

Sunchai Nijvipakul 2014: DNSSEC Readiness of Thai ISPs. Master of Science (Computer Science), Major Field: Computer Science, Department of Computer Science. Thesis Advisor: Assistant Professor Sukumal Kitisin, Ph.D. 102 pages.

Domain Name Service is a core service to all services provided through the Internet. Because of the vulnerabilities of the DNS has been increasingly major concerned. Researchers had proposed an extension in order to add security and the identity validation to the conventional DNS called DNSSEC. Additionally, federal government of the US recognized the importance of DNSSEC; therefore, issued a policy that all domain names under gov domain must be modified to incorporate DNSSEC to their name servers by December of 2009. This has resulted in the DNSSEC adoption by the ISP worldwide. Therefore, our experiments were carried in order to survey on the availability DNSSEC service in Thai ISPs to ensure international standard security of the Internet usage. The experiments was done during March 2013 until November 2013 and it was found that four out of six ISPs are equipped with name servers supporting DNSSEC and the trends showed that the rests would continue to improve their service to support DNSSEC soon.

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Thesis Advisor's signature