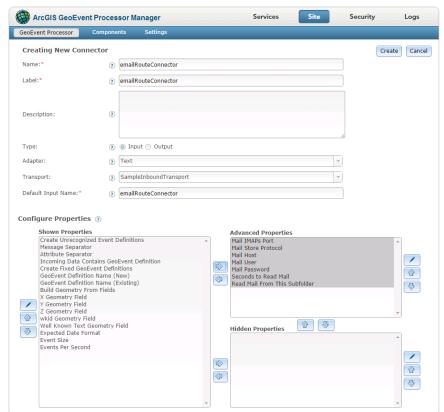
How to Configure the Harford Email Routing Connector

By Gang Zhong, Esri

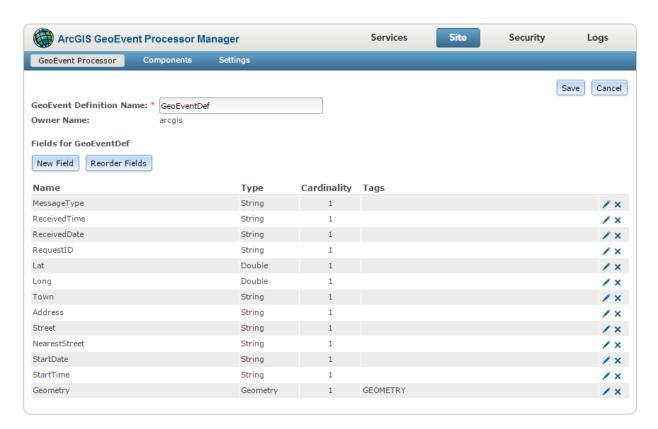
10/12/2014

These instructions assume GeoEvent Processor is installed in the C:\Program Files\ArcGIS\Server\GeoEventProcessor folder.

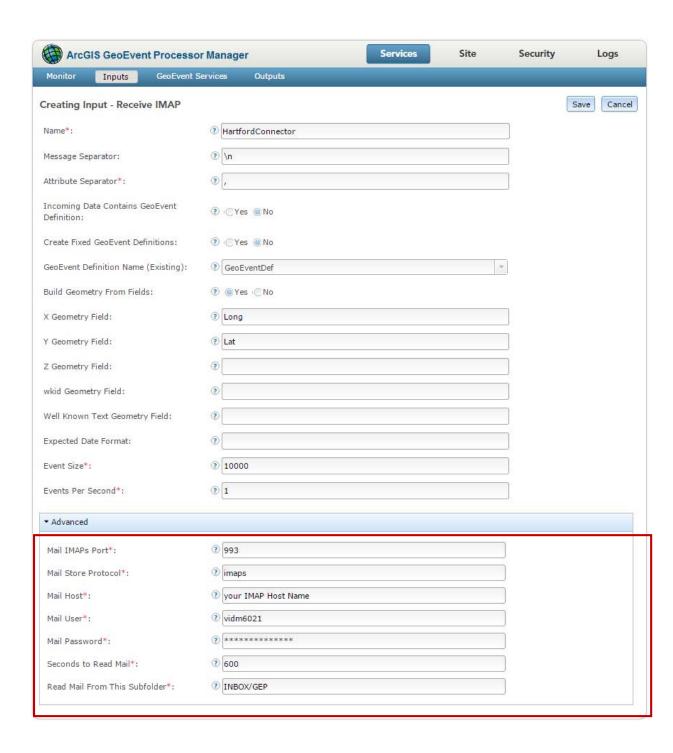
- 1. Copy the sample-transport-10.2.2.jar to C:\Program Files\ArcGIS\Server\GeoEventProcessor\deploy.
- 2. Restart the "ArcGIS GeoEvent Processor" Windows Service.
- 3. Open ArcGIS GeoEvent Processor Manager to create a connector. (Site->GeoEvent Processor->Connectors->Create Connector).
- 4. Enter the desired *Name*, *Label*, and *Default Input Name*.
 - a. Choose Adaptor as "Text".
 - b. Choose *Transport* as "SampleInboundTransport".
- 5. In "Configure Properties"
 - a. Select "Mail IMAPs Port", "Mail Store Protocol", "Mail Host", "Mail User", "Mail Password", "Seconds to Read Mail" and "Read Mail From This Subfolder" from "Shown Properties" and move them into "Advanced Properties".
 - b. Click "Create" to create the new connector.



- 6. Create a new GeoEvent Definition
 - a. Create a new geoevent denifition with the name of "GeoEventDef"
 - b. The GeoEventDef has thirteen fields as below
 - c. The last field is the "Geometry" field with "Geometry" Type and Tags
 - d. Make sure the Lat and Long fields having "Double" type



- 7. Click "Inputs" tab to "Add Input" and select the custom connector you defined. (Services->Inputs->Add Inputs).
 - a. Input your Name
 - b. Select "Incoming Data Contains GeoEvent Definition" as "No"
 - c. Select "Create Fixed GeoEvent Definitions" as "Yes"
 - d. Input "GeoEvent Definition Name (New)" as your created GeoEvent Definition name such as "GeoEventDef"
 - e. Select "Build Geometry From Fields" as "Yes"; Input "X Geometry Field:" as "Long" and "Y Geometry Field:" as "Lat"
 - f. Expand "Advanced" tab and you can configure the customized parameters here.



g. Change the advanced configuration in the red box:

For example:

Define which email subfolder you will read out the emails. The format is INBOX/yourSubFolderName;

Define *Seconds to Read Email* parameter. If you want to read emails every 10 minutes, input 600 to "*Seconds to Read Email*".

Click "Save".

8. Log system

- a. Please go to C:\Program Files\ArcGIS\Server\GeoEventProcessor\data\log\karaf.log and check the log information.
- b. There are 2 levels of logs in this connector:
- c. INFO and ERROR. The connector will log the parsed GeoEvents (that is the email bodies of text format) as INFO. If any error happened such as IOException, it will log at ERROR level.
- d. You can configure C:\Program Files\ArcGIS\Server\GeoEventProcessor\etc\org.ops4j.pax.logging for the log level display, logout format and size of log file, etc.

Appendix A:

Example of the log in karaf.log:

BLD.,09/25/2014,07:00

2014-10-14 00:24:08,626 | INFO | Thread-192 | SampleInboundTransport | 369 sample.gep.sample-transport - 10.2.2 | No messages found. 2014-10-14 00:25:08,629 | INFO | Thread-192 | SampleInboundTransport | 369 sample.gep.sample-transport - 10.2.2 | ++++++++++++++ Email read started 2014-10-14 00:25:09,329 | INFO | Thread-192 | SampleInboundTransport | 369 sample.gep.sample-transport - 10.2.2 | No messages found. 2014-10-14 00:26:09,332 | INFO | Thread-192 | SampleInboundTransport | 369 sample.gep.sample-transport - 10.2.2 | ++++++++++++ Email read started 2014-10-14 00:26:10,255 | INFO | Thread-192 | SampleInboundTransport | 369 sample.gep.sample-transport - 10.2.2 | 2 emails are read out to GeoEvent channel 2014-10-14 00:26:10,256 | INFO | Thread-192 | SampleInboundTransport | 369 sample.gep.sample-transport - 10.2.2 | Parsed Mail bodies: ROUTINE,16:07,09/22/2014,20143901024,41.7671994,-72.6880038,HARTFORD,51,FLOWER ST, FARMINGTON AVE, VARIOUS LOCATIONS TO REPLACE SIDEWALKS INSIDE AETNA COMPLEX.

ROUTINE,16:07,09/22/2014,20143901024,41.7671994,-72.6880038,HARTFORD,51,FLOWER ST,FARMINGTON AVE,VARIOUS LOCATIONS TO REPLACE SIDEWALKS INSIDE AETNA COMPLEX. THESE ARE LOCATED BEHIND THE MAIN BLD THE WALK THAT GOES FROM NEW PK GARAGE TO BLD.,09/25/2014,07:00

THESE ARE LOCATED BEHIND THE MAIN BLD THE WALK THAT GOES FROM NEW PK GARAGE TO

2014-10-14 00:26:10,277 | ERROR | nagement Thread. | TcpOutboundTransport | 250 - com.esri.ges.framework.transport.tcp-transport - 10.2.2 | Error writing to the client localhost:5570.

java.io.IOException: An existing connection was forcibly closed by the remote host

at sun.nio.ch.SocketDispatcher.write0(Native Method)[:1.7.0_51] at sun.nio.ch.SocketDispatcher.write(Unknown Source)[:1.7.0_51] at sun.nio.ch.IOUtil.writeFromNativeBuffer(Unknown Source)[:1.7.0_51] at sun.nio.ch.IOUtil.write(Unknown Source)[:1.7.0_51]

at sun.nio.ch.SocketChannelImpl.write(Unknown Source)[:1.7.0 51]

at

com.esri.ges.transport.tcp.TcpOutboundTransport.processSelectionKey(TcpOutboundTransport.java:244)[250:com.esri.ges.framework.transport.tcp-transport:10.2.2]

at

com.esri.ges.transport.tcp.TcpOutboundTransport.manageSelector(TcpOutboundTransport.jav a:200)[250:com.esri.ges.framework.transport.tcp-transport:10.2.2]

at

com.esri.ges.transport.tcp.TcpOutboundTransport.manageAllSockets(TcpOutboundTransport.ja va:110)[250:com.esri.ges.framework.transport.tcp-transport:10.2.2]

at

com.esri.ges.transport.tcp.TcpOutboundTransport.run(TcpOutboundTransport.java:353)[250:c om.esri.ges.framework.transport.tcp-transport:10.2.2]

at java.lang.Thread.run(Unknown Source)[:1.7.0 51]

2014-10-14 00:27:10,262 | INFO | Thread-192 | SampleInboundTransport | 369 - sample.gep.sample-transport - 10.2.2 | ++++++++++++++ Email read started

2014-10-14 00:27:10,746 | INFO | Thread-192 | SampleInboundTransport | 369 - sample.gep.sample-transport - 10.2.2 | 1 emails are read out to GeoEvent channel

2014-10-14 00:27:10,746 | INFO | Thread-192 | SampleInboundTransport | 369 - sample.gep.sample-transport - 10.2.2 | Parsed Mail bodies:

ROUTINE,16:07,09/22/2014,20143901024,41.7671994,-72.6880038,HARTFORD,51,FLOWER ST,FARMINGTON AVE,VARIOUS LOCATIONS TO REPLACE SIDEWALKS INSIDE AETNA COMPLEX. THESE ARE LOCATED BEHIND THE MAIN BLD THE WALK THAT GOES FROM NEW PK GARAGE TO BLD.,09/25/2014,07:00