在WLAN環境中以RTP附加資訊達到SIP平順換手的方法研究

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摘 要

無線通訊的首要工作，在如何解決移動式端點（Mobile Node，MN）與不同無線存取點（Acess Point，AP)間，進行換手（handover）動作，切換訊號的同時仍可維持語音傳送的穩定與品質。 Session Initation Protocol（SIP），是用來啟始、控制與結束網路中的語音會談協定，同時SIP Mobility機制，是用來達成SIP語音通話的移動性需求。但位於應用層的SIP機制，在不穩定的 WLAN環境中換手時，會因本身重傳機制產生使用者難以接受的延遲，進而造成語音通話的中斷。 本文提出的『改良式換手機制』，主要是透過語音通道建立後，點對點的即時傳輸協定（Real Time Transport Protocol，RTP）中的標頭延伸欄位（Header Extension field），來傳送交換訊息，並運用網際網路控制協定（Internet Control Message Protocol，ICMP）進行不同路徑間的往返時間（Round-Trip Time，RTT）偵測。利用該訊息準確估算最佳換手的時間點，藉此達成平順換手的需求。

關鍵詞 : 會議初始化協定 ; 改良式換手機制 ; 即時傳輸協定 ; 網際網路控制協定 ; 往返時間

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