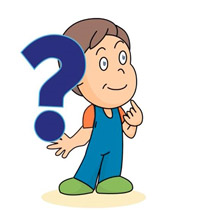
|  |  |
| --- | --- |
| **Group** 8 | Secure Communications Link |
| **Major:** | **Team members:** |
| CEG | Mason Mcdaniel |
| EE | Nicholas Michael |
| IT Cyber | Cade Wrinkle |
| IT Cyber | Chase Ennis |



**Design Assumptions**

Assumption 1: The Linux Server will have a sufficient number of available USB-A ports to connect all necessary peripheral devices.

Assumption 2: A functional server running a recent version of Linux with current drivers and sufficient available storage space for all necessary software and compilers will be provided.

Assumption 3: A functional Raspberry PI with up-to-date firmware and sufficient storage will be provided.

Assumption 4: If the transmission process is completed in 10 minutes or less, the imperial guards will not become suspicious.

Assumption 5: The room housing the server in the basement of the Wright State Russ Engineering Center will have a transparent glass window.

Assumption 6: The 10 death star images will be distinctly different than the other images.

* Distinctly different means that the 10 death star images will have a dark background with a solid image. No other images will have these properties.

Assumption 7: Both the sending side of the glass and the server side will have access to standard American power outlets.

Assumption 8: There will not be unusual interference or noise from other systems during the transferring of the images.

* Unusual interference or noise refers to activity that is abnormal to the standard daily operations of the Russ Engineering Center.

Assumption 9: The provided USB will contain only 100 1024x1024 8-bit-per-color-channel PNG images, 10 of which will contain known death star vulnerabilities demarcated by a red circle.