

## Product Capabilities Questionnaire for Device and Test Equipment Providers

Date: \_\_\_\_\_ Contact: \_\_\_\_\_ Email: \_\_\_\_\_

Manufacturer Name: \_\_\_\_\_ Model Number: \_\_\_\_\_ Software Version: \_\_\_\_\_

### Complete Separate Form for each Product Type

1	What is the <b>product type</b> ?	<input type="checkbox"/> RSU	<input type="checkbox"/> OBU (Integrated) <input type="checkbox"/> OBU (Aftermarket)	<input type="checkbox"/> Test Tool	<input type="checkbox"/> Other _____
2	What environment is the product being applied?	<input type="checkbox"/> Connected Vehicle	<input type="checkbox"/> Transportation (not Safety) / Smart City	<input type="checkbox"/> Communications	<input type="checkbox"/> Other _____
3	What is the <b>radio protocol</b> used in V2X communications?	<input type="checkbox"/> 802.11p / DSRC	<input type="checkbox"/> 4G/LTE <input type="checkbox"/> 5G Automotive	<input type="checkbox"/> Satellite	<input type="checkbox"/> Other _____
4	<b>Where</b> will the product be used?	<input type="checkbox"/> United States	<input type="checkbox"/> Canada <input type="checkbox"/> Mexico	<input type="checkbox"/> Europe (ETSI)	<input type="checkbox"/> Asia / Japan
5	Does the product have <b>radio regulatory compliance</b> ?	<input type="checkbox"/> FCC Part 95/IC RSS ##	<input type="checkbox"/> FCC Part 90/IC RSS ## <input type="checkbox"/> FCC Part 15B	<input type="checkbox"/> ETSI	<input type="checkbox"/> Other _____
6	Does the product have <b>safety compliance</b> ?	<input type="checkbox"/> Vehicle	<input type="checkbox"/> Outdoor	<input type="checkbox"/> Specification _____	<input type="checkbox"/> Other _____
7	How many <b>physical radios</b> and which channel <b>modes</b> supported?	<input type="checkbox"/> One Only	<input type="checkbox"/> Two <input type="checkbox"/> Specify if >2 _____	<input type="checkbox"/> Continuous mode	<input type="checkbox"/> Alternating mode
8	What are the <b>external communication</b> interfaces?	<input type="checkbox"/> Wired USB	<input type="checkbox"/> Wired Ethernet <input type="checkbox"/> CAN I/F	<input type="checkbox"/> Bluetooth	<input type="checkbox"/> Wi-Fi / <input type="checkbox"/> 4G LTE
9	What are the <b>antenna port</b> interfaces?	<input type="checkbox"/> GPS-DSRC Integrated	<input type="checkbox"/> GPS - <input type="checkbox"/> Fakra <input type="checkbox"/> SMA <input type="checkbox"/> N-Type	<input type="checkbox"/> DSRC - Fakra	<input type="checkbox"/> DSRC - <input type="checkbox"/> SMA <input type="checkbox"/> N-Type
9A	What are device <b>power requirements</b> ?	<input type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> PoE	<input type="checkbox"/> Vnom <input type="checkbox"/> Vmin <input type="checkbox"/> Vmax	Current _____ mA	<input type="checkbox"/> Cold Boot <input type="checkbox"/> Warm Boot
9B	Device weight & dimensions	Weight in ___ g	L x W x H (cm) _____ X _____ X _____		
10	If <b>OBU</b> , <b>implementation</b> type is?	<input type="checkbox"/> Embedded	<input type="checkbox"/> Aftermarket	<input type="checkbox"/> OEM Add-on	
11	If <b>RSU</b> , <b>installation</b> type is?	<input type="checkbox"/> Networked	<input type="checkbox"/> Standalone	<input type="checkbox"/> Master/Client	<input type="checkbox"/> Other _____
12	If Test Tool, what is the <b>DSRC radio interface</b> being used?	<input type="checkbox"/> External device	<input type="checkbox"/> Built-in radio interface		
13	Does device support WAVE Short Messages ( <b>WSM</b> )?	<input type="checkbox"/> Transmit	<input type="checkbox"/> Receive	<input type="checkbox"/> Both	
14	Does device support WAVE Service Advertisement ( <b>WSA</b> ) Messages?	<input type="checkbox"/> Transmit	<input type="checkbox"/> Receive	<input type="checkbox"/> Both	
15	Does device support <b>IPv6</b> from <b>WSA/WRA</b> ?	<input type="checkbox"/> Transmit	<input type="checkbox"/> Receive	<input type="checkbox"/> Both	
16	Does device use <b>1609.2 security headers</b> for message types?	<input type="checkbox"/> Unsecured	<input type="checkbox"/> Signed	<input type="checkbox"/> Encrypted	
17	Which <b>Security Certificates</b> will the device use during testing?	<input type="checkbox"/> Plugfest	<input type="checkbox"/> CAMP QA	<input type="checkbox"/> USDOT Production	<input type="checkbox"/> SSPs
18	Does device Interfaces with <b>SCMS</b> to obtain or refresh <b>Security Credentials</b> ?	<input type="checkbox"/> CAMP	<input type="checkbox"/> Green Hills	<input type="checkbox"/> None	
19	Device Supports <b>Test Control Interface (TCI)</b> Standard?	<input type="checkbox"/> 802.11	<input type="checkbox"/> 1609	<input type="checkbox"/> J2945/1	<input type="checkbox"/> None
	<b>Message Types</b>				
20	Does device support <b>BSM</b> messages defined in <b>SAE J2735</b> ?	<input type="checkbox"/> Transmit	<input type="checkbox"/> Receive	<input type="checkbox"/> Both	<input type="checkbox"/> None
21	Does device support <b>BSM</b> requirement defined in <b>SAE J2945/1</b> ?	<input type="checkbox"/> Transmit	<input type="checkbox"/> Receive	<input type="checkbox"/> Both	<input type="checkbox"/> None
22	Does device support <b>MAP</b> messages defined in <b>SAE J2735</b> ?	<input type="checkbox"/> Transmit	<input type="checkbox"/> Receive	<input type="checkbox"/> Both	<input type="checkbox"/> None
23	Does device support <b>RTCM</b> messages defined in <b>SAE J2735</b> ?	<input type="checkbox"/> Transmit	<input type="checkbox"/> Receive	<input type="checkbox"/> Both	<input type="checkbox"/> None
24	Does device support <b>SPAT</b> messages defined in <b>SAE J2735</b> ?	<input type="checkbox"/> Transmit	<input type="checkbox"/> Receive	<input type="checkbox"/> Both	<input type="checkbox"/> None
25	Does device support <b>TIM</b> messages defined in <b>SAE J2735</b> ?	<input type="checkbox"/> Transmit	<input type="checkbox"/> Receive	<input type="checkbox"/> Both	<input type="checkbox"/> None
	<b>Standards</b>				
26	Device supports IEEE <b>802.11:2012 (802.11p)</b> ?	Power Max ___ dBm	Power Min ___ dBm <input type="checkbox"/> 10 MHz Channels	<input type="checkbox"/> 20 MHz Channels	<input type="checkbox"/> Data Rates (all)
27	Device supports IEEE <b>802.11:2012 (802.11p)</b> regarding <b>Frequency Mask</b> ?	<input type="checkbox"/> Mask C (required)	<input type="checkbox"/> Mask A	<input type="checkbox"/> Mask B	<input type="checkbox"/> Mask D
28	Device supports IEEE <b>1609.2:2016</b> WSM message signatures?	<input type="checkbox"/> Certificate	<input type="checkbox"/> Digest	<input type="checkbox"/> Both	
29	Device supports IEEE <b>1609.2:2016</b> Security Profiles?	<input type="checkbox"/> BSM	<input type="checkbox"/> WSA <input type="checkbox"/> MAP/SPaT	<input type="checkbox"/> RTCM <input type="checkbox"/> TIM	<input type="checkbox"/> Other _____
30	Device Supports IEEE <b>1609.3:2016</b> ?	<input type="checkbox"/> WSM	<input type="checkbox"/> WSA	<input type="checkbox"/> IPv6	<input type="checkbox"/> All
31	Device Supports IEEE <b>1609.4:2016</b> ?	<input type="checkbox"/> Continuous	<input type="checkbox"/> Alternating	<input type="checkbox"/> User Priorities	<input type="checkbox"/> EDCA
32	Device Supports IEEE <b>1609.12:2016</b> ?	<input type="checkbox"/> PSID Sizes (1-2)	<input type="checkbox"/> PSID Sizes (3-4)	<input type="checkbox"/> p-encoding	
33	Device Supports SAE <b>J2735:201603</b> ?	<input type="checkbox"/> BSM	<input type="checkbox"/> MAP <input type="checkbox"/> SPaT	<input type="checkbox"/> RTCM <input type="checkbox"/> TIM	<input type="checkbox"/> Other _____
34	Device Supports SAE <b>J2945</b> ?	<input type="checkbox"/> BSM	<input type="checkbox"/> MAP <input type="checkbox"/> SPaT	<input type="checkbox"/> RTCM <input type="checkbox"/> TIM	<input type="checkbox"/> Other _____
35	Device Supports RSU <b>4.1v5</b> Specification	<input type="checkbox"/> Store & Forward	<input type="checkbox"/> Immediate Forward	<input type="checkbox"/> SNMP Management	<input type="checkbox"/> HSM Security

Please return questionnaire to: **Randy Roebuck** [rdroebuck@omniair.org](mailto:rdroebuck@omniair.org)