

## ABSTRACT

To increase the efficiency of the processes related to international trade, government sectors have adopted Electronic Data Interchange (EDI) into their operations. So the organizations that interchange messages with Thai Customs Department have to employ VANs' service to transmit messages to customs. However, the research on Value Added Network (VAN) in Thailand, and the suggestion in VAN selection is hardly to find.

Firstly, this thesis tries to obtain information about VANs' performance and EDI usage from existing EDI users by conducting a field survey. Valuable information about VANs' services and characteristics was attained from interviewing VAN.

Then, the paper attempts to identify criteria to be considered in VAN selection for business-to-government EDI transition organizations and proposes a framework for selecting VAN. The framework will try to filter VANs by providing list of VANs that are possible to meet users' restrictions or main requirements first, then list of possible VANs will be investigated about the performance of detailed factors in VAN selection. However, VAN with the highest performance score may not be the most suitable one, so the value indicating the significance of each factor according to company's perspective should be applied to framework to select the most suitable VAN with user's company.