

ACHWORKS-IP (eChex IP) SYSTEM

Release 1.0



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I. DESCRIPTION

ACHWorks-IP or eChexIP is a fast, very robust, small footprint and yet powerful TCP/IP client program that exchanges ACH transaction files with our ACH Gateway Servers. All communications are securely encrypted and compressed. Just double-click on the program icon and you are ready to go. It can be used interactively as a stand-alone program, or can be used in a command line. It can be tightly integrated into your in-house software packages and other third-party software that are capable of calling out external programs through command line scripts.

You can totally control the eChexIP program through these command line scripts, or using the Windows Shell API commands. The shell script commands can be called from any programming language using CreateProcess Windows API or other equivalent Shell API functions within your programming environment (C#, VC++, VB, MS Access, Paradox, Delphi, etc.).

It also includes file validation tests to point out the errors in your submitted file before they are received by our servers. This would give you enough time to correct your file before it is too late in the process, providing you control on timely submissions of validated files.

Using the eChexIP program interactively.

eChexIP is a simple but user-friendly program. The first time you eChexIP, you should setup the correct eChexIP server address, port number, location ID, server password and download directory. We will provide you the Server IP Addresses, Port Number, Location ID and password after you completed signing up with us. To setup ACHWorks-IP (eChexIP) connections properly, just click on the File menu and select connection setup. Enter the values required in the appropriate boxes and then click the save button. To test if you can connect with our ACH Gateway servers, you just click the Receive button and you should get a message like the one below:

```
Searching for eChexIP ACH Gateway Server...
Server found.
Logging in...
Connected.
Access Granted.
Checking server directory...
Downloading Files...
Downloaded Files:
No files to download.
```

The Access Granted message should indicate that you have set your eChexIP server address, port number, location ID and server password correctly. And if there are connection problems, such as not setting your firewall, not having internet connections, you may get:

```
Searching for eChexIP ACH Gateway Server...
Server Error Code:10061
Server is not accessible.
Cannot establish connection with the server.
Download unsuccessful.
```

After a successful setup, you can start sending and receiving files. You can validate your batchfile without sending it to us. You can do this by clicking the Validate button. After clicking the validate button, navigate through the file dialog box until you find the file and double-click the file that you want to validate. Results of the validation are shown in the message window, and also will be automatically stored in a .SUM file. The Validation response file will have the same name as the original file but with an extension named to .SUM and can be found in the same directory where you originated your file. Validation will let you know if the file is ok for submission or failed the validation test. Any error will always result in failing the validation test. Details about the errors are found in the .SUM file. This command should help you troubleshoot the required format for the eChex Batch files. You don't need to validate the file every time.

To send a batch file to our ACH Gateway servers, just click the send button. Then navigate through the file dialog box and double-click the file that you want to send. Your file will be validated, and if it passes, your file will be uploaded. The message window should tell you if your file has been accepted or not and any communication errors encountered. Everytime you send a

file, you will either get a .ACK file after a successful upload or a .ERR file for a failed upload. After a successful upload, the .ACK file will contain:

- The first line of the ACK file is the server time stamp (dd/mm/yyyy hh:mm:ss AM/PM PST) the file was received by our server.
- The second line is the acknowledgement that we have accepted your file and it shows the file name.
- The third line is the summary of your Debits and credits associated with the accepted file.
- The fourth line are your total number of records (including header and trailer), the number of debit transactions, the number of credit transactions, and the number of addendas.
- The last line should hopefully be always zero, the number of errors in your submitted file.

In case of errors, there is no specific format for the error logs, as different kinds of error could happen. The errors are shown in the message window as well as in the .ERR file.

To receive response files just click the receive button. The message window should display the list of files downloaded as well as any errors encountered. Also, the Download.LOG file is created in the destination directory after each receive attempt.

Other eChexIP tips:

You can send a file immediately by dragging a batchfile from any folder and dropping it directly into the eChexIP program. You can also drag and drop a file directly into the eChexIP program icon and it will start the sending process right away. This is of course if you have done the connection setup correctly.

II. COMMAND LINE SYNTAX

eChexIP command [/parameter = Value ...]

To send or upload a file to eChex ACH Gateway servers:

```
eChexIP send /file=C:\ACH\RPP7100-050629AA.CNB /loc=7100 /pass=T$$ /ip=67.92.201.195 /port=4751
```

Notes:

- **send** command means upload or send a file to the eChex Gateway server. You can only send one file at a time. After a successful send command, that is, if the eChex Gateway server has received your file, you will get a file named after your originating file but with an extension of .ACK. In this case, you will get RPP7100-050629AA.ACK and can be found in the same directory where your originating file is found after a successful upload. This is a text file, and the first line is the Server Date and Time (mm/dd/yyyy hh:mm:ss AM/PM PST) that we have received your file. We will not delete your originating file after a successful upload. It is up to you what to do with the file after sending it to us. If the send command is not successful, then an error file named after your originating file is generated with a .ERR extension, in this case, RPP7100-050629AA.ERR. This is a log of all the errors that happened when attempting to send your file.
- **/file=** C:\ACH\RPP7100-050629AA.CNB The **/file=** parameter was set to filepath and filename of C:\ACH\RPP7100-050629AA.CNB. If a path is not included, it assumes the current system's path when eChexIP program is invoked. Any valid windows filename, including spaces and dashes are recognized. Just set the eChexIP parameter **/file=** to any file that you want. The file must however, conform to the eChex ACH Gateway specified format or previously agreed upon format such as CNB file specifications.
- **/loc=7100** The **/loc=** is the location ID parameter. This sample location ID is a test location. You will be assigned your own unique location ID and password.
- **/pass=T\$\$** The **/pass=** parameter is for the server password, in this case, it is T\$\$\$. This password will be assigned to you. You may request us to change this, but we always assign it. In case password contains / or = characters, set this interactively.
- **/ip=67.92.201.195** The **/ip=** parameter is the eChex ACH Gateway server IP Address. We will let you know of the main and alternative ACH Gateway servers that you will connect with. You will have to set your firewall to allow communications with these assigned IP Addresses.

- **/port=4751** The /port= parameter is the server port number that you will use. You will have to open this port in your firewall to communicate with our server. If you are using this port for other software, you will have to talk with us to agree on other available ports that we can use.

III. SAMPLE COMMANDS

After sending a Batch File, ie,

```
eChexIP send /fi=RPP7100-050629AA.CNB /ip=... /pass= ...
```

You will get either a .ACK file (ie, RPP7100-050629AA.ACK) after a successful upload or a .ERR file (ie, RPP7100-050629AA.ERR) if the uploading is problematic, either of these files can be found in the same directory where you originated your batch file.

\Sample content of the ACK file could be:

```
Received: 06/30/05 11:29:00 AM
File ACCEPTED: RPP7100-050629AA.CNB
Total Debits: $49,381.00, Total Credits: $249.00
Total Records: 208, #debits:205, #credits:1, #Addendas:0
Errors: 0
```

Note:

- The first line of the ACK file is the server time stamp (dd/mm/yyyy hh:mm:ss AM/PM PST) the file was received by our server.
- The second line is the acknowledgement that we have accepted your file and it shows the file name.
- The third line is the summary of your Debits and credits associated with the accepted file.
- The fourth line are your total number of records (including header and trailer), the number of debit transactions, the number of credit transactions, and the number of addendas.
- The last line should hopefully be always zero, the number of errors in your submitted file.

If for one reason or another, sending your file encountered some errors, all the communication logs, and the errors are saved into the ERR file. You will have to look at this file to help you troubleshoot what the error is, and if you cannot fix the problem, we may need you to send this file to us to help you fix the problems.

Sample content of the ERR file could be (This is a sample common error of an improperly formatted file):

```
Loc ID:7100, File to Send = C:\Data\ACHTrans\RPP7100-050629AA.CNB
Validating...
File failed validation test.
Total Debits: $0.00, Total Credits: $0.00
Total Records: 208, #debits:0, #credits:0, #Addendas:0
Errors: 206
Mismatch Computed/Listed Debit Count    2 / 0 in Line No.: 6
Mismatch Computed/Listed Credit Count    2 / 0 in Line No.: 7
Mismatch Computed/Listed Debit Amount 000010.00 / 0 in Line No.: 9
.....
```

There is no specific format for the error logs, as different kinds of error can happen, ie. we could get something like (closed ports, server is down, lightning fried our routers, etc...):

```
Loc ID:7100, File to Send = C:\Data\ACHTrans\RPP7100-050629AA.CNB
Validating...
File is Ok for submission.
Searching for eChexIP ACH Gateway Server...
Server Error Code:10061
Server is not accessible.
Cannot establish connection with the server.
```

At any rate, either ".ERR" or ".ACK" are produced. These two files if present are always erased or overwritten at the start of each send file command. So copy them if you want to save these files before resending the same file. And if you put a write lock on them, ie, opening with an editor, these will not be cleared and you will not get the correct responses from eChexIP.

To receive or download response files from eChex ACH Gateway servers:

```
eChexIP receive /dest=C:\ACH\Resp /loc=7100 /pass=T$$ /ip=67.92.201.195 /port=4751
```

Notes:

- **receive** command means receive or download any ACH response file available from our server. All the other parameters have the same meaning as mentioned above.

- **/dest=C:\ACH\Resp** The **/dest=** parameter sets the destination directory where the ACH response files are to be saved. If the destination directory do not exist, it will be automatically created, no matter how many levels of parent directories you use. If the **/dest=** parameter is not supplied, the default directory \ACHResp will be created relative to where the eChexIP.EXE program is located, and the ACH response files stored there.

When receiving a file, you will always get a Download.LOG file in the destination directory that you have set. This file is erased before downloading and created after downloading, whether you received a file or not. If you received files, they will be found in the destination directory, including the Download.log file. Sample content of Download.LOG could be:

```
Searching for eChexIP ACH Gateway Server...
Server found.
Logging in...
Connected.
Access Granted.
Checking server directory...
Downloading Files...
Downloaded Files:
File#1: C:\ACH\ACHResp\ECX7100-000001.CSV
File#2: C:\ACH\ACHResp\ECX7100-000002.CSV
File#3: C:\ACH\ACHResp\ECX7100-000003.CSV
Downloaded: 3 file(s).
```

If you don't receive any acknowledgement file, the content could be

```
Searching for eChexIP ACH Gateway Server...
Server found.
Logging in...
Connected.
Access Granted.
Checking server directory...
Downloading Files...
Downloaded Files:
No files to download.
```

And if there are downloading problems, you may get:

```
Searching for eChexIP ACH Gateway Server...
Server Error Code:10061
Server is not accessible.
Cannot establish connection with the server.
Download unsuccessful.
```

To validate a file without sending it:

```
eChexIP val /fi= RPP7100-050629AA
```

And the results are found in the .SUM file, in the above sample: RPP7100-050629AA.SUM. Validation response is the same as the original file with an extension renamed to .SUM and can be found in the same directory where you originated your file. Validation results will let you know if the file is ok for submission or failed the validation test. Any

error will always result in failing the validation test. Details about the errors are found in the .SUM file. This command should help you troubleshoot the required format for the eChex Batch files.

Other Parameter Notes:

- **/hide** This is the only parameter that will not require any value, if included it will run the eChexIP program in a minimized window.
- Shortcut parameters. Only the first 2 letters, case insensitive, will matter for all parameters. For example **/fi=MyFile.CNB** is the same as **/filename=MyFile.CNB**, the same as **/file=MyFile.CNB** and **/pa=T\$\$** is the same as **/pass=T\$\$** and is the same as **/PassWord=T\$\$**
- The parameters can be in any order separated by at least one space character.

Other scripting commands:

Commands are case insensitive and must be the first word that follow right after eChexIP. Only the first three letters of the command matters.

- **set** means to setup the location ID, server password, Server IP Address and Server Port Number and destination directory for response files permanently so that you do not need to set or supply these parameters everytime you send or receive a file. You must supply the **/ip, /port, /pass, /dest** parameter values right after the set command.
- **reset** sets the location ID, server password, Server IP Address and Server Port Number to their default test values. You can use this for your protection in case you want to disable the program anytime.
- **snr** means to do a send and receive in one command session.
- **download** this is the same as **receive** command
- **upload** this is the same as **send** command.
- **upgrade** means check for upgrades from the server, and if an upgrade is available, it will automatically upgrade the eChexIP program. This is planned but not yet implemented as of this release.

IV. CONTACT INFORMATION

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