PySCHC Implementation

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Status update

• Implementation Architecture
• Implementation Status
• Next Steps
Implementation Architecture

- **End device**: SCHC
- **Gateway**: LoRa Radio Connectivity
- **Network Server**: IP Connectivity
- **API Gateway**: Lambda Function
Implementation Status

- **PySCHC**
  - Compression/Decompression Module (90%)
  - Fragmentation/Reassembly Module (50%)

- **Implementation**
  - Communication between TTN and AWS is with HTTP REST
  - Supports uplink and downlink messages with compression
  - The testing environment only includes compression
  - The rules are created outside the modules and are loaded into the SCHC_RuleManager
Next Steps

• To finish the C/D Module
  • Implement *mapping-sent CDA* and *LSB CDA*

• To finish the F/R Module

• Testing environment
  • test downlink compression messages (From AWS to Pycom LoPy4 module)
  • send a message from a node on the Internet to the SCHC module in AWS, so that end-to-end communication is complete