This sequence diagram was generated with EventStudio 2.5 (http://www.EventHelix.com/EventStudio).

Here we explore the sequence of interactions in a typical FTP (File Transfer Protocol) session. The example here illustrates the use of multiple TCP connections by FTP. We will cover how FTP establishes a telnet TCP connection (TCP Port 21) to control the overall flow of the FTP transfer. Then we examine the use of TCP Port 21 for establishing TCP connections for directory transfer and file retrieval.

The complete sequence diagram can be divided into the following steps:
- DNS Query to obtain the IP address for the FTP Server
- FTP Telnet connection setup and login. (USER and PASS commands)
- Obtaining a directory listing (PORT and LIST command)
- Changing directory (CWD command)
- Downloading a file using FTP get (PORT and RETR command)

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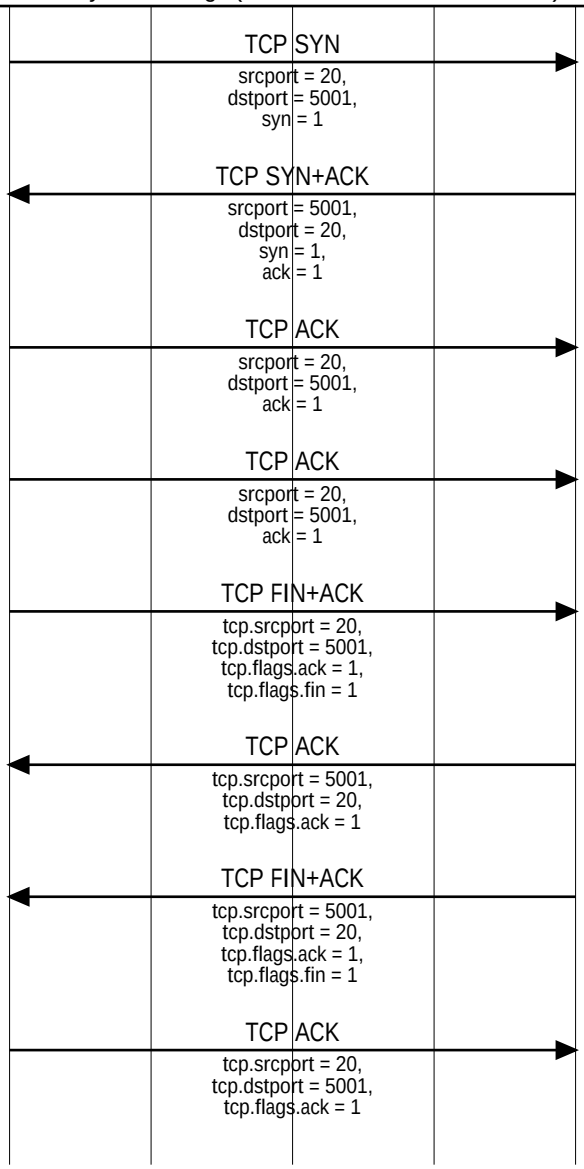
DNS Query to obtain the IP address for the FTP Server.

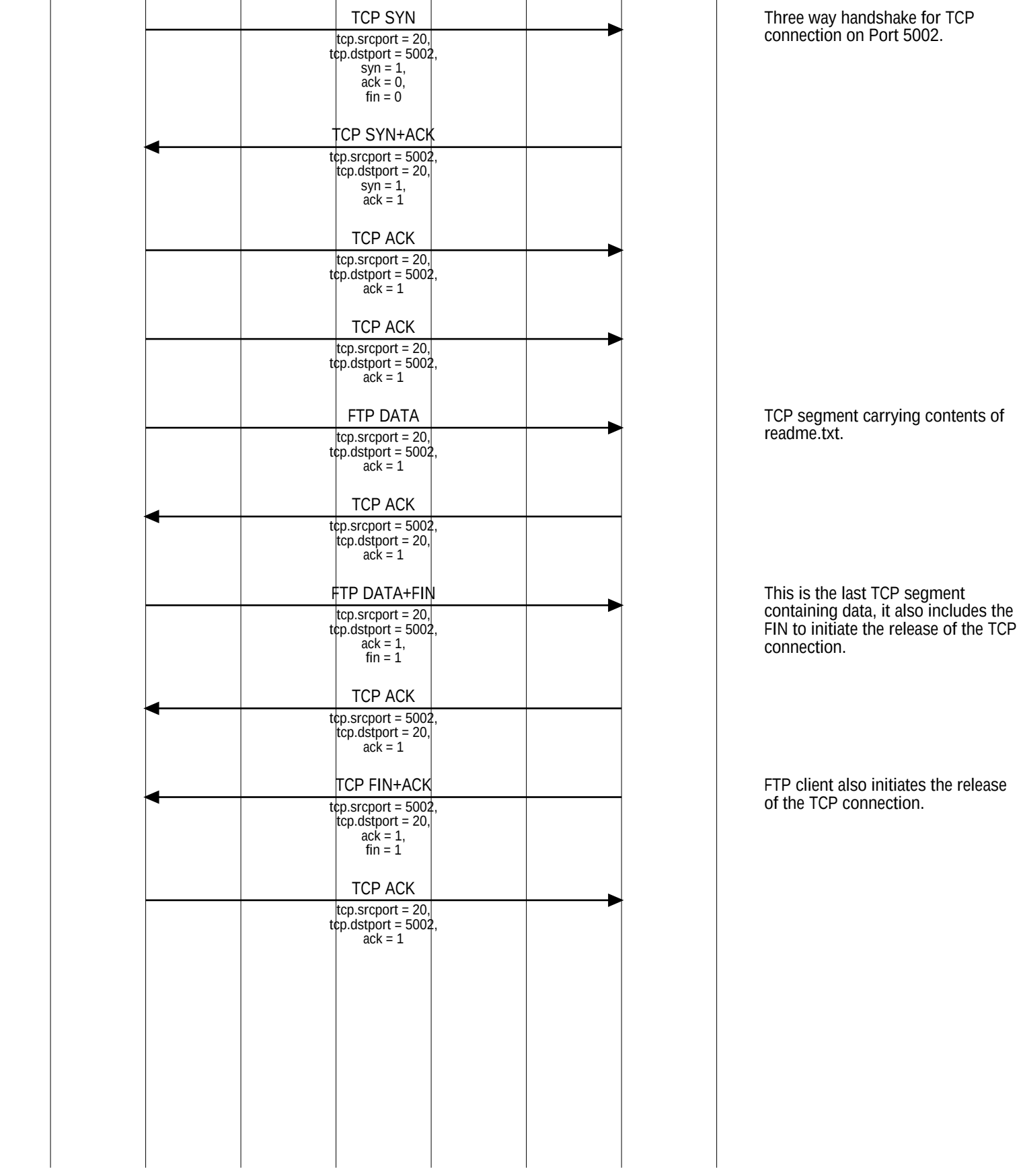
FTP Telnet connection setup and login. (USER and PASS commands).

Obtaining a directory listing (PORT and LIST command).



TCP three way handshake for connection establishment on port 5001.

FTP server initiates the release of the TCP connection used to transport the directory listing.

Changing directory (CWD command).

Downloading a file using FTP get (PORT and RETR command).