

Increasing WiFi VoIP Call Capacity

Software optimization solutions that have to be deployed at the access-point and the mobile client that can significantly improve the VoIP call capacity

Georgia Tech inventors have developed software optimization solutions that have to be deployed at the access-point and the mobile client that can significantly improve the VoIP call capacity. Using both simulations and real-life prototypes inventors have validated their solutions. The solutions include frame aggregation, block acknowledgements, and intelligent rate adaptation.

Summary Bullets

- Supports many calls per access points

Solution Advantages

- Supports many calls per access points

Potential Commercial Applications

- Data communication and data protocols
- enabling VoIP over WiFi networks

Background and More Information

The move from wired networks to wireless networks such as those implemented by IEEE 802.11 (also known as “WiFi”) is becoming more and more common. At the same time, making telephone calls over the internet using a technology such as Voice over Internet Protocol (VoIP) is also growing in popularity. However, wireless networks that use conventional protocol suites often support an unexpectedly small number of calls, even when the bandwidth offered by the wireless network would suggest a larger number of calls.

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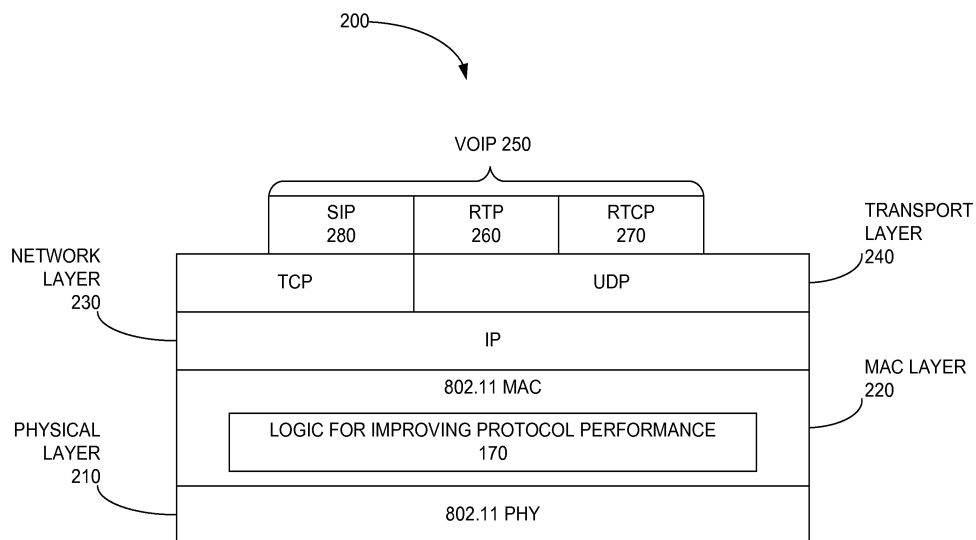
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Publications

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