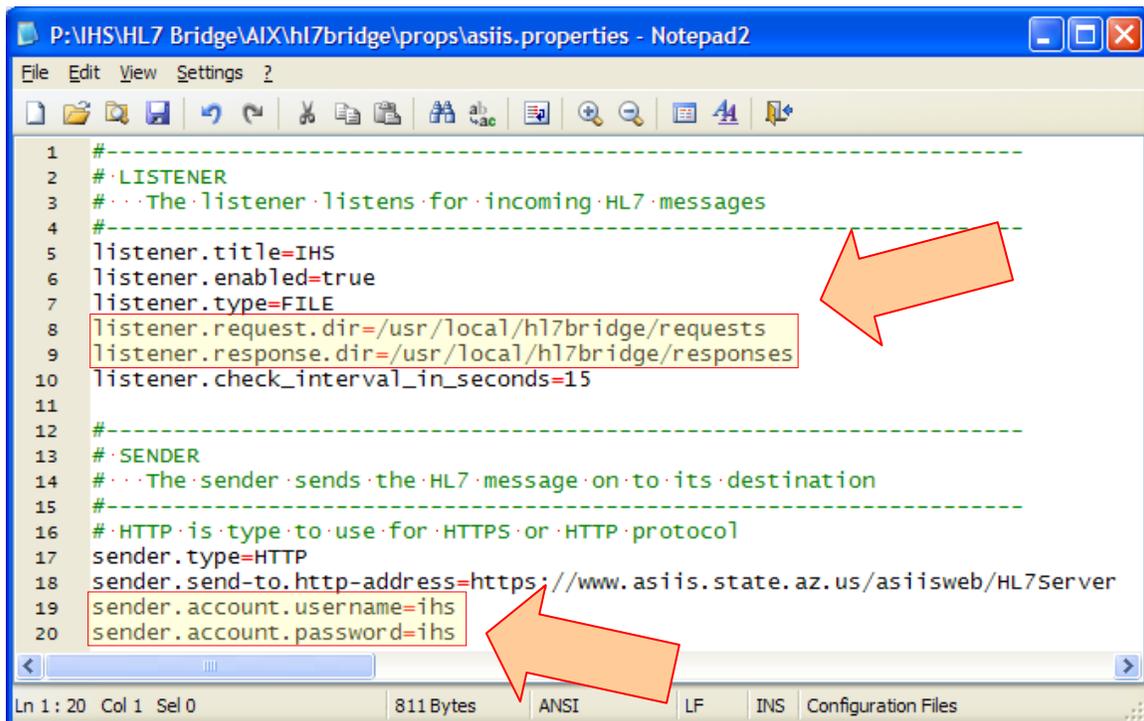


HL7 Bridge Installation Instructions for AIX Servers

This is a step-by-step guide to help connect RPMS to ASIIS.

- Step 1:** Retrieve the file `bridge.tar.gz` and expand it in the target directory. This document assumes that the target directory is `/usr/local/hl7bridge`, which may differ from your server. Please modify where appropriate.
- Step 2:** The HL7 Bridge requires Java version 1.4 or later. If this is not installed, please do so now. The HL7 Bridge will **not** work properly under Java version 1.3.
- Step 3:** Locate the Java bin folder. (This document assumes that the latest Java is installed at `/usr/java14/bin`, which may differ from your server. Please modify where appropriate.) Type `/usr/java14/bin/java -version` and verify that version number is at least 1.4.
- Step 4:** Edit `/usr/local/hl7bridge/props/asiis.properties` so that it lists the correct requests and responses directory; and specifies the correct username and password to access the registry server. If you do not have a registry username and password, please contact the registry help desk to request one.



```
P:\MHS\HL7 Bridge\AIX\hl7bridge\props\asiis.properties - Notepad2
File Edit View Settings ?
1 #-----
2 # LISTENER
3 # The listener listens for incoming HL7 messages
4 #-----
5 listener.title=IHS
6 listener.enabled=true
7 listener.type=FILE
8 listener.request.dir=/usr/local/hl7bridge/requests
9 listener.response.dir=/usr/local/hl7bridge/responses
10 listener.check_interval_in_seconds=15
11
12 #-----
13 # SENDER
14 # The sender sends the HL7 message on to its destination
15 #-----
16 # HTTP is type to use for HTTPS or HTTP protocol
17 sender.type=HTTP
18 sender.send.to.http.address=https://www.asiis.state.az.us/asiisweb/HL7Server
19 sender.account.username=ihs
20 sender.account.password=ihs
Ln 1 : 20 Col 1 Sel 0 811 Bytes ANSI LF INS Configuration Files
```

listener.request.dir

This property indicates where the HL7 Bridge should look for new requests. This is the directory where RPMS will place the exported file.

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Remember **all** files in this directory will be sent to ASIIS, so this directory should only be used to store HL7 batch requests.

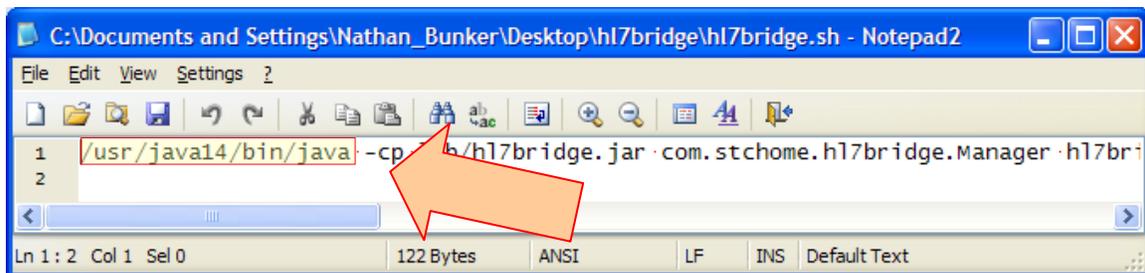
listener.response.dir

This property indicates where the HL7 Bridge should store the response from ASIIS. The HL7 Bridge will name the response file with the same name that is used in the request directory. (E.g. if the file `izdata20051017.dat` were placed in the request folder, you should expect a file named `izdata20051017.dat` to appear in the request folder once the HL7 Bridge has finished transmitting the request.) Depending on the configuration of the ASIIS account you may expect the response file to contain acknowledgements or a reciprocal batch of updates, which may be loaded back into RPMS. The HL7 Bridge regularly polls both directories to determine if any files need to be sent. To resend a file, simply delete the response file and the HL7 Bridge will act on the request again.

sender.account.username & send.account.password

For the purposes of installing and testing the HL7 Bridge it is okay to use the `test/test` username and password. The registry server will reject the message, which will confirm that the HL7 Bridge is able to make the connection. Once the correct username and password is known, simply edit this file and restart the HL7 Bridge application.

Step 5: Review the file `/usr/local/hl7bridge/hl7bridge.sh` and, if it is different on your system, change the java directory. Leave the rest of the command the same.



```
C:\Documents and Settings\Nathan_Bunker\Desktop\hl7bridge\hl7bridge.sh - Notepad2
File Edit View Settings ?
1 /usr/java14/bin/java -cp b/hl7bridge.jar com.stchome.hl7bridge.Manager hl7br
2
Ln 1: 2 Col 1 Sel 0 122 Bytes ANSI LF INS Default Text
```

Step 6: Start the HL7 Bridge by running the `hl7bridge.sh` file; type `./hl7bridge.sh`. A file called `hl7bridge-process.log` will be created by the shell script that records any problems that occur when trying to start the HL7 Bridge. Examine this file. If this file is empty, then the HL7 Bridge started running properly (although it may still have had a problem and stopped); go to **Step 7**. If the file contains an error message then the HL7 Bridge could not be started. Return to the previous steps and review your configuration.

Step 7: If the HL7 Bridge has a problem during initialization or during run-time it will log the problem in the props directory in a file called `error.txt`.

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These problems may be solved by fixing mistakes made in **Step 4**. Make the necessary changes and then repeat **Step 6**.

Step 8: Once the HL7 Bridge has been running for about 20 seconds, open a new command prompt, and examine the `/usr/bridge/response` directory and verify that the `test.hl7` response file has been created. Examine the contents of the file. If the username and password are not set correctly in the property file the follow message will be returned:

```
MSH|^~\&|5.0^QSInsight^L|^|^DBO^QSInsight^L|QS4444^^|200603271
05957||ACK^|1143478797500.100010558|P|2.3.1|
MSA|AE|QS444437861000000042|Not logged in: USERID and PASSWORD
were not recognized|||207^^HL70357|
ERR|^^^207^^HL70357|
```

This message confirms that the HL7 Bridge works, but that the username and password will need to be changed before data will be accepted.

Otherwise, if the message is accepted then the registry server will process the query and return a response.

If the HL7 Bridge is unable to connect to the registry it will write an error message in HL7 format. Embedded in the message should be a plain worded explanation of the error. Here is an example of just such an error:

```
MSH|^~\&|||20060327100747||ACK^||P|2.3.1|
MSA|AE||Unable to connect to address
'http://nbunker:8081/iweb_test/HL7Server' Cause: Connection
refused: connect|||207^^HL70357|
ERR|^^^207^^HL70357|
```

This error occurred because the registry server was turned off and the HL7 Bridge was asked to send it a message. The error indicates that server was not listening for incoming data on that connection.

Step 9: Now that you have verified that the HL7 Bridge is working properly you have to set it up to run all the time. Edit your server initialization file, `init.pub`, to include the call to the HL7 Bridge. This call is the same as was used in **Step 6**.

Step 10: Whenever a new HL7 file is replaced in the request directory it will be automatically sent to the registry. Please regularly examine the response directory, and monitor the registry's import log, to ensure that all messages are being received without errors. The HL7 Bridge only sends HL7 messages once and does not monitor for problems.

Congratulations! Your HL7 Bridge is now configured and ready to go.