WoT AI Services

Gaps

Al Services

- Ollama LLM Service
 - JSON in
 - JSON out (optional streaming not supported in WoT!)
- Piper Text-to-Speech Service
 - Text in (plain; URL variable or in POST body, NOT in JSON)
 - Audio out (WAV file, binary)
- Whisper Speech-to-Text (transcription) Service
 - Audio in (WAV, binary) but also other arguments (language, optional)
 - Multipart/form-data: not supported in WoT!

Multipart/form-data

- Needed for Whisper
- Send audio/wav and text/plain (for language)
- Suggested resolution here:
 - https://github.com/w3c/wot-thing-description/issues/1464

JSON Object Streams

- Ollama API
 - Streaming JSON objects for real-time updates
 - Has a "done" flag in the last object
 - Objects separated by newlines
 - Also optional, have "stream" flag in request
 - Means would need a variable/dependent output data schema