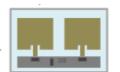
Design

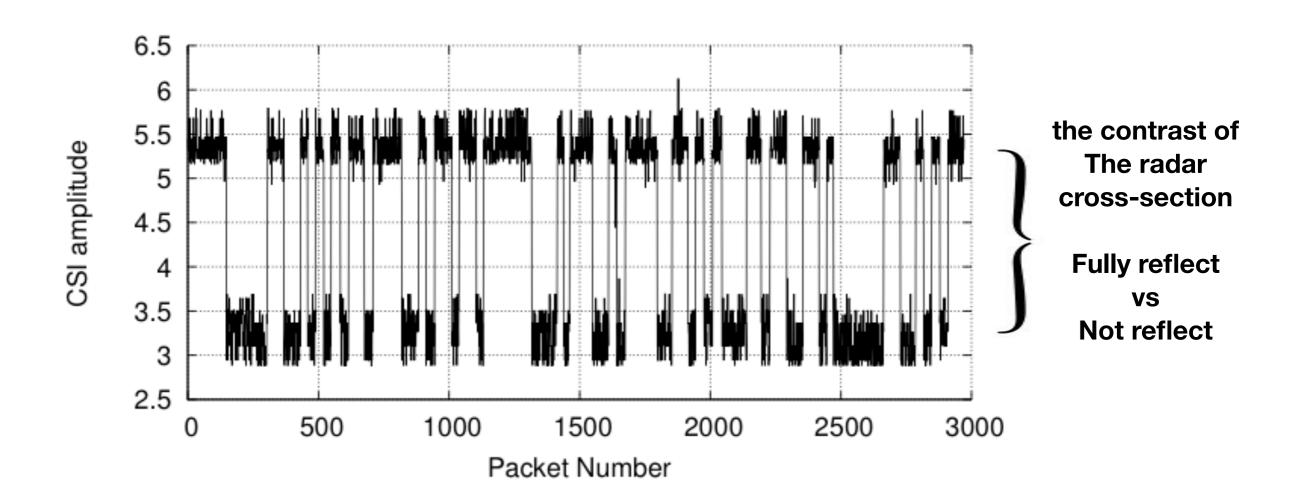




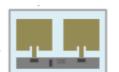
Uplink communication - from tag to reader

This is achieved by a low power switch that controls the antenna impedance

 Key idea: <u>change the amount</u> of signal that is reflected by the tag -> change the CSI -> code the info into CSI amplitude



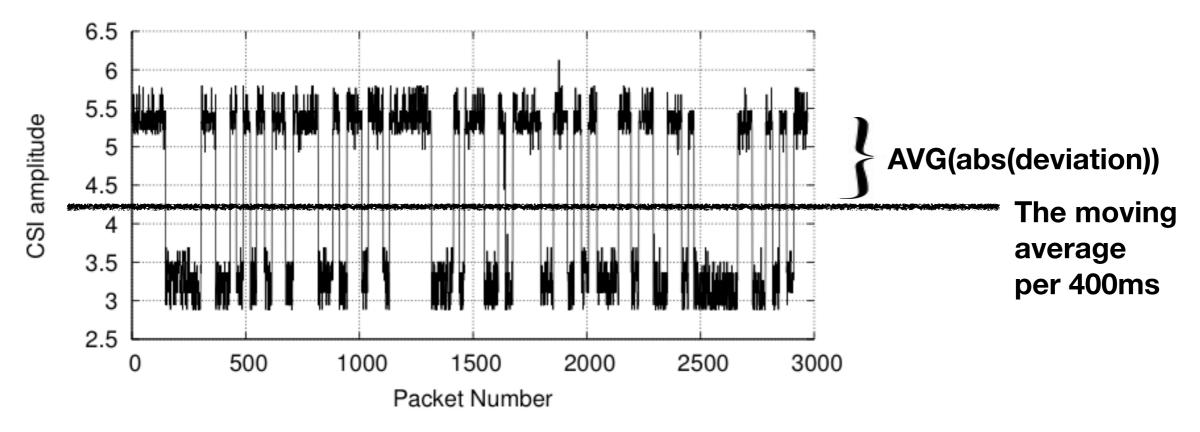
Design





Uplink communication - from tag to reader

- Then how the reader interprets those data coded inside of the CSI amplitude?
- Step 1: normalization (or Signal Conditioning in the paper)



normed_value = (CIS_measurement - the_moving_ave) / abs_dev_ave