ABSTRACT

Now messaging technology is reach to Multimedia Messaging Service (MMS) Technology. MMS Technology is bringing much functionality, with rich application we can send data like picture, text, sound, or video. With MMS we get more expression about the message than message that has lower level than MMS (like SMS or EMS). In Indonesia, MMS technology have implemented on Global System for Mobile Communication (GSM) with General Packet Radio Service (GPRS) for Data Transfer.

In Indonesia, a big of people like uses a PSTN phone in their home. With that reason, TELKOMRiSTI (VAS laboratory) as division research and development VAS on PSTN, have to plan developing an MMS system that can be implemented on PSTN Network this product is called TELKOMMMS. With existing PSTN network, Transfer Data can be implementing with Modem connection with Dial-in RAS Modem. With that functionality, the MMS system need important part is Called Multimedia Messaging Service Center (MMSC), those have function to receive the MM from sender, and follow the message to the concerned recipient. The aim of this research is make an prototype of MMSC and doing analysis about MM1 performance that a reference point between MMS Client (sender and recipient MM) and MMSC. This MMSC is Work in TCP/IP protocol, and use HTTP application. Then this MMSC will be made with a web server technology, and use PHP programming language. MM1 is can transmit a Multimedia Message (MM) with validation percentage is 100 % for both MM Submission and MM Retrieval. In modem result test, bit rate that have been transmit are lower than bit rate response that gave by modem. The result test for bit rate is reaching 5.12 Kbps and bit rate response from modem is 9.6 Kbps.

Keyword : MMS (Multimedia Messaging Services), MMSC (Multimedia Messaging Services Center), MM (Multimedia Message), PDU (Protocol Data Unit), HTTP (Hyper Text Transfer Protocol), Client Transaction, TELKOMMMS.

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