
Project Details

Name: Speedway RFID Swimming Prototype
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Work Carried Out

Completed debugging of network issues with accessing the Impinj Speedway Revolution device and gained full access via the ethernet connection.

The device was initially connected to the network but could not be “seen” as there was no IP address being assigned to it.

After resetting the router subnet settings and assigning some manual IP settings on the local network, the Impinj device got picked up and its onboard DHCP functionality (which is enabled by default) assigned it a visible IP address.

Moved on to setting up the Impinj *ItemTest* application then. This is a PC based application so I set up a Windows laptop to be able to run this.

The main purpose of the *ItemTest* application is to configure and test the basic RF behaviour of Speedway device.

This *ItemTest* application contains many settings so spent some time going through the basic configurations that are possible on the device which provided some potentially useful insights for preliminary testing later.

E.g. Manually being able to open up or restrict antenna ports affects the processing speed of the reader or various Search Mode options can read the tags in different ways which can also affect the approach taken during processing.

Ran the first test of the device connected to an antenna searching for tags using the *ItemTest* application to check that the system was fully operational. This was successful and the tags were immediately picked up and an inventory of the reads provided through the application web interface.

Time spent preparing for the Covid-19 restrictions by acquiring extra equipment and ensuring set up to fully work remotely for the immediate future.

Known Blockers

Currently none

Next Steps

Gather any more details from the *ItemTest* application configurations that may prove useful during prototype development later.

Start the preliminary initial findings tasks.

Download and install the Octane SDK for later use.