EMMA Subscriber Service Interactive Client Installation Guide

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The example code and files to be used for testing purposes are for the sole purpose of assisting subscribers to its data subscription services with testing modifications to such services (for service enhancement purposes) and should not be used by subscribers or any other person or entity for any other purpose including, but not limited to, use in a production environment.

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The EMMA Subscriber Service Interactive Client allows developers to connect to the EMMA Subscriber Service and exercise the various operations that are available to a subscriber. This guide provides instructions on how to install and use the interactive client to retrieve subscription data and documents.

Requirements

- .NET 4.0 Framework installed on the target computer
- Credentials that EMMA will accept (see **Credentials**, below) and
- Network connectivity to the server you will be using (see **Choose a Server**, below).

Credentials

A Gateway login with the appropriate rights or an X.509 certificate that EMMA trusts to retrieve actual data is required to access the client. Please refer to the point of contact within your organization for details about your credentials. You may also contact MSRB Support at 703-797-6668 for assistance in determining what credentials to use.

Install the Interactive Client

You should have received a .zip file containing the client. Simply unzip it to a folder of your choice. You may wish to create a shortcut on your desktop or in your start menu.

Run the Interactive Client

Using X.509 Certificate

1. Double click on your shortcut or **SubscriberServicesClient.exe** in the installation folder.
2. If you have been given an X.509 certificate as your credentials, you will need to ensure it is installed in the current user's personal certificates for each user that will be using the client. (Please contact your tech support group if you are not sure about this or you need assistance with installing a certificate.)
3. Click the **Login** button in the upper-left hand corner of the client and select the **Use Certificate** option.
4. The drop-down box below the option button will list the certificates which can potentially be used to connect to the EMMA Subscriber Service. Select the certificate that was issued to you.

5. Click the **Okay** button. This returns you to the main screen on the client.

Using Gateway Login

1. Click the **Login** button in the upper-left hand corner of the client and select the **User Gateway Login** option.
2. Enter the Gateway login credentials assigned to you.
3. Click the **Okay** button to return to the main screen on the client.

Choose a Server

Available servers are listed in the **Endpoint** drop-down. Select the server to which you want to connect.

Request Transactions Overview

You may request the following using the EMMA Subscriber Service Interactive Client:

- A list of transactions for a particular date
- Individual transactions that are of interest to you
- Any documents associated with those individual transactions

Requesting transaction information, whether lists of transactions or individual transactions, always results in a response object that includes the status code of the operation described below.

Requests for files will result either in a binary stream containing the contents of the file or in a SOAP fault containing the same type of status code.

The **Request ID** field is a unique identifier for each request made to the service, it is used for tracking by the MSRB and you may need to supply it if you believe that there are issues with the quality of the data you're receiving.

Retrieve Transaction List

1. To retrieve a list of transaction, navigate to the **Transactions** tab in the client.
2. From the drop-down menu, select the **Submission Type**.
   *The drop-down list contains all the potential submission types including an entry for **Invalid**, which occurs if you request an unrecognized submission type. The MSRB may not have authorized you for all submission types. If you request a type you have not been authorized for, you will receive a response with a **403** status code.*
3. Next, select the **Posting Date** – the date you requested the list of transactions.
   *The MSRB may restrict the amount of historical data that you can access. Should you request data from too far in the past, you will receive a response with a **402** status code.*
4. Click on the **Get Transactions** button. Note that the **Request ID** and **Records Returned** fields will change. The list of transactions retrieved will also be populated unless you received a popup message displaying an error.

Retrieve a Single Transaction

1. Double click on any transaction in the transaction list to retrieve the details of that transaction. A new tab with the response to this enquiry appears on the screen.
2. You may peruse this data here or copy it into your favorite editor for easier viewing, or save it to a file in XML or JSON format.

Retrieve a File

Each individual transaction response can contain zero or more documents and each document consists of one or more files.

1. To retrieve these files, copy the **FileIdentifier** from a <File> element.
2. Paste it into the **File Id** field on the **Documents** tab.
3. Click the **Get File** button. The contents of the file will be saved to a temporary file and the application associated with PDFs will be started to display the results.

Error Reporting

Should there be a problem with your request, the client will display a popup box showing the resulting status code. Please see the *Subscriber Service Specifications* available on www.msrb.org for a description of these status codes.