

## Survey of Washington Vehicle Infrastructure Integration (VII) Related Testbed Activities

	Research/Project Title & Description	Sponsoring Organization/ Researchers	Point of Contact	Key Applications	Communications Media	Time Frame	Status (current/ planned)	VII Arch. & Stds. Compliance	Assessment: Relevance to VII Program
21	<p><b>Investigation of Communications Considerations in the Simulation of VII-Enabled Applications:</b></p> <ul style="list-style-type: none"> <li>- Develop and evaluate cooperative control strategies, with a focus on cooperative control strategies for route guidance and signal timing</li> <li>- A crucial component of this analysis is the underlying communications architecture that will support these cooperative control systems. The wireless network is a hybrid ad hoc network, with combinations of vehicle to roadside and vehicle to vehicle networking. The ultimate success of the cooperative control systems rests on the ability of this complex wireless network to deliver the needed data with low latency.</li> </ul>	<p>The Center for Intelligent Systems Research (CISR) of the George Washington University, the University of Virginia (UVA), and Scalable Networks Technologies, Inc. Earmark</p>	<p>Azim Eskandarian, George Washington University 703-726-8362 Cathy McGhee, Program Manager, VDOT (434) 293-1973 Brian Smith, Associate Professor, UVA (434) 243-8585 Jeremy Blum, Penn State</p>	<p>ITS Applications: Traveler Information Arterial Management</p> <p>Day 1 Applications: Traveler information Corridor Management</p>	DSRC Simulation	5/2007 thru 10/2008	Qualnet has been modified to 802.11p Developing interface with Aimsum	Based on VII Arch. & stds. (IEEE 802.11p) Willing to implement additional standards	<p>VII Simulation</p> <p>Some overlap with UVA NSF work</p> <p>Taking advantage of the other UVA VII work noted in this spreadsheet</p>