

Innovation-06

1. Brief Name of the Innovation:

Smart Association Control for WiFi Network (WP1)

2. Contact Information

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3. What is the technology?

This technology control association between a client and Access Point (AP) of WiFi Network.

4. What does the technology do?

When there is a number of WiFi APs in range of a client then which AP should be chosen for association so that overall performance remains high is evaluated and accordingly association is done.

5. Explain the specific problem this technology has created to address or solve:

This technology is broadly about distributed resource allocation. Specifically, this technology determines which mobile device should associate with which AP so that overall performance of the network remains high.

6. Why is it better? How much better?

This association control protocol can associate more number of devices, handle mobility in much better way and exploits resources of APs in balanced manner. Throughput of overall network increases significantly beyond 100% load. In terms of fairness (exploiting resources of APs in balanced manner), our algorithm is 30% more fair beyond 100% load. In terms of throughput, our algorithm is 20% better than existing algorithm.

7. Have you filed for Intellectual Property (IP)?Have Patent Cooperation Treaty (PCT) applications filed?

No

8. What is the development stage of this innovation:

Completed

9. Have any prospective users or buyers shown interest in this technology?

No

10. Who do you consider competitors or competing technology?

Cisco

11. List the milestones remaining to be accomplished to bring your technology to full development and ready for the intended end-user?

We have completed the design and corresponding simulation. To make it ready for the end user code have to written which can execute in client and APs.

12. Broad Technical Specifications:

This is an association control protocol for WiFi network which can be integrated with 802.11 standards.

13. Diagram or Pictures if any:

None