MODEL BASED APPLICATION LEVEL MIDDLEWARE FOR DESIGN OF WIRELESS SMART CITY

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Submitted: Feb.12, 2013 ***Accepted: May 7, 2013*** ***Published: June 5, 2013***

Abstract- The Wireless Smart City (WSC), an emerging concept in Smart Grid and Internet of Things, has attracted an increasing number of customers and developers - based with its promise of low cost implementation and flexibility. At the same time, the challenges faced with in the field applications hinder the progress of WSC from researches into commercial production. A model based application level auxiliary platform is presented to help the development of WSC. This middleware together with the existing network simulators replace field test during WSC design. The proposed platform reduces engineering cost and increases development efficiency. Network optimization is implemented to provide an automatic design of WSC.

Index terms: Smart City, Performance Evaluation, Optimal Deployment, Simulated Annealing, Wireless Sensor Network