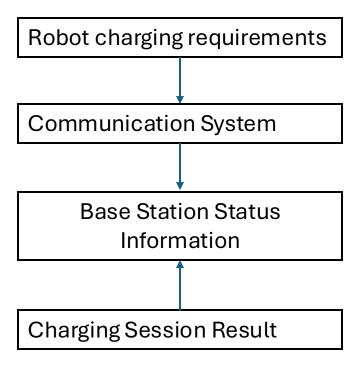
Level 0



## Level 1

- 1 Charging requirement detection
- Charge statusmonitoring -Demand triggering
- 2 Base station discovery and selection
- Scan request broadcast
- Response collection

- 3 Session establishment and handshake
- Connection request transmission
- Handshake message exchange

- 4 Real-time communication session
- Real-time message exchange
- Interval Control<100ms

5 Channel & Power Coordination

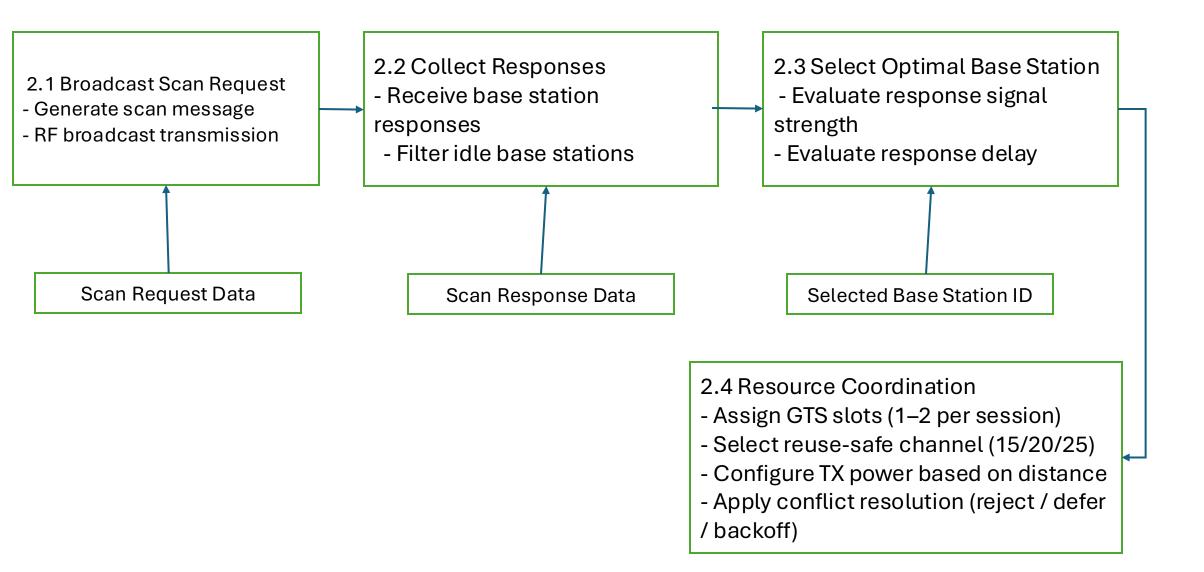
- Channel reuse logic (15/20/25)
- Energy detection, blacklists
- Frequency hopping / CCA

6 GTS Arbitration & Slot Scheduling

- Allocate GTS (1–2 per session)
- Enforce <100ms slots (SD ≤ 61.44ms)

## Data Storage

- List of available base stations
- Session status
- Real-time data buffer



Level 3

- 3.1 Transmission of connection request
- Target Base Station Designation
- Connection Request Construction

3.2 Exchange of handshake messages

- 100-byte Payload
- Encryption/Authentication
- Include assigned GTS slot
- Include confirmed RF channel
- ACK/REJECT based on conflict arbitration

3.3 Session Status Confirmation

Check session\_id, robot\_id match

- Transition to SESSION\_ACTIVE state

