

A Systematic Literature Review on routing environment

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Abstract : One of the important areas of a network programming system is known as VANET and MANET. The network factor plays an important part in the process of performance evaluation. The network which is Ad-Hoc Network is affected by different factors & also by the protocols, an effort is made by perspective of performance for identification of the variety of factors which are involved and also the probable likely impact is observed on the difference parameters of performance & works, one of the key network taken for assessment of performance is termed as VANET, the work conducted here is identification protocol qualification by inspect indemnity we also go through different methods of communication between road traffic simulator & simulator NS3 It also establish a type of resulting feedback loop between the ends, finally in a sequential manner. We conduct a review on coordination protocol for combining the traffic simulation.

IndexTerms - VANET, MANET, Network Programming System, simulator.

I. INTRODUCTION

While effecting for real life transportation problems as in case such as accidents, jams, consumption of fuel, emission of pollutions in environment the concept of (VANET) vehicular Ad-Hoc Network have raised in research field, as with the advent of technology mobile, e-communication series (MANETS), global positioning system and various sensor technology works for development of innovative vehicle to vehicle (V2V) service application, a big potential for the improvement in safety measures in the work. The main factor for the working of VANET, in problem solving is designed and developed with routing protocols but it had been felt as an internet feature of vehicular environment a traditional routing protocol i.e. MANET could not be imposed by used in VANET & also it cannot be applied, In the last few years various routing protocols have been used for VANET which are considered and the distinctive features are objected for routing data between the road side nodes & vehicular nodes [4]. The main objective of routing in VANET is transmitting of data, facts, information from one source to i.e. single source to single destination by using amalgamation of wireless multi hop and proceed with forwarding methods [18]. Hence, by evaluating the performance and work of protocols is quite challenging also simulation in computer are preferred more preferable method for achieving performance in VANET program.

II RELATED WORK

Beside the availability in knowledge the community should adopt an approach which can enable in realistic performance method of evaluation, a majority of the given amount of protocol combined to give routing of data for a variety of applications for urban vehicular environment [5, 4]. However the approaches rationally followed at the time of evaluation there are a variety of research studies which evaluate proposed protocol in absence of realistic vehicle mobility [9]. According to Alheeti et al. Routing of traffic is most important and also we focused about its security. Particularly, A various experts have highlighted the works for evaluate the pro-posed approaches, methods and special routing protocol in the absence of realistic vehicle topologies are presented below in table 1. Table 2 provide the justification of routing protocols by various researchers.

Table 1 A Systematic Review of VANET Consider by various experts.

EXPERT	YEAR	CONTRIBUTION
Joilson Alves Junio et.al. [8]	2018	Highlighted the characteristics of routing protocol
K. N. Quershi et. al. [9]	2017	Road perception based geographical routing protocol for vehicular ad hoc networks
U. Rajput et. al. [2]	2016	Highlighted the authentication Protocol for VANET
G. Sallam et. al. [1]	2015	Empirical determination of channel characteristics for DSRC vehicle to communication
J. Alves Junior et. al.[10]	2015	VANET Based Routing Environment
Ammar Odeh et. al. [3]	2012	Performance Comparison of protocol
G.Vijaya Kumar et.al. [4]	2010	Research Work on Routing Protocols for MANET
Zhan Haawei et. al. [6]	2008	Comparison analysis AODV and OLSR
C. Siva Ram Murthy et. al. [5]	2004	Work on Ad hoc Wireless Networks Architecture and Protocols
Charles Perkins et. al. [7]	2003	Ad hoc on demand distance vector (AODV) routing

Table 2 A highlighted the effected protocol by various experts

EXPERT	ROUTING PROTOCOLS				
	AODV	OLSR	DSR	DSDV	GRS
G. Liu et.al. [11]	√	√	√	√	
L. Liu et. al. [12]	√	√		√	
J. Burgess et. al. [13]	√		√	√	√
S. Ahmed et. al. [14]		√			√
J. Zhao et. al.[15]	√	√	√	√	
G. Korkmaz et. al. [16]	√		√	√	√
E. Bommaiah et.al. [17]	√	√	√	√	√
Shakkeera et. al. [18]	√		√	√	
U. Rajput et. al. [19]		√		√	√

III VANET ENVIRONMENT

This research paper put an eye on investigation of responsive, proactive & position routing protocols. The cluster based protocols provides bundle of conveyance proportion & bandwidth. The responsive protocol illustrates a few likenesses conveyance proportion for e.g. parcel conveyance proportion the average end to end defer and the bandwidth which is based on speed of vehicle and a variety vehicles which are cluster based type of routing protocol in a VANET which extracts the data which is helpful for various other purposes also VANET are shown in figures 1 and 2. Using NS3 with table 2 for evaluation of performances of different type of protocols after proper completion of some important critical observations are extracted further, If we enhance the performance of various VANET module surely it support to evaluation of network system and helps in building various modules.

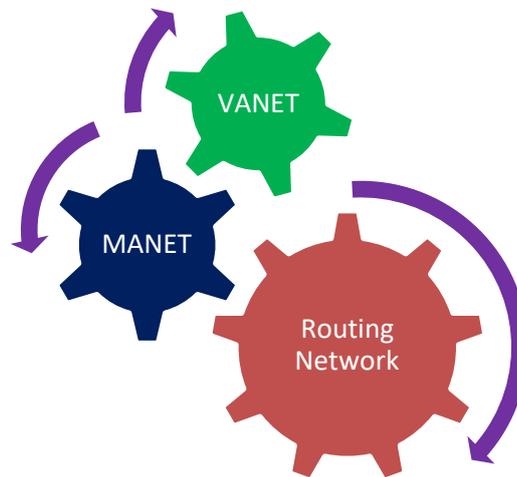


Fig1 Routing network environment

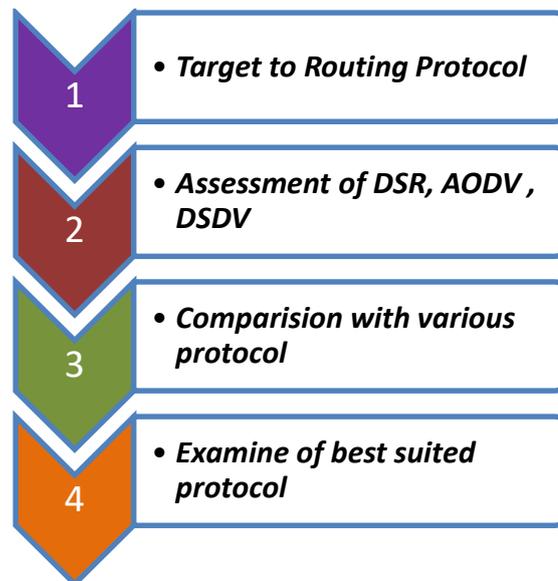


Fig 2 Step for evaluation process

IV CONCLUSION

Various approaches are given in the literature for supporting VANET environment. The survey shows the maximum efforts done of researcher for VANET communication. The presence of VANET with the description is helpful in evaluation of performance evaluation analysis, from above explanation we observed that VANET is important association with simulation routing which attempts for predicting the enhancing of property of protocol & further requirement for VANET environment.

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