

台灣學術網路 IPv6 建置概況

IPv6 Development at TANet

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(Received Feb. 2, 2012; Revised July 2, 2012; Accepted July 10, 2012)

摘要：因應 IPv4 位址可能面臨枯竭的危機，以及 IPv6 所帶來的新興技術，台灣學術網路自 2003 年起即推動相關的建置測試計畫，從 IPv4/IPv6 轉換機制的測試建置，骨幹網路 IPv4/IPv6 雙協定的啟用，大專校院的校園網路 IPv6 測試建置，縣市教育網路中心 IPv6 測試建置，到中小學校園網路 IPv6 的測試建置，完成一系列的 IPv6 網路測試建置計畫。更在 2009 年，配合新世代網路建置案，於 22 個縣市全面更新佈建新一代縣市教育網路，將支援 IPv6 列為基本要求，讓全國中小學的教師和學生，得以在校園輕鬆的連接 IPv6 網路，讓縣市教育網路進入全新的世代，之後在 2011 年開發以開放原始碼為基礎的雙協定網路流量監測系統，完成初步的 IPv6 網路系統基礎建置。

關鍵詞：台灣學術網路(TANet)、IPv6、VoIP。

Abstract: To deal with the exhaustion of IPv4 address space and to benefit from the new technologies of IPv6, a series of IPv6 trial projects have been deployed on TANet since 2003. These projects helped implement IPv4/IPv6 translation mechanism, enable IPv6 routing on TANet backbone, setup IPv6 network on campuses, deploy IPv6 on city education networks, and connect IPv6 network to junior and elementary schools. In 2009, conducted by the NGN project, all 22 city and county education networks are renewed, and all new networks support IPv6, such that teachers and students will be able to connect to IPv6 network easily in the new coming network era. Later in 2011, an open-source based IPv4/v6 dual stack network management system has been developed which completed the initial stage of TANet IPv6 network infrastructure development.

Keywords : TANet, IPv6, VoIP.