

Operator

Version 2.2



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Note efore using this information and the product it supports, read the information in "Notices" on page 29.					

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Operator help

There are Operator help tasks you can perform to ensure IBM® Sterling File Gateway performs according to your business needs.

System status

Viewing file activity

You can view activity status information for the last hour, day, and week.

Procedure

- 1. From the main menu, select Tools > Activity Snapshot.
- 2. A new window opens. While this window is open, you cannot perform other actions in Sterling File Gateway. Clicking on any of the numbers on the screen opens the Arrived File search results page.

Note: The system will not time out while the Activity Snapshot is running. You should not leave it unattended.

Metrics for the following activities are displayed for the last day, hour, or week:

- Total Arrived Files Arrived Files are the files that arrive from a producer. This is the total number of arrived files that completed in the specified time period. These are Producer files. For example, a Zip file containing 532 files only counts as one file. Click on this number to display a list of this set of arrived files. If new activity occurs between the snapshot display and the click, the list includes the new arrived files.
- Total Payloads Payloads are either the arrived files (if non-container type) or files found inside a container type. This is the number of payloads found within completed arrived files. Click on this number to display a list of this set of arrived files they originated from.
- **Unidentified Files** This is the number of arrived files that failed because no routing channel could be identified for any of their payloads.
- Successfully Routed This is the number of payloads that were successfully routed. Click on this number to display a list of arrived files they originated from.
- New Failures This is the number of payloads that failed to route for any reason other than total route identification failure. Excludes reviewed failures. Click on this number to display a list of arrived files they originated from.
- Reviewed Failures This is the number of payloads that failed to route for any reason other than total route identification failure. Includes only reviewed failures. Click on this number to display a list of arrived files they originated from.
- 3. Click on **Total in-flight** to see a list of files currently being processed. These are arrived producer files that have not yet moved to a completed state.
- 4. Click on an item in the returned list to request the details about a route.
- 5. To view details, close the **Activity Snapshot** window.

Searching for a file

You can search for files in your mailbox by using parameters in the Basic Search and Advanced Search pages.

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.

To search for a file:

Procedure

- 1. On the Search Criteria tab, enter the basic search parameters. The Basic Search page is useful to find files in major categories. To search for more-specific files, use the Advanced Search page. The Basic Search parameters are also available on the Advanced Search page, along with more parameters.
- 2. (V2.2.6 or later) Select the appropriate **Mailbox Type**. You can search for a file in the distributed mailbox, a traditional mailbox, or both, . A distributed mailbox is available in the Global Mailbox realm.
- 3. Select the **Producer** from the list or type the producer name. Leave this field blank to search for files from all producers.
- 4. Select the **Consumer** from the list or type the consumer name. Leave this field blank to search for files from all consumers.
- 5. (V2.2.6 or later) Type the **Original File Name** to search for a file that is based on the name of the file that is created by the producer.
- 6. Select the appropriate **Status**. The available options are as follows:

Started

Includes files for which routing is started, files for which Sterling File Gateway is determining routes, files for which routing is pending, and files, which are being routed

Succeeded

Includes routed files (arrived files, routes, and deliveries)

Failed Includes failed files

(V2.2.6 or later) Ignored

Includes ignored files

Leave blank to search for files with any status.

- 7. Select the **Protocol** used by the producer to submit the message. The available options are as follows:
 - FTP
 - SFTP
 - Connect:Direct
 - (V2.2.6 or later) WMQFTE
 - (V2.2.6 or later) EBICS

Important: The Protocol option is enabled only if you select Traditional mailboxes only for Mailbox Type.

Restriction: When distributed mailboxes are searched, only mailboxes on the local node are searched. Messages in distributed mailboxes in other data centers are not searched.

- 8. (V2.2.0 2.2.5) 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.
- 9. (V2.2.6 or later) Specify appropriate time and date values.
- 10. Click Find to initiate the search. The Search Results tab opens and the Arrived File pane is displayed with results that match the criteria that you specified. 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
 - (V2.2.0 2.2.5) File Name
 - (V2.2.6 or later) Original file name
 - · Discovery Time

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.

- 11. Sort the results by clicking any column header. Click again to change from descending order to ascending order. The default sort is Discovery Time, in descending order.
- 12. To search for a file with more specific criteria, click **Advanced Search**.
- 13. Select appropriate parameters in the Arrived File section:

Mailbox Type

Select from the following values:

- Traditional mailboxes only the traditional Sterling B2B Integrator mailbox
- Distributed mailboxes only available in the Global Mailbox realm
- Both traditional and distributed mailboxes

Producer

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

Producer Code

The code for the producer. Select from the list. Type the producer code to obtain unpurged data for producers who are 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 are deleted. Leave blank to search for files from all groups.

(V2.2.0 - 2.2.5) IP Address

The host IP address of the producer.

User User ID of the protocol authentication.

(V2.2.6 or later) For WebSphere® MQ File Transfer Edition, the user ID is the MQMD User ID that is associated with the transfer.

((V2.2.6 or later) The **User** field is disabled if you select one of the following options for **Mailbox Type** list or leave it blank:

- · Distributed mailboxes only
- · Both traditional and distributed mailboxes

Protocol

Select from:

- FTP
- SFTP
- Connect:Direct
- (V2.2.6 or later) WMQFTE
- (V2.2.6 or later) EBICS

(V2.2.6 or later) The **Protocol** option is disabled if you select one of the following options for **Mailbox Type** list or leave it blank:

- Distributed mailboxes only
- · Both traditional and distributed mailboxes

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 the appropriate status:

- **Started** includes Started, Determining Routes, Pending, and Routing
- Succeeded includes Routed (arrived files, routes, and deliveries)
- Failed includes Failed
- (V2.2.6 or later) **Ignored** includes Ignored

Reviewed

Select the required option:

- · Show both reviewed and unreviewed arrived files
- · Show only unreviewed arrived files
- · Show only reviewed arrived files

Tip: Use these options to manage your review process of file transfers.

(V2.2.0 - 2.2.5) Message ID

The unique message ID of the arrived file.

(V2.2.6 or later) Mailbox Message ID

The unique 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.

(V2.2.6 or later) The Dataflow ID field is disabled if you select one of the following options for **Mailbox Type** list or leave it blank:

- · Distributed mailboxes only
- Both traditional and distributed mailboxes

Date (From)

Click the calendar icon to select the date to begin the search.

Date (To)

Click 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 remain blank, the time fields are ignored. If 0 is entered, record for all times are returned.

Time (To)

The arrival hour, in 24-hour format, to end the search. If the date fields remain blank, the time fields are ignored. If 0 is entered, record for all times are returned.

14. Select appropriate parameters in the Route section:

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 are 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 are 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 are deleted. Leave blank to search for files from all groups.

Template Name

Routing Channel Template applied to the file transfer. Finds files that successfully routed based on the template.

Facts Select from:

- ConsumerCode
- ConsumerFilename
- ConsumerName
- ConsumerPgpExtension
- ProducerCode
- ProducerFilename
- ProducerName

Tip: The list also includes any custom facts that are defined by the Integration Architect, with a prefix of "my".

Fact Value

Value for the previously selected fact. Required when **Facts** is selected. This field is case-insensitive.

Status Select the appropriate status:

- **Started** includes Started, Determining Routes, Pending, and Routing
- Succeeded includes Routed (arrived files, routes, and deliveries)
- Failed includes Failed
- 15. Select appropriate parameters in the Delivery section:

(V2.2.0 - 2.2.5) IP Address

Host IP address for the delivered file. 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.

(V2.2.6 or later) The **User** field is disabled if you select one of the following options for **Mailbox Type** list or leave it blank:

- · Distributed mailboxes only
- · Both traditional and distributed mailboxes

Protocol

Delivered file protocol. Select from:

- FTP
- · Inbound FTP
- Outbound FTP
- SFTP
- Inbound SFTP
- Outbound SFTP
- Connect:Direct
- · Inbound Connect:Direct
- Outbound Connect:Direct
- (V2.2.6 or later) WMQFTE
- · In Mailbox (for files that are not retrieved)
- (V2.2.6 or later) EBICS

(V2.2.6 or later) The **Protocol** option is disabled if you select one of the following options for **Mailbox Type** list or leave it blank:

- · Distributed mailboxes only
- · Both traditional and distributed mailboxes

Delivered File Status

Select the appropriate status:

- Started includes Transforming, Delivering, and Redelivery
- Succeeded includes Complete
- Failed includes Failed

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.

(V2.2.6 or later) The File Size (Min) field is disabled if you select one of the following options for Mailbox Type list or leave it blank:

- · Distributed mailboxes only
- Both traditional and distributed mailboxes

File Size (Max) (kilobytes)

Largest file size to search for.

(V2.2.6 or later) The File Size (Max) field is disabled if you select one of the following options for Mailbox Type list or leave it blank:

- Distributed mailboxes only
- Both traditional and distributed mailboxes

(V2.2.0 - 2.2.5) Message ID

The unique message ID of the delivered file.

(V2.2.6 or later) Mailbox Message ID

The unique message ID of the delivered file.

Mailbox Path

Full or partial name for the mailbox directory path of the delivered file. This field is case-insensitive.

Date (From)

Click the calendar icon to select the date to begin the search.

Date (To)

Click 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 remain 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 remain blank, the time fields are ignored. If 0 is entered, records for all times are returned.

Restriction: Searches using the characters _ and % (underscore and percent) might produce more results than expected, because these characters are interpreted as wild cards. 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.

Viewing route information

The Search Results tab provides the Arrived Files that meet the criteria specified for your search.

About this task

To view the detailed route information:

Procedure

- 1. Sort the results by clicking on the header of any column. Click again to change from ascending to descending order.
- 2. Under Arrived Files, click in the row of the file you are interested in. Arrived file events are displayed in the right pane, with the time and description. Select the hyperlinks within the description to view more information about any event. Error events are displayed in red.
- 3. Click in the row of an event you are interested in to get details about the event.
- 4. To view routing channel template details, select the routing channel, right-click, select View associated template.

Note: If the template has been edited or deleted after the route executed, the details are no longer available. A message is displayed:

- The instance of the template you are trying to view is no longer available.
- 5. Sort the results by clicking on the header of any column. Click again to change from ascending to descending order.

Marking activity as reviewed

On the search results page, Operators can use the reviewed checkbox to track when arrived files are reviewed.

About this task

To mark activity as reviewed:

Procedure

- 1. On the Search Results page for Arrived Files, right-click in the reviewed checkbox on the row of the file you want to mark as reviewed and select **Mark** as reviewed. Shift-click to select multiple files to mark at once.
- To remove the reviewed check mark, right-click again and select Mark as not reviewed.

Activity history for deleted objects

After a partner, group, routing channel, or routing channel template is deleted, you can still access the history of the activities, if the activity has not been purged.

To view the history, type the value for the deleted object in the appropriate search field and click Find. Results displayed include activity for the deleted partner.

Generating reports

You can generate reports to get lists of transactions that match the criteria you specify. From the reports, you can learn the number and size of file transfers by producer or consumer, and the number of failed, successful, and in progress transfers.

About this task

To generate reports:

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:

Mailbox Type (V2.2.6 or later)

Select from the following values:

- Traditional mailboxes only the traditional Sterling B2B Integrator mailbox
- Distributed mailboxes only available in the Global Mailbox realm
- · Both traditional and distributed mailboxes

Restriction: When you select distributed mailboxes that exist in multiple data centers, the report displays only data of the local data center where the report is generated.

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:

- Started includes Started, Determining Delivery, and Delivering
- Succeeded includes Complete
- Failed includes Failed
- · Ignored includes Ignored

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*.

Remember: Query in server time. Report results are in server time, regardless of the header label.

Time (To)

Specify a time in the format *hh:mm:ss*.

Remember: Query in server time. Report results are in server time, regardless of the header label.

Group By

Select from:

Producer

Consumer

Format

Select from:

- HTML
- PDF
- XLS

Report Type

Select from:

- Detailed includes a Producer ID (assigned by the system),
 Consumer, Discovery Time, Completion Time, Status, Original File
 Name, and File Size
- Summary includes Total File Size and Total Count by Success, Error, In Progress, and Failure Reviewed

Tip: Error count is the number in Failed status that have not been reviewed.

Sort By

Click and drag the following fields into the desired order for sorting:

- Status
- · File Name
- · File Size

3. Select Generate Report.

Restriction: For reports with Asian characters, download and install the special Acrobat Reader Asian font packs from www.adobe.com. Text for reports is generated with iText using CJK fonts. If the Asian font packs are not installed, Acrobat Reader might ask you to install when you open a PDF file containing CJK fonts.

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

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

- Producer
- · Total File Size
- · Total Count
- Success
- Error
- In Progress
- · Failure Reviewed

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 \Leftrightarrow .

Tip: Error count is the number in Failed status that have not been reviewed.

Restriction: 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.)

Tip: 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**.

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
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.

Event Code	Name	Description	Default Subscription Settings
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 user manually changes the state of a delivery.	Operators, producers, and consumers
FG_427	ManualStateChange	When a producer message is invalid or cannot be found	Operators, producers
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	ProducerMailboxRouteCandidatesFou	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.

Event Code	Name	Description	Default Subscription Settings
FG_0504	Route	When one or more routes are chosen from the candidates.	Only in activity details.
FG_0505	RoutesFound	The number of routes that will be executed.	Only in activity details.
FG_0506	Route Candidate Does Not Match	When a routing channel template contains no matching producer file structure for an arrived file.	Only in activity details.
FG_0550	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

Event Code	Name	Description	Default Subscription Settings
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
FG_0707	AsyncTransferRequestAcknowledged	When an asynchronous transfer request has been acknowledged as received.	Operators, producers, and consumers
FG_0710	DeliveredDistributedMailboxMessage	When a message is delivered to a distributed mailbox	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

filegateway_eventcodes.properties

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

There are multiple properties in the filegateway_eventcodes.properties file for each event, in the format:

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

where:

- <PROPERTY_NAME>is the parameter being defined for the particular event
- <REPLACEABLE_TEXT> is the value of the parameter for the particular event
- and the values used by Sterling File Gateway for <EVENT_CODE> and <EVENT_CATEGORY> are:

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

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

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

The following information is provided for each event:

Property	Description	Example
Name (V2.2.0 - 2.2.5)	Name of the event. Displayed in the subscription UI (Profile > Notifications). Required.	XX_0050.name=MyCustomEventFailure
Name (V2.2.6 or later)	Name of the event. Required. No space.	XX_0050.name=MyCustomEventFailure
DisplayName (V2.2.6 or later)	Displayed in the subscription UI (Profile > Notifications).	XX_0050.displayName=MyCustomEventFailure
Attributes	Comma delimited list of named attributes to the event. Used in the text field and must correspond to the order listed in the text field. For example, UserId attribute corresponds to {0} below. All attributes need not appear in the text field. Required, but can be empty.	XX_0050.attributes=UserId,ErrorMessage
Text	Event description displayed in the route activity UI for a specific occurrence of this event. Required.	XX_0050.text=User {0} encountered failure {1}
Description	A generic event description that does not use attributes. Displayed in the subscription UI (Profile > Notifications). Required.	XX_0050.description=When a user encounters this custom event failure
Permissions	Comma delimited list that indicates who can be notified and who can view this event. Possible values are: • subscription - available for subscription to notifications • producer - producers can see in events list and receive notifications • consumer - consumers can see in events list and receive notifications Optional.	XX_0050.permissions=subscription

filegateway eventcodes.properties includes only standard events shipped with Sterling File Gateway. Custom events you create are entered and configured in customer_overrides.properties.

Note: Do not edit the filegateway eventcodes.properties file. Make all changes in the customer overrides properties file. For example, to change the name property, enter the following line into customer_overrides.properties: filegateway_eventcodes.name=CUSTOM

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

Subscribing to notifications

Subscribe to notifications to receive email about Sterling File Gateway activity.

About this task

You can subscribe to certain events in Sterling File Gateway. When you subscribe to an event, a notification is sent in an email to you whenever that event occurs, if you have permission on the event. Event permissions are managed by the System Administrator. Your user account must be configured with a valid email address to receive notifications. To subscribe to events:

Procedure

- 1. From the main menu, select **Profile**.
- 2. Select the **Notifications** tab.
- 3. Drag an event from the left pane to the right pane to enable notifications.

Results

When an event that has been subscribed to occurs, an email notification is sent to the email address in your user account.

Unsubscribing to notifications

If you no longer want to be notified of events in Sterling File Gateway, you can unsubscribe.

About this task

To cancel notification of events:

Procedure

- 1. From the main menu, select **Profile**.
- Select the Notifications tab.
- 3. Click **Delete** to disable notification for that event.

Setting up and viewing logs

To troubleshoot problems with file transfers that cannot be analyzed using the Sterling File Gateway user interface, view the activity log. Only Operators and System Administrators can edit log settings and view logs.

About this task

New log files are created at midnight each day. If the maximum log file size is exceeded during the same day, additional log files are created. Old logs are automatically deleted after the pre-determined maximum number of logs is reached. The default maximum number is ten, which can be changed in the customer_overrides.properties file (logService.filegatewaylogger.maxnumlogs=10)

To set up logging:

Procedure

- 1. From the main menu, select **Tools** > **Logs**.
- 2. Scroll down to locate File Gateway.
- 3. Click on the edit icon next to File Gateway.
- 4. Select Logging Level On.

Note: Logging can affect performance, so should only be turned on while troubleshooting problems.

- 5. Click Save.
- 6. View the log at **Tools** > **Logs** > **File Gateway**.

Replaying routes

Replaying a File Transaction from the Beginning (2.2.0 - 2.2.4.2)

Replay a successful or a failed route to have the file transferred again from the beginning.

About this task

To replay a route:

Procedure

- 1. From the Search page, enter criteria for the file to replay.
- 2. Click Find to initiate the search.
- 3. On the Search Results page, right-click next to the file you want to replay.

Note: Once activity is purged, it is no longer available in the system and will not be found in a search that matches the criteria for it. You cannot replay messages that have been purged.

- 4. You can enter a new name to rename the file for the replay. Do not use the following characters: !%*?<>"/\|:.
- 5. You can add a comment about the replay. Up to 255 characters are allowed for the comment. The selected file is replayed and added to the list of arrived files, with a special icon to indicate it is a replay. You can replay a route any number of times.
- 6. When you replay a route, the reviewed box is automatically checked. Right-click and select **Mark as not reviewed** to remove the check.

Replaying files (V2.2.5 or later)

Replay successful or failed routes to have one or more files transferred again from the beginning. When a file is replayed, all the route processing is repeated. You can select files to replay, or replay all files in the list.

About this task

Restriction: Requires Sterling File Gateway Version 2.2.5 or later.

To replay a route:

Procedure

- 1. Use either Basic Search or Advanced Search. From the Search Criteria tab, enter the criteria for the file or files you want to replay.
- 2. Click **Find** to initiate the search.

Remember: After activity is purged, it is no longer available in the system and is not found in a search that matches the criteria for it. You cannot replay messages that are purged.

- 3. To replay all files matching the search criteria:
 - a. Click Replay All.
 - b. In the Replay Arrived File pop-up, you can add a comment about the replay. Up to 255 characters are allowed.
 - c. Click Replay.

All files matching the search criteria, not just the ones displayed or selected, are replayed.

Skip the remaining steps.

- 4. To replay only selected files, on the Arrived File tab, select one or more files to
 - To select a file, click the check box in the first column to display a check mark.
 - To select all files, click the Header check box at the top of the column. All selected files display a check mark in the first column.

The Header check box displays one of the following values depending on file selections:

Checked

All the files are selected

Unchecked

No files are selected

Filled Some, but not all, of the files are selected

If only one file is selected, the Arrived File Events will be displayed and Route and Delivery tabs will be available.

- 5. Click **Replay**. In the Replay Arrived File pop-up:
 - a. If only one file was selected, you can enter a new name to rename the file for the replay. Do not use the following characters: !%*?<>"/\|:..
 - b. You can add a comment about the replay. Up to 255 characters are allowed.
 - c. Click Replay.

Results

The selected files are replayed and added to the list of arrived files, with a special icon to indicate it is a replay.

(V2.2.6 or later) The original file is also updated with a different icon to indicate it failed and needed to be replayed. The file details of the original file contains a link to the replayed file.

If only a single file was selected for replay, it is replayed when you click **Replay**.

If multiple files were selected for replay, or if you chose **Replay All**, the files are marked for replay and the actual replay occurs the next time the FileGatewayReroute business process runs. By default, the FileGatewayReroute business process runs every five minutes.

You can replay a route any number of times. When you replay a route, the reviewed box is automatically checked. Right-click and select **Mark as Not Reviewed** to remove the check.

Restriction: If an EBICS transaction is replayed, the replayed activity is not noted as being an EBICS transaction, because the EBICS translation activity does not take place in the replay.

Redelivering a Processed File (2.2.0 - 2.2.4.2)

Redeliver a successful or a failed route to have the processed file delivered again.

About this task

Only files that have had a previous delivery attempt, successful or failed, can be redelivered.

Procedure

- 1. From the Search page, enter criteria for the file to redeliver.
- 2. Click **Find** to initiate the search.

Note: Once activity is purged, it is no longer available in the system and will not be found in a search that matches the criteria for it. You cannot redeliver messages that have been purged.

- 3. Select the file, select the **Route** tab, and select the route.
- 4. On the **Delivery** tab, right-click on the delivery and select **Redeliver this Arrived File**.
- 5. You can add a comment about the redelivery. Up to 255 characters are allowed for the comment. The selected file is redelivered. Information about the redelivery is added to the delivery details of the original delivery. You can redeliver a route any number of times.

Note: Redeliveries create additional events for the original delivery, and do not display as separate routes in the search results page.

Redelivering processed files (V2.2.5 or higher)

Redeliver successful or failed routes to have one or more processed files delivered again. The route processing is not repeated, the files are redelivered according to previous processing. You can select files to redeliver, or redeliver all the files in the list.

About this task

Restriction: Requires Sterling File Gateway Version 2.2.5 or later.

Only files that have had a previous delivery attempt, successful or failed, can be redelivered.

To perform redelivery:

Procedure

- 1. Use either Basic Search or Advanced Search. From the Search Criteria tab, enter the criteria for the file or files you want to redeliver.
- 2. Click **Find** to initiate the search.

Remember: After activity is purged, it is no longer available in the system and are not found in a search that matches the criteria for it. You cannot redeliver messages that are purged.

- 3. To redeliver all files matching the search criteria:
 - a. Click Redeliver All.
 - b. In the Redeliver Arrived File pop-up, you can add a comment about the redeliver. Up to 255 characters are allowed.
 - **c**. In the Redeliver Arrived File pop-up, click **Redeliver**.

All files matching the search criteria, not just the ones displayed or selected, are redelivered. Information about the redelivery is added to the delivery details of the original delivery. You can redeliver a route any number of times.

Skip the remaining steps.

- 4. To redeliver only selected files, on the Arrived File tab, select one or more files to redeliver.
 - To select a file, click the check box in the first column to display a check mark.
 - To select all files, click the Header check box at the top of the column. All selected files display a check mark in the first column.

The Header check box displays one of the following values depending on file selections:

Checked

All the files are selected

Unchecked

No files are selected

Filled Some, but not all, of the files are selected

If only one file is selected, the Arrived File Events is displayed and Route and Delivery tabs are available.

- 5. Click **Redeliver**. In the Redeliver Arrived File pop-up:
 - a. You can add a comment about the replay. Up to 255 characters are allowed.
 - b. Click Redeliver.

Results

The selected files are redelivered. If only a single file was selected for redelivery, it is redelivered when you click Redeliver. If multiple files were selected for redelivery, or if you chose Redeliver All, the files are marked for redelivery and the actual redelivery occurs the next time the FileGatewayReroute business process runs. By default, the FileGatewayReroute business process runs every five minutes.

Information about the redelivery is added to the delivery details of the original delivery. You can redeliver a route any number of times. Redeliveries create additional events for the original delivery, and do not display as separate routes in the search results page.

When you redeliver a route, the reviewed box is automatically checked. Right-click and select Mark as Not Reviewed to remove the check.

Restriction: If an EBICS transaction is redelivered, the replayed activity will not be noted as being an EBICS transaction, because the EBICS translation activity does not take place in the redelivery.

Troubleshooting and resolving problems

Troubleshooting and resolving problems

Monitor the file activity routinely to check for failed transfers.

About this task

To resolve problems with file transfers:

Procedure

- 1. From the main menu, select Tools > Activity Snapshot, and check for New Failures.
- 2. Click on the number in the New Failures column to see a list for the most recent hour, day, or week displayed in the main window. Close the Activity **Snapshot** window to view the list.
- 3. Click on an item in the returned list to see the details.
- 4. Verify that all business processes involved in processing and transferring the files completed successfully.
- 5. Correct the conditions that caused the failure. For example, if there was an FTP failure due to an incorrect password, update the Partner's FTP configuration with the correct password.
- 6. To replay the failed transfer, right-click in the row of the arrived file and select Replay this Arrived File.
- 7. Mark the activity as **Reviewed** to move it to the **Reviewed Failures** list. Right-click and select Mark as reviewed, or click in the checkbox in the Reviewed column. You can remove the check mark by clicking again, or by right-clicking and selecting Mark as not reviewed. This field is useful for Operators to track their monitoring of file activity and resolving problems.
- 8. Check for files in Routing State for extended periods of time, in cases that do not show in New Failures or in Successfully Routed. Below the Activity Snapshot, click the Total in-flight link.
- 9. Close the Activity Snapshot.

- 10. Review the list for any files that may have stalled. Click in a row to view the related events.
- 11. If there is a halted or failed business process, manually restart the business process to resume the transfer.

Troubleshooting and resolving pending transfers after a system or node failure

About this task

In a failover scenario, some producer messages may not get deleted from the producer mailbox. To resolve this situation:

Procedure

- 1. Determine whether the message got routed. Select Tools > B2B Console > **Deployment** > **Mailboxes** > **Messages** to search for files in the mailbox and locate the message Id.
- 2. Use Advanced Search in Sterling File Gateway to find the message Id.
- 3. If you find a result, it should be failed. Replay the arrived file. This resolves the issue without producer partner involvement.
- 4. If you did not find a result, contact the producer partner and have them rename the file.
 - a. The producer logs in to their producer mailbox and notes the name of the message. It must be the same user that added the file for Sterling File Gateway to detect the route.
 - b. The producer navigates to the mailbox directory that contains the message using the protocol originally used, such as FTP or SFTP.
 - c. The producer renames the message using the exact same name. The rename command may have different names for different protocols and clients. For example, in FTP and SFTP command line it is "rename filename".
 - d. If Allow Duplicates=false, then the producer partner can re-put the file which will overwrite the one that did not get routed.

Troubleshooting and resolving incomplete file transfers

If the business process responsible for a route fails or pauses due to a system failure, arrived files may not transfer completely.

If the consumer can receive the same file again without causing problems, replay the arrived file. Mark the arrived file as reviewed and enter comments with the reason for the replay.

If the consumer cannot manage receiving a duplicate file, determine whether an arrived file was already delivered before performing the replay. See Confirm File Delivery.

Confirming file delivery About this task

To confirm delivery of a file that may have been affected by a system failure, you can call the consumer to verify that they received it.

Or, you can perform the following procedure:

Procedure

- 1. On the Activity page, click on the Arrived File. The Route and Delivery tabs should display.
 - a. If no Delivery tab or there are no deliveries under the Delivery tab, deliveries were not attempted. Replay the Arrived File.
 - b. If there is a Delivery tab, there may have been delivery attempts. Continue with Step 2.
- 2. For each delivery, look for the following event codes:

Code	Name	Event Description
FG_0201	BusinessProcessStarting	The business process was started. The event contains a link to the workflow ID. In the case of FileGatewaySendMessage, this workflow ID is not the one that was started and instead you should look at FG_0203.
		For FileGatewaySendMessage, look for the FG/Protocol attribute. If there is one, it provides the protocol. If there is no Protocol attribute, the transfer is a mailbox-only delivery. Use this value to look for mailbox or protocol deliveries in the instructions below.
FG_0202	BusinessProcessCompleted	Successful completion of the business process. This means the delivery was also successful, because the process completed without failures.
FG_0203	SendMessageBusinessProcessStarted	The Send Message process was started. This is unique because it is asynchronous to the route. The workflow ID link in this event is the correct process.
FG_0250	BusinessProcessFailed	The business process failed. You will not see FG_0250 on a successful process. Click through to the workflow ID on this event to view details about what happened.
FG_0701	DeliveryMailboxMessage	The Mailbox Message was delivered successfully.

- 3. If all events exist, the delivery to protocol and mailbox succeeded. If some events are missing, the transfer may not have succeeded. Continue with step 4.
- 4. Verify mailbox delivery by checking the results of the MailboxAddService in the FileGatewaySendMessage business process. A link to the FileGatewaySendMessage business process is in the event text for FG_0202 and FG_0203 under the Delivery tab. Click on the workflow ID link to go to the business process. Based on the events listed, perform the following actions:

Problem	Solution
Only FG_0201 event exists	Click the workflow ID link for FG_0201 to go to the parent business process. Find the correct subprocess under the FileGatewayDeliveryService. If you only have one delivery there will only be one there.
	If that service did not run, no mailbox or protocol delivery occurred for that route. If you find some subprocesses, click each one to determine if it is the one you are interested in. Compare the DestinationMessageName in Process Data to the delivery that failed to find the matching process.
There are no FG_02xx events	It is possible the SendMessage process was not started, or there was data loss on the events. To verify, click the workflow ID link for FG_0425 under the Arrived File to go to the parent business process. Find the correct subprocess, if it exists. Use the table in Step 2 to find the correct subprocess. If no subprocesses were started, the delivery did not occur Continue to Step 5.

5. When you are viewing the correct FileGatewaySendMessage subprocess, look for the MailboxAddService. If there is no MailboxAddService, the mailbox delivery did not occur. If there is a MailboxAddService, check if it failed or succeeded. Perform the following actions:

Mailbox Delivery	Action
Succeeded for all deliveries	Mark items as Reviewed.
Succeeded for no deliveries	Replay Arrived Files, and mark as Reviewed.
Succeeded for some deliveries	Redeliver only the Failed deliveries, and mark as Reviewed.

- 6. Check for protocol delivery. Find the link to the FileGatewaySendMessage business process. A link to the FileGatewaySendMessage business process is in the event text for FG_0202 and FG_0203 under the Delivery tab. Click on the workflow ID link to go to the business process. Protocol delivery is performed by a business process inside the FileGatewaySendMessage business process. There is no specific service that you can check. With custom protocols, there could be several services responsible for protocol delivery. In general, look for the Invoke Subprocess Service and the next services will be protocol specific. For FTP and SFTP protocols, look for services like FTPPut or SFTPPut. Follow the flow and determine if the protocol delivery reached and completed the service responsible for the actual delivery.
- 7. Check all the deliveries for the Arrived File against the following table. If they all have Yes for "Replay/Redeliver" then Replay the Arrived File. If some are Yes and some are No, then only redeliver the ones that have Yes and do not Replay the Arrived File (or risk duplicate deliveries.)

Protocol	Mailbox	Replay/Redeliver	Action
Succeeded	Succeeded	No	Delivery succeeded. Do not replay or redeliver.
Failed	Succeeded	Yes	Although the file succeeded to the mailbox, replay or redeliver so that it also succeeds to the protocol.
Succeeded	Failed	No	Because the protocol succeeded, do not replay or redeliver because it will cause a duplicate delivery. Ignore that the mailbox failed.
Failed	Failed	Yes	Replay or Redeliver

Troubleshooting and resolving a transport error About this task

To resolve an error message of

Transport Error-HTTP Code:12029 for URL:./smartclientRPC.do

or similar:

Procedure

- 1. Close the current browser session and relaunch Sterling File Gateway in a new browser session.
- 2. Log in to Sterling File Gateway
- 3. If the problem recurs, restart Sterling File Gateway at the server.

Troubleshooting and resolving blank arrived files

If an arrived file is blank, with no original file name or producer name, a system failure may have caused the Sterling File Gateway router to be unable to process the incoming message. There are several known situations that cause this:

- When a protocol client that uploads files to Sterling File Gateway performs renaming of files upon transfer.
 - Why this happens the original file is deleted and renamed to a file with a new name. If Sterling File Gateway tries to route the file with the original name that was deleted, a failed blank arrived file is created. This happens because the file got deleted before information like producer, original file name and so forth are retrieved.
 - What to do click on the blank arrived file. In the details, locate the message Id. Go to Tools > B2B Console > Correlation Search and enter the message Id and click Find. In the results, locate the file name and mailbox path to determine the producer. Contact the producer to confirm that their client that uploads files is set to rename files upon transfer. Ensure that the file with the new name is routed correctly.
- When a file is sent and immediately sent again, overwriting the first.

- Why this happens Allow duplicates=false in the Mailbox configuration. The second file overwrites and deletes the first file. If this happens before Sterling File Gateway reads the data about this file, then you have a blank route.
- What to do this is harmless if both files contain the same data because the second file is routed correctly. If multiple files with the same name and different data are to be sent to the system, configure the system so these files go to different mailboxes, or set Allow duplicates=true.
- When a system configured with a redundant Oracle RAC has a node failure.
 - Why this happens the arrived file temporarily cannot see the message because of the failure and creates a blank arrived file to show that something was supposed to happen, and then immediately fails the arrived file.
 - What to do replay the arrived file to get it to reroute. If this does not work, the message was deleted before the replay. Investigate the database, the logs, and the Activity list to find which message did not get added or got deleted prematurely. Determine the producer and ask them to re-send the file.
- Both AFT and Sterling File Gateway are enabled at the same time.
 - Why this happens no AFT Routing Rules should be active after Sterling File Gateway is installed.
 - What to do when Sterling File Gateway is installed, AFT is disabled. Do not re-enable AFT Routing Rules.

Troubleshooting and resolving failed routes for renamed files

If Sterling File Gateway tries to route a file that has been deleted from the mailbox, it results in a failed route. In the Arrived File list, click on the failed route to view the Arrived File Events details. The following event message is listed:

FG-0450 ERROR: Producer Mailbox Message Does Not Exist.

Click on the dataflow link in the details.

This can happen when a protocol client that uploads files to Sterling File Gateway performs renaming of files upon transfer.

System Administrators can specify the temporary file name pattern in the ignoreFilename*x* parameter as a regex expression in filegateway.properties. This causes the specified patterns to be listed in the Arrived File list as Ignored. Multiple file name patterns can be specified.

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