

BMW STATEMENT

VGI WORKING GROUP CPUC

July 24th 2017

**BMW
GROUP**



Rolls-Royce
Motor Cars Limited

BMW STATEMENT

POSITION

1

The Commission should direct VGI programs to be implemented now, rather than waiting until utility infrastructure is available.

2

Any communication pathway may be used to provide VGI and no hardware requirements should be made of vehicles.

3

With regards to utility-owned public and workplace infrastructure investments, the EVSE shall offer the ISO 15118 protocol to support communication from the EVSE to the EV.

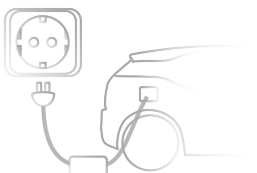
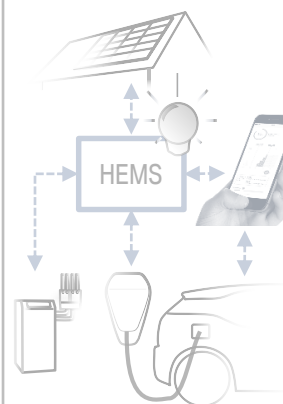

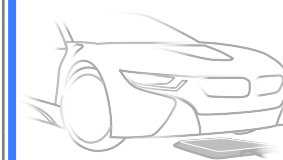
4

Optionally, the EV may use ISO 15118 as the communication path to the EVSE.

5

The telematics communication pathway should not be discriminated against relative to any other communication pathway.

RANGE OF CUSTOMER CHARGING USE CASES.

Use Case	Basis/Emergency Charging	Home Charging w/ HEMS and Wallbox	Home Charging w/ VGI	Fleet Charging (e.g. Parking Lot)	Public Charging	Fast Charging > 50 kW	Inductive Charging
Customer's Intention	– Basic Charging	– EV integration into a smart system	– VGI	– Billing – PnC	– Billing – PnC	– Billing – PnC	– Charging (VGI) – PnC
				Focus of the VGI working group			
Today's communication channel	None	IEC 61851	IEC 61851 Telematics	IEC 61851	IEC 61851	ISO 15118	WLAN proprietary messag. ISO 15118
Future communication channel EVSE → EV	None	ISO 15118	ISO 15118 Telematics	ISO 15118 (IEC 61851)	ISO 15118 (IEC 61851)	ISO 15118	ISO 15118

BACK UP

ISO 15118 – ENABLES NEW OPPORTUNITIES.

