

Sequence Analysis for server and client

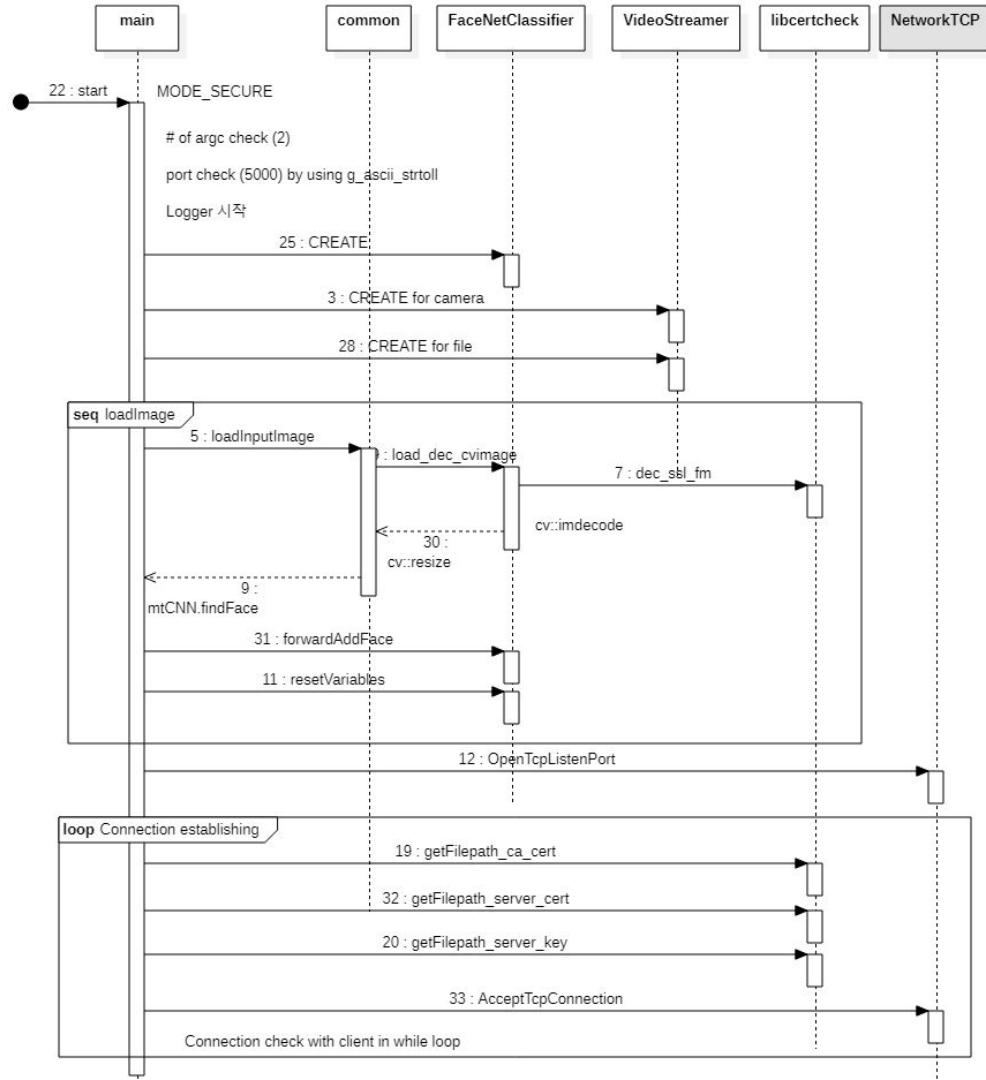
Phase 2: Evaluation of Team 6

Server Initialization

Allow only one port (5000)

Load face images with decryption

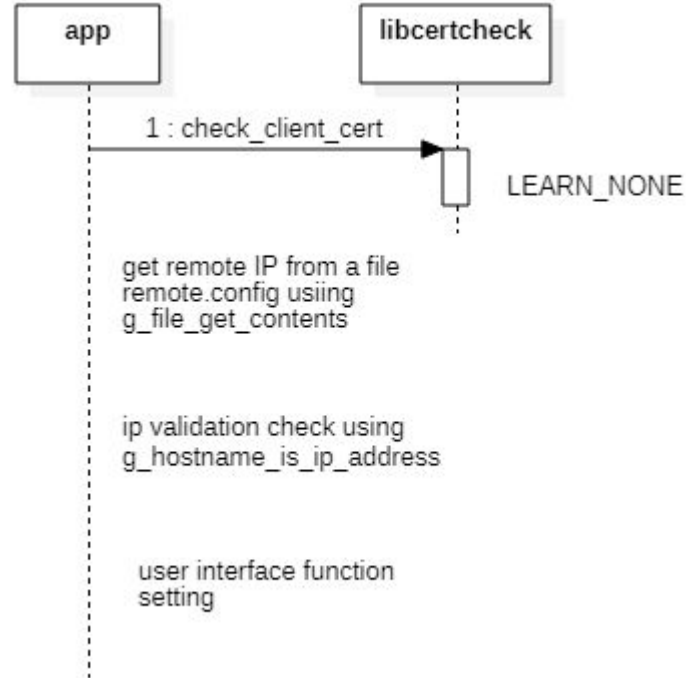
Listening TCP Port



Client Initialization

get server IP address from config file as plain text
IP validation

The screenshot shows the 'Team6 Client App' window. It features a dark title bar with standard window controls. The main area is light gray and contains several input fields and buttons. At the top left, there are 'ID:' and 'Pass:' labels with corresponding text boxes. Below these are 'Login' and 'Logout' buttons. Further down, there are two checkboxes: 'Secure Mode' (checked) and 'Test Mode' (unchecked). A 'Pause' button is located below the checkboxes. At the bottom left, there is a 'Name:' label with a text box and a 'Learn Mode - Save' button.



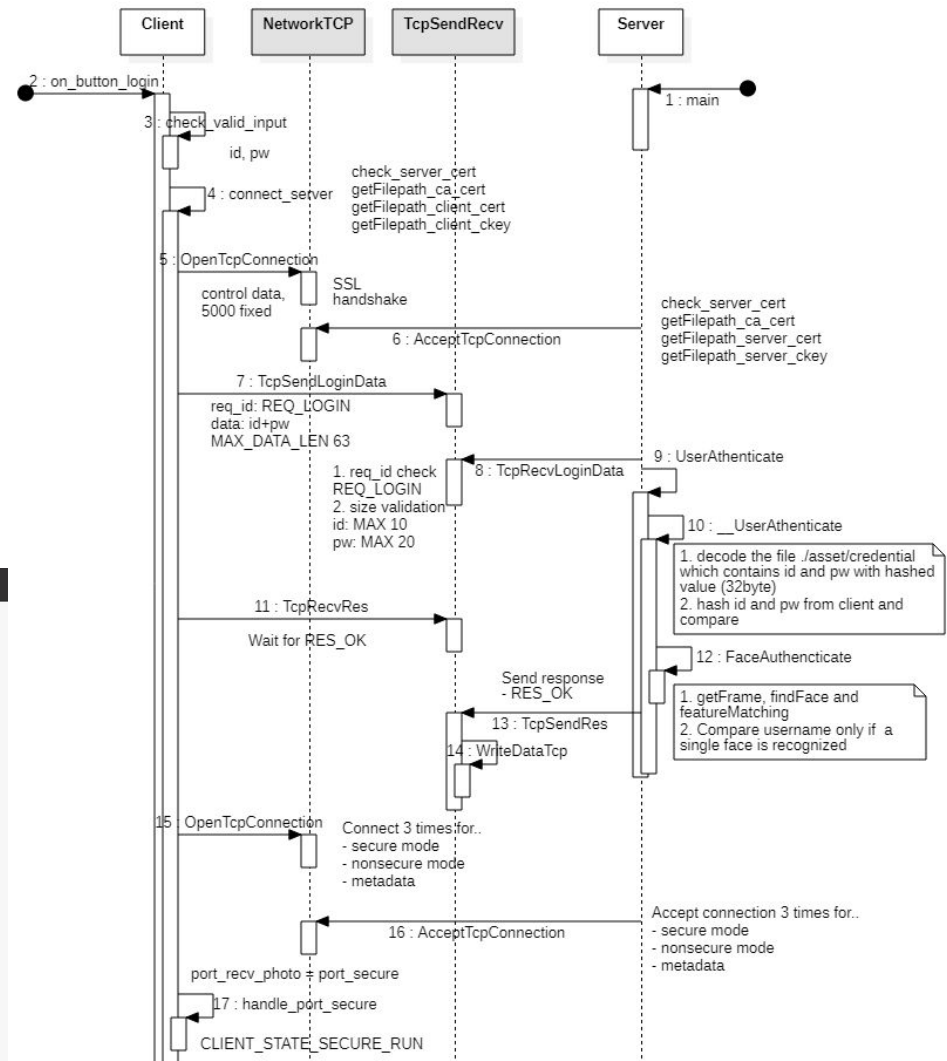
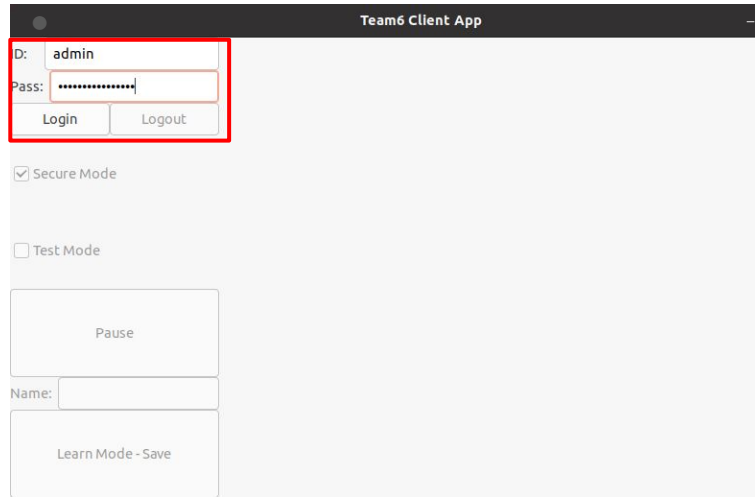
Login

Client

- Input validation for ID/Pass
- Establishing connection using certification

Server

- Authentication of ID/Pass with credential file
- Authentication of Face with ID
- Image is not sent to client

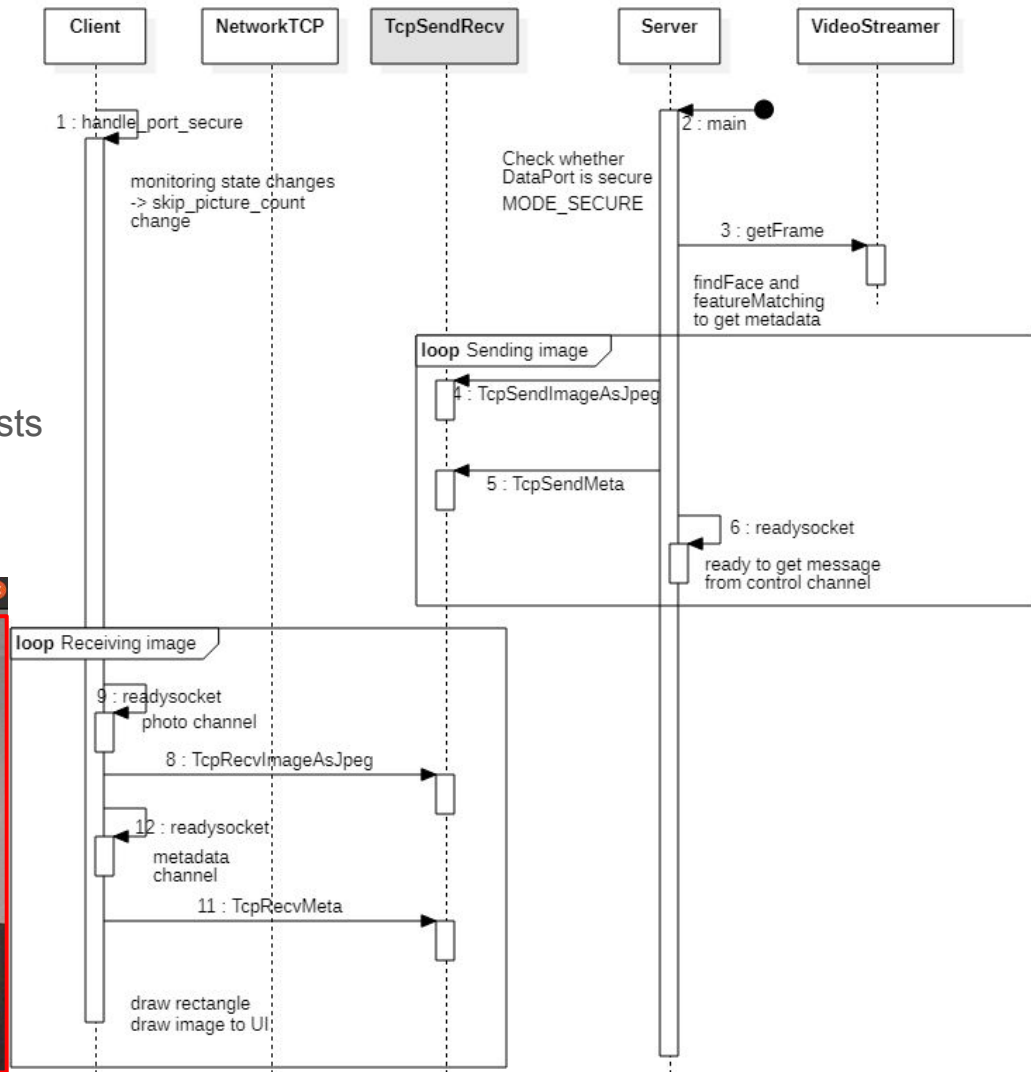
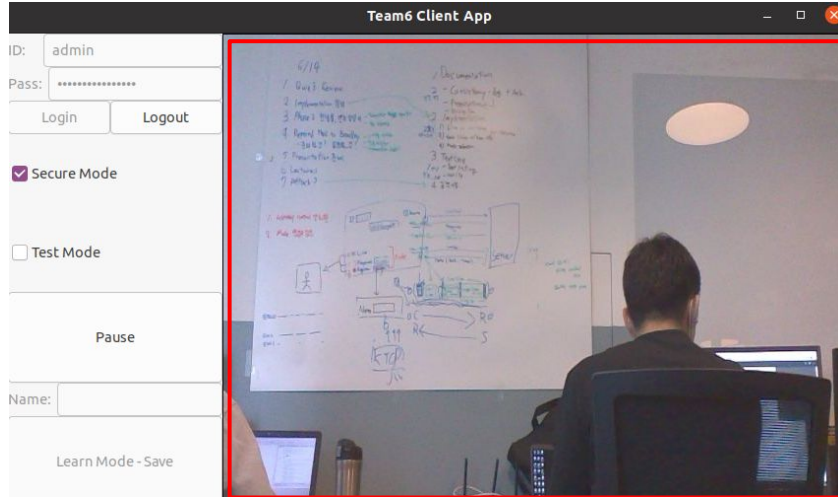


Data Communication

Data send/receive twice via each channel

- Photo (image)
- Metadata (face information)

Then, get a message from control channel if exists



Secure mode Change

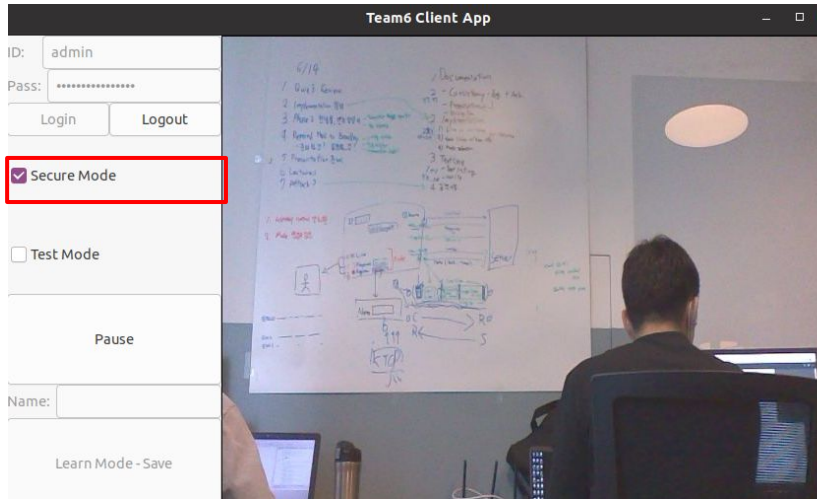
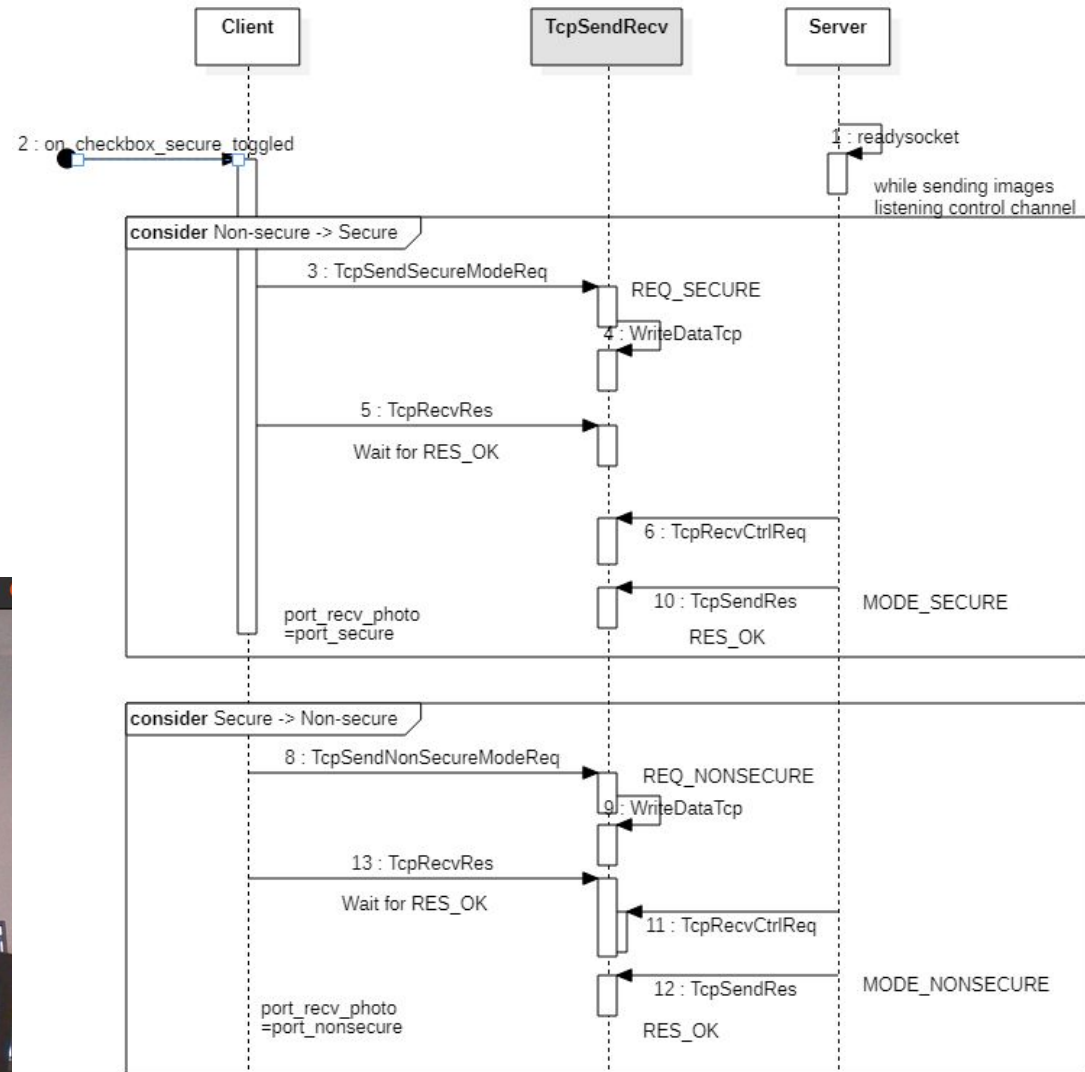
Secure ↔ Insecure

Client

- Send Request via control channel
- Wait for OK response then change port

Server

- Just change mode status



Play mode Change

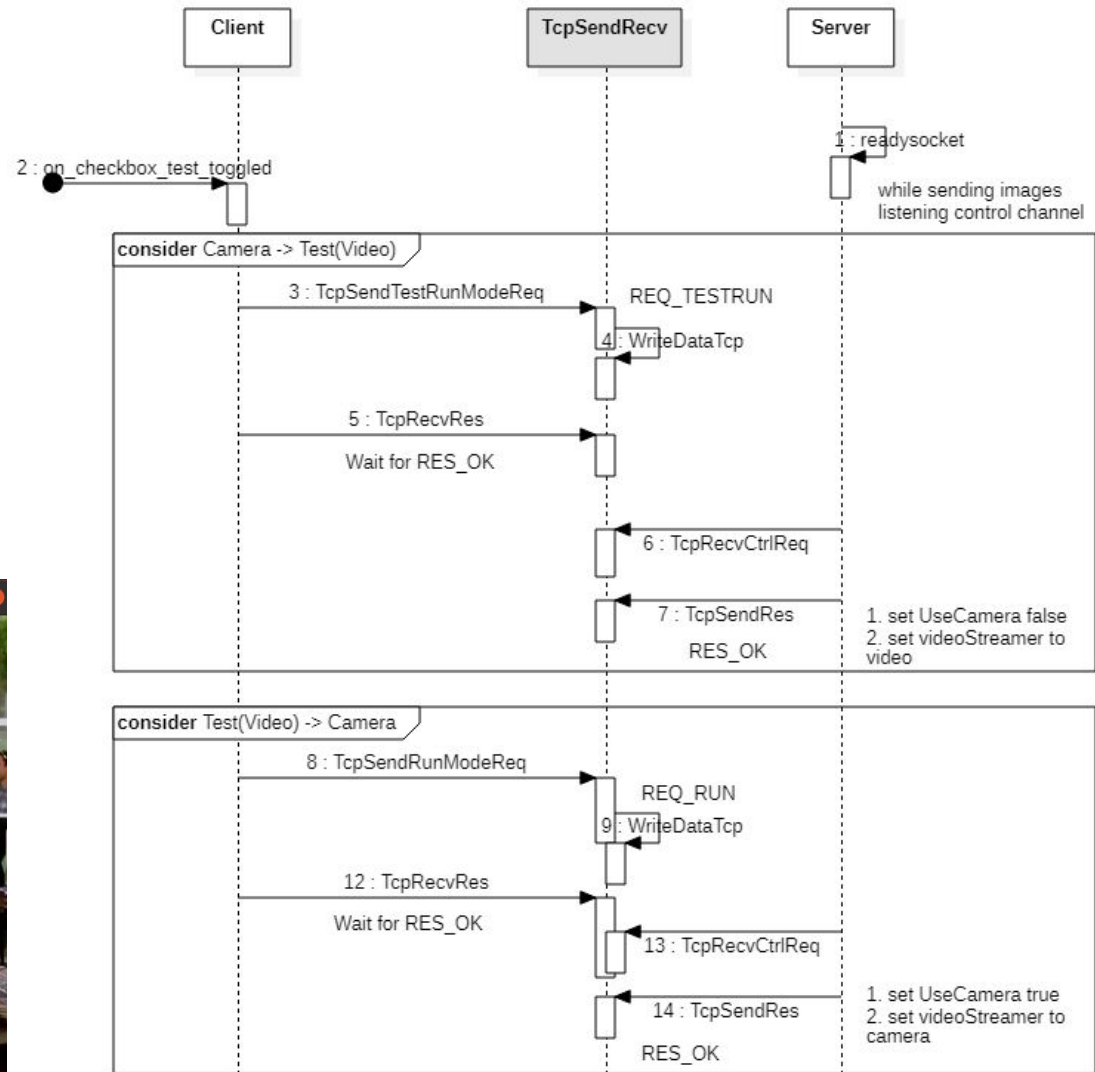
Camera ↔ Test(Video)

Client

- Send Request via control channel

Server

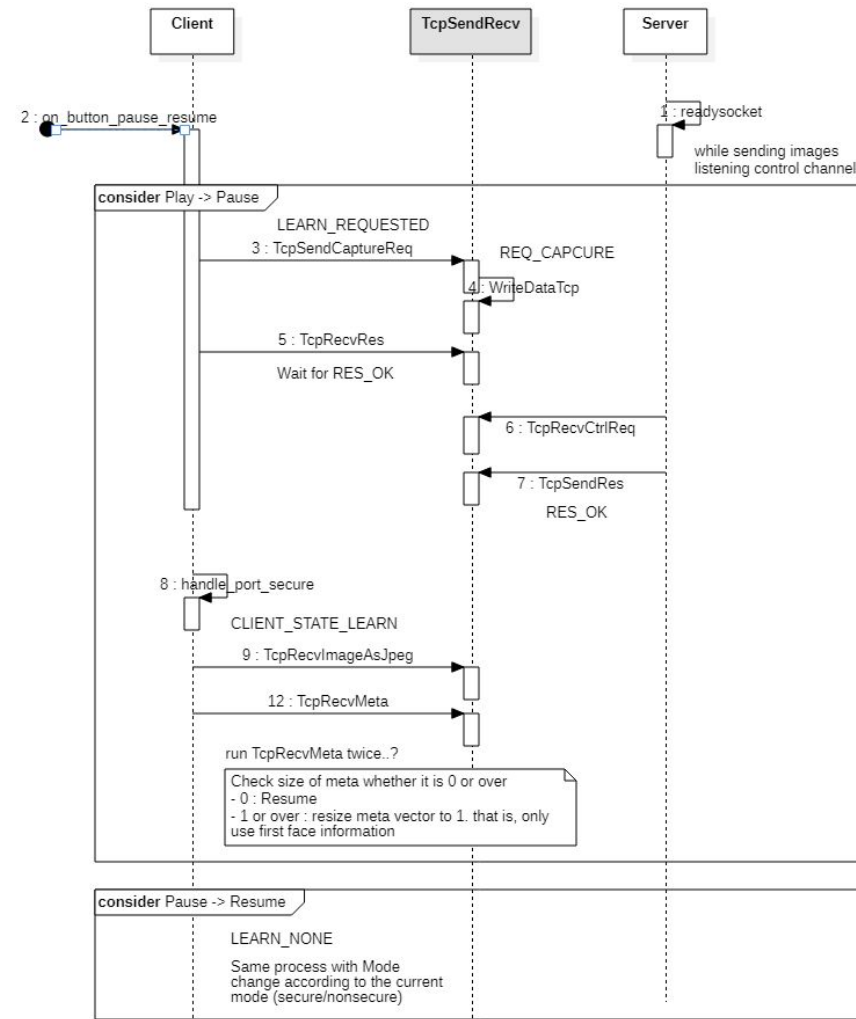
- Change video source



Pause - Switch to Learn mode

Check metadata

- No face - Notification to try again.
- 1 or more faces - The first detected face can be the candidate to save
- Possible no matter what the face is already registered



Save on Learn mode

Press save button with name

Client

- Input validation for the name, send it
- Admin is not allowed

Server

- Save image with encryption

