WiMAX換手之預先認證機制研究

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摘 要

隨著無線通訊網?技術不斷發展及多樣化的應用，讓語音、影像等多媒體即時應用，在無線通訊中，持續?線時的傳輸品質變得很重要，如何改進換手機制，讓使用者感覺不到連線中斷，一直是熱門的主題，很多做法往往為了加速換手，而省略掉認證程序，藉此讓資料傳輸就能提早恢復，但在安全性上會有明顯漏洞。本?文針對IEEE802.16e無線網?的環境，提出一套改進的換手機制，稱為ARR（Anticipative Real-Time services Reviving），能夠大幅降低換手延遲對即時應用的影響。此研究讓即時應用不需等待到換手完成才能恢復通訊。並搭配上預先認證（Pr- Authentication，PA）的機制，在換手進行中不需做認證，故可加速完成換手程序，且也能保證在換手期間及換手完成後的安全性不受影響。藉由這兩個機制的結合（簡稱為PARR），來達成快速又安全的換手流程。

關鍵詞 : 換手、IEEE802.16e、WiMAX、PKMv2

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