Abstract

Significant developments in the field of telecommunication technology to give good impact to the development of Next Generation Network that its development is one of the IP Multimedia Subsystem. Development of IMS technology provides a new variation in cellular service technology for messaging services, voice or multimedia.

IMS technology developments require a charging mechanism that is reliable, one of which is the Online Charging that the final project will be implemented.

Online charging is implemented in this final task will be analyzed based on the *session setup delay* and the accuracy of the duration of service provision against the value of credits granted to the *user*. At the end of this task will be run two main scenarios that would generate the two data *session setup delay*, and the accuracy of the duration of the service. Online charging is implemented will be run on IPTV services in IMS networks.

Tools that are used as a *server* are OpenIMSCore UCT IMS, IPTV AS UCT and UCT as a *user* application *server* as OCS online charging applications.

After running a scenario, the *session setup delay* was noted that the *server* which implements charging memilikin the *session setup delay* longer than the 0.172s that did not implement. For the charging *delay* accuracy average is ±103% for the all scenarios that has been tested.

Keyword: IMS, *Online charging,* IPTV.