**Maximum charging SOC value setting**

Functional Description

Users can set the maximum charging power on IVI\_IFT, which is the maximum SOC that users want when charging. When this SOC is reached, charging will stop. Adjustable range: 60%-100%; Adjust step size by 5%; The Maximum charging SOC value can be switched

in any gear

1) Enabling conditions (a&b&c):

a. The power mode of the vehicle is CGW\_VehicleState=Standby-Normal/ StandbyOnlyLVon/Drive-Normal;

b. The user can operate the display;

c. IVI\_IFT can receive the status signal of the corresponding controller;

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2) Trigger conditions (a):

a. The user is operating with the maximum charging power value switch UI element

3) Execution output ( (a&b):

a. When the user selects the maximum charging power value (adjustment step 5%) through the SWP soft switch, IVI\_IFT sends the corresponding value of the maximum charging power selected by the user

vehicle/{VIN}/hardware/battery/chargingTargetLevelCommand to SGW, SGW sends

IVI\_MaxChrgSocSet to VCU, VCU sends VCU\_maxChargeSOC to SGW, SGW sends

vehicle/{VIN}/hardware/battery/maximumChargeState to IVI, and the target charging power setting value

displays the corresponding signal value;

a. When the user selects the maximum charging power value through SWP soft switch (adjustment step is 5%), IVI\_IFT sends the maximum charging power corresponding value vehicle/{VIN}/hardware/battery/chargingTargetLevelCommand to SGW, SGW sends IVI\_MaxChrgSocSet to the VCU, and the VCU sends VCU\_maxChargeSOC to the SGW, SGW sends vehicle/{VIN}/hardware/battery/maximum ChargeState to IVI\_IFT and the target charging power setting value displays the corresponding signal value; b. SWP sends TouchEvents to IVI\_IFT, informing IVI\_IFT users of touch events; IVI\_IFT sends VideoStream\_SWP to SWP, informing SWP of touch events; IVI\_IFT sends VideoStream\_SWP to SWP, inform SWP of the displayed content

4) Exit conditions/Exit conditions (a):

a. The power mode of the vehicle is CGW\_VehicleState≠Standby-Normal/ Standby-OnlyLVon/Drive-Normal;

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