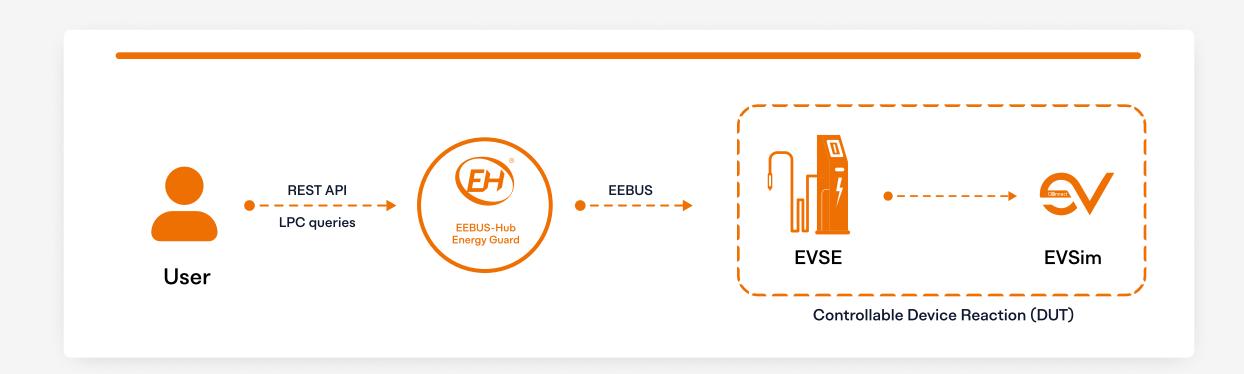


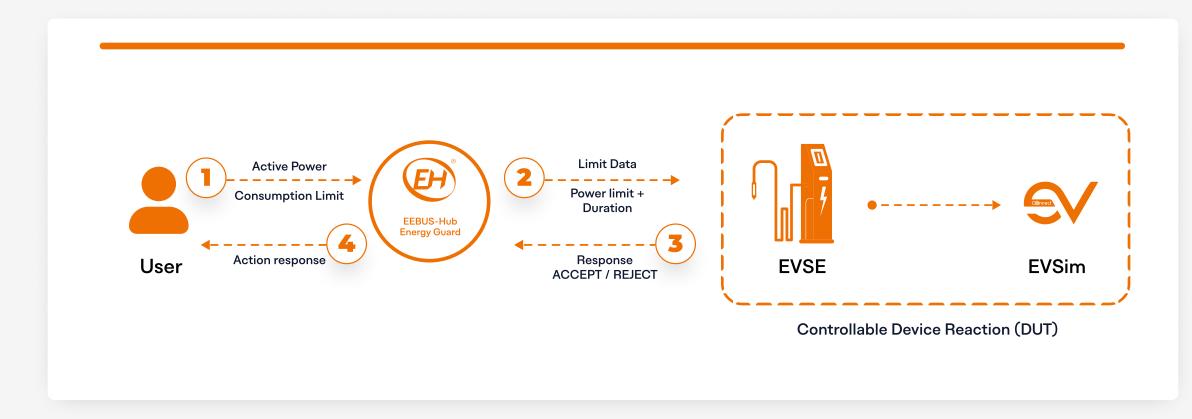
EEBUS-Hub now supports the EEBUS LPC (Limitation of Power Consumption) use case in both server and client modes! This enhancement ensures that your device's **§ 14a** compliance is achieved faster and more efficiently, accelerating interoperability testing and enabling the development of diverse and complex scenarios. Additionally, EEBUS-Hub allows you to seamlessly integrate test scenarios into CICD environments.





Use Case Demo Setup







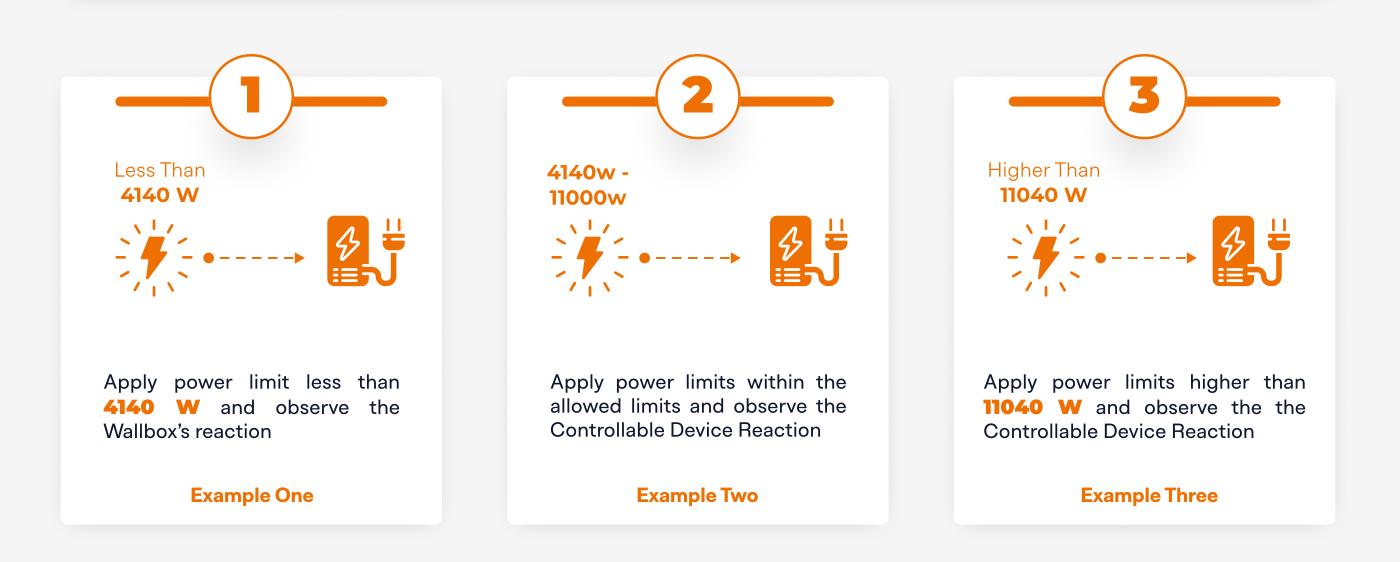


Description

Simulate sending EEBUS LPC command using EEBUS-Hub energy guard and visualize the response of the controllable system (DUT)

The controllable system in this demo is a **3-phase wallbox charger** with the following current limitations:

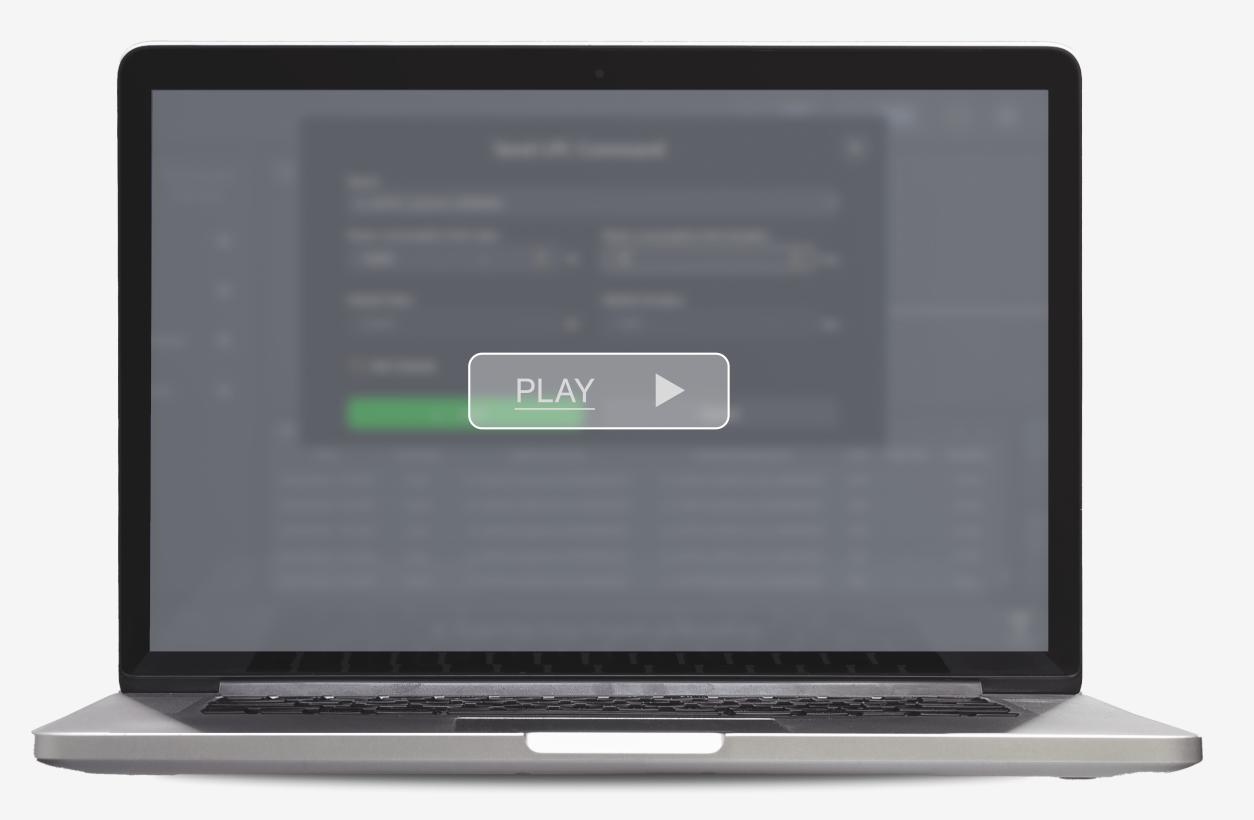
- Minimum: 6A per phase (4,140 W on all phases)
- Maximum: **16A** per phase (**11,040** W on all phases)







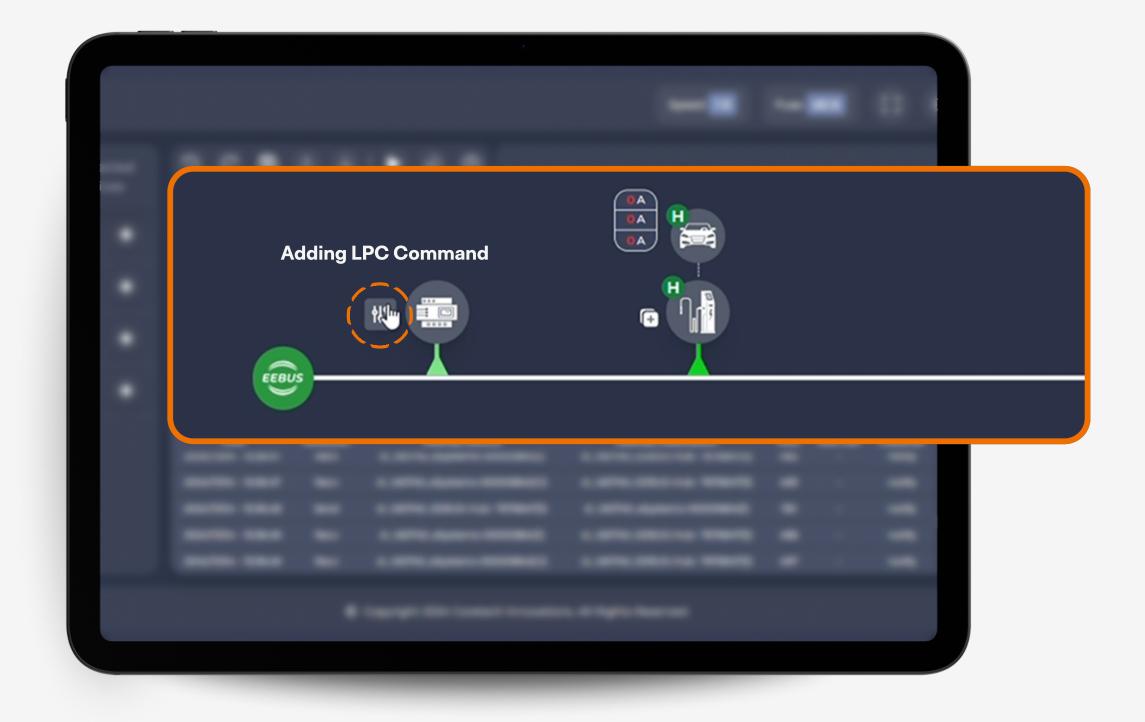
Demo







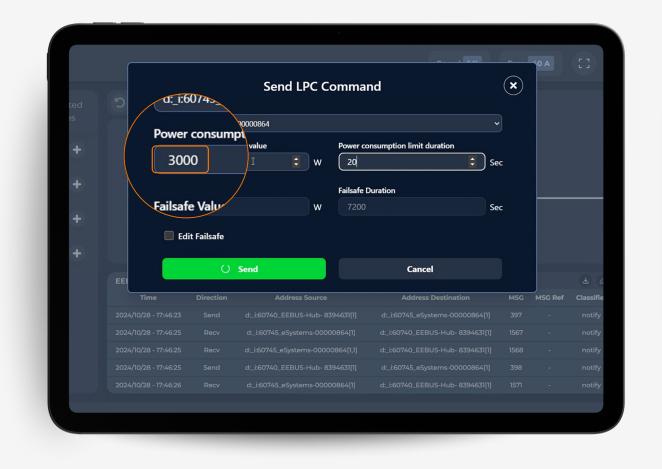
Demo Steps In Details







Setting Power Limit and Interval (Example 1)



Apply power limit **3000** W for **20** sec **4.34** A per phase

EV-Simulator displays PWM of 100%, which indicates the interruption of the charging for 20 sec as requested by the LPC command.







Setting Power Limit and Interval (Example 2)

o owe	r co	Send LPC Cc	ommand	×		
69		limit value	Power consumption limit duration			
			Failsafe Duration			
		W	7200	Sec		
	Edit Failsafe	w	7200	Sec		
		W	7200 Cancel	Sec		
EEI	Edit Failsafe				G MSG Ref	
	Edit Failsafe	Send	Cancel Address Dest	ination MS		
Time	Edit Failsafe () Direction 3 Send	Send Address Source	Cancel Address Desti 94631[1] d:_i:60745_eSystems	ination MS/ 00000864[1] 354		
Time 2024/10/28 - 17:45:0	Edit Failsafe	Send Address Source d:_i:60740_EEBUS-Hub- 839	Cancel Address Desti 94631[1] d:_i:60745_eSystems 0864[1] d:_i:60740_EEBUS-He	ination MS4 -00000864[1] 354 ub- 8394631[1] 1394		
Time 2024/10/28 - 17:45:0 2024/10/28 - 17:45:0	Edit Failsafe Direction 3 Send 4 Recv 4 Recv	Send Address Source d:_i:60740_EEBUS-Hub-839 d:_i:60745_eSystems-00000	Cancel Address Desti 94631[1] d:_i:60745_eSystems 0864[1] d:_i:60740_EEBUS-Hi 0864[1,1] d:_i:60740_EEBUS-Hi	ination MS4 00000864[1] 354 ub- 8394631[1] 1399 ub- 8394631[1] 1399		

Apply power limit 6900 W for 10 sec 10A per phase

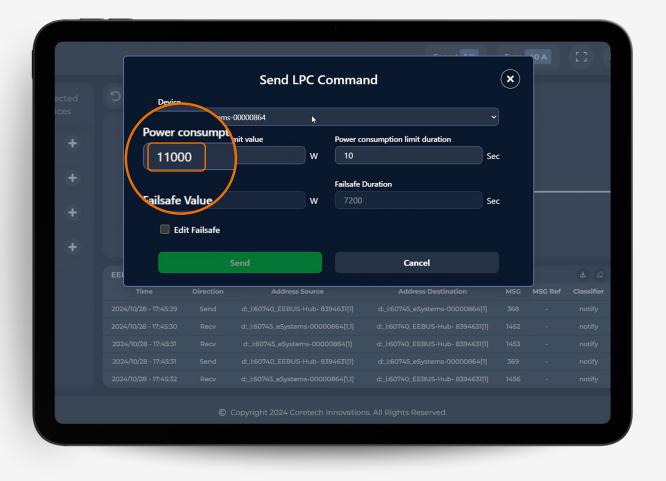
EV-Simulator displays PWM of 17.1%, which indicates the reduction of charging power for 10 sec





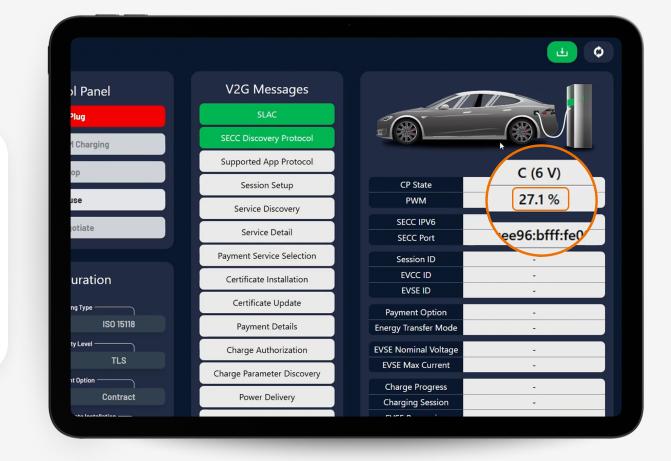


Setting Power Limit and Interval (Example 3)



Apply power limit **15000** W for **10** sec **21.73** A per phase

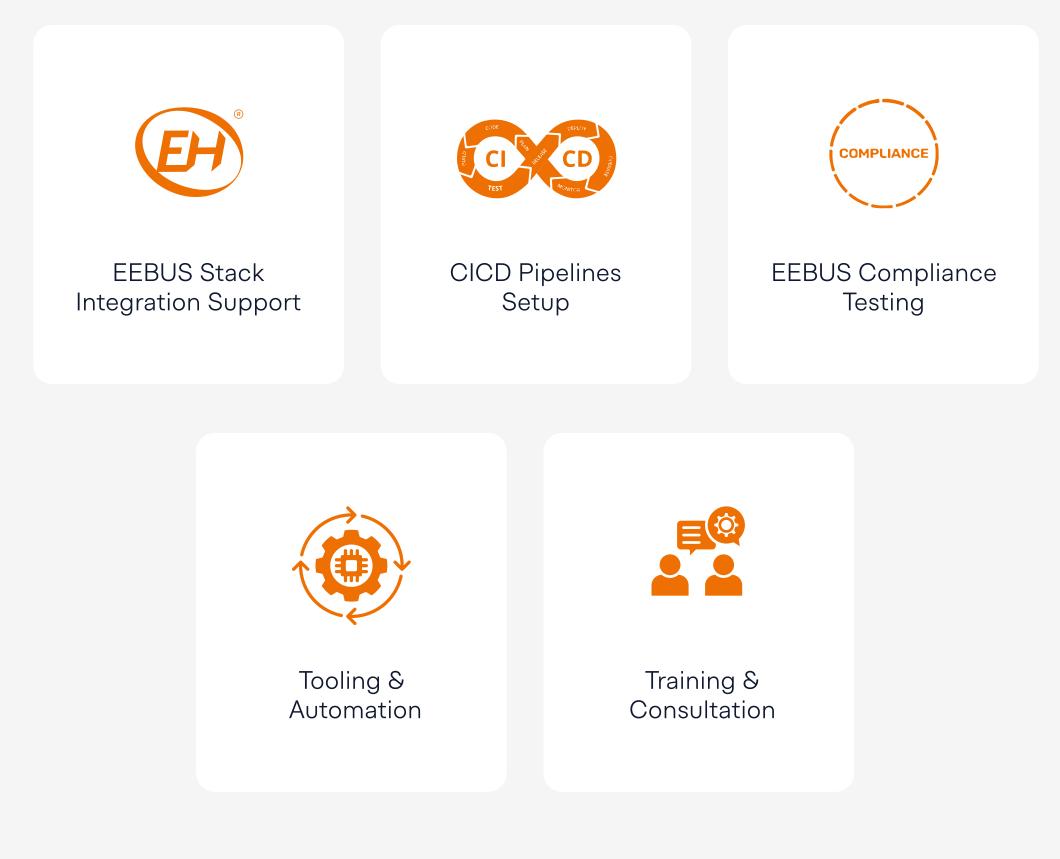
EV-Simulator displays PWM of 27.1%, which indicates the EV-Sim is charging with almost the maximum power for 10 sec







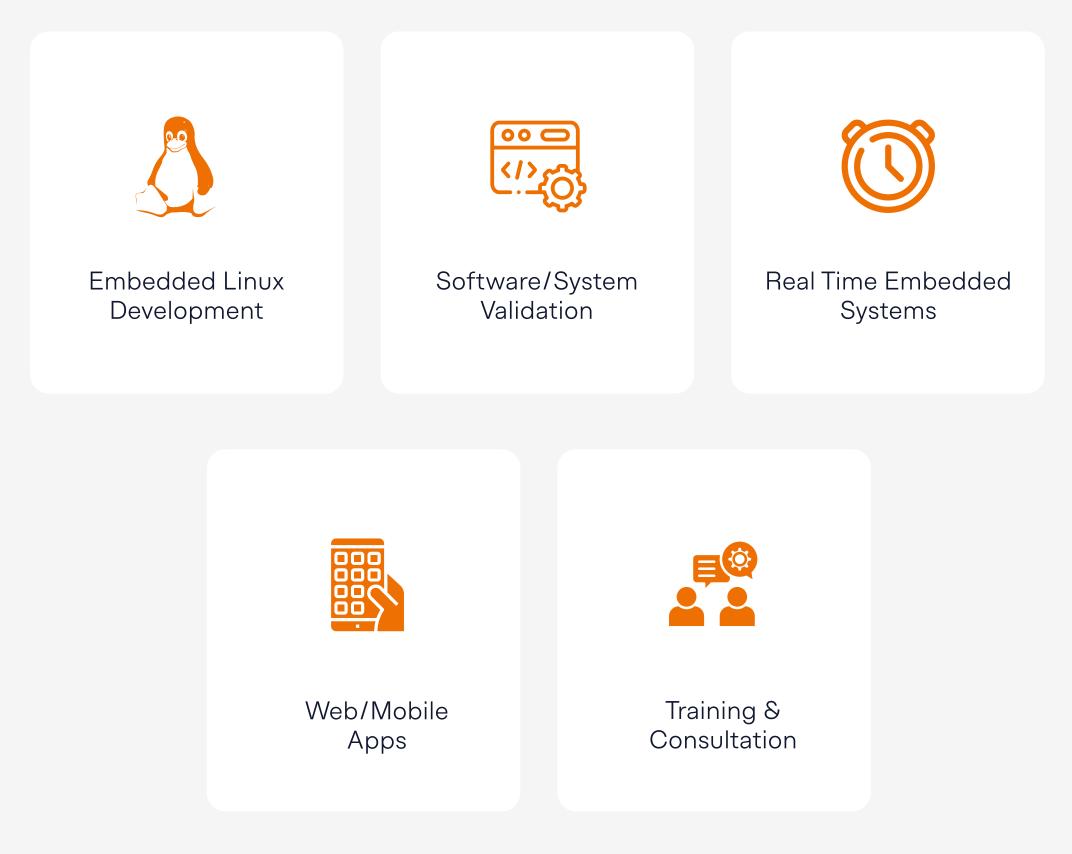
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