

Option 1:

Current language:

- a) Being **written** to at a distance of **35 m** as long as the tag remains within the **35 m** range of the communicating interrogator and when:
 - 1) Sufficiently separated from other ISO 17363 tags by more than 3 m to allow discrimination
 - 2) Operated and stored in the environmental conditions specified in ISO 18185-3
- b) Being **read** when the shipment tag is
 - 1) Within range of **35 m** or less
 - 2) Moving in relation to the RFID reading system at a speed of 50 km/h or less.
 - 3) Sufficiently separated from other ISO 17363 tags by more than 3 m to allow discrimination
 - 4) Operated and stored in the environmental conditions specified in ISO 18185-3.

Option 2:

Current language:

- c) Being **written** to at a distance of **35 m** as long as the tag remains within the 35 m range of the communicating interrogator and when:
 - 1) Sufficiently separated from other ISO 17363 tags by more than 3 m to allow discrimination
 - 2) Operated and stored in the environmental conditions specified in ISO 18185-3
- d) Being **read** when the shipment tag is
 - 1) Within range of **100 m** or less
 - 2) Moving in relation to the RFID reading system at a speed of 50 km/h or less.

- 3) Sufficiently separated from other ISO 17363 tags by more than 3 m to allow discrimination
- 4) Operated and stored in the environmental conditions specified in ISO 18185-3.

Option 3:

- e) Being **written** to at a distance of **35 m** as long as the tag remains within the 35 m range of the communicating interrogator and when:
 - 1) Sufficiently separated from other ISO 17363 tags by more than 3 m to allow discrimination
 - 2) Operated and stored in the environmental conditions specified in ISO 18185-3
- f) Being **read** when the shipment tag is
 - 1) **Should be within range of 100 m or less and shall be within range of 35 m or less**
 - 2) Moving in relation to the RFID reading system at a speed of 50 km/h or less.
 - 3) Sufficiently separated from other ISO 17363 tags by more than 3 m to allow discrimination
 - 4) Operated and stored in the environmental conditions specified in ISO 18185-3.

Option 4 (data transfer distance¹):

- g) Being **written** to at a distance of **35 m** as long as the tag remains within the 35 m range of the communicating interrogator and when:
 - 1) Sufficiently separated from other ISO 17363 tags by more than 3 m to allow discrimination
 - 2) Operated and stored in the environmental conditions specified in ISO 18185-3

¹ Option 3 differs from Option 4 since Option 3 implies an antenna-to-antenna distance. Option 4 implies a node-to-node data transfer distance accommodating mesh networking and tractor/trailer infrastructure as shown in Figures 1 and 2.

h) Being read when the shipment tag is

- 1) Nodes shall be within range of 35 m or less and whose network shall cover a range of 100 m or less
- 2) Moving in relation to the RFID reading system at a speed of 50 km/h or less.
- 3) Sufficiently separated from other ISO 17363 tags by more than 3 m to allow discrimination
- 4) Operated and stored in the environmental conditions specified in ISO 18185-3.

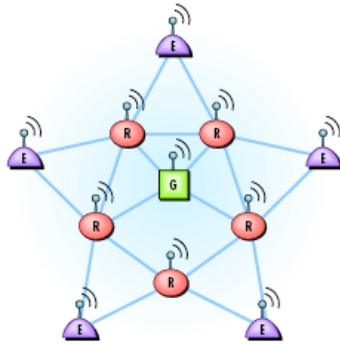


Figure 1 – Fault tolerant mesh network

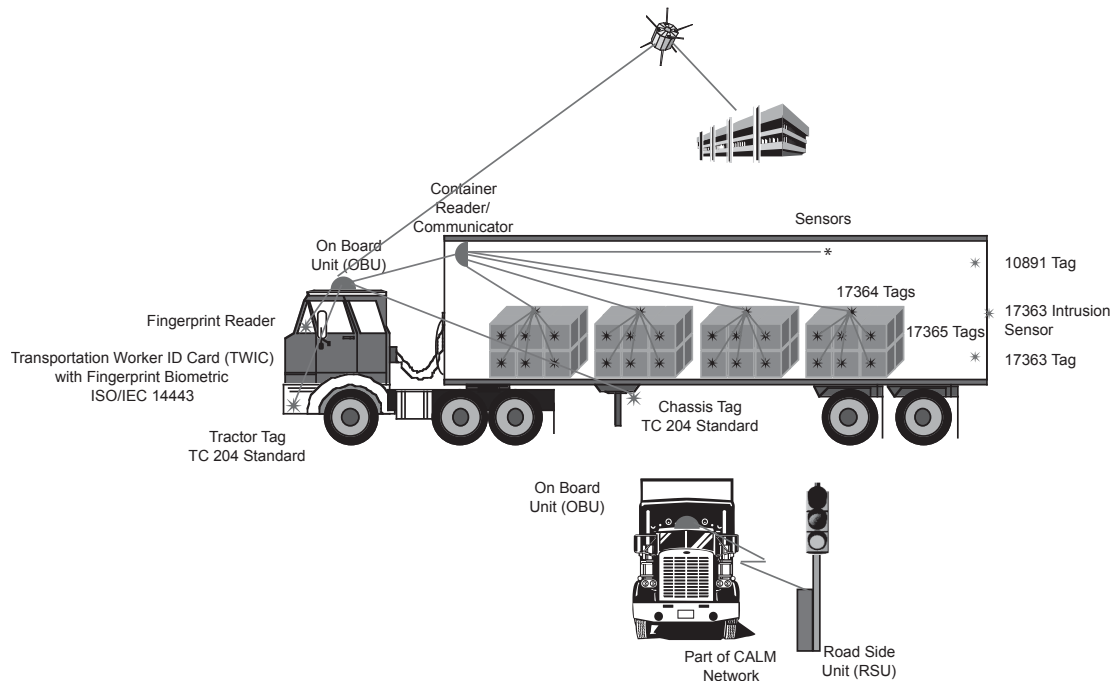


Figure 2 – Tractor/Trailer Container configuration