GUIDE

sFTP Data Download Guide

AZENTA
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1. sFTP Client/Core FTP LE 2.2 Free

(Recommended Download Method) Operating Systems: Windows

1. If you have the free version of Core FTP 2.2 LE or any other sFTP client, then please launch the program and skip to Step 4.

2. If you do not have the free version of Core FTP LE 2.2, then please visit the following webpage to download: http://www.coreftp.com/download.html.

3. Open Core FTP:

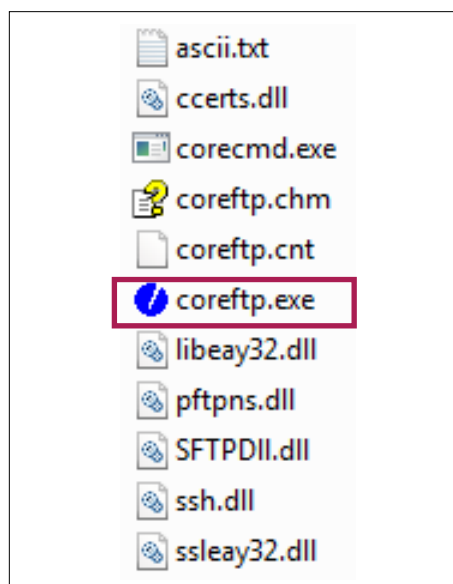**Figure A1** Core FTP client's icon.

Figure A2. Folder location for Core FTP client in Microsoft® Windows® 7.

4. Enter the proper credentials into the free version of Core FTP LE 2.2 from Azenta's correspondence and see Figure A3:

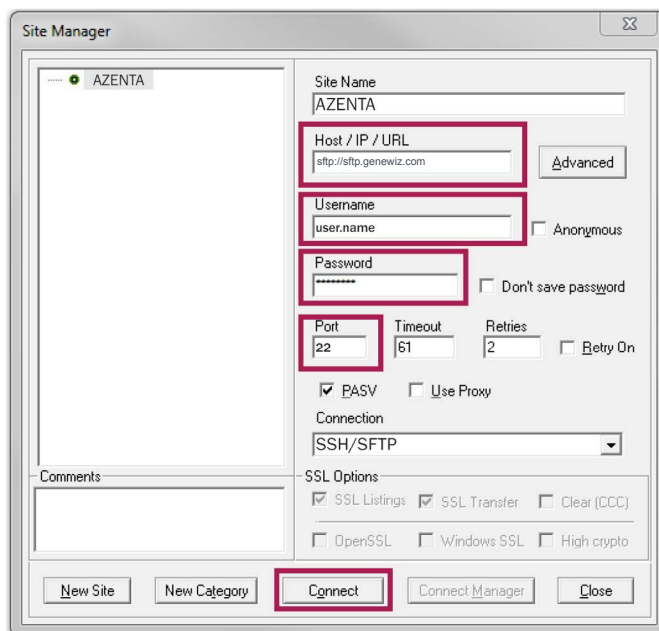|	
Host name**:	**s**ftp://**s**ftp.genewiz.com
User:	user.name
Password:	password
Port Number:	22

Figure A3. Entering your sFTP credentials.

**Please use sftp://sftp.genewiz.com instead of ftp://sftp.genewiz.com for the host name

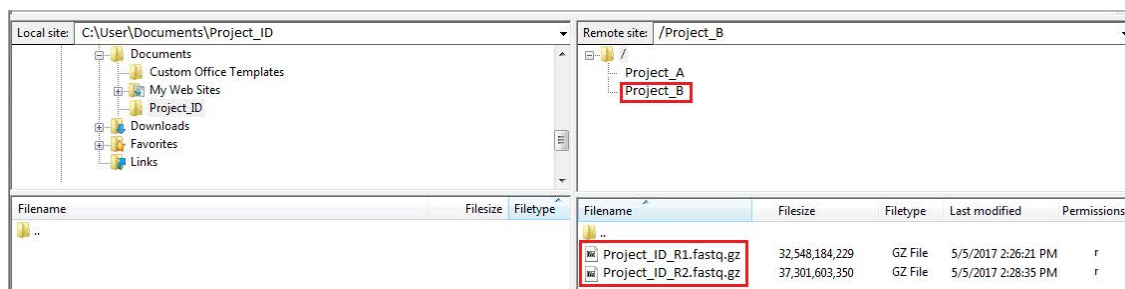**5. Navigate to the Project folder that contains your files:**

Figure A4. Project A and Project B will be stated as your Quote ID.

6. Download files from your sFTP account by either:
  a. Right click – Download, or
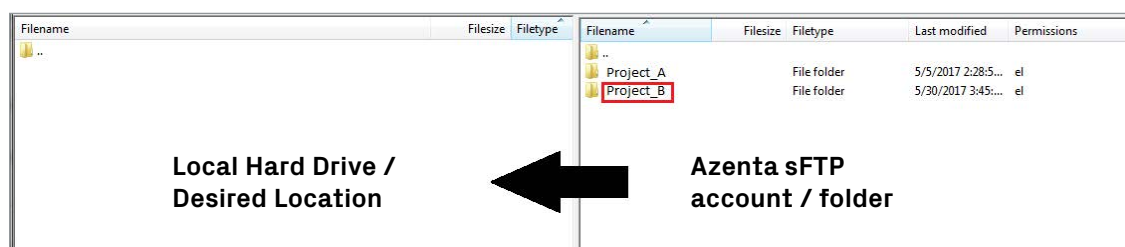 b. Drag files from the right window to the left window in FTP Core.

Figure A5. Project A and Project B will be stated as your Quote ID.

7. Check to see if the download was successful based on the following bottom tabs:
  a. Queued files
  b. Failed transfers
  c. Successful transfers
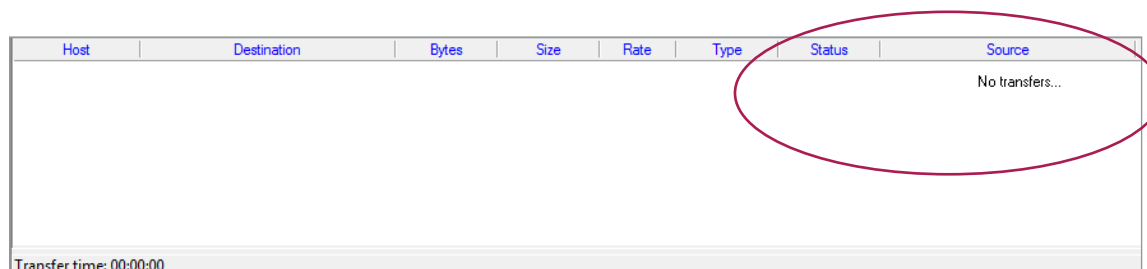

Figure A6. Checking for successful transfer of data.

2. sFTP Client/Cyberduck Free

(Alternative Recommended Download Method) Operating Systems: Windows/Mac OSX

1. **If you have the free version of Cyberduck or any other sFTP Client, then please launch the program and skip to Step 4.**

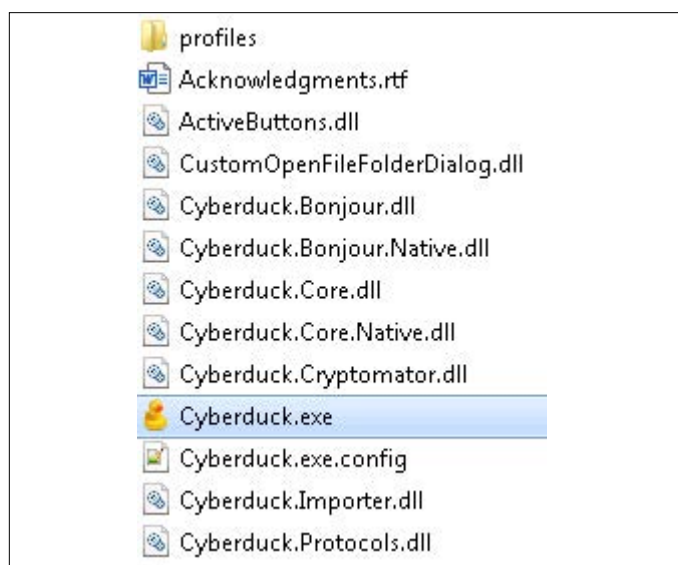2. **If you do not have Cyberduck, then please visit the following webpage to download: https://cyberduck.io/download/.**

3. **Open**

Figure B1. Folder location for Cyberduck.

Cyberduck:

Figure B2. Click on Open Connection.

4. **Click on Open Connection in Cyberduck:**

5. **Enter the proper credentials into Cyberduck from**

Host name**:   **s**ftp://**s**ftp.genewiz.com

User: user.name

Password: password

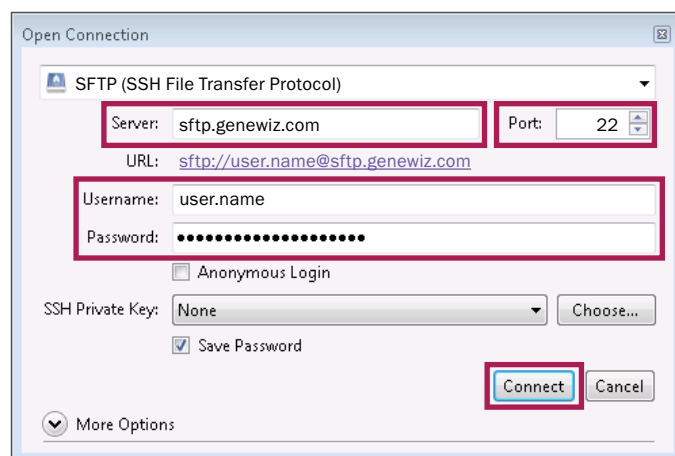Port Number: 22

Figure B3. Enter your sFTP credentials.

Please use **sftp://sftp.genewiz.com instead of **ftp://**sftp.genewiz.com for the host name

Azenta's correspondence and see Figure B3:

Figure B4. Project A and Project B will be stated as your Quote ID.

6. **Navigate to the Project folder that contains your files:**

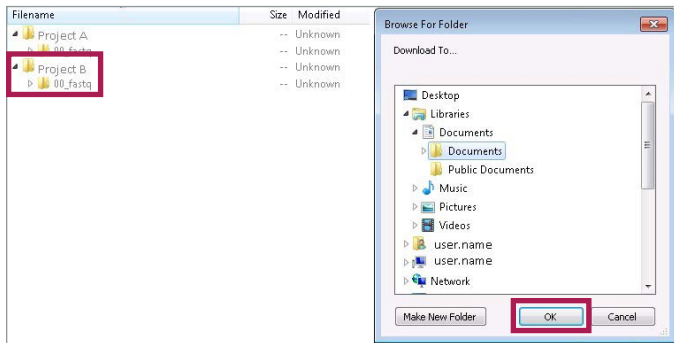**Figure B5.** Project A and Project B will be stated as your Quote ID.

7. **Download files from your sFTP account:**
   a.   Right click – Download To

8. **Check to see if the download was successful by clicking on Transfers in Cyberduck and checking the status:**
   a.   Queued files
   b.   Failed transfers
   c.   Successful transfers
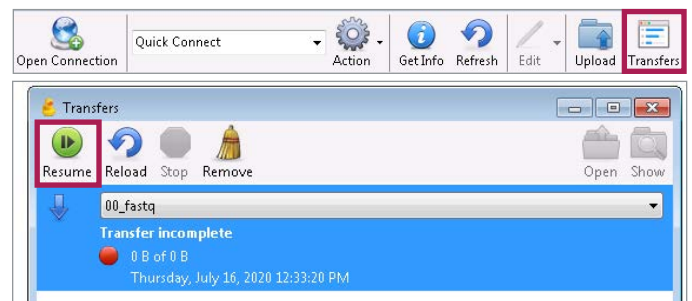

Figure B6. Check for successful transfer of data.

3. Command Line

(Recommended for Advanced Users) Operating Systems: Mac OSX/Linux

1. Open Azenta's correspondence concerning your project:

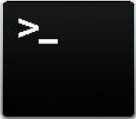|	
Host name**:	**s**ftp://**s**ftp.genewiz.com
User:	user.name
Password:	password
Port Number:	22

2. Open Terminal

Figure C1. Mac OSX/Linux – Terminal Icon.

3. Type the following to log in:

sftp user.name@sftp.genewiz.com

4. Enter your password:


```
➢   sftp user.name@sftp.genewiz.com
user.name@sftp.genewiz.com password:
Connected to sftp.genewiz.com
sftp>
```

Figure C2. Entering your Azenta credentials through Command Line.

5. Set your local drive where you wish to download your project's files:

`lcd` <Folder name>

```
Connected to sftp.genewiz.com
sftp> lcd
Desktop/        MyDocuments/        Readme.txt
sftp> lcd MyDocuments/
sftp>
```

Figure C3. Specifying where you will be downloading project files.

6. View your folder and files in your project folder:

    a.   View all files or folders in your directory: `ls` or `ll`

```
sftp> ls
Project_A/       Project_B/
sftp> ls
sftp> cd Project_B/
sftp> ls
Project_ID_R1.fastq.gz        Project_ID_R2.fastq.gz        Project_ID.bam        Project_ID.bai
sftp>
```

Figure C4. Browsing through your data on Azenta's sFTP.

b.   Enter your project folder: `cd <Project ID's Folder Name>`

7. Download all files within the folder:
   a.   Unix FTP command to download data from Azenta's sFTP: `mget`
   b.   `mget` will **only** download files in the directory that you are in. In cases of multiple subdirectories, then please use `mget` within each subdirectory to download your data.
   c.   Downloading all files within a directory: `mget*`

```
sftp> cd Project_B/00_fastq
sftp> ls
Project_ID_R1.fastq.gz        Project_ID_R2.fastq.gz
sftp> mget *
```

Figure C5. Downloading all the files within `Project_B` folder .

8. Download all files and subfolders within the parent folder:
   a.   Unix FTP command to download data from Azenta's sFTP: `get -r Project_folder`
   b.   `get -r` will **recursively** download all files and folders within the project folder.

```
sftp> cd Project_B/
00_fastq/        analysis/
sftp> get-r./Project_B/
```

Figure C6. Downloading all the files `Project_B` folder.

4. Frequently Asked Questions (FAQs)

1. What can I do if I am unable to connect to the Azenta server?

Answer 1: Please check with your internal IT team and perform the following:

— Ensure there are no internal firewalls blocking your access

— Check for blocked ports at your company or institution

— Try connecting from a different location: home, office, or library

2. What can I do to ensure that my data has been downloaded properly?

Answer 2: There are two steps that you can take:

— Check whether the file sizes that you have are relatively the same as the ones on Azenta's sFTP server

— Check the md5 checksum to compare the downloaded against our generated md5sums:

`md5sum -c md5sum_list.txt`

3. May I ask Azenta to extend the availability of my data beyond the 15-day limit?

Answer 3: Yes, we will gladly work with you if downloading is taking longer than expected. Please kindly send us an email at ngs@azenta.com. We also suggest setting up your own storage options:

— Backup hard drive

— Your own institution or company's FTP or sFTP

— Cloud Storage: Amazon AWS, The Box, Google Drive, etc.