

UNIVERSITI TEKNOLOGI MARA

**BANDWIDTH MONITORING USING WINDOWS
MANAGEMENT INSTRUMENTATION**

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ABSTRACT

Since computer has been built decade ago, today, computers are most likely connected through a network. As the result huge amount of computer and network source are linking together on the network. Therefore, network manager need to monitor the network to manage and maintain all the resources. This project was conducted generally to develop the monitoring tool that can monitor bandwidth usage, detect over-limit bandwidth usage and automated send a message to a user using Windows Management Instrumentation (WMI). In today situation, network is a part of lifestyle or business activity either in public or private. Therefore, to maintain network in available and reliable state is very important. There are many tools and program had been develop to monitor the network indirectly help network administrator jobs more easily and business company gain more profit. WMI is the infrastructure for management data on Windows-based operating system and WMI can supplies data such as operating system information and network information as long as the operating system is Windows-based. This project achieves the objectives and proof that WMI can be used to monitor the bandwidth usage in Local Area Network (LAN). This project may not as good as others but this project is a step to do better monitoring tools. There is much more to improve in this project.

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