



Final Year Project

Network Infrastructure Revamp

INTECH Process Automation

Submitted to: Mr. Imran Saleem

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School of Professional Advancement

سيرة النبي صلى الله عليه وسلم

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DECLARATION

Our project team NaveedRazzaq, FaizanAslam, Salman Saeed, Hafiz Sajid, UmairJaved, SaqibGulzar and UmairTanveer hereby declare that the study work entitled as “Name of the project” Submitted to “Project committee” is a record of practical work done by us under the supervision and guidance of “Khurram Khan, Head of MICT Program SPA, UMT”.

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ABSTRACT

Communication is a very critical component of a business success, especially in modern day era after the evolution of system integration approach to run business process efficiently. Communication and technology play a very vital role in the success of a business in today's world. Communication of a business depends heavily on its "Network". The project consist of two main parts "Assessing the current network while identifying errors and problems", and "Suggesting and implementing a solution in order to enhance network efficiency".

The first part was to analyze the network using "OPNET" as our tool, Identifying errors and problems in order to measure network efficiency. We also collected the historical data from company's log files to analyze the network in order to identify hurdles.

Our study was carried out practically so in the second part of our study we prepared a proposal and presented to the company's top management and IT staff. The proposal was accepted and we were blessed with an opportunity to implement our proposed solution on the company's network. We made changes in LAN by providing VLANs, DHCP snooping, allowing multicasting for the network and monitoring tools in order to analyze the traffic on the network and act appropriately in order to enhance the network efficiency. After the implementation we analyzed the network again the problems and errors were eradicated to quite an extent enhancing the network efficiency of "INTECH Process Automation " providing them the facilitation to run their process more efficiently.

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