**An Analysis of Simulators for Vehicular Ad hoc Networks**

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**Abstract:** Proper selection of a simulator for VANETs is a serious task. Due consideration has to be given to

the requirements for modeling the behaviour of networking protocols and mobility of vehicles. Both macro and

micro aspects are important for evaluation of the traffic behaviour. Macro aspects are road conditions and

infrastructure, while micro aspects constitute individual behaviour such as driving speed etc. Simulation

software tools for VANETs differ in their features and capabilities. This paper presents a comprehensive

analysis of currently available networking and traffic simulators for VANETs including interaction between the

two. In particular it compares their software features, availability of different options, graphical user interface,

ease of use, accuracy, enhancement capability etc. Different VANET simulators which are combination of the

two simulators are also compared. This paper will help potential researchers in the field of VANETs in the

selection of simulation software tools.

**Key words:** Simulation IEEE 802.11p Ad hoc Networks Mobile Wireless