ABSTRACT

The central device in the GSM network very important, which control the process of switching between base stations one with another so that there is need for a monitoring system to determine the central performance. The monitoring system will develop a GUI-based application that can be controled by computer or notebook and their were required saved data and server procesed.

The design of the monitoring application consists of three stage are creation, storage and application. A creation stage is a process to transformation of ideas into knowledge with result an application, which can help improve the performance of the network device. The creation is activities had be brainstorming by users in the meeting room, which result to exchange information and produce work of an application with the output of network performance monitoring applications MSC and MSS.

A storage stage is process for saving traffic data, load percent and load of CPU to had stored in the netmon server. Strorage had two important processes that connect between the server netmon with OSS, which integrated with PHP programming and data processing. The last stage is the application which is an application process which plan for display applications, menus and output performance with form in real time graphs. The netmon application has several features along alarm and email, which to send employees CNVD. Email report is determine the network performance reports every day that send automatically by the server through scheduling. The alarm is a warning before a disturbance in the device that via short message or a SMS Gateway with a minimum standard device by mutual agreement.

Keyword : Netmon application, Creation, Storage, Application, and Performance