "options" class list is in the AFTExtensions.xml file (the text starts with "<OPTION name='SSHRemoteProfiles' class='"
5. Copy the AFTExtensionsCustomer.properties file to: <install\_dir>/container/Applications/aft/WEB-INF/classes/resources
  6. Reference the business process you created in step 1 in a new AFTExtension element in the AFTExtensionsCustomer.xml file.
  7. Stop Sterling File Gateway.
  8. Run <install\_dir>/bin/setupfiles.sh.
  9. Run <install\_dir>/bin/deployer.sh.
  10. Start Sterling File Gateway. The additional protocol will be available when adding and editing communities. After this protocol has been chosen for a community, it then becomes available when creating and editing partners in that community.

## Preparing Communications Adapters for Use with Sterling File Gateway

Sterling File Gateway uses the communications adapters in Sterling B2B Integrator to receive connections from and make connections to Partners for the purpose of transferring files. These connections can use various Internet protocols, including FTP, FTPS, SFTP, SCP, Sterling Connect:Direct, HTTP, HTTPS, and WebDAV. Before using Sterling File Gateway to route files, configure the communications adapters in Sterling B2B Integrator.

### About this task

To configure communications adapters:

### Procedure

1. Determine the communication adapters you require.
2. Review the information needed to configure the adapters you require. The following adapters can be used with Sterling File Gateway:

Protocol	Adapter
FTP, FTPS	FTP Server adapter
FTP, FTPS	FTP Client adapter and services
SSH/SFTP, SSH/SCP	SFTP Server adapter
SSH/SFTP	SFTP Client adapter and services
Sterling Connect:Direct	Connect:Direct Server adapter
PGP	Command Line Adapter 2
HTTP, HTTPS, WebDAV (Requires extensibility. See <i>Add Custom Protocols</i> .)	HTTP Server adapter
HTTP, HTTPS, WebDAV (Requires extensibility. See <i>Add Custom Protocols</i> .)	HTTP Client adapter and services

Protocol	Adapter
WebSphere MQ File Transfer Edition	WebSphere MQ File Transfer Edition Agent adapter
	WebSphere MQ Suite Async adapter
	WebSphere MQ File Transfer Edition Create Transfer service
	FTP Server Adapter

3. Gather the information needed for the adapters.
4. From the main menu, select **Tools > B2B Console**.
5. Select **Deployment > Services > Configuration**.
6. Select and configure the adapters you require.

## Preparing for PDF Format Reports in Double-Byte Character Set (DBCS) Languages

Reports in PDF format require installing additional iText libraries to support correct encoding of double-byte character set (DBCS) languages. Otherwise, the double-byte characters in generated PDF reports may be missing or illegible. HTML and XLS formats display correctly in Asian languages and do not require installing the libraries.

### About this task

If you are viewing PDF reports that contain Chinese, Japanese, or Korean (double-byte) characters, and the characters are either blank or are missing information, do the following steps:

### Procedure

1. Add the following files from the iText library to the classpath of Sterling B2B Integrator:

- iTextAsian.jar
- iTextAsianCmaps.jar

Download the listed files from:

<http://sourceforge.net/projects/itextpdf/files/Asian%20Support/Asian%20CMAPS/>

2. Add the downloaded jars from step 1 to the classpath of your application. Run the below commands, where `<install_dir>` is the install path and `<download_dir>` is the path where the files were downloaded in step 1.

```
<install_dir>/bin/install3rdParty.sh jasperreports 1_2_0 -j
```

```
<download_dir_path>/iTextAsian.jar
```

```
<install_dir>/bin/install3rdParty.sh jasperreports 1_2_0 -j
```

```
<download_dir_path>/iTextAsianCmaps.jar
```

3. Direct your users to download and install the Adobe Reader Asian font pack from the Adobe web site.

## Creating email Notifications in Multiple Languages

To create custom email notifications in multiple languages, you modify the `filegateway_notifications.properties` file to define the notifications. Then you modify the templates provided with Sterling File Gateway 2.2.3.

## filegateway\_notifications.properties File

This is an example of the filegateway\_notifications.properties file:

```
filegateway.email.msg1=You are receiving this notification because you have
subscribed to this event code and you are the {0} on this route.
filegateway.email.msg2=The following File Gateway routing event occurred
filegateway.email.eventDetailHdr=Route Event Details:
filegateway.email.eventCode=Event Code:
filegateway.email.eventMessage=Event Message:
filegateway.email.dataflowId=DataFlowId:
filegateway.email.producer=Producer:
filegateway.email.consumer=Consumer:
filegateway.email.roleProducer=Producer
filegateway.email.roleConsumer=Consumer
filegateway.email.username=Username:
filegateway.email.filename=Filename:
filegateway.email.producerFilename=Producer Filename:
filegateway.email.consumerFilename=Consumer Filename:
filegateway.email.timestamp=Timestamp:
filegateway.email.hyperlinkMsg=Use the link below to sign into your FileGateway
Suite instance:
filegateway.email.myFGHyperlinkMsg=Use the link below to sign into your
myFileGateway Suite instance:
filegateway.email.unavailable=None
```

## Administrators Template

To create email notifications in multiple languages for Administrators, use this template:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:output method="text" indent="yes" encoding="UTF-8" media-type="text/plain;charset=UTF-8;" />

<xsl:template match="/">
<xsl:apply-templates select="FgRouteEvent"/>
</xsl:template>

<xsl:template match="/FgRouteEvent">
<xsl:value-of select="filegateway.email.msg2"/>
<xsl:text>
</xsl:text>
<xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.eventDetailHdr"/>
===== <xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.eventCode"/><xsl:text> </xsl:text><xsl:value-of select="EventCode"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.eventMessage"/><xsl:text> </xsl:text><xsl:value-of select="EventMessage"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.dataflowId"/><xsl:text> </xsl:text><xsl:value-of select="DataFlowId"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.producer"/><xsl:text> </xsl:text><xsl:value-of select="Producer"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.consumer"/><xsl:text> </xsl:text><xsl:value-of select="Consumer"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.username"/><xsl:text> </xsl:text><xsl:value-of select="Username"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.filename"/><xsl:text> </xsl:text><xsl:value-of select="Filename"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.timestamp"/><xsl:text> </xsl:text><xsl:value-of select="Time"/>
===== <xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.hyperlinkMsg"/><xsl:text>
</xsl:text>
<xsl:value-of select="TargetURL"/><xsl:text>
</xsl:text>
</xsl:template>
</xsl:stylesheet>
```

## Partners Template

To create email notifications in multiple languages for Partners, use this template:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:output method="text" indent="yes" encoding="UTF-8" media-type="text/plain;charset=UTF-8;" />

<xsl:template match="/">
<xsl:apply-templates select="FgRouteEvent"/>
</xsl:template>

<xsl:template name="fill-placeholder">
<xsl:param name="placeholder-text"/>
<xsl:param name="replacement-text"/>
<xsl:value-of select="concat(substring-before($placeholder-text, '{0}'), $replacement-text, substring-after($placeholder-text, '{0}'))"/>
</xsl:template>

<xsl:template match="/FgRouteEvent">
<xsl:if test="not('consumer' = Role)">
<xsl:call-template name="fill-placeholder">
<xsl:with-param name="placeholder-text" select="filegateway.email.msg1"/>
<xsl:with-param name="replacement-text" select="filegateway.email.roleProducer"/>
</xsl:call-template>
</xsl:if>
```

```

<xsl:if test='not("producer" = Role)'>
<xsl:call-template name="fill-placeholder">
<xsl:with-param name="placeholder-text" select="filegateway.email.msg1"/>
<xsl:with-param name="replacement-text" select="filegateway.email.roleConsumer"/>
</xsl:call-template>
</xsl:if>
<xsl:text>
</xsl:text>
<xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.msg2"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.eventDetailHdr"/>
===== <xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.eventCode"/><xsl:text> </xsl:text><xsl:value-of select="EventCode"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.eventMessage"/><xsl:text> </xsl:text><xsl:value-of select="EventMessage"/> <xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.producer"/><xsl:text> </xsl:text><xsl:value-of select="Producer"/><xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.consumer"/><xsl:text> </xsl:text><xsl:value-of select="Consumer"/> <xsl:text>
</xsl:text>
<xsl:if test='not("consumer" = Role)'>
<xsl:value-of select="filegateway.email.producerFilename"/><xsl:text> </xsl:text><xsl:value-of select="Filename"/>
</xsl:if>
<xsl:if test='not("producer" = Role)'>
<xsl:value-of select="filegateway.email.consumerFilename"/><xsl:text> </xsl:text><xsl:value-of select="ConsumerFilename"/>
</xsl:if>
<xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.timestamp"/><xsl:text> </xsl:text><xsl:value-of select="Time"/>
===== <xsl:text>
</xsl:text>
<xsl:value-of select="filegateway.email.myFGHyperlinkMsg"/><xsl:text>
</xsl:text>
<xsl:value-of select="TargetURL"/>
<xsl:text>
</xsl:text>
<xsl:text>
</xsl:text>
<xsl:text>
</xsl:text>
<xsl:text>
</xsl:text>
<xsl:text>
</xsl:text>
<xsl:text>
</xsl:text>
<xsl:text>
</xsl:text>
</xsl:template>

</xsl:stylesheet>

```

## Implement AS2

### About this task

You can use Sterling File Gateway as a routing mechanism to send and receive AS2 messages through Sterling B2B Integrator. Applicability Statement 2 (AS2) EDIINT (AS2) technology is a protocol for securely exchanging data with non-repudiation of receipt over the Internet.

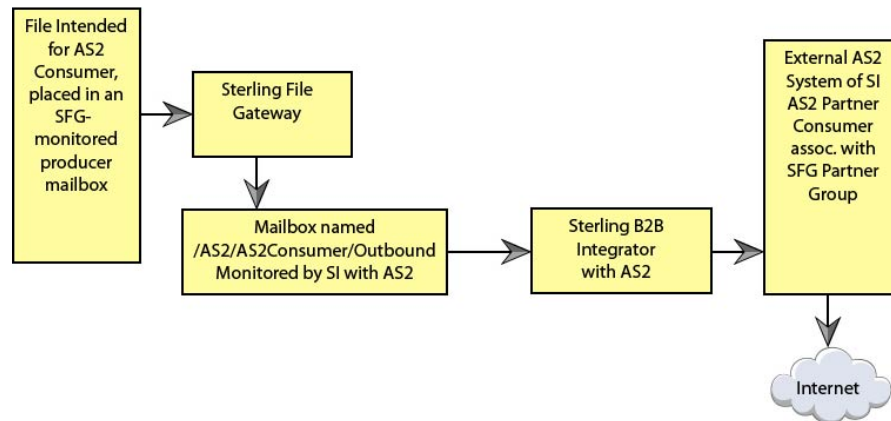
Sterling B2B Integrator with AS2 is a message management system enabling the exchange of a variety of documents between trading partners using secure AS2 EDIINT technology. Sterling B2B Integrator with AS2 uses the Internet as a transport mechanism, ensures privacy and security of documents exchanged, and provides a means of non-repudiation. Using AS2 with Sterling B2B Integrator and Sterling File Gateway extends your investments by sending and receiving documents and interacting with your existing processes. Basically, you put a document into a specific mailbox to send it to a specific partner and you receive documents from partners in partner-specific mailboxes.

To use the features described in this topic, you must have a license for Sterling B2B Integrator with an additional license for AS2 and for Sterling File Gateway, and have them both installed.

For Sterling File Gateway to interoperate with Sterling B2B Integrator using AS2, specific mailboxes are configured as integration points. The following diagram shows the flow of outbound AS2 messages between Sterling File Gateway and other systems.

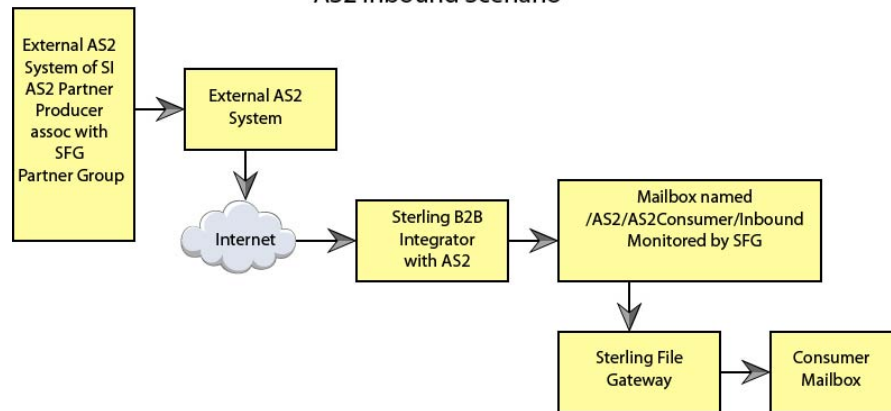


### AS2 Outbound Scenario



The following diagram shows the flow of inbound AS2 messages between Sterling File Gateway and other systems.

### AS2 Inbound Scenario



Notice that in each of these scenarios, the mailbox path is the integration point between Sterling File Gateway and Sterling B2B Integrator. Specifying the correct mailbox paths in the routing channel templates establishes the connection between the systems.

### Prerequisites

Performing this procedure requires knowledge of Sterling B2B Integrator with AS2.

You should be familiar with configuring and verifying an AS2 setup prior to configuring Sterling File Gateway with the AS2 partner.

The AS2 partner must be setup to use mailboxes instead of the file system.

An AS2 transfer from the AS2 Partner should be verified to successfully transfer from the AS2 Partner's mailbox prior to configuring Sterling File Gateway with the AS2 partner.

See *Using AS2* in the Sterling B2B Integrator 5.2 online library.

Use of Sterling File Gateway is not strictly limited to the selections provided in this procedure. To simplify your initial use of AS2 with Sterling File Gateway, some suggested selections are provided.

## Procedure

To set up Sterling File Gateway for file transfers using AS2:

## Procedure

1. From within Sterling File Gateway, select **Tools > B2B Console**.
2. In Sterling B2B Integrator, select **Trading Partners > AS2** to create an AS2 partner. For example, you may create a partner name of *AS2Partner*. You can use any valid user name that is not already in use in Sterling File Gateway. During the AS2 profile creation:
  - a. On the **Identification** page, select **Store AS2 Messages in a Mailbox**.
  - b. On the **Mailbox** page, select **Use Default Inbound/Outbound Mailboxes**. This selection will create a mailbox path of  
*/AS2/AS2Partner/Inbound*

and

*/AS2/AS2Partner/Outbound*

These mailbox paths will need to be referenced in the routing channel templates.

**Note:** Partners created in the AS2 Edition do not belong to any Sterling File Gateway Community, and therefore cannot utilize PGP encryption, which relies on communities for key management.

3. Update the AS2 user account created during the AS2 Partner creation. In Sterling B2B Integrator, the user account in the example will be named: *AS2Partner\_B2B*.
  - a. Select **Accounts > User Accounts**. Locate and edit the AS2 user account.
  - b. Add the *AS2Partner* user to the **File Gateway Partner Users** group.
  - c. To enable this partner to access myFileGateway, grant access to the */Inbound* and */Outbound* mailboxes listed in step 2b.
  - d. On the **User Information** screen, select the *AS2Partner* in the Identity drop-down list, and save.

**Note:** The AS2 partner cannot be edited from the Sterling File Gateway Community or Partner management screens and must be edited from the AS2 partner management screens in Sterling B2B Integrator.

4. Optionally, you may find it useful to create a Sterling File Gateway partner group to organize your AS2 partners. For example, create a group named *AS2 Partners*. In Sterling File Gateway, select **Participants > Groups** and click **Create**.
5. Add *AS2Partner* to a Sterling File Gateway group.
  - a. Select **Participants > Groups**. Click **Add Partners**.
  - b. Select the AS2 partner and a Sterling File Gateway Group, for example *AS2 Partners*. Click **Execute**.
6. Have the Integration Architect create a routing channel template configured to route inbound data received using AS2 or the outbound data sent to AS2.

7. Have the Route Provisioner create routing channels configured to use the AS2 routing channel templates.

## Results

Partners can utilize AS2 for inbound or outbound messages.

**Note:** Messages received using AS2 will always have a file name of “Attachment”. If you have set the following property:

```
mailbox.disallowDuplicateMessages=true
```

as recommended, messages can be overridden by subsequent messages with the same name. To avoid this, set the property to:

```
mailbox.disallowDuplicateMessages=false
```

This setting applies to all of your file transfers, not just the AS2 ones, so consider the implications before changing this property.

**Note:** You can track the progress of the file transfer delivery to the mailbox. In the Arrived File details, locate the event code FG\_0425. Select the associated Dataflow hyperlink to obtain additional details. Select the workflow ID to view details in the AS2 subsystem with details about the original document and movement to the designated mailbox.

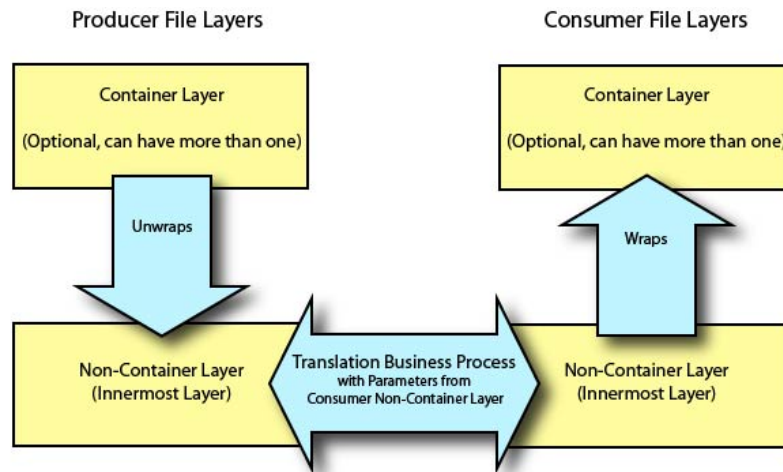
**Note:** Logs for Sterling File Gateway and myFileGateway will not include information about AS2 transfers. Sterling File Gateway routes the data from one mailbox to another and does not initiate or participate in the AS2 transfer.

## About custom file layer types

Routing channel templates use file layer types to describe producer and consumer file structures. The following file types are supported when you install :

- Container type layers - contain other container or non-container layers. For example, a PGP layer can contain a ZIP layer and a ZIP layer can contain a TEXT layer. A zip file can only contain multiple files if it is the outermost layer. The standard container types are:
  - ZIP
  - GZIP
  - PGP
- Non-container type layers - or primitive, do not contain any nested layers. The standard non-container layers are:
  - Text
  - Unknown

The following graphic shows the relationship between the file layers for the producer and the consumer and the processing that Sterling File Gateway performs between each layer:



If you have additional requirements, request that your System Administrator add custom file layer types. When they are added, the new file layer types will be available when you create new routing channel templates. The custom file layers can be container or non-container type, and can be used for either or both the producer or consumer file layers. System Administrators can create a maximum of 100 custom layer types.

## Restrictions for Custom File Layer Types

The following constraints apply to custom file layer types:

- Custom file layer types can be container or non-container types.
- A custom file layer type can be used for the producer layer, the consumer layer, or both.
- A custom container layer type must be configured with a business process that will perform the appropriate function on the container layer.
- A custom non-container layer type on the producer side may map to a custom non-container layer type on the consumer side, but a business process must be specified to perform the appropriate translation from one format to the other.
- The name provided for custom file layer types must begin with "FGC\_". This indicates that table entries for the LAYER\_TYPE column in the FG\_P\_FLR\_TYPE and FG\_C\_FLR\_TYPE tables must begin with "FGC\_". The maximum length for LAYER\_TYPE is 10 characters, including the "FGC\_".
- You can define a maximum of 100 custom layers types, and each type can have a maximum of 10 parameters, including the required parameters.
- All parameter values for custom file layer type tables should conform to the corresponding maximum character length specified in the tables below.
- Every producer file layer type must specify the parameters in the following table for the producer file structure in the FG\_P\_FLR\_PRM\_TYPE table and FgProducerFileLayerParameterType XML element:

Ordinal Value	Parameter
0	File name pattern as regular expression
1	File name pattern group fact names, comma delimited

- Every consumer file layer type must specify the parameter in the following table for the consumer file structure in the FG\_C\_FLR\_PRM\_TYPE table and FgConsumerFileLayerParameterType XML element:

Ordinal Value	Parameter
0	File name format

- Parameters that correspond to ordinal value 0 are displayed in bold in the UI and are required. Other parameters added for custom file layer types cannot be specified to display in bold.
- You cannot can be edit or delete a file layer type if it is used in a template.

## Business Processes Used for Custom File Layers

To create custom file layer types, create the business processes to perform the functions on the custom layers.

- Translation - converts a file in the producer non-container layer to a file in the consumer non-container layer
- Container layer transformation - unwraps the producer container layer to reveal the files within it
- Container layer creation - creates the consumer container layer
- Consumer identification - defines the manner in which the characteristics of the layer identify the consumer to deliver it to

Plan the mappings from your layers in the following sequence:

- Producer container
- Producer non-container
- Consumer non-container
- Consumer container

Sterling File Gateway invokes custom file layer business processes synchronously, waiting for each business process to complete before continuing with the next one. Consequently, all business processes that operate on custom file layers must:

- Complete as quickly as possible. While Sterling File Gateway waits for the business process to complete, finite resources like threads and memory are utilized. The longer the custom file layer business process waits, the longer Sterling File Gateway must wait. This use of resources reduces overall performance and throughput.
- Do not call the Sleep service or the Wait service from the business process.
- Set recovery levels to "manual". Settings of "auto recover" and "auto resume" slow down recovery after a shutdown.
- Set the business process to execute on any queue except 3 or 4.

Consumer identification business processes must also:

- Not manipulate the document, such as changing its name. While doing this may work in specific circumstances, future releases may change that behavior. What Sterling File Gateway does or does not do with the document after calling the consumer identification business process should be treated as an implementation detail subject to change.
- Not be coded to handle the case where the consumer cannot be found; if the ConsumerName element is empty or missing, Sterling File Gateway raises the appropriate event to report that the consumer could not be determined.

## Container File Layer Types for Producer File Structure

To add a container file layer type for the Producer File Structure, three tables must be updated:

- FG\_P\_FLR\_TYPE
- FG\_P\_FLR\_PRM\_TYPE
- FG\_P\_FLR\_TRANS

*Table 1. FG\_P\_FLR\_TYPE.* This table specifies the new file layer type. The value provided in this table for P\_FLR\_TYPE\_KEY will need to be repeated in the FG\_P\_FLR\_PRM\_TYPE and FG\_P\_FLR\_TRANS tables to properly configure a custom file layer type. This table contains the following parameters:

Parameter	Example	Where in UI	Type	Max Characters
P_FLR_TYPE_KEY	DR13D_GUID	Not visible	char	24
LAYER_TYPE	FGC_DR13D	Not visible	varchar	10
IS_CONTAINER	Y	If Y, PFS configuration requires selection of inner layer type	char	1
CONTAINS_NAME	N	Not visible	char	1
DISP_LABEL	Double Rot13 Decrypt	Not visible	varchar	255
DESCRIPTION	Double Rot13 Decrypt	File layer drop down menu	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	SYSTEM	Not visible	varchar	40
MODIFYUSERID	SYSTEM	Not visible	varchar	40
CREATEPROGID	XMLMigrator	Not visible	varchar	40
MODIFYPROGID	XMLMigrator	Not visible	varchar	40

*Table 2. FG\_P\_FLR\_PRM\_TYPE.* This table specifies the individual parameters for the new producer file layer type. Multiple entries may be made for any file layer type. At least two entries are required for the two parameters that are automatically displayed with standard producer file layer types:

- File name pattern as regular expression
- File name pattern group fact names, comma delimited. Each entry for a file layer type requires a new ordinal, increasing in increments of one. Parameters are displayed in the UI in the order indicated by the ordinal (0 is the first parameter in the UI, 1 is the second, and so forth).

The FG\_P\_FLR\_PRM\_TYPE table must specify a value for the P\_FLR\_TYPE\_KEY parameter that matches the value for the P\_FLR\_TYPE\_KEY parameter in the FG\_P\_FLR\_TYPE table.

Parameter Name	Example 1	Example 2	Where Visible in the UI	Type	Max Characters
P_FLR_PRM_TYPE_KEY	DR13D_FP_GUID	DR13D_FPF_GUID	Not visible	char	24
P_FLR_TYPE_KEY	DR13D_GUID	DR13D_GUID	Not visible	char	24
ORDINAL	0	1	Controls order of appearance in UI for PFS configuration	int	9
DESCRIPTION	File name pattern as regular expression	File name pattern group fact names, comma delimited	PFS configuration	varchar	255
DISPLAY_TYPE	String	String	Not visible	varchar	255

*Table 2. FG\_P\_FLR\_PRM\_TYPE (continued).* This table specifies the individual parameters for the new producer file layer type. Multiple entries may be made for any file layer type. At least two entries are required for the two parameters that are automatically displayed with standard producer file layer types:

- File name pattern as regular expression
- File name pattern group fact names, comma delimited. Each entry for a file layer type requires a new ordinal, increasing in increments of one. Parameters are displayed in the UI in the order indicated by the ordinal (0 is the first parameter in the UI, 1 is the second, and so forth).

The FG\_P\_FLR\_PRM\_TYPE table must specify a value for the P\_FLR\_TYPE\_KEY parameter that matches the value for the P\_FLR\_TYPE\_KEY parameter in the FG\_P\_FLR\_TYPE table.

Parameter Name	Example 1	Example 2	Where Visible in the UI	Type	Max Characters
DISPLAY_LABEL	File name pattern	File name pattern fact names	Not visible	varchar	255
PARAM_NAME	FILENAME_PATTERN	FILENAME_PATTERN_FACTNAMES	Not visible	varchar	255
DEFAULT_VALUE	.+	null	Not visible	varchar	255
ALLOWABLE_VALUES	null	null	Not visible	varchar	255
LOCKID	0	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	SYSTEM	SYSTEM	Not visible	varchar	40
MODIFYUSERID	SYSTEM	SYSTEM	Not visible	varchar	40
CREATEPROGID	XMLMigrator	XMLMigrator	Not visible	varchar	40
MODIFYPROGID	XMLMigrator	XMLMigrator	Not visible	varchar	40

**Restriction:** DEFAULT\_VALUE and ALLOWABLE\_VALUES are required to be in the table, but are not supported in the application.

*Table 3. FG\_P\_FLR\_TRANS.* This table specifies the business process that should be used to perform the work necessary to process the new producer container file layer type. This table must be provided a value for the P\_FLR\_TYPE\_KEY parameter that matches the value for the P\_FLR\_TYPE\_KEY parameter in the FG\_P\_FLR\_TYPE table. It takes the following parameters:

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
P_FLR_TRANS_KEY	SDKFJSLKFJ_GUID	Not visible	char	24
P_FLR_TYPE_KEY	DR13D_GUID	Not visible	char	24
BP_NAME	DoubleRot13Decrypt	Not visible	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	admin	Not visible	varchar	40
MODIFYUSERID	admin	Not visible	varchar	40
CREATEPROGID	admin	Not visible	varchar	40
MODIFYPROGID	admin	Not visible	varchar	40

## Non-Container File Layer Types for Producer File Structure

Creating a non-container file layer type is similar to creating a container file layer type, with two exceptions:

- The value for the IS\_CONTAINER parameter in the FG\_P\_FLR\_TYPE should be set to N (No).
- An entry must be made in a new table, FG\_C\_FLR\_TRANS, instead of the FG\_P\_FLR\_TRANS table.

To add a non-container file layer type for the Producer File Structure, three tables must be updated:

- FG\_P\_FLR\_TYPE
- FG\_P\_FLR\_PRM\_TYPE
- FG\_C\_FLR\_TRANS

*Table 4. FG\_P\_FLR\_TYPE.* This table specifies the new producer file layer type.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
P_FLR_TYPE_KEY	BLOCK_GUID	Not visible	char	24
LAYER_TYPE	FGC_BLOCK	Not visible	varchar	10
IS_CONTAINER	N	If N, PFS configuration recognizes as inner layer type	char	1
CONTAINS_NAME	N	Not visible	char	1
DISP_LABEL	Blocked Text	File layer drop down menu	varchar	255
DESCRIPTION	Blocked Text Description	Not visible	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	SYSTEM	Not visible	varchar	40
MODIFYUSERID	SYSTEM	Not visible	varchar	40
CREATEPROGID	XMLMigrator	Not visible	varchar	40
MODIFYPROGID	XMLMigrator	Not visible	varchar	40

*Table 5. FG\_P\_FLR\_PRM\_TYPE.* This table specifies the individual parameters for the new file layer type. Multiple entries may be made for any file layer type. At least two entries are required for the two parameters that are automatically displayed with standard file layer types:

- File name pattern as regular expression
- File name pattern group fact names, comma delimited. Each entry for a file layer type requires a new ordinal, increasing in increments of one. Parameters are displayed in the UI in the order indicated by the ordinal (0 is the first parameter in the UI, 1 is the second, and so forth).

This table must specify a value for the P\_FLR\_TYPE\_KEY parameter that matches the value for the P\_FLR\_TYPE\_KEY parameter in the FG\_P\_FLR\_TYPE table.

**Restriction:** DEFAULT\_VALUE and ALLOWABLE\_VALUES are required to be in the table, but are not supported in the application.

Parameter Name	Example 1	Example 2	Where Visible in the UI	Type	Max Characters
P_FLR_PRM_TYPE_KEY	BLOCK_FP_GUID	BLOCK_FPF_GUID	Not visible	char	24
P_FLR_TYPE_KEY	BLOCK_GUID	BLOCK_GUID	Not visible	char	24
ORDINAL	0	1	Controls order of appearance in UI for PFS configuration	int	9



**Table 5. FG\_P\_FLR\_PRM\_TYPE (continued).** This table specifies the individual parameters for the new file layer type. Multiple entries may be made for any file layer type. At least two entries are required for the two parameters that are automatically displayed with standard file layer types:

- File name pattern as regular expression
- File name pattern group fact names, comma delimited. Each entry for a file layer type requires a new ordinal, increasing in increments of one. Parameters are displayed in the UI in the order indicated by the ordinal (0 is the first parameter in the UI, 1 is the second, and so forth).

This table must specify a value for the P\_FLR\_TYPE\_KEY parameter that matches the value for the P\_FLR\_TYPE\_KEY parameter in the FG\_P\_FLR\_TYPE table.

**Restriction:** DEFAULT\_VALUE and ALLOWABLE\_VALUES are required to be in the table, but are not supported in the application.

Parameter Name	Example 1	Example 2	Where Visible in the UI	Type	Max Characters
DESCRIPTION	File name pattern as regular expression	File name pattern group fact names, comma delimited	PFS configuration	varchar	255
DISPLAY_TYPE	String	String	Not visible	varchar	255
DISPLAY_LABEL	File name pattern	File name pattern fact names	Not visible	varchar	255
PARAM_NAME	FILENAME_PATTERN	FILENAME_PATTERN_FACTNAMES	Not visible	varchar	255
DEFAULT_VALUE	.+	null	Not visible	varchar	255
ALLOWABLE_VALUES	null	null	Not visible	varchar	255
LOCKID	0	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	SYSTEM	SYSTEM	Not visible	varchar	40
MODIFYUSERID	SYSTEM	SYSTEM	Not visible	varchar	40
CREATEPROGID	XMLMigrator	XMLMigrator	Not visible	varchar	40
MODIFYPROGID	XMLMigrator	XMLMigrator	Not visible	varchar	40

**Table 6. FG\_C\_FLR\_TRANS.** This table specifies the legitimate mapping between the producer and consumer inner layers. Only layers with a defined mapping can be configured in the routing channel template. It also specifies the business process that should be used to perform the work necessary to translate the producer file layer type into the corresponding consumer file layer type. This table must be provided a value for the P\_FLR\_TYPE\_KEY parameter that matches the value for the P\_FLR\_TYPE\_KEY parameter in the FG\_P\_FLR\_TYPE table and a value for the C\_FLR\_TYPE\_KEY parameter that matches the value for the C\_FLR\_TYPE\_KEY parameter in the FG\_C\_FLR\_TYPE table. The consumer file layer type specified is required to be a custom type.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
C_FLR_TRANS_KEY	asdfnlsadjfs_GUID	Not visible	char	24
P_FLR_TYPE_KEY	BLOCK_GUID	Not visible	char	24
C_FLR_TYPE_KEY	STREAM_GUID	Not visible	char	24
BP_NAME	BaseMFT_Preprocessor	Not visible	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	admin	Not visible	varchar	40
MODIFYUSERID	admin	Not visible	varchar	40

*Table 6. FG\_C\_FLR\_TRANS (continued).* This table specifies the legitimate mapping between the producer and consumer inner layers. Only layers with a defined mapping can be configured in the routing channel template. It also specifies the business process that should be used to perform the work necessary to translate the producer file layer type into the corresponding consumer file layer type. This table must be provided a value for the P\_FLR\_TYPE\_KEY parameter that matches the value for the P\_FLR\_TYPE\_KEY parameter in the FG\_P\_FLR\_TYPE table and a value for the C\_FLR\_TYPE\_KEY parameter that matches the value for the C\_FLR\_TYPE\_KEY parameter in the FG\_C\_FLR\_TYPE table. The consumer file layer type specified is required to be a custom type.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
CREATEPROGID	admin	Not visible	varchar	40
MODIFYPROGID	admin	Not visible	varchar	40

## Container File Layer Types for Consumer File Structure

To add a container file layer type for the Consumer File Structure, three tables must be updated:

- FG\_C\_FLR\_TYPE
- FG\_C\_FLR\_PRM\_TYPE
- FG\_C\_FLR\_TRANS

*Table 7. FG\_C\_FLR\_TYPE.* This table specifies the new file layer type.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
C_FLR_TYPE_KEY	DR13E_GUID	Not visible	char	24
LAYER_TYPE	FGC_DR13E	Not visible	varchar	10
IS_CONTAINER	Y	If Y, PFS configuration requires selection of inner layer type	varchar	10
DISP_LABEL	Double Rot13 Encryption	File layer drop down menu	varchar	255
DESCRIPTION	Double Rot13 Encryption Description	Not visible	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	SYSTEM	Not visible	varchar	40
MODIFYUSERID	SYSTEM	Not visible	varchar	40
CREATEPROGID	XMLMigrator	Not visible	varchar	40
MODIFYPROGID	XMLMigrator	Not visible	varchar	40

**Table 8. FG\_C\_FLR\_PRM\_TYPE.** This table specifies the individual parameters for the new producer file layer type. Multiple entries may be made for any file layer type. At least one entry is required for the parameter that is automatically displayed with standard consumer file layer types, File name format. Each entry for a file layer type requires a new ordinal, increasing in increments of one. Parameters are displayed in the UI in the order indicated by the ordinal (0 is the first parameter in the UI, 1 is the second, and so on). This table must be provided a value for the C\_FLR\_TYPE\_KEY parameter that matches the value for the C\_FLR\_TYPE\_KEY parameter in the FG\_C\_FLR\_TYPE table.

**Restriction:** DEFAULT\_VALUE and ALLOWABLE\_VALUES are required to be in the table, but are not supported in the application.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
C_FLR_PRM_TYPE_KEY	DR13E_FF_GUID	Not visible	char	24
C_FLR_TYPE_KEY	DR13E_GUID	Not visible	char	24
ORDINAL	0	Controls order of appearance in UI for PFS configuration	int	9
DESCRIPTION	File name format	PFS configuration	varchar	255
DISPLAY_TYPE	String	Not visible	varchar	255
DISPLAY_LABEL	File name format	Not visible	varchar	255
PARAM_NAME	FILENAME_FORMAT	Not visible	varchar	255
DEFAULT_VALUE	\${ProducerFilename}	Not visible	varchar	255
ALLOWABLE_VALUES	null	Not visible	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	SYSTEM	Not visible	varchar	40
MODIFYUSERID	SYSTEM	Not visible	varchar	40
CREATEPROGID	XMLMigrator	Not visible	varchar	40
MODIFYPROGID	XMLMigrator	Not visible	varchar	40

**Table 9. FG\_C\_FLR\_TRANS.** This table specifies the business process that should be used to perform the work necessary to process the new consumer file layer type. This table must be provided a value for the C\_FLR\_TYPE\_KEY parameter that matches the value for the C\_FLR\_TYPE\_KEY parameter in the FG\_C\_FLR\_TYPE table.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
C_FLR_TRANS_KEY	werioweuro_GUID	Not visible	char	24
P_FLR_TYPE_KEY	DR13D_GUID	Not visible	char	24
C_FLR_TYPE_KEY	DR13E_GUID	Not visible	char	24
BP_NAME	DoubleRot13Encrypt	Not visible	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	admin	Not visible	varchar	40
MODIFYUSERID	admin	Not visible	varchar	40
CREATEPROGID	admin	Not visible	varchar	40

## Non-Container File Layer Types for Consumer File Structure

Creating a non-container file layer type is similar to creating a container file layer type, with two exceptions:

- The value for the IS\_CONTAINER parameter in the FG\_C\_FLR\_TYPE should be set to N (No).
- A value must be specified for the P\_FLR\_TYPE\_KEY in the FG\_C\_FLR\_TRANS table.

To add a non-container file layer type for the Producer File Structure, three tables must be updated:

- FG\_C\_FLR\_TYPE
- FG\_C\_FLR\_PRM\_TYPE
- FG\_C\_FLR\_TRANS

*Table 10. FG\_C\_FLR\_TYPE.* This table specifies the new consumer file layer type.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
C_FLR_TYPE_KEY	STREAM_GUID	Not visible	char	24
LAYER_TYPE	FGC_STREAM	Not visible	varchar	10
IS_CONTAINER	N	If N, CFS configuration recognizes as inner layer type	varchar	10
DISP_LABEL	Streamed Text	File layer drop down menu	varchar	255
DESCRIPTION	Streamed Text Description	Not visible	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	SYSTEM	Not visible	varchar	40
MODIFYUSERID	SYSTEM	Not visible	varchar	40
CREATEPROGID	XMLMigrator	Not visible	varchar	40
MODIFYPROGID	XMLMigrator	Not visible	varchar	40

*Table 11. FG\_C\_FLR\_PRM\_TYPE.* This table specifies the individual parameters for the new consumer file layer type. Multiple entries may be made for any file layer type. At least one entry is required for the parameter that is automatically displayed with standard consumer file layer types, File name format. Each entry for a file layer type requires a new ordinal, increasing in increments of one. Parameters are displayed in the UI in the order indicated by the ordinal (0 is the first parameter in the UI, 1 is the second, and so on). This table must be provided a value for the C\_FLR\_TYPE\_KEY parameter that matches the value for the C\_FLR\_TYPE\_KEY parameter in the FG\_C\_FLR\_TYPE table. This table takes the following parameters:

**Restriction:** DEFAULT\_VALUE and ALLOWABLE\_VALUES are required to be in the table, but are not supported in the application.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
C_FLR_PRM_TYPE_KEY	STREAM_FF_GUID	Not visible	char	24
C_FLR_TYPE_KEY	STREAM_GUID	Not visible	char	24
ORDINAL	0	Controls order of appearance in UI for PFS configuration	int	9

**Table 11. FG\_C\_FLR\_PRM\_TYPE (continued).** This table specifies the individual parameters for the new consumer file layer type. Multiple entries may be made for any file layer type. At least one entry is required for the parameter that is automatically displayed with standard consumer file layer types, File name format. Each entry for a file layer type requires a new ordinal, increasing in increments of one. Parameters are displayed in the UI in the order indicated by the ordinal (0 is the first parameter in the UI, 1 is the second, and so on). This table must be provided a value for the C\_FLR\_TYPE\_KEY parameter that matches the value for the C\_FLR\_TYPE\_KEY parameter in the FG\_C\_FLR\_TYPE table. This table takes the following parameters:

**Restriction:** DEFAULT\_VALUE and ALLOWABLE\_VALUES are required to be in the table, but are not supported in the application.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
DESCRIPTION	File name format	PFS configuration	varchar	255
DISPLAY_TYPE	String	Not visible	varchar	255
DISPLAY_LABEL	File name format	Not visible	varchar	255
PARAM_NAME	FILENAME_FORMAT	Not visible	varchar	255
DEFAULT_VALUE	\${ProducerFilename}	Not visible	varchar	255
ALLOWABLE_VALUES	null	Not visible	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	SYSTEM	Not visible	varchar	40
MODIFYUSERID	SYSTEM	Not visible	varchar	40
CREATEPROGID	XMLMigrator	Not visible	varchar	40
MODIFYPROGID	XMLMigrator	Not visible	varchar	40

**Table 12. FG\_C\_FLR\_TRANS.** This table specifies the legitimate mapping between the producer and consumer inner layers. Only layers with a defined mapping can be configured in the routing channel template. It also specifies the business process that should be used to perform the work necessary to translate the producer file layer type into the corresponding consumer file layer type. This table must be provided a value for the P\_FLR\_TYPE\_KEY parameter that matches the value for the P\_FLR\_TYPE\_KEY parameter in the FG\_P\_FLR\_TYPE table and a value for the C\_FLR\_TYPE\_KEY parameter that matches the value for the C\_FLR\_TYPE\_KEY parameter in the FG\_C\_FLR\_TYPE table.

Parameter Name	Example	Where Visible in the UI	Type	Max Characters
C_FLR_TRANS_KEY	asdfnlsadjfs_GUID	Not visible	char	24
P_FLR_TYPE_KEY	BLOCK_GUID	Not visible	char	24
C_FLR_TYPE_KEY	STREAM_GUID	Not visible	char	224
BP_NAME	BaseMFT_Preprocessor	Not visible	varchar	255
LOCKID	0	Not visible	int	5
CREATETS	2008-09-22 17:48:45	Not visible	datetime	19
MODIFYTS	2008-09-22 17:48:45	Not visible	datetime	19
CREATEUSERID	admin	Not visible	varchar	40
MODIFYUSERID	admin	Not visible	varchar	40
CREATEPROGID	admin	Not visible	varchar	40
MODIFYPROGID	admin	Not visible	varchar	40

## Translation

Sterling File Gateway V2.2.3 or later supports translation. Translation includes support for several languages that can be used for the user interface and for notifications.

### Languages

Sterling File Gateway supports:

- English
- German
- Simplified Chinese
- Traditional Chinese
- French
- Spanish
- Italian
- Portuguese-Brazil
- Japanese
- Korean
- Dutch (V5.2.4.2 or later)
- Arabic (myFile Gateway UI only - V2.2.5, Interim Fix 6 or later)

All resources needed for the supported languages are part of the standard product installation. See *Support for Foreign Languages* in the Sterling B2B Integrator 5.2 online library for more information.

### User Interface Effects

You can view the Sterling File Gateway user interface in one of the ten supported languages in addition to English, and myFile Gateway in 11 supported languages. The language used for the user interface is based on these settings:

*Table 13. User interface language settings*

Functional Area	Language Setting	User Interface Language Effect
Sterling File Gateway, including Partner and Community management pages	Client application (browser) setting	For operator users, Sterling File Gateway and Partner and Community management pages are displayed in the preferred language of the client application.

Table 13. User interface language settings (continued)

Functional Area	Language Setting	User Interface Language Effect
Sterling B2B Integrator	Preferred Language setting located in Sterling B2B Integrator <b>Accounts &gt; My Account</b>	<p>The Sterling B2B Integrator user interface, available to administrative users only, is displayed in the language specified by the Preferred Language setting for the account. The Preferred Language drop down has the nine supported languages in addition to English and the <i>Use Client Application Settings</i> option. If you use the Client Application Settings option, the user interface uses the language specified by the browser.</p> <p>This sets the preferred language for Sterling B2B Integrator pages and for the Sterling File Gateway and EBICS event email notifications specified on the Sterling File Gateway Profile page.</p> <p>Preferred Language defaults to <i>English</i> for newly created users and to <i>Use client Application Settings</i> for out-of-the-box users.</p>
Notifications received via email	Language for notifications located in Sterling File Gateway <b>Profile &gt; Notifications</b>	<p>Notifications for Sterling File Gateway and EBICS events are sent in the language specified by this setting. Sterling File Gateway users can modify this setting on the <b>Profile &gt; Notifications</b> tab. Any modifications made to the <b>Profile &gt; Notifications</b> language setting also modify the Preferred Language setting in Sterling B2B Integrator <b>Accounts &gt; My Account</b> and vice versa. The language set in Sterling File Gateway with <b>Profile &gt; Notifications</b> affects the Sterling B2B Integrator user interface and the language set with the Preferred Language in Sterling B2B Integrator affects the language used for notifications by email in Sterling File Gateway.</p>

## Additional Calendar Support (V2.2.5, Interim Fix 6 or later)

Calendars in Sterling File Gateway are displayed as Gregorian by default. In myFile Gateway, however, you can choose to display calendars as Hijiri by setting the following property in the filegateway.property.in file:

```
hijiriCalendarSupport=true
```

By default, this property is set to **false**.

## Provisioning for PDF Format Reports in Double-Byte Character Set (DBCS) Languages

New instructions for preparing to create reports with double-byte character set (DBCS) languages. See *Preparing for PDF format reports in double-byte character set (DBCS) languages*

## Splash Screen

As part of rebranding, the Splash screen can appear in one of the non-English languages supported. The language is determined by the browser's language settings. See the *Rebranding Sterling File Gateway and myFilegateway* for more information.

## Migrate Custom Protocols

Custom Protocols are not Community specific and can be migrated before the Sterling File Gateway Community. The Custom Protocol should not be added to the Community Resource Tag. Because Custom Protocols are custom configurations within the system, the migration steps and the resources migrated will vary between different implementations. Custom Protocol migration is a two-step process because some of the migration is done through the user interface and some is done outside of the user interface.

### Guidelines and Requirements

Guidelines and requirements for Custom Protocol migration include:

- Custom Protocols are not Community specific, instead they are system specific; they are available to all Communities on the system.
- Custom Protocol resources and files (or entries within the files) that you want to migrate should be migrated and copied to the target system before migrating the Sterling File Gateway Community.
- Custom Protocol resources should not be added to the Community Resource Tag
- The resources that define a Custom Protocol can vary from system to system, so the specific resources to be migrated will vary between different implementations. Therefore, all customized resources that are used by the Custom Protocol must be migrated. This includes any all custom BP's and Services used by the Custom Protocol.
- Because some of the configuration is managed outside of the user interface, Custom Protocol Migration is a two step process.
- If the target system already contains the `AFTEExtensionsCustomer.xml` and/or the `AFTEExtensionsCustomer.properties` file, then the entries from these files on the source system will need to be added to these files on the target system. Only completely new Customer Protocol entries should be added. Adding modified (different) versions of previously existing Custom Protocol entries or updating previously existing Custom Protocol entries in these files may lead to unexpected behavior.

### Resource Manager

Custom Protocols used by, or available to, the Sterling File Gateway Community must be migrated to the target system before the Community is migrated. All of the custom resources that are required for the Custom Protocol to work, must be exported from the source system via the Resource File from the Sterling B2B Integrator Resource Manager (for example, custom BPs or custom Services). These custom resources can be added to a Resource Tag (non-Community Resource Tag) or exported ad-hoc. These custom resource components are not subject to the same constraints as the resources within an Sterling File Gateway Community.



## AFTEExtensionCustomer Files

After the resources used by the Custom Protocol have been migrated to the target system through the Resource Manager, both files, located within the Sterling B2B Integrator installation directory, must be copied and moved from the file path specified below on the source system to the same file path on the target system:

### AFTEExtensionsCustomer.xml

The AFTEExtensionsCustomer.xml is located in the following directory within the Sterling B2B Integrator installation directory:

```
<installation directory>/container/Applications/aft/WEB-INF/classes/
resources/xml
```

### AFTEExtensionsCustomer.properties

The AFTEExtensionsCustomer.properties is located in the following directory within the Sterling B2B Integrator installation directory:

```
<installation directory>/container/Applications/aft/WEB-INF/classes/
resources/
```

If these files contain any Custom Protocol configurations that are not intended to be migrated, then both files must be updated with the removal of the unwanted configurations. If the target system already contains the AFTEExtensionsCustomer.xml and/or the AFTEExtensionsCustomer.properties file, then the entries within these files on the source system will need to be added to these files on the target system. Only completely new Customer Protocol entries should be added to these files. Adding modified (different) versions of previously existing Custom Protocol entries or updating previously existing Custom Protocol entries in these files may lead to unexpected behavior.

After both AFTEExtensionCustomer files have been moved to the appropriate directory on the target system, the system must be stopped, and restarted after running setupfiles and deployer.

## Migrate SI Managed Resources

Sterling B2B Integrator customized resources used by the Sterling File Gateway Community must exist on the target system before the Community is migrated. These resources can be migrated to the target system or created new on the target system.

Sterling B2B Integrator managed resources are any resources that are not created within Sterling File Gateway; instead these resources are created and managed within Sterling B2B Integrator. These might include, but are not limited to: AS2 partners, SSH profiles, SSH Authorized User Keys, certificates, Pre- and Post-process BPs, customized server adapters, etc.

The Sterling B2B Integrator managed resources can be migrated via an independent Resource Tag (non-Sterling File Gateway Community Resource Tag) or migrated ad-hoc. The export of these components are not subject to the same constraints as the resources within an Sterling File Gateway Community. Special consideration should be made if any of these Sterling B2B Integrator managed resources are added to the Sterling File Gateway Community Resource Tag as the flexibility of the import may be affected. Specifically, in regards to when overwriting or adding new resources. For example, if an Sterling B2B Integrator managed resource is imported and requires the Update existing objects... flag set to YES, then all objects within the Sterling File Gateway Community will be imported and updated.

## Migrate a Sterling File Gateway Community

After migrating custom protocols, the Sterling File Gateway Community can be migrated. There are specific resource types and settings that must be selected for a successful migration. There are some differences in the migration settings based on the version of Sterling B2B Integrator and Sterling File Gateway being migrated.

### Guidelines

The guidelines for migrating a Sterling File Gateway community include:

System	Guidelines and Requirements
Community Management	<p>For versions up to and including Sterling B2B Integrator 5.2.3 and Sterling File Gateway 2.2.3:</p> <ul style="list-style-type: none"><li>• Only a single community per Resource Tag can be exported or imported at a time.</li><li>• The entire community as a whole must be exported from the source system based on the Resource Tag and the entire community as a whole must be imported to the destination system. This means that all resources within the Resource Tag must be exported and all resources included within the resource file must be imported.</li><li>• Individual partners cannot be independently or individually selected and imported to the target system. The entire community that the partner belongs to must be imported.</li></ul> <p>For systems prior to Sterling B2B Integrator 5.2.3 and Sterling File Gateway 2.2.3</p> <ul style="list-style-type: none"><li>• Only a single source system may be used in the migration path. The Sterling File Gateway Community on the target system cannot be updated with communities from multiple Sterling File Gateway source systems.</li><li>• All new resources that are created within the Sterling File Gateway community must be created on the source system and then migrated to the target system.</li></ul>

System	Guidelines and Requirements
Resource Tag	<p>The Resource Tag (Deployment &gt; Resource Manager &gt; Resource Tags) is managed by Sterling File Gateway when Community and Partner additions or updates are made.</p> <ul style="list-style-type: none"> <li>• The Resource Tag itself must never be deleted. Recreating a Sterling File Gateway Community Resource Tag requires running SFGDBCheck.</li> <li>• Resources should never be removed from a Resource Tag associated with an Sterling File Gateway Community. If a resource must be removed it should be deleted from the Community, using the Sterling File Gateway user interface. It will then be removed from the Resource Tag. During a migration where a resource has been removed on the source system, neither the Sterling File Gateway Community nor the Resource Tag on the target system will be updated with the removal; the resource must be manually removed on the target system from both the Sterling File GatewayCommunity and the Resource Tag after the migration.</li> <li>• Resources that are not managed by Sterling File Gateway (non-Sterling File Gateway partners, mailboxes, user accounts, etc....) must be manually added to the Resource Tag.</li> </ul> <p>For Sterling B2B Integrator 5009, 5103 and Sterling File Gateway 523, and higher, If the Resource Tag already exists on the target system (due to a previous migration), that Resource Tag will be updated during the import with the newly imported resources. The Resource Tag will not be updated with removals, such as a partner that has been deleted on the source system prior to migration.</p> <p>For systems prior to Sterling B2B Integrator 5.2.3 and Sterling File Gateway 2.2.3, if the Resource Tag already exists on the target system (due to a previous migration), that Resource Tag will need to be renamed prior to the migration. This can lead to multiple Resource Tags, each representing a portion of an Sterling File Gateway Community.</p>
Sterling B2B Integrator Resources	<p>All Sterling B2B Integrator customized resources used by, or available to, the Sterling File Gateway Community must exist on the target system before the Community is migrated. These customized resources can either be migrated to, or created new on the target system.</p> <p>The migration of these Sterling B2B Integrator resources can be performed by adding them to a Resource Tag (non-Sterling File Gateway Community Resource Tag), or migrating them ad-hoc.</p>

## Resource Tag management

No changes should be made to the Resource Tag. There are four Resource Types required for successful migration and must be selected:

Other Resource Types can be added; their related resources and components must also be included.

## Resource Tag configuration

There are four Resource Types required for successful migration and all four must be selected:

- Trading Partner Data
- Accounts
- Mailboxes
- Communities

Other Resource Types can be added. Be sure to include any related resources and components for the added Resource Types.

The Resource Types have required settings for migration:

*Table 14. Resource Type required migration settings*

Resource	Selections
Trading Partner Data Resources	<p>There are two Trading Partner Data resources that are required for migration and both must be selected:</p> <p><b>Identities</b></p> <p>By default, Identities are added to the Resource Tag for all Trading Partners within the Community. All Identities that are added to the Resource Tag by default are required for a migration of a Community, so all Identities must remain selected (be present in the “Must Be Associated” field). Other Identities can be added as needed. Be sure to add any related resources and/or components for the Identity to the Resource Tag.</p> <p><b>Packagings</b></p> <p>By default, Packagings are added to the Resource Tag for all Trading Partners within the Community. All Packagings that are added to the Resource Tag by default are required for a migration, so all Packagings must remain selected (be present in the “Must Be Associated” field). Other Packagings can be added as needed. Be sure to add any related resources and/or components for the packaging to the Resource Tag.</p> <p>Other Partner Resources can be added as needed. Be sure to include any related resources and/or components, such as an AS2 Partner, for any added Partner Resources.</p>
Accounts	<p>Only the User option is required for migrating a Community managed by Sterling File Gateway. All Users that are added to the Resource Tag by default are required for a successful migration of a Community, so all Users must remain selected (be present in the “Must Be Associated” field). Other Users can be added to the Resource Tag. Be sure to add any related resources and/or components to the Resource Tag for the added Users.</p> <p>If any other Account resources are selected, the Resource Tag should be updated so that only the "Users" resource is selected.</p> <p>It is recommended that Permissions and Groups not be added to the Resource Tag for migration. They are not required and if migrated between systems with different versions/patches, it might lead to unexpected behavior.</p>

Table 14. Resource Type required migration settings (continued)

Resource	Selections
Mailbox	<p>There are two Mailbox resources that are required for migration and both must be selected:</p> <p><b>Mailbox Virtual Roots</b> By default, Mailbox Virtual Roots are added to the Resource Tag for all Partners in the Community. All Mailbox Virtual Roots that are added to the Resource Tag by default are required for a migration of a Community, so all Mailbox Virtual Roots must remain selected (be present in the “Must Be Associated” field). Other Mailbox Virtual Roots can be added to the Resource Tag.</p> <p><b>Mailbox Metadata</b> By default, Mailbox Metadata are added to the Resource Tag for all Trading Partners within the Community. All Mailbox Metadata that are added to the Resource Tag by default are required for a migration of a Community, so all Mailbox Metadata must remain selected (be present in the “Must Be Associated” field). Other Mailbox Metadata can be added to the Resource Tag. Be sure to add any related resources and/or components to the Resource Tag for the added Mailbox Metadata.</p> <p>Mailbox Routing Rules can be added as needed. Be sure to add any related resources and/or components for the Mailbox Routing Rules to the Resource Tag. For example, when adding a custom Mailbox Routing Rule, the Business Process referenced by the Mailbox Routing Rule must also be included.</p> <p>The File Gateway Routing Rule should not be added to the Resource Tag. This routing rule may be updated between versions and/or patches. If it is migrated between systems with different versions/patches, it might lead to unexpected behavior.</p>
Communities	<p>By default, only the Community that the Resource Tag represents will appear as an option. The Community is required for a migration of a Community, so it must remain selected. If it is not present, stop the migration and contact Support.</p>

## Resource Tag Export

The export must be performed by exporting via a Resource Tag. Always examine the Export Report after generating the resource file and verify that no errors were generated before continuing with the migration. If errors were generated in the Export Report, contact Support to open a case and provide the export report and the Resource File generated.

## Resource Tag Import

All resources within the Resource Tag must be imported. All resources within the resource file are required for the import to be successful, even if the purpose of the migration is to insert new resources into the target system's Community without changing existing resources. The Import All Resources option automatically selects all resources in the resource file for importing. It is recommended that you always use the Import All Resources option. If you do not use this option you will be prompted to manually select all of the resources to import for each resource type.

Table 15. Different behavior for duplicate Resource Tags on target systems

For Systems	If the target system already contains a Resource Tag with the same name as the one being imported ...
prior to Sterling B2B Integrator 5.2.3 and Sterling File Gateway 2.2.3,	the Resource Tag on the target system must be renamed before starting the import. Do not delete the Resource Tag prior to importing.
Sterling B2B Integrator 5009, 5103 and Sterling File Gateway 523, and higher	the Resource Tag will be updated during the import with the newly imported resources. The Resource Tag will not be updated with removals, such as a partner that has been deleted on the source system prior to migration.

During the import you will be asked "Some objects being imported may exist in the system. Do you wish to update them?". This option can be set to either Yes or No. Be careful when setting this to "Yes" because the resource file being imported represents many resources within an Sterling File Gateway Community where all of the resources must participate in the import process. Also, there may be planned differences in configuration for some resources between the source and target systems; for example, the Partner User passwords may differ between the source and target systems.

Always examine the Import Report and verify that no errors were generated. If errors were generated, contact Support to open a case and provide the import report and the Resource File used.

## Migrate Sterling File Gateway Configurations

After the Custom Protocols and Sterling File Gateway Community have been migrated, the Sterling File Gateway Configurations can be migrated. The configuration resources are not Community specific. It is recommended that these resources be migrated separately from the Community.

### Guidelines and Requirements

Guidelines and requirements for migrating Sterling File Gateway Configurations include:

Sterling File Gateway Configurations are not added to a Resource Tag by default. Sterling File Gateway Configuration objects are not "Community specific" and carry with them additional constraints that affect the migration process. It is recommended that the File Gateway Configurations not be added to the Resource Tag and that they follow an independent (parallel) migration process. Sterling File Gateway Configurations include:

#### Partner Groups

Partner Groups must be imported separately from the Community when the migration process is used to add (insert) new configurations into the Sterling File Gateway Community (I.E. not update (overwrite) the entire Sterling File Gateway Community). Failure to import Partner Groups will lead to a partner being disassociated from the Partner Group(s) that the partner is included within, and the new Partner(s) will not show up as a Partner within Sterling File Gateway

### **Consumer Customer File Layers, Producer Customer File Layers, Routing Channels, Routing Channel Templates**

If the resource(s) exists on the target system with the same name, they first must be deleted from the target system prior to the import. It is recommended that these resources are deleted before the migration of the Sterling File Gateway Community. The “Some objects being imported may exist in the system. Do you wish to update them?” option does not apply to these resources.

### **Partner Groups**

After the successful migration of the Community (successfully exported and then successfully imported), the Sterling File Gateway Configurations Partner Groups must be migrated separately to the target system. Failure to import Partner Groups will lead to a partner being disassociated from the Partner Group(s) that the partner is included within, and the new Partner(s) will not show up as a Partner within Sterling File Gateway.

The migration of the Partner Groups should be performed in a separate migration (import/export process), either by creating a new Resource Tag that contains only Partner Groups, or an ad hoc export/import (no Resource Tag configuration) can be performed.

During a migration where a Partner Group with the same name already exists on the target system, the “Some objects being imported may exist in the system. Do you wish to update them?” option must be set to Yes. Not setting this setting to yes will result in the selected Partner Groups not being updated on the target system.

### **Other Configurations**

After the migration of the Community and the Partner Groups, the remaining File Gateway Configurations resources can be migrated to the target system. These configurations are:

- Consumer Custom File Layers
- Producer Custom File Layers
- Routing Channels
- Routing Channel Templates

During a migration of any or all of these four resource types, if the resource exists on the target system with the same name, first those resources must be deleted from the target system prior to the import. The “Some objects being imported may exist in the system. Do you wish to update them?” option does not apply to them.

## **Export and Import Resources**

### **About this task**

If you want to use the same configurations of partners, communities, partner groups, routing channels, routing channel templates, or custom file layers in multiple Sterling File Gateway installations, you can create them in one installation, export them from there, and import them into other installations. This is useful for first creating a test system and then moving the successful configurations to a production system.

It is a good practice to fully implement Sterling File Gateway in a test environment. You can configure the required resources, test to confirm that everything is functioning as you require, and then move to a production environment. You may want to use a staging environment as another step in the process.

## Procedure

1. To export and import from Sterling File Gateway, select **Tools > B2B Console > Deployment > Resource Manager > Resource Tags**.
2. Search for or select from the list the resource tag name (same as the community name). When selecting a large number of resources to associate with a resource tag, you may need to use the Tab key three times to view the **Finish** button.
3. Click **Edit** next to the Resource Tag.
4. Edit the community resource tag to add partner groups, routing channel templates, custom file layers, routing channels, business processes, maps, service configurations, SSH resources, and any other relevant resources.
5. Select from the following according to your needs:
  - Accounts (if created outside regular partner creation)
  - Service Configurations
  - Digital Certificates
  - SSH Resources
  - PGP Profiles
  - Perimeter Servers
  - Business Processes (if created for dynamic routing channel templates, custom file layers, or other extensibility)
  - Schedules
  - Mailboxes (if created outside regular partner creation or regular routing channel creation)
  - Maps (if created for extensibility)
6. Select **File Gateway Configurations** to access selections of the following:
  - Routing Channel Templates
  - Consumer Custom File Layers
  - Producer Custom File Layers
  - Partner Groups
  - Routing Channels

**Note:** A partner group is the only Sterling File Gateway object that is updated upon import. All other Sterling File Gateway objects are not updated, regardless of the specification for the “Update Existing Object” value. To update any File Gateway object other than a group on the target system upon import, you must first delete it from target system.

7. Continue through the wizard, using the right and left arrows to select the components to include in the resource tag.
8. Click **Finish** to confirm the edits to the resource tag.

**Note:** When selecting a large number of resources to associate with a resource tag, you may need to use the Tab key three times to view the **Finish** button.

9. From the Administration menu, select **Deployment > Resource Manager > Import/Export**.



10. Click **Go!** next to **Export Resources**.
11. Choose **XML Document** for the type of format.
12. Select **Yes** for tag name.
13. Choose the resource tag with the name of the community name you want to export from the list.
14. Select whether to export private certificates.
15. Click **Finish** to confirm the report. The export file is created. Examine the export report to confirm that there are no errors.
16. Save the export file to an accessible directory.
17. In the target system, import the resources by selecting **Tools > B2B Console > Deployment > Resource Manager > Import/Export**.  
When importing a community, a page is presented for each kind of resource in the export file. Choose all the objects for each kind of resource so all objects are imported. You cannot specify individual partners for import; all the partners in the exported community are imported at once. Do not change the name of the resource tag. When importing routing rules, do not import any routing rules with a suffix of "\_AFTRouter".
18. After importing, review the Import Report to verify a status of **Success** for each resource. Correct any conditions noted in the report that did not result in success.

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## Integration Architect help

### Creating a Community

Integration Architects create, edit, and delete communities.

#### Procedure

1. From the main menu, select **Participants > Communities**.
2. Click **add**.
3. Complete the information in the wizard for the new community.

Field	Description
Community Name	A meaningful name to describe the community. Required. Cannot be a name previously used in IBM Sterling B2B Integrator. Do not use spaces, tabs, or the following special characters:  ! @ # % ^ * ( ) + ? , < > [ ] { } / ' \ "   ;
Secret key for PGP signing	Select from list of keys assigned to AFTPGPPProfile. Required if any of the consuming partners belonging to this community require PGP signed data from the Router. See <i>Prepare to Use PGP</i> .
Secret key for PGP decryption	Select from list of keys assigned to AFTPGPPProfile. Required if any of the producing partners belonging to this community send PGP encrypted data to the Router. This secret key may be the same or different from the one for PGP signing. See <i>Prepare to Use PGP</i> .

Field	Description
Partner Initiates Protocol Connections to Mailbox	Select to make this option available when creating Partners belonging to this community. A unique mailbox is created for Partners that initiate connections. Depending on other selections, submailboxes are created for Partners to enable them to drop files off for routing, or pick up files routed to them.
Partner Listens for Protocol Connections	Select to enable protocols available to listening Partners belonging to this community. When selected, the following choices are available when creating Partners belonging to this community: <ul style="list-style-type: none"> <li>• FTP or FTPS</li> <li>• Connect:Direct</li> <li>• SSH/SFTP</li> <li>• WebSphere MQ FTE</li> </ul> If the System Administrator adds other protocols to the AFTEExtensionsCustomer.xml file, they are also provided as choices here.
Should member partners receive notifications that they are subscribed to?	This selection has no effect in Sterling File Gateway.

4. Confirm the information and save.
5. Close the Community window to return to Sterling File Gateway.

## Results

Route Provisioners can now create partners using the community.

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## Route Provisioner help

### Creating a Partner

#### About this task

You can create partners in a test system and migrate them to a production system using Export and Import, or you can create partners directly in a production system. To avoid conflicts between systems, you should create partners in either the source or target system of Export/Import, not both.

To create a partner:

#### Procedure

1. From the main menu, select **Participants > Partners**
2. Click **Create**.
3. From the **Community** list, select the community to which this Partner will belong.
4. Complete the steps in the wizard to enter the information for the Partner.

Field	Description
Partner Name	A unique name with a maximum of 100 characters. Spaces are allowed. Two partners cannot have the same Partner Name. You cannot modify the Partner Name after the partner is created.
Partner Code	<p>The Partner Code field is optional. If not specified, a Partner Code is generated based on the Partner Name, up to the first 24 alphanumeric characters, when the partner is created.</p> <p>A maximum of 24 alphanumeric characters. Only characters from the US-ASCII alphabet, numbers, and special characters of underscore, dash and period are permitted. Two partners cannot have the same Partner Code. You cannot modify the Partner Code after the partner is created.</p> <p><b>Note:</b> If you specify a Partner Code different from the Partner Name, do not specify ProducerCode or ConsumerCode in the root portion of the mailbox path when you create a routing channel. A mailbox would be created that cannot be accessed by users to download files.</p> <p>A consumer mailbox path pattern of /\${ConsumerName}/from_\${ProducerCode} or a producer mailbox path of /\${ProducerName}/to_\${ConsumerCode} is valid.</p>
Address	Address of the Partner. Optional.
City	City of the Partner. Optional.
State	State or province the Partner operates in. Optional.
Zip or Postal Code	Postal code for the Partner. Optional.
Telephone Number	Phone contact number for the Partner. Required.
Country	Select from the list. Required. Default is UNITED STATES.
Time Zone	Select from the list. Required. Default is (GMT-05:00) Eastern Time (US & Canada).
Email Address	Email address of the Partner. Required.

##### 5. Complete the steps in the wizard to create a user account:

Field	Description
Authentication Type	<p>Valid values are:</p> <ul style="list-style-type: none"> <li>Local</li> <li>External - authenticated outside Sterling File Gateway</li> </ul> <p>For External Authentication Type, select the server that will perform authentication in the Authentication Host field.</p>
User Name	<p>A minimum of 5 characters and maximum of 36 characters. No spaces, tabs, or the following characters:</p> <p>!@#%^*()+?,&lt;&gt;[]{}\"'\" ;</p>
Password	A maximum number of 100 characters. Must comply with rules in the selected password policy, if one is specified. Disabled if Authentication Type is External.
Password Policy	Populated with values of password policy from Sterling B2B Integrator. Default is blank (none). Disabled if Authentication Type is External.

Field	Description
Authentication Host	Populated with values from the customer_overrides.properties file. If you are using IBM Sterling Secure Proxy for authentication, the settings in Sterling Secure Proxy override the entry here. Disabled if Authentication Type is Local.
Session Timeout (in minutes)	Number of minutes of inactivity before session ends. Default is 15. To change the default, System Administrators can edit customer_overrides.properties to set filegateway_ui.fgOnboardingDefaultSessionTimeoutInMinutes = <new value>
Given Name	A maximum number of 64 characters.
Surname	A maximum number of 64 characters.

#### 6. Specify the partner role:

Field	Description
Partner is a Consumer of Data	<p>Select if the partner receives data from the Router. Then select one of the following:</p> <ul style="list-style-type: none"> <li>• Partner will initiate the connection to consume data.</li> <li>• Partner will listen for a connection to consume data. <ul style="list-style-type: none"> <li>– Listen for FTP Connections</li> <li>– Listen for Connect:Direct Connections</li> <li>– Listen for SSH/SFTP Connections</li> <li>– Listen for WebSphere MQ FTE Connections</li> <li>– Listen for FTPS Connections</li> <li>– (Any custom protocols that have been added by the administrator)</li> </ul> </li> </ul> <p>A partner can be either an initiating consumer or a listening consumer, not both</p>

Field	Description
If you selected: <b>Partner will listen for a connection to consume data. &gt; Listen for FTP Connections</b>	<p>Specify the following fields:</p> <ul style="list-style-type: none"> <li>• FTP Server Host Name (or IP address) (Required)</li> <li>• FTP Listen Port. Default is 21. (Required)</li> <li>• Connection Type - Active or Passive. Default is Active. (Required)</li> <li>• User Name (Required)</li> <li>• Password (Required)</li> <li>• Confirm Password (Required)</li> <li>• Base Directory (Optional) Directory for the data to be transferred to. Optional. Default is home directory after login.</li> <li>• Local Port Range (Optional) Any valid port numbers not being used by another application running on the system. Contact your network administrator if the port numbers are restricted in any way. A port in the specified range using the form <i>&lt;min-port&gt;-&lt;max-port&gt;</i> will be used to establish a control channel to the remote FTP server. For example, 50100-50200.</li> <li>• Local Control Port Range (Optional) Any valid port numbers not being used by another application running on the system. A port in the specified range using the form <i>&lt;min-port&gt;-&lt;max-port&gt;</i> will be used to establish a control channel to the remote FTP server. For example, 50100-50200.</li> <li>• Number of retries. Default is 3. (Required)</li> <li>• Interval between retries (in minutes). Default is 1. (Required)</li> <li>• Upload file under a temporary name first? Yes or No. Default is No. (Required)</li> </ul>

Field	Description
If you selected: <b>Partner will listen for a connection to consume data.</b> > <b>Listen for Connect:Direct Connections</b>	<p>Values in [] are the associated Connect:Direct Server Begin Session or Connect:Direct Copy To services parameters. Specify the following fields:</p> <ul style="list-style-type: none"> <li>• Local Node Name (Required) [LocalCDNodeName] Specifies the name of the local Connect: Direct Server Adapter. List includes all configurations of the Connect:Direct Server Adapter. Required.</li> <li>• Remote Node Name (Required) [RemoteCDNodeName] Specifies the name of a remote Sterling Connect:Direct server node. This name must be same as the name of one of the nodes in the netmap of the adapter identified by LocalCDNodeName. Required.</li> <li>• Local User Id (Optional) [LocalUserId] Overrides the PNodeId (the user executing the BP). Optional.</li> <li>• Remote User Id (Optional) [RemoteUserId] Specifies the UserId to be used on remote Sterling Connect:Direct server node. Required except when: <ol style="list-style-type: none"> <li>1. Remote password not provided in the invoked BP.</li> <li>2. Remote Sterling Connect:Direct server is configured to accept an inbound connection from a designated PNodeName (Specified Connect:Direct Server Adapter name in the invoked BP) and PNodeId (the user executing the BP). If you specify the LocalUserId, it is used in place of PNodeId.</li> </ol> </li> <li>• Remote Password (Optional) [RemotePasswd] Specifies the password to be used on remote Sterling Connect:Direct server node. Optional.</li> <li>• Remote Password Confirm (Optional)</li> <li>• Remote File Name (Optional) [RemoteFileName] Name that should be given to the destination file that is copied to the remote Sterling Connect:Direct server. Required.</li> <li>• Disposition to be applied to remote file (Optional) [RemoteDISP] Specifies how the destination file is to be created on the remote Sterling Connect:Direct server. Optional.</li> <li>• Sysopts string to be applied to remote file (Optional) Sysopts syntax varies by platform and you must use the syntax for the platform that is performing the work. See the <i>IBM Sterling Connect:Direct Process Language Reference Guide</i> for more information.</li> <li>• CheckpointInterval to be used for checkpoint restart (Optional) Specifies the byte interval for checkpoint support, which allows restart of interrupted transmissions at the last valid checkpoint point and therefore reduces the time to retransmit the file. Optional. Valid value is number of bytes, in one of the following formats: <ul style="list-style-type: none"> <li>– nnnnnnnnnnn</li> <li>– nK or nM</li> <li>– nm or nk</li> </ul> </li> </ul> <p>The values supplied for the preceding fields are passed to Sterling Connect:Direct.</p>

Field	Description
If you selected: <b>Partner will listen for a connection to consume data &gt; Listen for SSH/SFTP Connections</b>	Select an SSH Remote Profile on the next page.

Field	Description
If you selected <b>Partner will listen for a connection to consume data &gt; Listen for WebSphere MQ FTE Connections</b>	<p>For more information on each of the parameters below, please see the IBM WebSphere MQ File Transfer Edition Documentation and search for the equivalent WebSphere MQ File Transfer Edition term that is provided. Values in [] are the associated WebSphere MQ File Transfer Edition Create Transfer service parameters. Specify the following fields:</p> <ul style="list-style-type: none"> <li>• Source Agent Adapter [SourceAgentAdapter] - Name of the WebSphere MQ File Transfer Edition Agent Adapter in Sterling B2B Integrator that will act as the source agent in deliveries to this partner. Drop-down list. (Required)</li> <li>• Destination Agent Name [DestAgentName] - Name of destination agent where deliveries to this partner will be sent.</li> <li>• Destination Agent Queue Manager [DestAgentQMgr] - Name of destination agent's queue manager.</li> <li>• Destination Type [DestType] - Defines if delivered file is created as a file, data set or file space object on the destination agent. Valid values are: <ul style="list-style-type: none"> <li>– file</li> <li>– partitioned data set</li> <li>– sequential data set</li> <li>– file space</li> </ul> </li> </ul> <p>Required.</p> <ul style="list-style-type: none"> <li>• Destination Directory, Data Set or File Space (Required) [DestName] - When Destination Type is 'file' this field defines the directory on the destination where the file will be transferred. The file name is determined by the File Gateway Routing Channel Template configuration used for the route. When Destination Type is 'file space', this field defines the user file space on the destination agent where the file will be transferred. The file name is determined by the File Gateway Routing Channel Template configuration used for the route. When Destination Type is 'partitioned data set' or 'sequential data set', this field contains the data set specification. Additionally, the first occurrence of the string \${FileName} will be replaced by the file name determined by the File Gateway Routing Channel Template configuration used for the route.</li> <li>• Destination File Already Exists (Required). [DestFileBehavior] Disposition when a file of the same name already exists at the destination. Valid values are: <ul style="list-style-type: none"> <li>– error (default)</li> <li>– overwrite</li> </ul> </li> <li>• Queue For Transfer Status Reply Messages (Required) [ReplyQueueName] - Name of the queue where reply messages will be placed.</li> <li>• Queue Manager Containing Reply Queue (Required) [ReplyQMgr] - Name of the queue manager for the reply queue.</li> <li>• Priority [Priority] - Priority of transfer as integer Valid values are: <ul style="list-style-type: none"> <li>– 0 (default)</li> <li>– 1</li> <li>– 2</li> <li>– 3</li> <li>– 4</li> <li>– 5</li> </ul> </li> </ul>



Field	Description
	<ul style="list-style-type: none"> <li>Transfer Mode [TransferMode] - Valid values are: <ul style="list-style-type: none"> <li>binary (no conversion) (default)</li> <li>text (automatic conversion)</li> </ul> Required.</li> <li>Checksum Method - Type of checksum calculated on file to ensure integrity of transfer. Valid values are: <ul style="list-style-type: none"> <li>MD5 (default)</li> <li>None</li> </ul> Required.</li> <li>User Defined Metadata Name [MetaData] - Value pairs of metadata values as comma separated list (name1=value1,name2=value2). Optional.</li> <li>User Defined Job Name [JobName] - Job name associated with transfer request. Optional.</li> </ul> <p>If you want to run commands on the non-Sterling B2B Integrator destination, specify:</p> <ul style="list-style-type: none"> <li>Pre-Transfer Command Type [PreDestCommandType]. Valid values are: <ul style="list-style-type: none"> <li>NONE (default) If set to NONE then no command will be run and other Pre-Destination parameters will be ignored.</li> <li>EXECUTABLE</li> <li>ANTSCRIPT</li> <li>JCL</li> </ul> </li> <li>Pre-Transfer Command [PreDestCommand] - Name of command, antscript or JCL job to be run on destination agent before transfer starts.</li> <li>Pre-Transfer Executable Arguments [PreDestArguments] - Arguments passed to command when type is EXECUTABLE. Format is a comma separated list of arguments. Within the list, the first occurrence of the string \${FileName} will be replaced with the delivery file name generated by the routing channel.</li> <li>Pre-Transfer Ant Properties [PreDestProperties] - Properties passed to ant when type is ANTSCRIPT. Comma separated list of name value pairs: name1=value1,name2=value2. Within the list, the first occurrence of the string \${FileName} will be replaced with the delivery file name generated by the routing channel.</li> <li>Pre-Transfer Ant Targets [PreDestTargets] - Name of targets to be run when type is ANTSCRIPT. Comma separated list of targets: target1,target2</li> <li>Pre-Transfer Retry Count [PreDestRetryCount] - The maximum number of retries that the agent permits.</li> <li>Pre-Transfer Retry Wait [PreDestRetryWait] - The maximum wait, in seconds, between retries that the agent permits.</li> <li>Pre-Transfer Successful Return Code [PreDestSuccessRC] - Specifies the return code that indicate the program invocation ran successfully.</li> <li>Post-Transfer Command Type [PostDestCommandType]. Valid values are: <ul style="list-style-type: none"> <li>NONE (default) If set to NONE then no command will be run and other Post-Destination parameters will be ignored.</li> <li>EXECUTABLE</li> </ul> </li> </ul>

Field	Description
	<ul style="list-style-type: none"> <li>• Post-Transfer Executable Arguments [PostDestArguments] - Arguments passed to command when type is EXECUTABLE. Format is a comma separated list of arguments. Within the list, the first occurrence of the string \${FileName} will be replaced with the delivery file name generated by the routing channel.</li> <li>• Post-Transfer Ant Properties [PostDestProperties] - Properties passed to ant when type is ANTSCRIPT. Comma separated list of name value pairs: name1=value,name2=value2. Within the list, the first occurrence of the string \${FileName} will be replaced with the delivery file name generated by the routing channel.</li> <li>• Post-Transfer Ant Targets [PostDestTargets] - Name of targets to be run when type is ANTSCRIPT. Comma separated list of targets: target1,target2</li> <li>• Post-Transfer Retry Count [PostDestRetryCount] - The maximum number of retries that the agent permits.</li> <li>• Post-Transfer Retry Wait [PostDestRetryWait] - The maximum wait, in seconds, between retries that the agent permits.</li> <li>• Post-Transfer Successful Return Code [PostDestSuccessRC] - Specifies the return code that indicate the program invocation ran successfully.</li> </ul>
If you selected: <b>Partner will listen for a connection to consume data. &gt; Listen for FTPS Connections</b>	<p>Specify the following fields:</p> <ul style="list-style-type: none"> <li>• FTP Server Host Name (or IP address) (Required)</li> <li>• FTP Listen Port. Default is 21. (Required)</li> <li>• Connection Type - Active or Passive. Default is Active. (Required)</li> <li>• User Name (Required) <input type="checkbox"/> Password (Required)</li> <li>• Confirm Password (Required)</li> <li>• Base Directory (Optional) Directory for the data to be transferred to. Optional. Default is home directory after login.</li> <li>• Local Port Range (Optional) Any valid port numbers not being used by another application running on the system. Contact your network administrator if the port numbers are restricted in any way. A port in the specified range using the form <i>&lt;min-port&gt;-&lt;max-port&gt;</i> will be used to establish a control channel to the remote FTP server. For example, 50100-50200.</li> <li>• Local Control Port Range (Optional) Any valid port numbers not being used by another application running on the system. A port in the specified range using the form <i>&lt;min-port&gt;-&lt;max-port&gt;</i> will be used to establish a control channel to the remote FTP server. For example, 50100-50200.</li> <li>• Number of retries. Default is 3. (Required)</li> <li>• Interval between retries (in minutes). Default is 1. (Required)</li> <li>• Upload file under a temporary name first? Yes or No. Default is No. (Required)</li> </ul>

Field	Description
If you selected: <b>Partner will listen for a connection to consume data. &gt; (Any custom protocols that have been added by the System Administrator)</b>	Additional fields may be available on the following page, according to the definitions by the System Administrator.
Partner is a Producer of Data	Select if this partner initiates protocol connections and produces data. A partner can be both a consumer and a producer of data.

7. Answer "Will Partner use either SSH/SFTP or SSH/SCP protocol to initiate connections?" Select **Yes** or **No**. Default is No. If Yes, you can specify if Partner will use an Authorized User Key to authenticate.

On the SSH Authorized User Key page, assign a public key by clicking the arrows to a move key from the Available pane to the Assigned pane. Click Next. Optional.

**Note:**

To assign multiple Authorized User Keys to a partner, the system administrator can go to **Tools > B2B Console > User Accounts**, edit the user and supply multiple keys. However, any subsequent edit of that user in the Sterling File Gateway partner wizard will override those changes and replace the multiple Authorized User Keys with the single Authorized User Key seen in the Sterling File Gateway user interface.

If multiple Authorized User Keys are configured (from B2B Console), only one of them will be selected within the AFT edit screen. It will be selected based on database ordering.

8. Answer "Will Partner use an Authorized User Key to authenticate?" Select **Yes** or **No**. Default is No. If Yes, you must provide the Authorized User Key.
9. Confirm the Partner information and save.
10. Close the Communities window, but do not log out.
11. On the Partner page, click **Refresh** below the Partners list. The new Partner is listed.

For each partner, one user account is automatically created and associated with the default user group. For additional users, create the user account in Sterling B2B Integrator, then associate it with the partner identity and the appropriate user group.

By default, Partners are automatically associated with the File Gateway All Partners partner group.

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## Operator help

### Searching for a File

The **Basic Search** page enables you to search for a file based on criteria you select. The **Advanced Search** page provides more options for criteria.

### About this task

You can specify more criteria to narrow your results, or fewer criteria to widen your results. For any field, leave blank to select all values.

## Procedure

1. On the **Search Criteria** tab, enter the basic search criteria. This page is useful for finding files in major categories. To search for more-specific files, select **Advanced Search**. All of the criteria on the Basic Search page are also available on the Advanced Search page, along with many more criteria.
2. For **Producer**, select from the list or type the producer name. Leave this field blank to search for files from all producers.
3. For **Consumer**, select from the list or type the consumer name. Leave this field blank to search for files from all consumers.
4. For **Status**, select one or more from:
  - Started - includes Started, Determining Routes, Pending, and Routing
  - Succeeded - includes Routed (arrived files, routes and deliveries)
  - Failed - includes Failed
  - Ignored - includes IgnoredLeave blank to search for files with any status.
5. For **Protocol** used by the producer to submit the message, select from:
  - FTP
  - SFTP
  - Connect:Direct
  - WMQFTELeave blank to search for files using any protocol.
6. For **Original File Name**, type the full or partial name of the file the producer sent. This field is case-insensitive. File names containing the string will be matched in the search. Leave this field blank to search for all file names.
7. Click **Find** to initiate the search. The Search Results tab opens and the Arrived File pane is displayed with results matching all of your criteria. A maximum of 1000 files (or another limit set by your System Administrator) is displayed. The following information is provided for each arrived file:
  - Reviewed
  - Status
  - Producer
  - Original File Name
  - Discovery Time
8. If more than 1000 files (or another limit set by your System Administrator) match your criteria, a message is displayed indicating that you have more than 1000 matches and need to narrow your search. The first 1000 files are displayed.
9. Sort the results by clicking on any column header. Click again to change from descending order to ascending order. The default sort is by **Discovery Time**, in descending order.
10. To search for a file with more specific criteria, click on **Advanced Search**.
11. Select criteria in the Arrived File section from the following fields:

Field	Description
Producer	The partner who creates and sends files. Select from the list. Type the producer name to obtain unpurged data for producers who have been deleted. Leave blank to search for files from all producers.

Field	Description
Producer Code	The code for the producer. Select from the list. Type the producer code to obtain unpurged data for producers who have been deleted. Leave blank to search for files from all producers.
Producer Group	The group the producer is a member of. Select from the list. Type the producer group to obtain unpurged data for groups that have been deleted. Leave blank to search for files from all groups.
IP Address	If the protocol is EBIC, FTP or SFTP, the host IP address of the producer. For WebSphere MQ File Transfer Edition, the Agent Name. For Sterling Connect:Direct, the Node Name.
User	User ID of the protocol authentication. For WebSphere MQ File Transfer Edition, this is the MQMD User Id associated with the transfer.
Protocol	Select from: <ul style="list-style-type: none"> <li>• FTP</li> <li>• SFTP</li> <li>• Connect:Direct</li> <li>• WMQFTE</li> </ul>
Original File Name	Full or partial name of the file the producer sent. This field is case-insensitive.
File Size (Min) (kilobytes)	Smallest file size to search for.
File Size (Max) (kilobytes)	Largest file size to search for.
Status	Select one or more from: <ul style="list-style-type: none"> <li>• Started - includes Started, Determining Routes, Pending, and Routing</li> <li>• Succeeded - includes Routed (arrived files, routes and deliveries)</li> <li>• Failed - includes Failed</li> <li>• Ignored - includes Ignored</li> </ul> <p>This is the status of the Arrived File.</p>
Reviewed	Select to: <ul style="list-style-type: none"> <li>• Show both reviewed and unreviewed arrived files.</li> <li>• Show only unreviewed arrived files.</li> <li>• Show only reviewed arrived files.</li> </ul> <p><b>Note:</b> Use these options to manage your review process of file transfers.</p>
Message ID	The numeric message ID of the arrived file.
Mailbox Path	Full or partial name for the mailbox directory path of the arrived file. This field is case-insensitive.
Dataflow ID	The numeric dataflow ID for the file.
Date (From)	Click on the calendar icon to select the date to begin the search.

Field	Description
Date (To)	Click on the calendar icon to select the date to end the search.
Time (From)	The arrival hour, in 24-hour format, to begin the search. If the date fields are left blank, the time fields are ignored. If 0 is entered, records for all times are returned.
Time (To)	The arrival hour, in 24-hour format, to end the search. If the date fields are left blank, the time fields are ignored. If 0 is entered, records for all times are returned.

12. Select criteria in the Route section from the following fields:

Field	Description
Consumer	The partner who receives files directly or in a mailbox. Select from the list. Type the consumer name to obtain unpurged data for consumers who have been deleted. Leave blank to search for files from all consumers.
Consumer Code	The code for the consumer. Select from the list. Type the consumer code to obtain unpurged data for consumers who have been deleted. Leave blank to search for files from all consumers.
Consumer Group	The group the consumer is a member of. Select from the list. Type the consumer group to obtain unpurged data for groups that have been deleted. Leave blank to search for files from all groups.
Template Name	Routing Channel Template applied to the file transfer. <b>Note:</b> Finds files that successfully routed based on the template.
Facts	Select from: <ul style="list-style-type: none"> <li>• ConsumerCode</li> <li>• ConsumerFilename</li> <li>• ConsumerName</li> <li>• ConsumerPgpExtension</li> <li>• ProducerCode</li> <li>• ProducerFilename</li> <li>• ProducerName</li> </ul> <b>Note:</b> The list will also include any custom facts defined by the Integration Architect, with a prefix of "my".
Fact Value	Value for the fact selected above. Required when Fact is selected. This field is case-insensitive.

Field	Description
Status	<p>Select one or more from:</p> <ul style="list-style-type: none"> <li>• Started - includes Started, Determining Routes, Pending, and Routing</li> <li>• Succeeded - includes Routed (arrived files, routes and deliveries)</li> <li>• Failed - includes Failed</li> </ul> <p>This is the status of the Route.</p>

13. Select criteria in the Delivery section from the following fields:

Field	Description
IP Address	If the protocol is EBIC, FTP or SFTP, the host IP address for the delivered file. For WebSphere MQ File Transfer Edition, the Agent Name. For Sterling Connect:Direct, the Node Name. Host IP address for the delivered file if the protocol is . Do not use with In Mailbox specified as the protocol.
User	User ID of the protocol authentication. Do not use with In Mailbox specified as the protocol.
Protocol	<p>Delivered file protocol. Select from:</p> <ul style="list-style-type: none"> <li>• FTP</li> <li>• Inbound FTP</li> <li>• Outbound FTP</li> <li>• SFTP</li> <li>• Inbound SFTP</li> <li>• Outbound SFTP</li> <li>• Connect:Direct</li> <li>• Inbound Connect:Direct</li> <li>• Outbound Connect:Direct</li> <li>• WMQFTE</li> <li>• In Mailbox (for files that have not been retrieved)</li> </ul>
Delivered File Status	<p>Select one or more from:</p> <ul style="list-style-type: none"> <li>• Started - includes Transforming, Delivering, and Redelivery</li> <li>• Succeeded - includes Complete</li> <li>• Failed - includes Failed</li> </ul> <p>This is the status of the delivered file.</p>
Delivered File Name	Full or partial name of the delivered file. This field is case-insensitive.
File Size (Min) (kilobytes)	Smallest file size to search for.
File Size (Max) (kilobytes)	Largest file size to search for.
Message ID	The numeric message ID of the delivered file.

Field	Description
Mailbox Path	Full or partial name for the mailbox directory path of the delivered file. This field is case-insensitive.
Date (From)	Click on the calendar icon to select the date to begin the search.
Date (To)	Click on the calendar icon to select the date to end the search.
Time (From)	The delivery hour, in 24-hour format, to begin the search. If the date fields are left blank, the time fields are ignored. If 0 is entered, records for all times are returned.
Time (To)	The delivery hour, in 24-hour format, to end the search. If the date fields are left blank, the time fields are ignored. If 0 is entered, records for all times are returned.

**Note:** Searches using the characters \_ and % (underscore and percent) may produce more results than expected, because these characters are interpreted as wildcards. Specify more characters to narrow your search, or visually search for the matches within the returned results.

## Results

### Search results

In the search results for arrived files, the Producer Name is listed, if available. If Producer Name is not available, the Producer Code is listed in italics.

In the search results for routes, the Consumer Name is listed, if available. If Consumer Name is not available, the Consumer Code is listed in italics.

## Troubleshoot and Resolve Issues after a System Failure

After a system failure, producer messages which did not get deleted from the producer mailbox need to be resolved.

### About this task

Perform the following steps to resolve producer messages which did not get deleted from the producer mailbox after a system failure. A system administrator can resolve some cases without producer partner involvement, starting with step 1. Otherwise, producer partners start at step 2.

### Procedure

1. As system administrator, find out if the message got routed.
  - a. Select **Tools > B2B Console**.
  - b. Find the Message ID of the files from **Deployment > Mailboxes > Messages**.
  - c. Search in Sterling File Gateway using advanced search by Message ID.
  - d. If you find a result for the Message ID, the message status should be Failed. Replay the Arrived File. This enables you to resolve the issue without producer partner involvement.



- e. If you did not find a result for the Message ID, contact the producer partner and have the producer partner rename the file, with the instructions in Step 3.
2. As the producer partner, determine if the message got routed.
  - a. Log in to your producer mailbox and note of the name of the message.
  - b. In myFileGateway, search for activity by Original File Name.
  - c. If you find a result for the Original File Name, it should have a status of Failed. Replay the arrived file.
  - d. If you did not find a result for the Original File Name, go to step 3 and rename the file.
3. As the producer partner, rename the message. Renaming causes the message to be routed.
  - a. Log in as the producer partner user that added the file to Sterling File Gateway.
  - b. Navigate to the mailbox directory that contains your message.
  - c. Rename the message using the exact same file name. The rename command varies for different protocols and clients. For example, the command line in FTP and SFTP is the following:  

```
rename filename filename
```

## Determining status of files after a system failure

After a system failure of Sterling File Gateway, some files may not have been routed, and you need to confirm the status.

### About this task

When a failover occurs, files may be in the following status:

- Routed
- Failed
- Routing
- Determining Routes

The producer files may have been processed, but may or may not be in mailboxes. To identify the status of files:

### Procedure

1. Select **Tools > B2B Console**.
2. Select **Business Processes > Monitor > Advanced Search > Business Processes**.
3. On the right side, under the section **Search Using Business Processes**, select **System Business Processes > FileGatewayMailboxRoute**.
4. Select **State > ALL**.
5. Select **Status > Error**.
6. Select **Start Date** From and To for the time of interest and click **Go**.
7. The result is a list of the failed business processes. Click the ID of each failed business process to obtain the details of the business process.
8. Navigate through the pages to get the details of the failed service.
9. Click the info link under the Instance Data column for the failed service to obtain the instance data screen.

10. In the instance data screen, the current message indicates the iteration number in the MessageId list above it. Count the iteration number from the message list. This is the Message Id which you will use to determine the file.
11. Select **Deployment > Mailboxes > Messages** and enter the Message Id value obtained in the previous step and click **Go**.
12. This returns the message name (the file) associated with the Message Id. Call the producer partner who sent this file and ask them to re-send the file.

**Note:** Ensure that all the messages which follow the failed message have been correctly recovered. Check their status and recover as necessary.

## filegateway\_eventcodes.properties

The filegateway\_eventcodes.properties file contains properties that control the operation of event codes in Sterling File Gateway. The Name property has been modified and a new property, DisplayName has been added to the file.

The property modifications and additions include:

- Name - This is the name of the event. Required. Example:  
XX\_0050.name=:MyCustomEventFailure
- DisplayName - Displayed in the subscription UI (Profile > Notifications).  
Example: XX\_0050.displayName=:My Custom Event Failure

## Interpreting Delivery Status for WebSphere MQ File Transfer Edition

Sterling File Gateway sends a message to WebSphere MQ File Transfer Edition, and then some time later, WebSphere MQ File Transfer Edition sends a reply message saying that the transfer is either complete or failed.

### About this task

The file transfer occurs when the source and the destination agents are both available, asynchronously from the request issued by Sterling File Gateway.

The delivery status is updated in Sterling File Gateway based on reply messages received asynchronously from WebSphere MQ File Transfer Edition network. During the time between Sterling File Gateway sending the message and the reply from WebSphere MQ File Transfer Edition, the transfer status is:

- On the Arrived File tab - Routing
- On the Route tab - Delivering
- On the Delivery tab - Pending

See *Manually changing delivery status* if you have files that remain in Pending status indefinitely.

## Generating Reports

Several standard reports are defined in Sterling File Gateway.

### Procedure

1. From the main menu, select **Tools > Reports**.
2. Select the information you would like the report to contain. Leave any field blank to select all possible values. Options are:

Field	Description
Producer	Select a producer for the arrived files to report on. Do not use if Producer Group is specified.
Producer Group	Select a producer group for the arrived files to report on. Do not use if Producer is specified.
Consumer	Select a consumer for the arrived files to report on. Do not use if Consumer Group is specified.
Consumer Group	Select a consumer group for the arrived files to report on. Do not use if Consumer is specified.
Status	Select one or more from: <ul style="list-style-type: none"> <li>• Started - includes Started, Determining Delivery, and Delivering</li> <li>• Succeeded - includes Complete</li> <li>• Failed - includes Failed</li> <li>• Ignored - includes Ignored</li> </ul>
Date (From)	Click on the calendar icon to select a starting date.
Date (To)	Click on the calendar icon to select an ending date.
Time (From)	Specify a time in the format hh:mm:ss. <b>Note:</b> Query in server time. Report results will be in server time, regardless of the header label.
Time (To)	Specify a time in the format hh:mm:ss. <b>Note:</b> Query in server time. Report results will be in server time, regardless of the header label.
Group By	Select from: <ul style="list-style-type: none"> <li>• Producer</li> <li>• Consumer</li> </ul>
Format	Select from: <ul style="list-style-type: none"> <li>• HTML</li> <li>• PDF</li> <li>• XLS</li> </ul>
Report Type	Select from: <ul style="list-style-type: none"> <li>• Detailed - includes a Producer ID (assigned by the system), Consumer, Discovery Time, Completion Time, Status, Original File Name, and File Size</li> <li>• Summary - includes Total File Size and Total Count by Success, Error, In Progress, and Failure Reviewed</li> </ul> <p><b>Note:</b> Error count is the number in Failed status that have not been reviewed.</p>

Field	Description
Sort By	Click and drag the following fields into the desired order for sorting: <ul style="list-style-type: none"> <li>• Status</li> <li>• File Name</li> <li>• File Size</li> </ul>

### 3. Select Generate Report.

**Note:** For reports with Asian characters, download and install the special Acrobat Reader Asian font packs from [www.adobe.com](http://www.adobe.com). Text for reports is generated with iText using CJK fonts. If the Asian font packs are not installed, Acrobat Reader may ask you to install when you open a PDF file containing CJK fonts.

Depending on your selections, the report has the following contents:

Field	Definition
Created On	Date and time report was requested
Created By	User ID that requested the report
Group By	How the data is grouped
Report Config	Selections made for report
Filters	How the data is ordered
Producer ID	ID assigned by the system for the producer that created and sent the file
Consumer	Partner that received the file. The Consumer Name is listed, if available. If Consumer Name is not available, the Consumer Code is listed, delineated by <>.
Discovery Time	Time file first entered system, in the server time zone, regardless of the header label
Completion Time	Time file transfer was completed, in the server time zone, regardless of the header label
Status	Status when report was generated
Original File Name	Name given to the file by the producer
File Size	Size of the transferred file
Summary <ul style="list-style-type: none"> <li>• Producer</li> <li>• Total File Size</li> <li>• Total Count</li> <li>• Success</li> <li>• Error</li> <li>• In Progress</li> <li>• Failure Reviewed</li> </ul>	For each producer, the total file size transferred in the report period, total count of files transferred in the report period, and a count for each status category. The Producer Name is listed, if available. If Producer Name is not available, the Producer Code is listed, delineated by <>. <p><b>Note:</b> Error count is the number in Failed status that have not been reviewed.</p>

**Note:** By default, reports only include the first 1000 activity records that match the specified criteria. Your System Administrator may set another value for the number of records to be included in reports. (See System Administrator > Install and Set Up > `filegateway_ui.properties`.)

**Note:** Sterling File Gateway users with Microsoft Internet Explorer 7 may not be able to open more than one PDF type report at a time due to Internet Explorer 7 content blocking security. Close the original report window or adjust Internet Explorer 7 browser setting or configure Adobe Reader to not open in a browser (and instead open in an Adobe window).

In Internet Explorer 7, select **Internet Options > Security (tab) > Custom level > Downloads > Automatic prompting for file downloads > Enabled**.

In Adobe Reader, select **Preferences > Display PDF in browser > disabled**.

## Manually Changing Delivery Status

If files remain in Pending status indefinitely, you can manually change the delivery status.

### About this task

During the time between Sterling File Gateway sending the message and the reply from WebSphere MQ File Transfer Edition, the transfer status is: "Pending." If there are communication problems between Sterling File Gateway and WebSphere MQ File Transfer Edition, files can remain in Pending status indefinitely. To resolve files remaining in Pending status:

### Procedure

1. On the Basic Search or Advanced Search page, select Started as the status. Specify other criteria to narrow your results. For example, you may want to specify transfers more than three days ago. Click Find.
2. Select a file in Routing status in the Arrived File list.
3. Click on the Delivery tab.
4. In the Status column, right click on Pending. Select:
  - Mark as Complete
  - Mark as Failed

Enter a comment (optional).

**Restriction:** You cannot redeliver a pending delivery.

## Set the Language for Notifications Sent by email

With Sterling File Gateway 2.2.3 and above you can modify your Profile to receive notifications in one of the supported languages listed in the About this task section. When an event that you subscribe to occurs, the notification is sent to you in the language of your choice. When you log in, the browser language setting and the Profile language setting are compared. If they do not match you are prompted to change the language for notifications.

### About this task

The supported languages are:

- English
- German
- Simplified Chinese
- Traditional Chinese
- French

- Spanish
- Italian
- Portuguese-Brazil
- Japanese
- Korean

### Procedure

1. Select Profile from the main menu.
2. Select the notifications tab.
3. Select the language you want to use from the Language for notifications drop-down list.
4. Select the Save Language button.

---

## myFileGateway

### Add Custom Tabs to *myFileGateway*

System Administrators can create new tabs for additional functionality in *myFileGateway*. This sample is meant to serve as a starting point for the creation of your own custom tabs. Please do not make your changes directly in the <install>/samples directory, as these may be overwritten in a future patch. Instead, you may maintain the WAR file in a directory entirely separate from the <install> directory, as long as the HTTP Server Adapter is configured to find it.

### About this task

With this change, every HTTP Server Adapter that hosts myfilegateway.war will also have to host sampletab.war. In particular, visiting `http://<host>:<baseport>/myfilegateway` will fail unless sampletab.war is copied to <install>/noapp/deploy. If this condition hasn't been met, a request to /myfilegateway will fail to load the login page. Use the browser to visit `http://<host>:<baseport>/sampletab/welcomepage.js` and verify that the content of that file is shown.

One example of a custom tab you can add to *myFileGateway* is a Welcome Tab, which is supplied as a sample in the install. When creating a custom permission like the one in this example, make sure its "Permission Type" is "File Gateway". You can use these assets, which ship with the sample, as the basis for your own implementation:

- <install>/samples/filegateway/sample\_myfg\_tab/sampletab.war
- <install>/samples/filegateway/sample\_myfg\_tab/sampletab\_imports.xml.in

This procedure describes how to create a new Welcome Tab in *myFileGateway*.

### Procedure

1. Modify the <install>/properties/customer\_overrides.properties and add this line:  
`filegateway_ui.myfilegateway.extension_js_file_1=/sampletab/welcomepage.js`
2. Create a permission named "Custom myFileGateway Sample Tab" with the ID "CUSTOM\_MYFG\_WELCOME" and an HTTP Server Adapter instance named "myFileGatewayWithSampleTab" by selecting Tools > B2B Console > Deployment > Resources Manager > Import/Export and importing the file:  
`<install>/samples/filegateway/sample_myfg_tab/sampletab_imports.xml`

The password for the import file is "password" without the quotes. Import all three assets within the import file.

3. Modify the HTTP Server Adapter Instance by selecting **Tools > B2B Console > Services Configuration** and finding the HTTP Server Adapter that you created in the previous step. Make these modifications:
  - a. On the first page, set the Group to None.
  - b. On the second page, change the port to one that doesn't conflict with any other port on the instance.
  - c. Enable the adapter instance by clicking the "Enable Service for Business Processes" box on the confirmation page.
4. Select **Tools > B2B Console > Accounts > Groups** and verify that the "File Gateway Partner Users" group includes the permission named "Custom myFileGateway Sample Tab". Custom permissions relating to the custom tabs must be of the "File Gateway" type.
5. Restart the server:
  - a. `<install_dir>/bin/hardstop.sh`
  - b. `<install_dir>/bin/run.sh`
6. Login to *myFileGateway* using the port specified in Step 3 to verify that the new tab named "Custom Welcome Page" is visible. The custom tab web application may need to know the name of the user that is logged into *myFileGateway*. You can determine this by retrieving the HTTP Session attributes "dlssoAuthenticated" and "autho". If the visitor to the custom tab web application authenticated to myFileGateway, the value of the "dlssoAuthenticated" attribute will be the string "true" and the value of the "autho" attribute will be the name of the logged in user as a string.

## Searching for File Activity in *myFileGateway*

Search for file activity to view details about the events that occurred during routing.

### About this task

You can only view the activity of files you are the producer or consumer for. The events you can view for the file depend on whether you are the producer or the consumer, and will typically differ from the events that an administrative use can view.

### Procedure

1. On the **Search Criteria** tab, enter the basic search criteria.
2. For **Producer**, indicate if you want to search for activity related to files sent to you by a specific producer.
3. For **Consumer**, indicate if you want to search for activity related to files you sent to a specific consumer.
4. For **Status**, select one or more from Started (includes Pending), Succeeded, Failed, or Ignored. Leave blank to search for routes with any status.
5. For **Protocol**, select from: FTP, SFTP, Connect:Direct, WMQFTE (WebSphere MQ File Transfer Edition), EBICS. Leave this field blank to search for routes using any protocol.
6. For **Original File Name**, type the full or a portion of the file name of the file before processing. This is the name of the file when it entered Sterling File

Gateway. This field is case-sensitive. Only those files containing the string you enter will be matched in the search. Leave this field blank to search for all file names.

7. Click **Find** to initiate the search. The **Search Results** tab opens and the **Arrived File** pane is displayed with results matching all of your criteria. A maximum of 1000 files is displayed. The following information is provided by default for each arrived file:

- Status
- Producer Name, if available, or Producer Code, delineated by <>
- File Name
- Discovery Time

To see additional information about the arrived file, right-click on one of the column headings to select the columns that are displayed. Options are: Reviewed, ID, Status, Producer, Mailbox Path, Original File Name, Discovery Time, and File Size.

8. If more than 1000 files match your criteria (or a different number set by your system administrator), a message is displayed indicating that you have more than 1000 matches and need to narrow your search.
9. Sort the results by clicking on any column header. Click the column header again to change from descending order to ascending order. The default sort is by discovery time, in descending order.
10. Right-click on a column and select fields to turn columns off or on to focus on the details you are interested in.

## Generating Reports in *myFileGateway*

### Procedure

1. In *myFileGateway*, click on the **Reports** tab.
2. Select the information you would like the report to contain. Leave any field blank to select all possible values. Options are:

Field	Description
Producer	Indicate if you were the producer on activity to include in the report.
Consumer	Indicate if you were the consumer on activity to include in the report.
Status	Select one or more from: <ul style="list-style-type: none"> <li>• Started - includes Determining Delivery and Delivering</li> <li>• Succeeded - includes Complete</li> <li>• Failed - includes Failed</li> <li>• Ignored - includes Ignored</li> </ul>
Date (From)	Click on the calendar icon to select a starting date.
Date (To)	Click on the calendar icon to select an ending date.
Time (From)	Specify a time in the format hh:mm:ss. <b>Note:</b> Query in server time. Report results will be in server time, regardless of the header label.



Field	Description
Time (To)	Specify a time in the format hh:mm:ss. <b>Note:</b> Query in server time. Report results will be in server time, regardless of the header label.
Group By	Select from: <ul style="list-style-type: none"> <li>• Producer</li> <li>• Consumer</li> </ul>
Format	Select from: <ul style="list-style-type: none"> <li>• HTML</li> <li>• PDF</li> <li>• XLS</li> </ul>
Report Type	Select from: <ul style="list-style-type: none"> <li>• Detailed - includes a Producer ID (assigned by the system), Consumer, Discovery Time, Completion Time, Status, Original File Name, and File Size</li> <li>• Summary - includes Total File Size and Total Count by Success, Error, In Progress, and Failure Reviewed</li> </ul> <b>Note:</b> Error count is the number in Failed status that have not been reviewed.
Sort By	Select from: <ul style="list-style-type: none"> <li>• Status</li> <li>• File Name</li> <li>• File Size</li> </ul>

### 3. Select Generate Report.

**Note:** For reports with Asian characters, download and install the special Acrobat Reader Asian font packs from [www.adobe.com](http://www.adobe.com). Text for reports is generated with iText using CJK fonts. If the Asian font packs are not installed, Acrobat Reader may ask you to install when you open a PDF file containing CJK fonts.

Depending on your selections, the report has the following contents:

Field	Definition
Created On	Date and time report was requested
Created By	User ID that requested the report
Group By	How the data is grouped
Report Config	Selections made for report
Filters	How the data is ordered
Producer ID	User ID that created and sent the file
Consumer	Partner that received the file. The Consumer Name is listed, if available. If Consumer Name is not available, the Consumer Code is listed, delineated by <>.
Discovery Time	Time file first entered system, in the server time zone, regardless of the header label

Field	Definition
Completion Time	Time file transfer was completed, in the server time zone, regardless of the header label
Status	Status when report was generated
Original File Name	Name given to the file by the producer
File Size	Size of the transferred file
Summary <ul style="list-style-type: none"> <li>• Producer</li> <li>• Total File Size</li> <li>• Total Count</li> <li>• Success</li> <li>• Error</li> <li>• In Progress</li> <li>• Failure Reviewed</li> </ul>	For each producer, the total file size transferred in the report period, total count of files transferred in the report period, and a count for each status category. The Producer Name is listed, if available. If Producer Name is not available, the Producer Code is listed, delineated by <>. <p><b>Note:</b> Error count is the number in Failed status that have not been reviewed.</p>

**Note:** By default, reports only include the first 1000 activity records that match the specified criteria. Your System Administrator may set another value for the number of records to be included in reports.

## Set myFilegateway Language Notifications

With Sterling File Gateway 2.2.3 and above you can modify your Profile to receive notifications in one of the supported languages listed in the About this task section. When an event that you subscribe to occurs, the notification is sent to you in the language of your choice. When you log in, the browser language setting and the Profile language setting are compared. If they do not match you are prompted to change the language for notifications.

### About this task

The supported languages are:

- English
- German
- Simplified Chinese
- Traditional Chinese
- French
- Spanish
- Italian
- Portuguese-Brazil
- Japanese
- Korean

### Procedure

1. Select Profile from the main menu.
2. Select the notifications tab.
3. Select the language you want to use from the Language for notifications drop-down list.
4. Select the Save Language button.

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