

Analyzing Essential Patents of Mobile Communication Based on Patent Portfolio: Case Study of Long Term Evolution-Advanced

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Abstract : In the past, cross-licensing was made up of various application or commercial patents. Today, cross-licensing is restricted to essential patents, which has emphasized their importance significantly. Literature has shown that patent portfolio provides information for patent protection or strategy decision-making, but little empirical research has found strategic tool of essential patents. This paper will highlight four types of essential patent portfolio and analysis about each strategy in the field of LTE-A. Specifically we collected essential patents of mobile communication company through ETSI (European Telecommunication Standards Institute) and build-up portfolio activity, concentration, diversity, and quality. Using these portfolios, we can understand each company's strategic character about the technology of LTE-A and comparison analysis of financial results. Essential patents portfolio displays a mobile communication company's strategy and its strategy's impact on the performance of a company.

Keywords : essential patent, portfolio, patent portfolio, essential patent portfolio

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