Learning Management System (LMS) is an application of e-learning designed to process delivery, tracking, reporting and managing to items content e-learning. E-learning can bridge the learning system inter-educational institutions. In order each LMS has the same content, must to do synchronization system. Synchronization function to update content between LMS. Because educational institutions in Indonesia spread in every region, resulted in teething problems the distances between educational institutions. To overcome these distances, the LMS technology can be integrated using GPRS and HSDPA networks.

Network parameters used in this implementation are the throughput, packet loss, and time synchronization. From the results obtained that the implementation of synchronization using the HSDPA network is better than using the GPRS network. From the results of data synchronization by using the HSDPA network, obtained throughput with HSDPA network is more stable than the throughput using with the GPRS network. From the duration taken during the synchronization, HSDPA is faster than GPRS. To do the synchronization for 200 KB, HSDPA spends 105.82 seconds and GPRS spends 133.56 seconds.

Keywords: Learning Management System, Sinkronisasi Uni-directional, HSDPA, GPRS
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