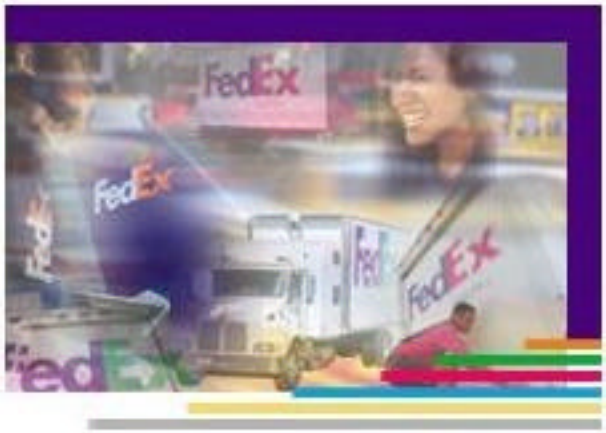
Ship Manager API

FedEx API Client Libraries Developer's Guide



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Purpose

To connect to ATOM and send a FedExAPI transaction to the FedEx Internet Server.
The FedExAPIClient.dll contains both a regular "C" transaction interface and a COM interface.

Standard Library Interface – for Windows, Solaris UNIX, and LINUX clients

To use FedExAPIClient.dll as a regular dll, it can be located either in the Windows directory or the current directory of the application. Include for Windows clients, FedExAPI.lib, and for Solaris/LINUX clients, libfedexapi_r.so(a), in your project or makefile and call the following function from your C code:

- int FedExAPITransaction(char *host, int port, char *sbuf, int sbuf_len, long universalTransCode,
  char *rbuf, int rbuf_len, int *receive_length);

  Function Arguments:
  - host – the host name or IP address of your system that is running ATOM.
  - port – The TCP/IP port (usually 8190) where you have configured ATOM to listen.
  - sbuf –user's buffer containing the transaction.
  - sbuf_len – integer length of transaction data in user's buffer.
  - UniversalTransCode – long value transaction routing code used by ATOM.
  - rbuf –user's buffer to receive the reply transaction.
  - rbuf_len – integer length of the user's receive buffer.
  - receive_length – integer pointer for the size of the data received.

  Returns: 0 if successful, or an API/ ATOM error code as defined in FedExAPIErrors.pdf.

The COM Interface – for Windows clients only

To use FedExAPIClient.dll as a COM object, register the .dll with the REGSVR32 utility from the directory where FedExAPIClient.dll is located. Be sure to use the fully qualified path and file name for the dll to avoid any problems with the REGSVR32 utility. The dll is now registered for use as a COM object on your system.

Add the #import statement for FedExAPIClient.tlb to the Stdafx.h file in your MSVC++ or .Net project.

From MS Visual Basic 6.0, open your project and select **Project** then **References**. Find the FedExAPI Type Library in the list and select the checkbox.

Available Method:

HRESULT FedExAPITransaction([in] long UnivTransCode, [in] BSTR SendBuf, [in] BSTR ServerURL,
[in] long ServerPort, [out,retval] BSTR *RecvBuf)

Inputs:

UniversalTransCode – long value transaction routing code used by ATOM.
SendBuf – String buffer containing the transaction.
ServerURL – DNS or IP address of ATOM service, usually 127.0.0.1
ServerPort – Port for ATOM service, usually 8190

Returns String buffer containing the reply transaction. On error, sets standard Err object code equal to FedExAPI return codes as defined in FedExAPIErrors.pdf.

Note: In order for FedExAPIClient.dll to function, the configuration file wclient.ini MUST be in the Windows directory.

Sample Programs

After installing the FedEx Ship Manager API, you will find a simple C sample program called webetest that reads requests from a file and processes them through the API. Under Solaris and Linux, it will be in a subdirectory called fedexapi/webetest. Under Windows, it will be in the FedEx\FedEx Ship Manager API\Win32\Sample\webetest subdirectory. Sample programs in other languages can be found on the Global Developer site (http://www.fedex.com/globaldeveloper/shipapi/) .