



OCPP - CHAdeMO Sequence Diagrams

v0.1, 2020-10-23

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Relevant for:

- OCPP version: 1.6 and 2.0.1.
- CHAdeMO version: 1.1 and 2.0.1

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Version History

VERSION	DATE	AUTHOR	DESCRIPTION	
0.1	2020-10-23	Milan Jansen OCA	Draft version	

1. OCCPP 2.0.1

1.1. Start charging session

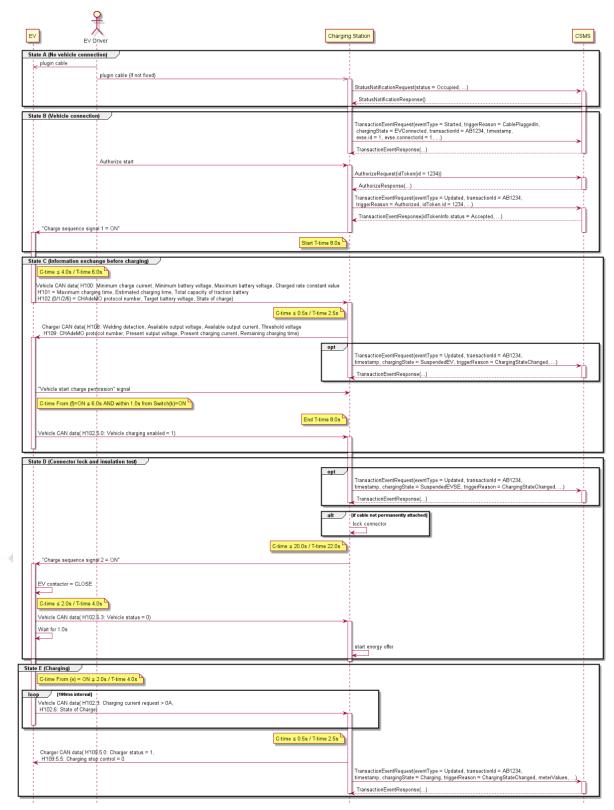


Figure 1. Sequence diagram: Start charging session

1.2. Stop by Charging Station

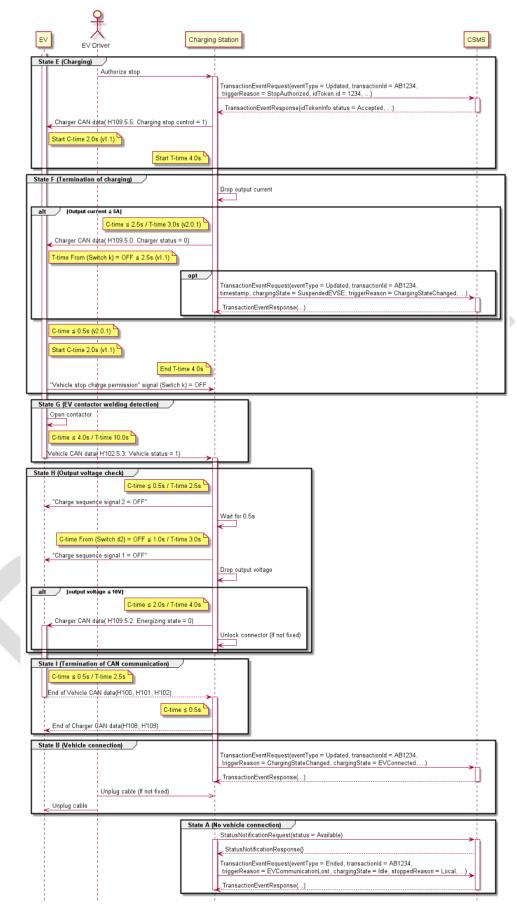


Figure 2. Sequence diagram: Stop by Charging Station

1.3. Stop by Charging Station (abnormal)

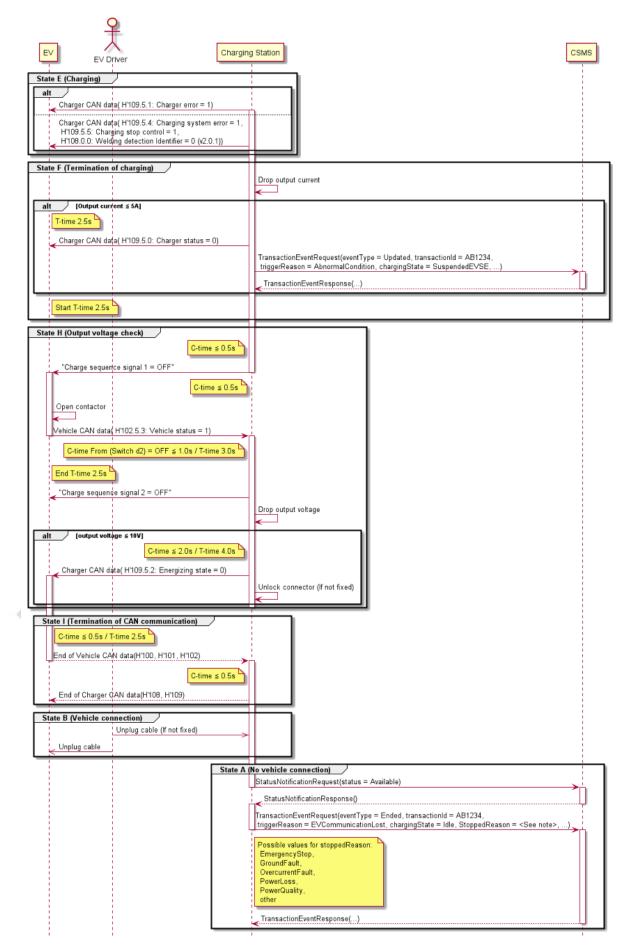


Figure 3. Sequence diagram: Stop by Charging Station (abnormal)

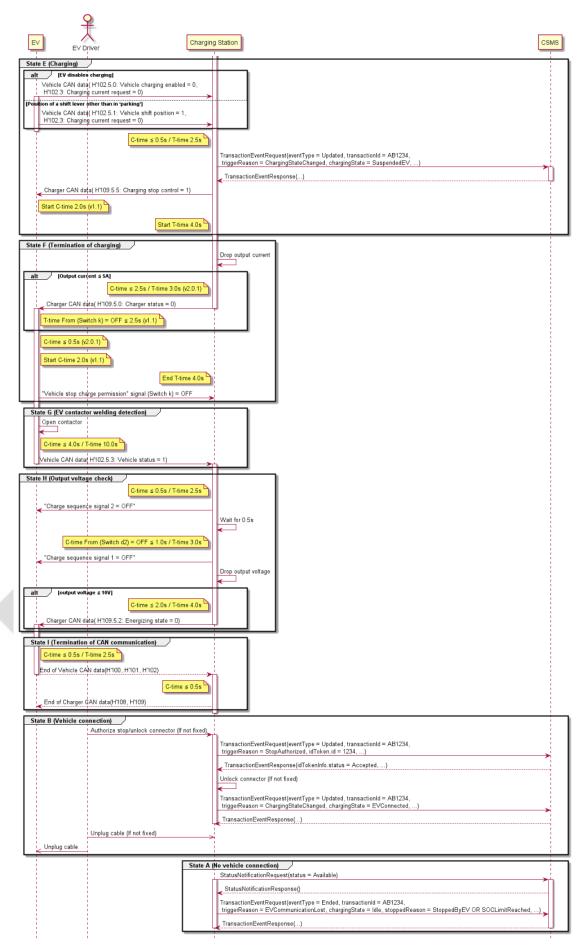


Figure 4. Sequence diagram: Stop by EV

1.5. Stop by EV (abnormal)

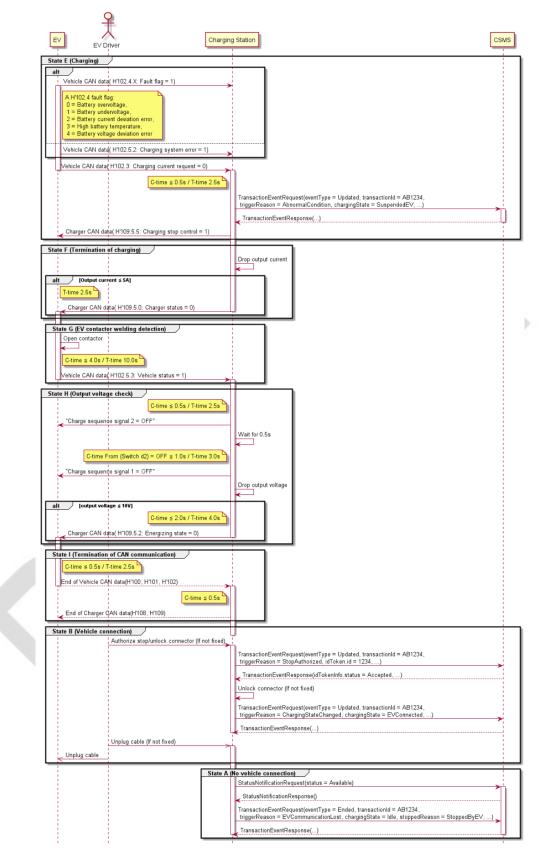


Figure 5. Sequence diagram: Stop by EV (abnormal)

2. OCPP 1.6

2.1. Start charging session

EV	Driver Charge	ng Station
State A (No vehicle conne	ction) plugin cable (if not fixed)	StatusNotification.req(status = Preparing,)
State B (Vehicle connecti	Authorize start	Authorize.req(idTag = 1234) Authorize.conf()
H'101 = Maximum charg H'102. (0/1/2/6) = CHAdd Charger CAN data(H' H'109: CHAddeMO pro 'Vehicle start charge pr C-time From (f)=ON s t	B05 Minimum charge current, Minimum battery voltage, Maximum battery voltage, Charged rate constant value NO protocol number, Target battery voltage, State of charge) VD protocol number, Target battery voltage, State of charge) Cettime ± 0.5s / T-time 2.5s CB: Welding detection, Available output voltage, Available output current, Threshold voltage, totol number, Present output voltage, Present charging current, Remaining charging time) Opt	StatusNotification req(status = SuspendedEV,) StatusNotification conf()
State D (Connector lock a	opt alt C-time ≤ 20.0s / T-time 22.0s	StatusNotification.req(status = SuspendedEVSE,) StatusNotification.conf() If cable not permanently attached lock connector start_onergy offer
H'102.6: State of Charg	2.8: Charging current request > 0A, e C-time = 0.5s / T-time 2.5s 29.5.0: Charger status = 1,	StatusNotification req(status = Charging,) StatusNotification.conf() StatusNotification.conf() StartTransaction.req(idTag = 1234, connectorId = 1, timestamp,) StartTransaction.conf(transactionId = AB1234,)

Figure 6. Sequence diagram: Start charging session

2.2. Stop by Charging Station

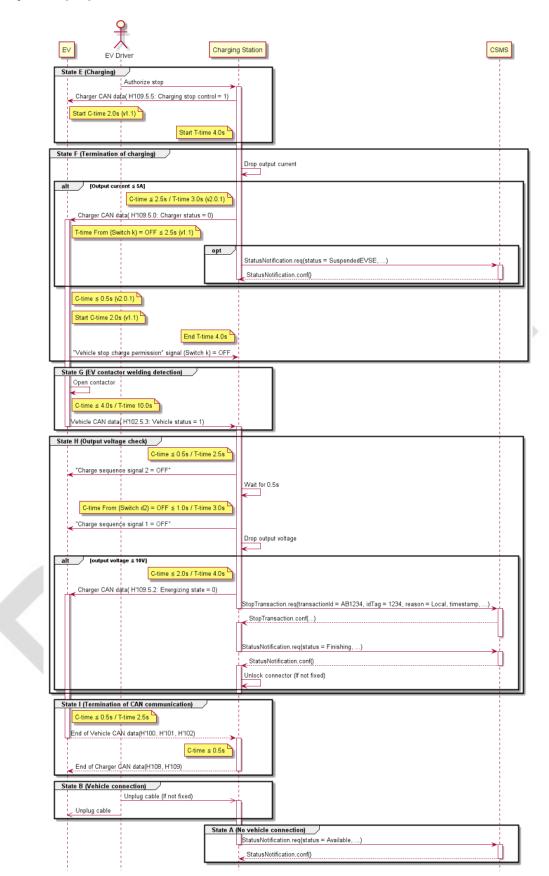


Figure 7. Sequence diagram: Stop by Charging Station

2.3. Stop by Charging Station (abnormal)

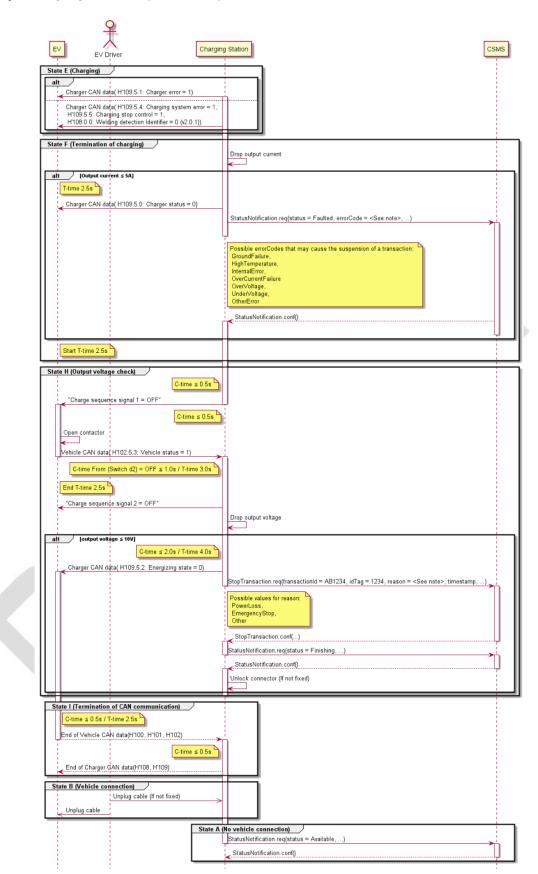


Figure 8. Sequence diagram: Stop by Charging Station (abnormal)

2.4. Stop by EV

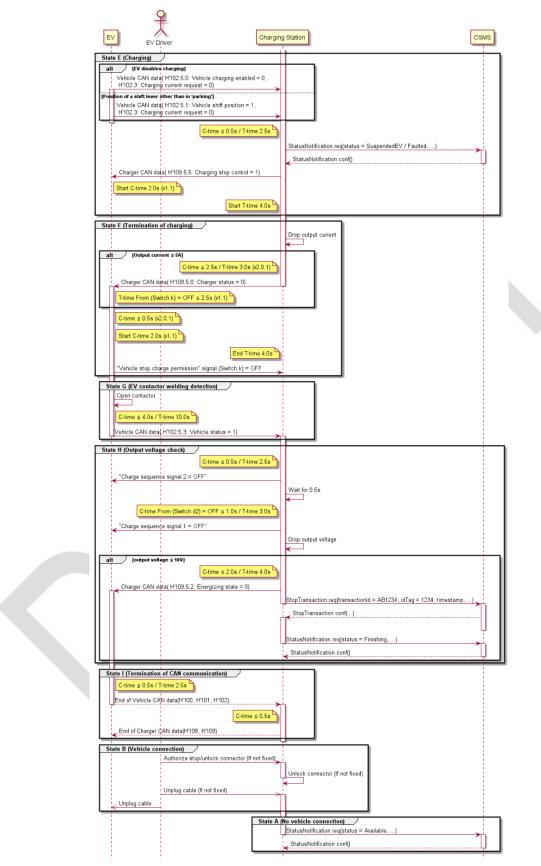


Figure 9. Sequence diagram: Stop by EV

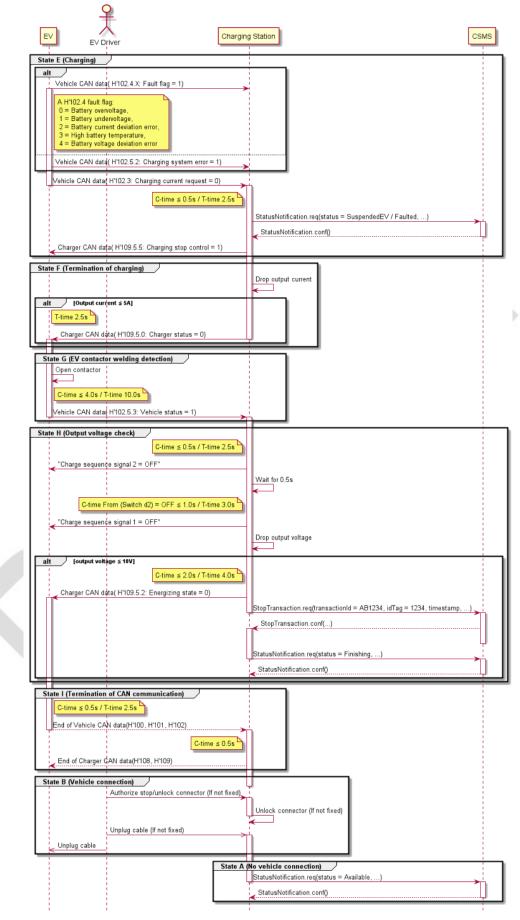


Figure 10. Sequence diagram: Stop by EV (abnormal)