Frame Data

Set DataToSend Event

Die

Start

RECEIVE STATE

Request Resend

Bad Frame

Received ENQ. Sent ACK

Receive Frames

Check Frame

Got EOT

Set WriteToFile Event

Upload File

Fail Setup

Disconnect

Connect

Listen to Comm Port

Create Thread to Read Comm Port

Connected

Create Communication thread

IDLE STATE

Read Frame

Data to Send

Wait a Random Timeout

Timeout

Disconnect Flag Set

Create Thread to Read Comm Port

Create WriteToFile Thread

Set Disconnect Flag

Random Wait

Sent ENQ

Wait For Line

Got ACK

SEND STATE

Send Frame

Wait For Response

Timeout

Sent Max Frames/ Out of Data

Resend

Timeout/NAK

Create Thread to Send EOT

Disconnect Flag Set

Die

Send EOT

Hit Max Resends

Resend Frame

Wait for Data

Disconnect Flag Set

Record Data

Write to File

Die

Send EOT

Disconnect Flag Set

Die