

**CMOC SYSTEM ADMINISTRATION & MAINTENANCE
PROCEDURE PACKAGE FOR TELEKOM MALAYSIA AND
TRAFFIC DATA ANALYSIS**

**This thesis is presented in partial fulfillment of the requirement for the award of
The Bachelor Of Electrical Engineering (Honours)
UNIVERSITI TEKNOLOGI MARA**

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ACKNOWLEDGEMENTS

The author wishes to express her greatest appreciation to her supervisor Pn. Norasimah Khadri for her encouragement, patience, guidance and keen interest throughout in the completing this final project. The author also would like to thank Mr.Koh Tiong Sern for his keen interest, valuable helps and kindness in this work.

She also wishes to express her gratitude to the followings:

1. Pn. Zaharah Ali (Executive CMOC System. SOSS) for her permission to used CMOC System and knowledgeable guide of the CMOC system
2. Mr. Murty Sinniah for the cooperation and valuable help on testing part
3. Mr. Mad Siam Mansor for the kind assistance in this work and study in theoretical in traffic data analysis

Finally, her owes very much to her family, especially her husband, Mr. Mat Ropi Mukhtar and her two kids, Mohd Haiqal Aiman and Nurdalila for understanding the sacrifices required in completing this course and thesis.

Also for her mother, her father in-law and her mother in-law for their support and constant encouragement throughout the study.

ABSTRACT

This project thesis deals with the Concept of Centralized Operation and Maintenance and this is made possible with the existence of computerized exchanges where the self-diagnostic capability is available in the digital switching system. This concept has changed the conventional preventive and corrective maintenance method to a controlled maintenance method.

CMOC system administration and Maintenance procedure for Telekom Malaysia was developed as a guideline for users to use the system effectively. This was done using Visual Basic program.

The traffic data which abstracted from FETEX-150 Exchange by using CMOC station was analysed using Microsoft Excel program.

Hopefully all information discussed, will give some basic knowledge on this Centralisation on switching Network for Telekom Malaysia.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

The Centralised Operation and maintenance Centre (CMOC) provides remote maintenance, testing, operation and administrations facilities .The CMOC system operates with several functions for each “exchange” remotely from the System Control Workstation (SCWS) at the CMOC Host, through PCM links between the CMOC and those”exchanges”. The Centralised Maintenance and Operations Centre (CMOC) uses CCITT No.7 to manage a whole network from one place.

In general, with the use of controlled maintenance principle on the digital, analogue and mixed network, maintenance action can be done easily based on the information received from the auxiliary supervisory system. Centralised Operation and Maintenance is the best method to optimise the spare resources for small network.

The automated maintenance and operation characteristics and the high reliability of SPC digital-switching systems have realised minimised of maintenance and operation work. However, when the number of exchanges is increased considerably, a centralised maintenance and operation facilities are demanded to modernise and to minimise expenses for the maintenance and operation work.

1.2 CMOC Functions and Features

CMOC system provides: -

- **Remote Operation and Maintenance**
 1. Message monitoring