Hathaithep Siritana 2010: A Study of Autonomous Systems Relationships within Thailand. Master of Science (Computer Science), Major Field: Computer Science, Department of Computer Science. Thesis Advisor: Assistant Professor Sukumal Kitisin, Ph.D. 73 pages.

The objective of this research is to produce the Internet topology and infer the type of relationships between the Autonomous Systems(AS) within Thailand. In the past, the Internet topology was produced by using connection data from Internet Service Provider(ISP). However, if ISPs didn't update connection data or didn't want to publish this data, the Internet topology couldn't be produced. Furthermore, there was no relationships information available between the ASs.

In this research, we examine AS Path in BGP routing table to produce Internet topology and infer the type of relationships between the ASs within Thailand. The result shows that, there are 208 provider-to-customer relationships, 13 sibling-to-sibling relationships and 10 peer-to-peer relationships that not need to use connection data from ISPs.

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