

IEC 15118 - Smart Phone controlled Electricity Transfer EV2EV

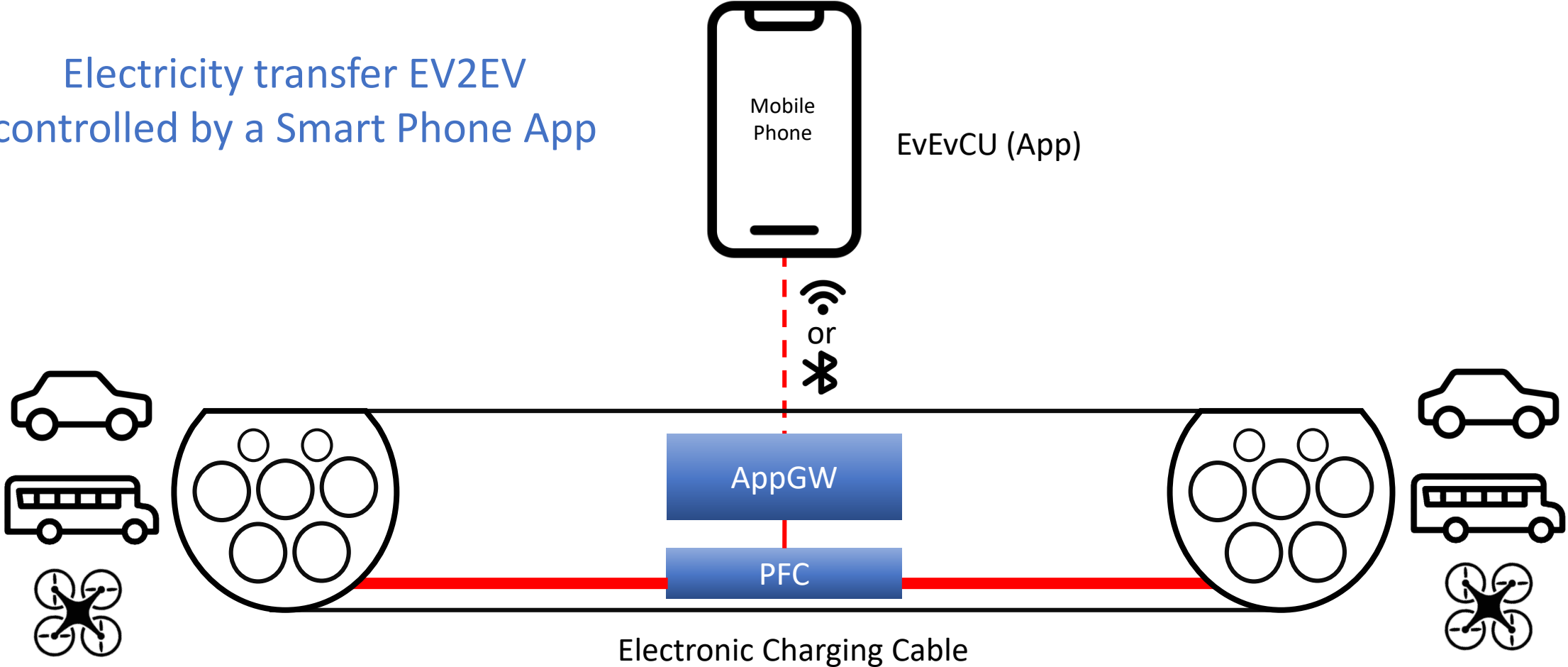
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Patent Applications at Deutsches Patentamt

PCT Application (European Patent Office)

Priority Date: 2021/02/25

Electricity transfer EV2EV controlled by a Smart Phone App



Electric Vehicles

EvEvCU Electric Vehicle/Electric Vehicle Control Unit
Smart Phone Application

AppGW Application Gateway

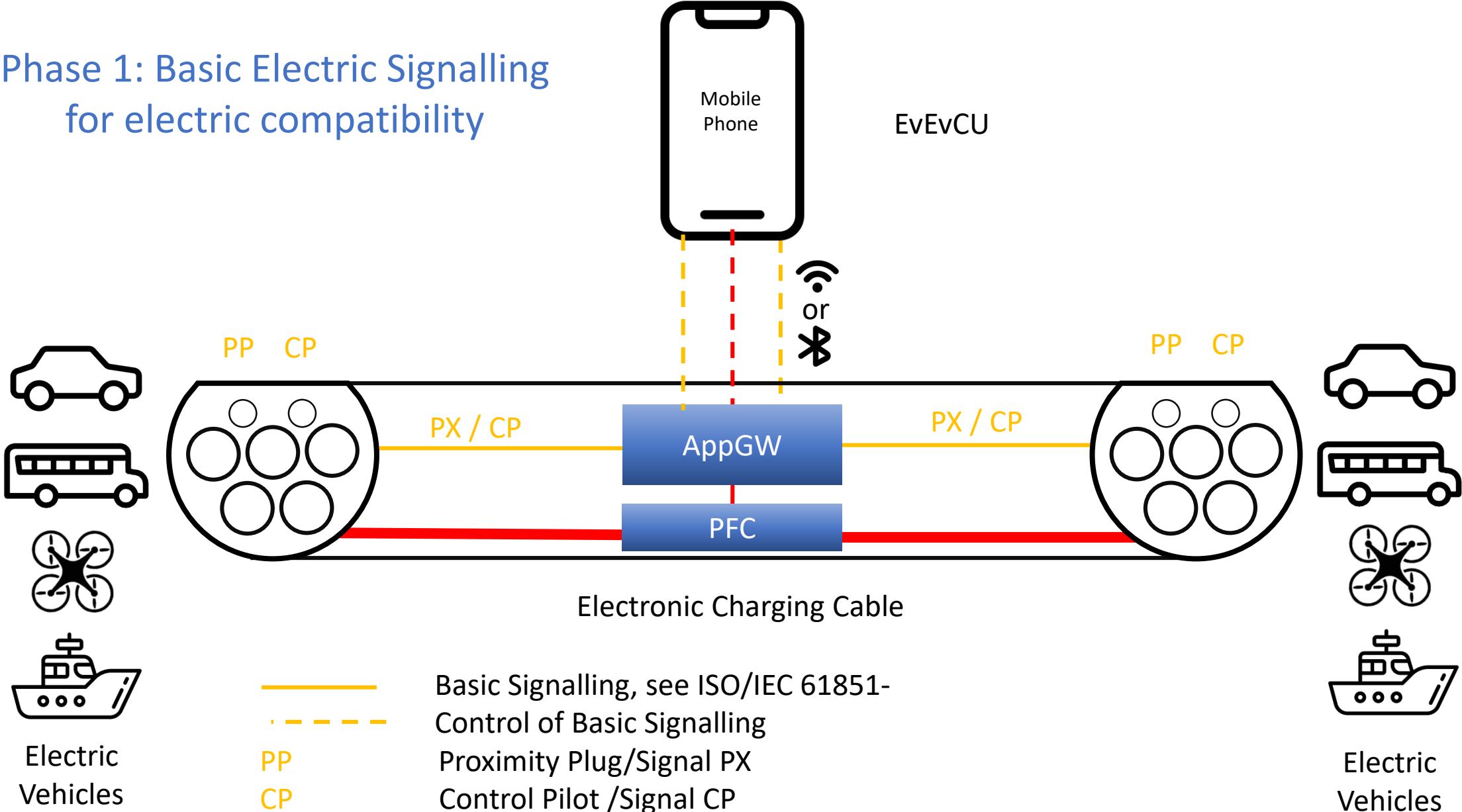
PFC Power Flow Control

— AC/DC Electricity Power Flow

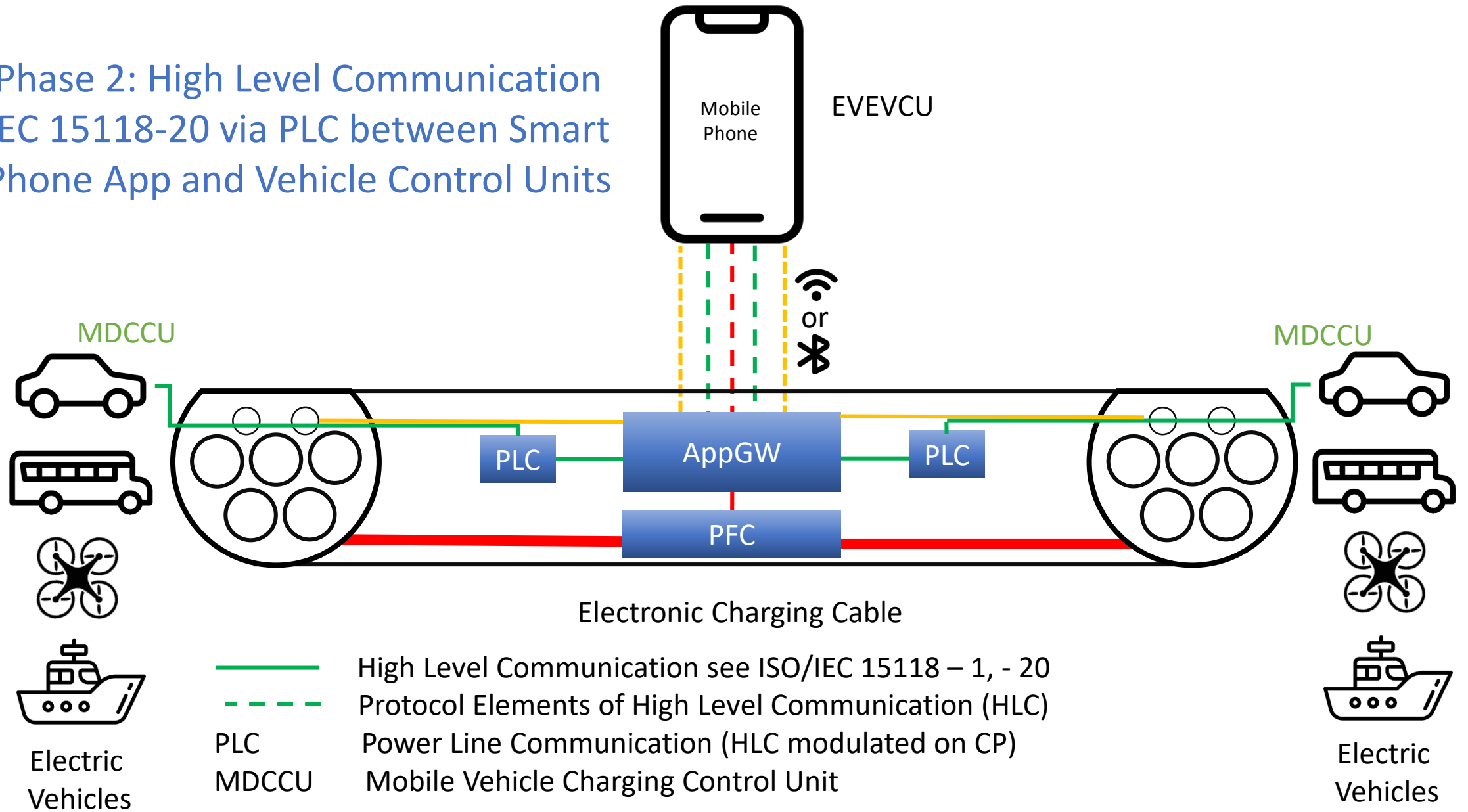
- - - Control Signals for Power Flow Control

Electric Vehicles

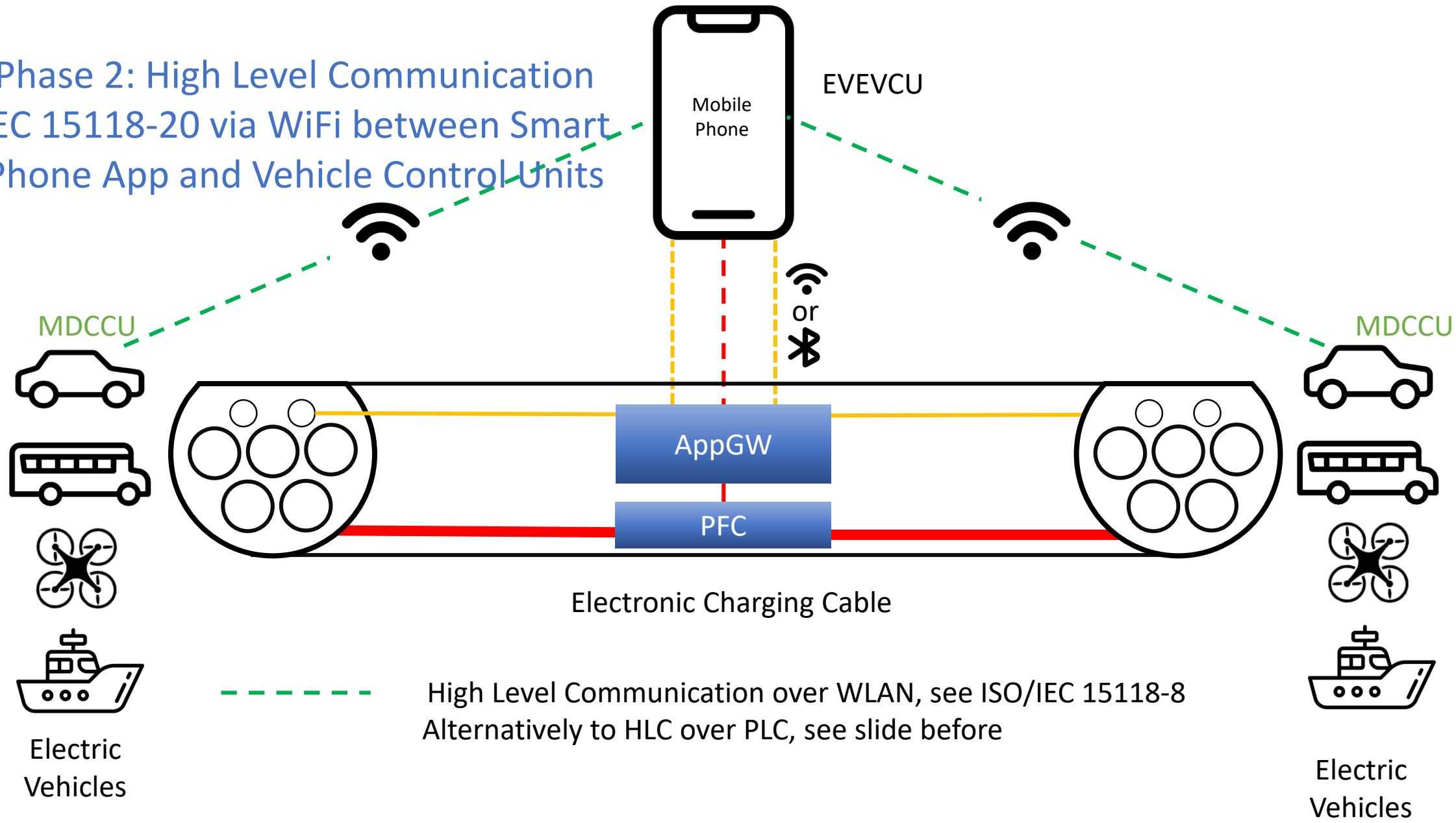
Phase 1: Basic Electric Signalling for electric compatibility

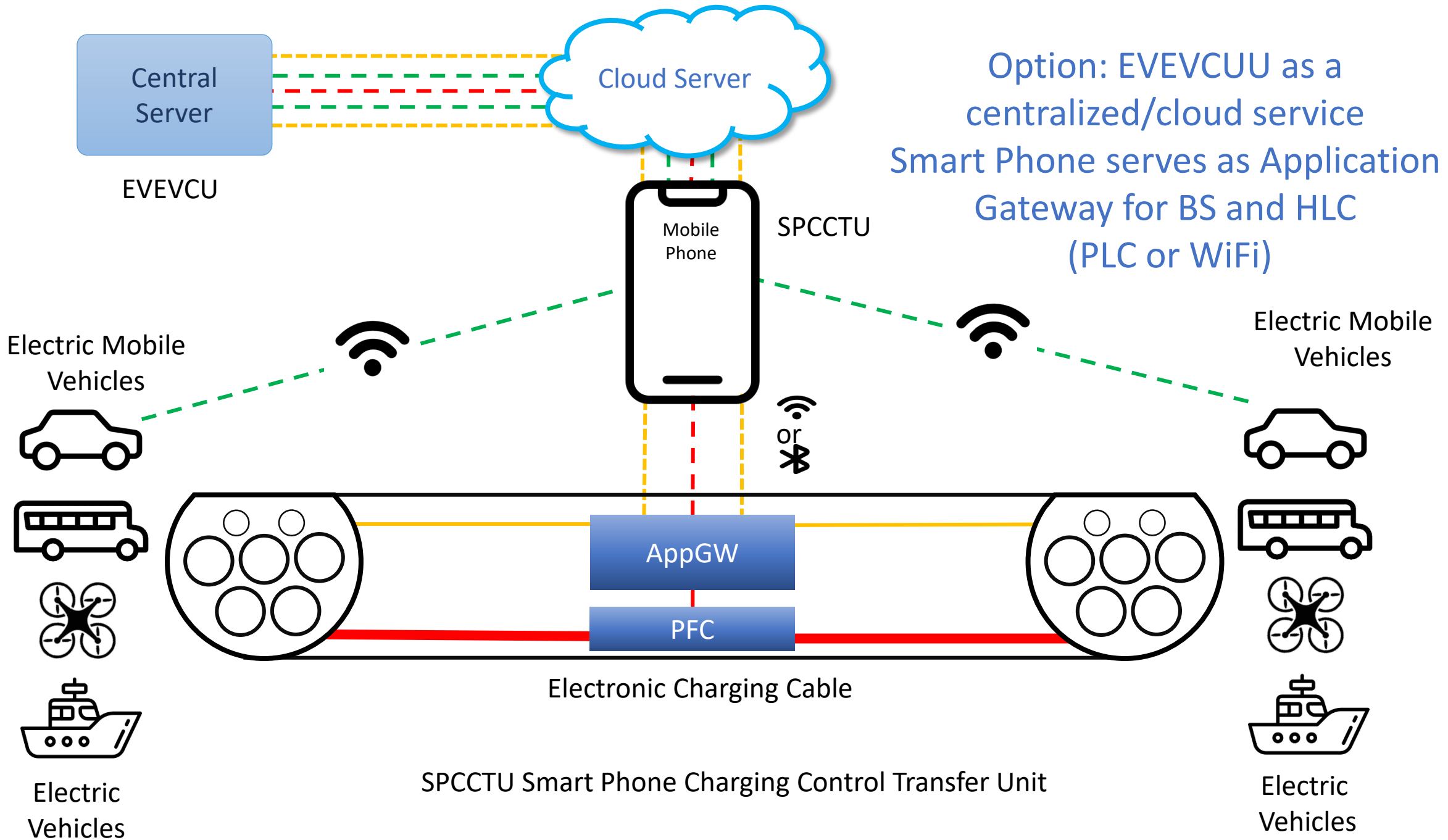


Phase 2: High Level Communication IEC 15118-20 via PLC between Smart Phone App and Vehicle Control Units

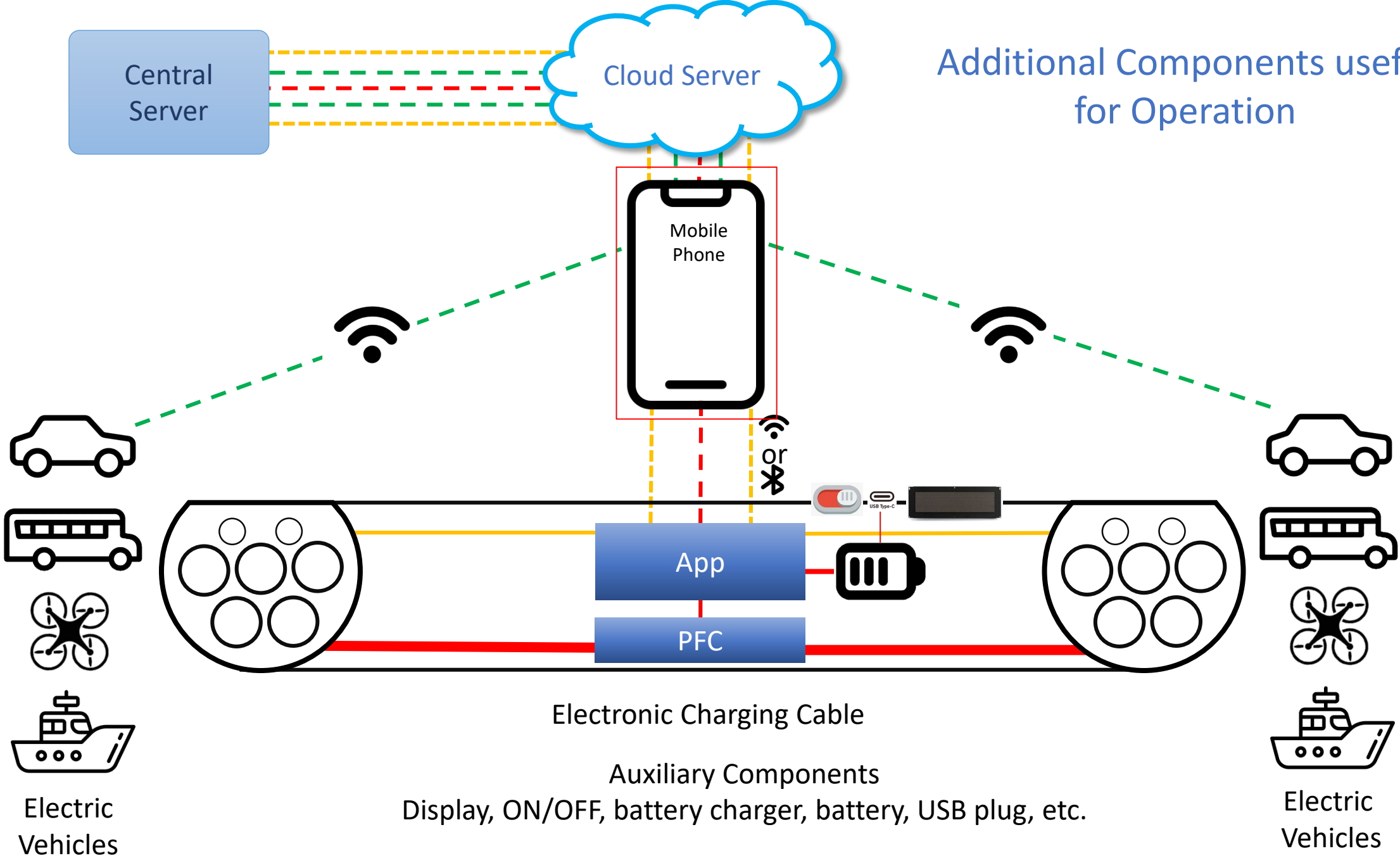


Phase 2: High Level Communication IEC 15118-20 via WiFi between Smart Phone App and Vehicle Control Units





Additional Components useful for Operation



Central Server

Cloud Server

Mobile Phone

App

PFC

Electronic Charging Cable

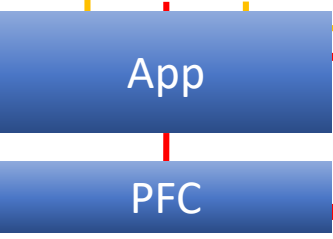
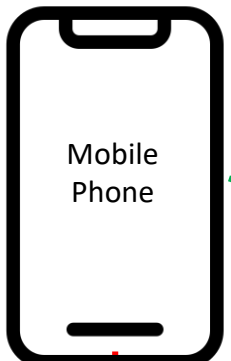
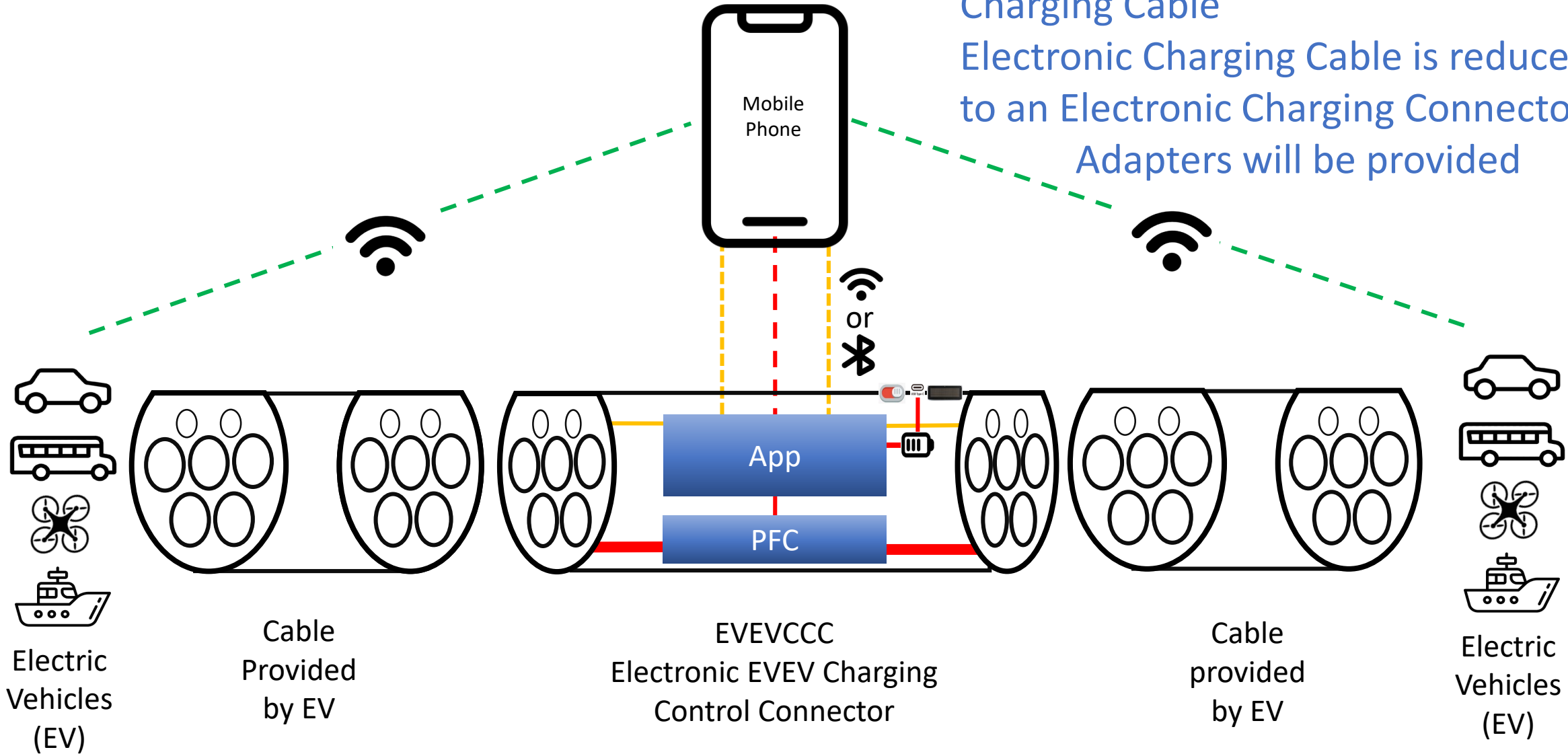
Auxiliary Components

Display, ON/OFF, battery charger, battery, USB plug, etc.

Electric Vehicles

Electric Vehicles

Vehicle Drivers provide their own Charging Cable
Electronic Charging Cable is reduced to an Electronic Charging Connector
Adapters will be provided



EVEVCCC
Electronic EVEV Charging
Control Connector

Cable
Provided
by EV

Cable
provided
by EV

Electric
Vehicles
(EV)

Electric
Vehicles
(EV)