

Analisis tekno ekonomi penerapan evolved multi broadcast multicast system (EMBMS) di Indonesia = Techno economic analysis of (EMBMS) implementation in Indonesia

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Abstrak

[ABSTRAK

Dengan meningkatnya trend konsumsi penggunaan layanan data di Indonesia kedepan, Evolved Multi Broadcast Multicast Services (eMBMS) menjadi sebuah solusi praktis untuk mengurangi traffic dan membuat penggunaan spektrum menjadi lebih efisien. Penerapan layanan eMBMS ini terintegrasi dengan Enhanced Packet Core - LTE advanced pada Single Frequency Network (MBSFN) sehingga lebih mudah untuk dilakukan. Hasil dari penerapan eMBMS ini akan diprediksikan menjadi suatu bentuk model bisnis baru bagi operator dan diharapkan dapat meningkatkan revenue bagi operator akan dikaji dalam thesis ini. Analisis ekonomi menghasilkan bahwa penerapan layanan eMBMS ini layak untuk dilakukan karena Nilai NPV > 0 (Rp. 533 milyar) dan nilai IRR (14.79%) > MARR (12%) dengan payback periode selama 3.7 tahun.

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ABSTRACT

With the future trend of increasing consumption in the data services in Indonesia. Evolved Multi Broadcast Multicast Services (eMBMS) will be a practical solution to reduce traffic and make more efficient use of spectrum. Implementation of EMBMS services is integrated within LTE advanced ? Enhanced Packet Core Enhanced over Single Frequency Network (MBSFN. In this thesis, the results of the implementation eMBMS solution is predicted that operator telecommunication in Indonesia has a new business models and expected to generate new source of revenue for operator. Based on economical analysis, the implementation of eMBMS services is feasible due to the NPV > 0 (Rp. 533 million) and IRR (14.79%) > MARR (12%) with 3.7 year payback period;With the future trend of increasing consumption in the data services in Indonesia.

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