## Product Functions

* + 1. **CTC Office**
       1. **Track**
          1. Track block status shall be updated to CTC Office.
          2. Track switch shall be controlled by CTC Office.
          3. Track signal light status shall be updated to CTC Office.
          4. Track data could be modified by CTC Office.
       2. **Train**
          1. Train information shall be updated to CTC Office, including:

Number of cars

Speed

Weight

Position

Door status of each car

* + - * 1. CTC Office could send the commands to trains and cars, including:

Setting the speed suggestion

Brake commands

Door control commands

* + - * 1. Car data could be modified by CTC Office, including:

Length

Height

Width

Mass

Crew

Number of Passengers

* + - * 1. Train data could be modified by CTC Office, including:

Consequence of cars

* + 1. **Automation**
       1. The software shall automatically detect the blocks status before the occupation and ensure the safety of trains.
          1. The software shall operate the switch to avoid a train running into an occupied block.
          2. The software shall operate the signal light to avoid a train running into an occupied block.