Questions for Customer Regarding the Scalable Cruise Control System

General Questions about the Scalable Cruise Control System

1. If Automatic Emergency Braking (AEB) is not enabled, should the system still apply braking pressure in order to maintain a proper following distance from the car in front of it or should it simply use coasting to accomplish this same feat?

2. If the vehicle is traveling at 70 mph, what would be considered a proper following distance for each of the 4 steps available (“small” up to “large”)? What should the proper following distance be at 25 mph for these same steps?

3. Is there a maximum cruise speed that the driver can enable, if so what is this maximum speed?

4. Should any more object sensing technologies be added to the system to further enhance its abilities, such as infrared or ultrasonic sensors?

5. Where should the camera, radar sensor, and any additional sensors be implemented?

6. How early should the system begin detecting a vehicle in front of it?

7. Exactly how close should the car be allowed to get using Following Distance Management?

8. Under which conditions should the automatic brake be applied?

9. Can the emergency brake be overridden in case of system error?

10. How is the distance between vehicles measured?

11. Do brake lights turn on when Scalable Cruise Control slows down the vehicle?

12. What kind of objects can the system recognize?

13. Does the system offer braking assist if the driver doesn’t apply enough force?

14. Does the system detect curves?

15. What if a motorcycle comes between the front car and yours?

16. When increasing speed, how close does the system let you come to the front car?

17. Does it have night-vision? Does it work at night?

Security Questions

1. If the vehicle’s software has been compromised by a hacker, how should the scalable cruise control system respond?

2. What types of wireless communication methods should the system implement? (In order to know what type of security protocols to implement)

3. Does the internal software have a super user? Any backdoor possibilities?
4. How do you encrypt the information being sent?
5. How is the data/information sent?

Safety Questions

1. What should happen if a car cuts in front of our vehicle and is too close to avoid a collision?

2. Should the system be able to detect if a collision has occurred, and if so what should be the vehicle’s course of action? (Automatically contact authorities etc.)

3. How should the car slowdown if it is nearing another vehicle in front of it?

4. What types of objects should the AEB system be applied for?

5. What is considered a safe rate for vehicle acceleration or deceleration?

6. In following distance management, how do we handle sudden speed changes from the car in front of us?

7. Should we take into account traffic from the side of us?

8. What kind of warning does the vehicle emit when the vehicle becomes too close to an object (visual/audio)?

9. Is a hardened operating system permissible?