

Scenario-Oriented Parameters Optimization and Configuration Methods and Processes in TD-LTE

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Abstract—TD-LTE technology put up some new challenge to network optimization and configuration. In this paper, we grouped the parameters and KPIs(Key Performance Index) into 9 kind of dimensions according to scenarios in TD-LTE, they are basic information of RAN, basic physical/logical resources allocated to network elements, time interval/event scenarios, geographical scenarios, users' mobility, service models, RF propagation models, relevant parameters KPIS individually. We designed a match algorithm to manage the parameters and KPIs. Classification of the parameters and KPIS can facilitated the work of optimization of the TD-LTE, and match function can efficiently accelerate the planning process of new TD-LTE network or new basestations. At last, we developed a platform to implement the algorithm and other functions.

Keyword—TD-LTE, parameter optimazation , parameter configuration, scenario-oriented



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