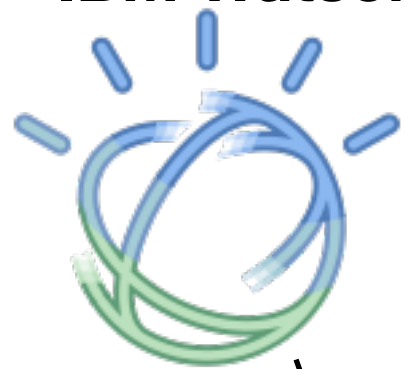


アーキテクチャー図

IBM DXチャレンジ

SBS情報システム

IBM Watson



Operator



Rescue Team



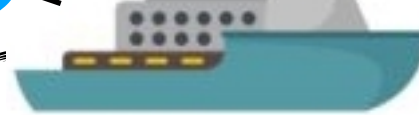
Server



WiFi



ESP8266



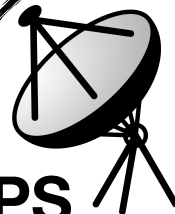
Camera



Ultrasonic Sensor



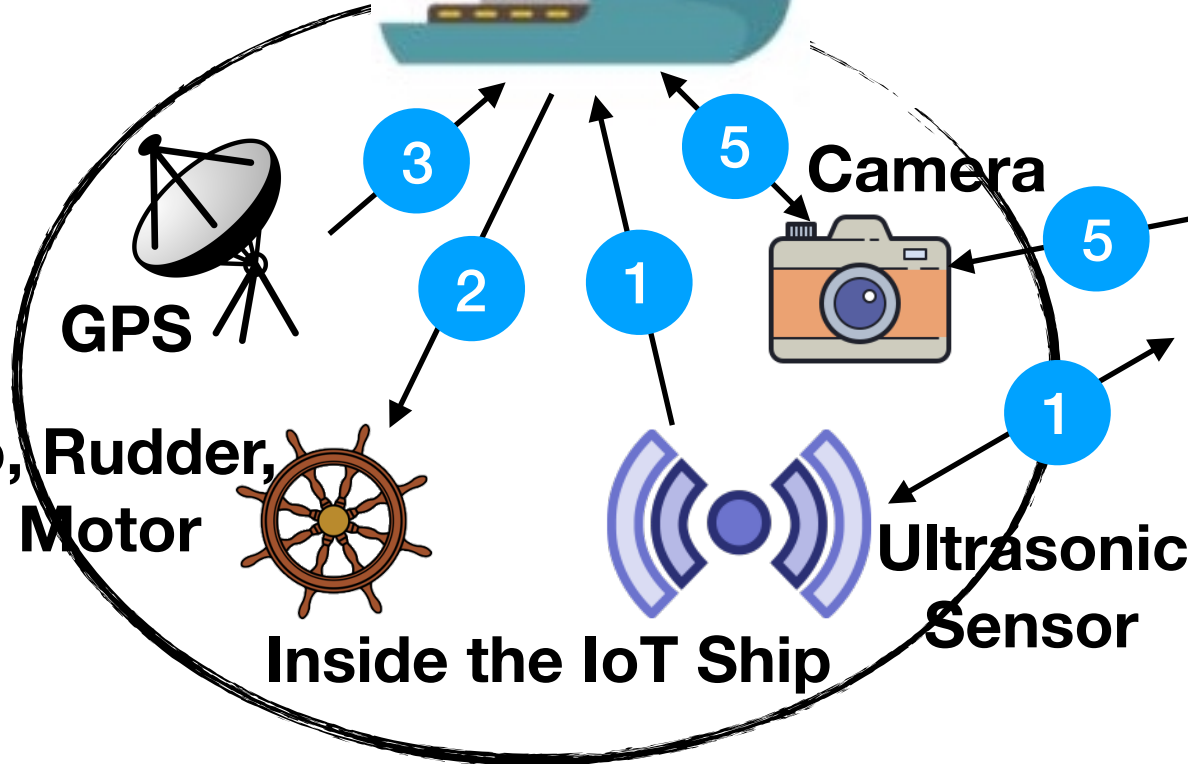
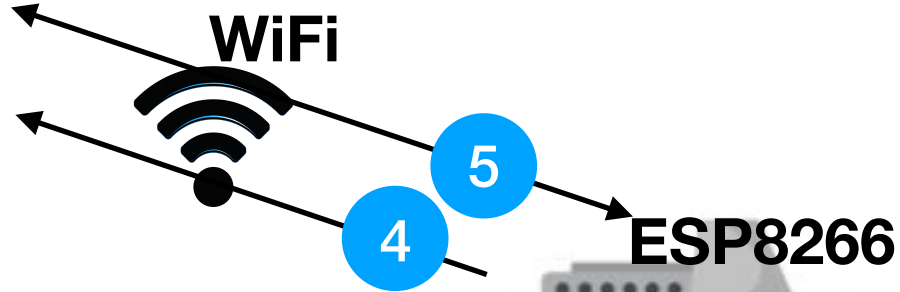
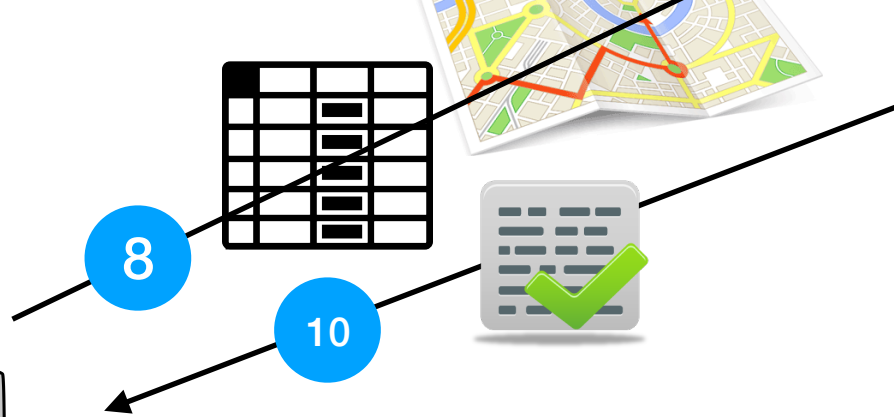
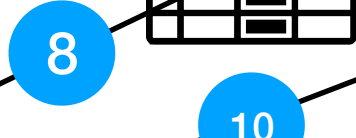
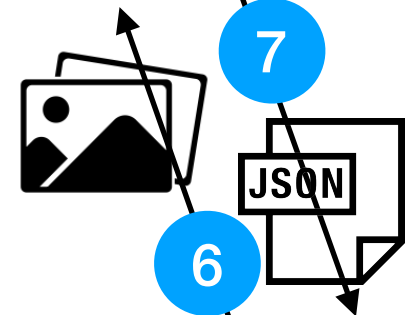
GPS



Servo, Rudder,
DC Motor



Inside the IoT Ship



- 1. The ultrasonic sensor detects an object, then trigger the ESP8266.**
- 2. ESP8266 order the rudder to change the course of the ship to avoid the ship hit the object.**
- 3. ESP8266 collecting the current position from GPS (latitude, longitude).**
- 4. ESP8266 calling API on server and attach the current position via WiFi.**
- 5. Server got notice and start to download the image taken by the camera on the ship using WiFi.**
- 6. Taken image is forwarding to IBM Watson.**
- 7. IBM Watson replied with JSON contains image classification.**
- 8. The server will send a message to the operator if the image classified as a victim, and the server will put a pin on a map to show the position of the victim.**
- 9. The operator will organize the rescue Team, waiting for feedback if the rescue mission completed.**
- 10. The operator closes the case as rescue mission accomplished.**

Circuit Diagram

IBM DXチャレンジ

SBS情報システム

