Sterling File Gateway

Services

Version 1.1

Sterling Commerce
An IBM Company

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Sterling File Gateway Services

File Gateway Delivery Service

The File Gateway Delivery Service delivers files that have been transformed to consumer partners.

The following table provides an overview of the File Gateway Delivery service:

System Name	File Gateway Delivery Service
Graphical Process Modeler (GPM) category	Not applicable
Description	This service delivers files that have been transformed to consumer partners.
Business usage	This is a system service. It is used to deliver a transformed file to a consuming partner.
Usage example	The system uses this service.
Preconfigured?	Yes
Requires third party files?	No
Platform availability	All platforms supported by the application
Related services	File Gateway Arrived File Service
Application requirements	None
Initiates business processes?	Yes. This service may start a sub process for a protocol transfer to a listening consumer.
Invocation	Yes. This service is invoked automatically in Sterling File Gateway processes and does not need to be modified.
Business process context considerations	None
Returned status values	0 = Success 1 = Failure
Restrictions	This service is only called by Sterling File Gateway and

System Name	File Gateway Delivery Service
	cannot be customized.
Persistence level	System default
Testing considerations	None

Implementing the File Gateway Delivery Service

This is a system service. You do not need to implement this service.

Configuring the File Gateway Delivery Service

There are no configuration parameters for the File Gateway Delivery Service.

Parameters Passed from Business Process to Service

Field	Description
ConsumerMessageId	The message ID to send to the consumer. Required.
Delivery	Contains all the elements required by the FileGatewayDeliveryService required to make a delivery.
DeliveryKey	The key that represents the created Delivery Object. Required.
ConsumerFile/DeliveryChannelKey	The key that represents the Delivery Channel that the File Gateway Delivery Service will use to make the delivery. Required.
ConsumerFile	Contains all the elements that represent the file to be delivered. Required.
ConsumerFile/DocumentId	The identifier of the document to be delivered. Required.
ConsumerFile/ContentType	The content type of the file to be delivered. Required.
ConsumerFile/FileName	The file name of the file to be delivered. Required.

Field	Description
ConsumerFile/Size	The size of the file to be delivered. Required.
ConsumerFile/Type	The type of the layer that is being delivered. Required.
ConsumerFile/MailboxPath	The mailbox path to deliver to. Required.
CreateMailboxIfMissing	

Parameters Passed from Service to Business Process

There are no parameters passed from this service to a business process.

Example Business Process

The following is an example of BPML that uses the File Gateway Delivery Service:

```
<process name="Fire ACME Event">
    <sequence name="Event">
     <operation>
        <participant name=" FileGatewayArrivedFileService "/>
        <output message="Output">
          <assign to="ReplayArrivedFileKey">1234</assign>
          <assign to="ReplayComment">I am replaying this because it failed.
          </assign>
          <assign to="MessageId">1</assign>
        </output>
        <input message="Input">
         <assign to="AFResults" from="*"></assign>
        </input>
     </operation>
     <operation>
        <participant name=" FileGatewayDeliveryService "/>
        <output message="Output">
           <assign to=".” from=” AFResults /Delivery[0]”/>
        </output>
        <input message="Input">
            <assign to="." from="*"></assign>
        </input>
     </operation>
    </sequence>
</process>
```

File Gateway Arrived File Service

The File Gateway Arrived File Service processes and transforms files in order to prepare them for delivery to a consuming partner.

The following table provides an overview of the File Gateway Arrived File Service:

System Name	File Gateway Arrived File Service
Graphical Process Modeler (GPM) category	Not applicable
Description	This service processes and transforms files in order to prepare them for delivery to a consuming partner.
Business usage	This is a system service. It is used to transform a file that has arrived into the File Gateway system
Usage example	The system uses this service.
Preconfigured?	Yes
Requires third party files?	None
Platform availability	All platforms supported by the application
Related services	None
Application requirements	None
Initiates business processes?	Yes. This service may start sub-business processes for custom consumer identification and/or transformation.
Invocation	Yes. This service is invoked automatically in Sterling File Gateway processes and should not need to be modified.
Business process context considerations	None
Returned status values	0 = Success 1 = Failure
Restrictions	This service is only called by Sterling File Gateway and cannot be customized.
Persistence level	System default
Testing considerations	None

Implementing the File Gateway Arrived File Service

This is a system service. You do not need to implement this service.

Configuring the File Gateway Arrived File Service

There are no configuration parameters for the File Gateway Arrived File Service.

Parameters Passed from Business Process to Service

Field	Description
ReplayArrivedFileKey	The key that represents the original arrived file if this is a replay. Optional.
ReplayComment	The comment entered by the user on the replay. Optional.
MessageId	The message identifier that this service will route through Sterling File Gateway. Required.

Parameters Passed from Service to Business Process

Field	Description
RouteDeliveries	A list of all the deliveries that the router will attempt to send to the File Gateway Delivery Service. Optional, used only when there are deliveries to make.
Delivery	Contains all the elements required by the File Gateway Delivery Service required to make a delivery. Optional, used only when there are deliveries to make.
DeliveryKey	The key that represents the Delivery. Required, one for each delivery.
DeliveryChannelKey	The key that represents the Delivery Channel that the FileGatewayDeliveryService will use to make the delivery. Required, one for each Delivery.
ConsumerFile	Contains all the elements that represent the file to be delivered. Required, one for each delivery.

Field	Description
DocumentId	The identifier of the document to be delivered. Required, one for each consumer file.
ContentType	The content type of the file to be delivered. Required, one for each consumer file.
FileName	The file name of the file to be delivered. Required, one for each consumer file.
Type	The type of the layer that is being delivered. Required, one for each consumer file.
MailboxPath	The mailbox path to deliver to. Required, one for each consumer file.
CreateMailboxIfMissing	Whether or not to create the mailbox if it is missing in the delivery. Required attribute on MailboxPath. Valid values are: Y - Create a mailbox if one matching the specified pattern does not already exist N - Do not create a mailbox

Example Business Process

The following is an example of BPML that uses the File Gateway Arrived File Service:

```
<process name="Fire ACME Event">
    <sequence name="Event">
       <operation>
          <participant name=" FileGatewayArrivedFileService "/>
          <output message="Output">
            <assign to="ReplayArrivedFileKey">1234</assign>
            <assign to="ReplayComment">I am replaying this because it failed.
            </assign>
            <assign to="MessageId">1</assign>
          </output>
          <input message="Input">
            <assign to="." from="*"></assign>
           </input>
       </operation>
    </sequence>
</process>
```

File Gateway Route Event Service

The File Gateway Route Event Service enables users to fire custom events as part of a route in Sterling File Gateway. The events will be viewable and searchable in the same manner as the pre-existing events.

The following table provides an overview of the File Gateway Route Event service:

System Name	File Gateway Route Event Service
Graphical Process Modeler (GPM) category	All Services
Description	This service allows users to fire their own custom events as part of a route in Sterling File Gateway .
Business usage	Use this service to fire events as part of a route in Sterling File Gateway.
Usage example	In a custom protocol business process, the user wants to fire an event that shows the connection parameters for this protocol. The user would create the event in the customer_overrides.properties file, then edit the custom protocol business process to put the File Gateway Route Event Service in it to pass the parameters for the event.
Preconfigured?	Yes
Requires third party files?	No
Platform availability	All platforms supported by the application
Related services	None
Application requirements	None
Initiates business processes?	No
Invocation	This service must be invoked from a business process. The business process must have been started by Sterling File Gateway through its extension capability for consumer identification or custom protocol.
Business process	The RouteEntityType, RouteEntityKey, RouteMetaData, and

context considerations	RouteDataflowId parameters must be passed into the File Gateway Route Event Service through an assign of either all elements or the custom elements individually.
Returned status values	0 = Success 1 = Failure
Restrictions	None
Persistence level	System default
Testing considerations	None

Implementing the File Gateway Route Event Service

This is a system service. You do not need to implement this service.

Configuring the File Gateway Route Event Service

There are no configuration parameters for the File Gateway Route Event Service.

Parameters Passed from Business Process to Service

Field	Description
RouteEntityType	Used by Sterling File Gateway to associate the event with the correct Sterling File Gateway Route Entity. The value for this is passed into the business process from Sterling File Gateway and thus only needs to be passed through into the service and should not be changed. Required. Possible values are: • ArrivedFileKey • RouteKey • DeliveryKey
RouteEntityKey	Used by Sterling File Gateway to associate the event with the correct Sterling File Gateway Route Entity. The value for this is passed into the business process from Sterling File Gateway and thus only needs to be passed through

Field	Description
	into the service and should not be changed. Required.
RouteMetaData	Contains data required by the event subsystem. The value for this is passed into the business process from Sterling File Gateway and thus only needs to be passed through and should not be changed. Required.
RouteDataflowId	Contains the dataflow ID for the arrived file for this route. The value for this is passed into the business process from Sterling File Gateway and thus only needs to be passed through and should not be changed. Required.
EventCode	The code for the event. The code must be defined in the FGEventCodes.properties file (when firing a system event) or the custom customer_overrides.properties file (when firing a custom event). Required.
ExceptionLevel	The exception level of the event. Used by the event framework in the platform. Optional. Possible values are: • Normal • Abnormal • Exceptional The default value is exceptional.
EventAttributes	Contains a set of subelements that contain all the unique attributes for this event. Optional for events that have no attributes. Required for events that do have attributes.
<AttributeName>	The actual attribute name is the name of the element, with content equal to the value of the attribute that you want to pass into the event. Optional.

Parameters Passed from Service to Business Process

There are no parameters passed from this service to a business process.

Example Business Process

The following is an example of BPML that utilizes the File Gateway Route Event Service.

The assign "<assign to="."from="*">" below will automatically pull in the values for RouteEntityKey, RouteMetaData, RouteDataflowId, and RouteEntityType because those values are always passed into Sterling File Gateway-started business processes.

The first assign for the EventAttributes has an append="true". This will serve to create the EventAttributes field. The following assigns do not and cannot have an append attribute so that the EventAttributes field is only appended once.

```
<process name="Fire ACME Event">
   <sequence name="Event">
      <operation>
         <participant name=" FileGatewayRouteEventService "/>
         <output message="Output">
           <assign to="EventCode">CUST_0455</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>
```

The following is an example of a business process:

```
<operation>
  <participant name=" FileGatewayRouteEventService "/>
  <output message="Output">
    <assign to="EventCode">CUST_0455</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>
```

File Gateway Complete Delivery Service

The File Gateway Complete Delivery Service completes the delivery to consuming partners by reporting the state of Arrived File, Route, and Delivery objects.

The following table provides an overview of the File Gateway Complete Delivery service:

System Name	File Gateway Complete Delivery Service
Graphical Process Modeler (GPM) category	Not applicable
Description	This service completes the delivery to consuming partners by reporting the state of Arrived File, Route, and Delivery objects.
Business usage	This is a system service. It is used to complete the delivery of a

	file to a consuming partner.
Usage example	The system uses this service.
Preconfigured?	Yes
Requires third party files?	No
Platform availability	All platforms supported by the application
Related services	None
Application requirements	None
Initiates business processes?	No
Invocation	Yes. This service is invoked automatically in Sterling File Gateway processes and does not need to be modified.
Business process context considerations	None
Returned status values	0 = Success 1 = Failure
Restrictions	This service is only called by Sterling File Gateway and cannot be customized.
Persistence level	System default
Testing considerations	None

Implementing the File Gateway Complete Delivery Service

This is a system service. You do not need to implement this service.

Configuring the File Gateway Complete Delivery Service

There are no configuration parameters for the File Gateway Complete Delivery Service.

Parameters Passed from Business Process to Service

Field	Description
DeliveryKey	The key that represents the created Delivery Object. Required.
Success	Whether the delivery being completed was successful. Required. Possible values are: • True • False

Parameters Passed from Service to Business Process

There are no parameters passed from this service to a business process.

Example Business Process

The following is an example of BPML that uses the File Gateway Complete Delivery Service:

```
<process name="Complete Delivery">
    <sequence name="Complete Delivery">
     <operation>
            <participant name=" FileGatewayCompleteDeliveryService "/>
            <output message="Output">
                    <assign to="."from="DeliveryKey"/>
                    <assign to="Success">true</assign>
            </output>
            <input message="Input">
                <assign to="." from="*"></assign>
            </input>
     </operation>
    </sequence>
</process>
```

File Gateway Create Partner Mailbox Service

The File Gateway Create Partner Mailbox Service creates mailboxes to match the specified directory path and grants mailbox access to the partner's users.

The following table provides an overview of the File Gateway Create Partner Mailbox Service:

System Name	File Gateway Create Partner Mailbox Service

Graphical Process Modeler (GPM) category	Not applicable
Description	This service creates mailboxes to match the specified directory path and grants mailbox access to the partner's users.
Business usage	This is a system service. It is used to create mailboxes to match the specified directory path and grant mailbox access to the partner's users.
Usage example	The system uses this service.
Preconfigured?	Yes
Requires third party files?	No
Platform availability	All platforms supported by the application
Related services	None
Application requirements	None
Initiates business processes?	No
Invocation	Yes. This service is invoked automatically in Sterling File Gateway processes and does not need to be modified.
Business process context considerations	
Returned status values	0 = Success 1 = Failure
Restrictions	This service is only called by Sterling File Gateway and cannot be customized.
Persistence level	System default
Testing considerations	None

Implementing the File Gateway Create Partner Mailbox Service

This is a system service. You do not need to implement this service.

Configuring the File Gateway Create Partner Mailbox Service

There are no configuration parameters for the File Gateway Create Partner Mailbox Service.

Parameters Passed from Business Process to Service

Field	Description
MailboxPath	The full absolute mailbox path to create. Any string. Required.
PartnerKey	The key that represents the partner. This is used for the partner's users permission to the created mailbox. Any string. Required.

Parameters Passed from Service to Business Process

There are no parameters passed from this service to a business process.

Example Business Process

The following is an example of BPML that uses the File Gateway Create Partner Mailbox Service:

```
<process name=>
<operation name="CreateConsumerMailbox">
<participant name="FileGatewayCreatePartnerMailboxService"/>
<output message="Xout">
<assign to="MailboxPath"
from="FG/MailboxPath/text()"/>
 <assign to="PartnerKey"
from="ConsumerCode/text()"/>
 </output>
<input message="Xin"/>
</operation>
</process>
```