# W3C WoT - Bundang Plugfest

Intel

Goals

- Demonstrate "descriptive" capability
  - Give Thing descriptions for existing devices
  - Automatically or semi-automatically if possible, eg by translating existing metadata
- Bridge multiple ecosystems
  - OCF, web services, node-wot based Things
- NAT Traversal
- Demonstrate application of semantics
  - Semantic voice interface to "generic" Alexa service
- Support secure authentication and confidentiality
  - All interfaces to use one of {basic,digest,bearer} auth and HTTPS (self-signed certs if necessary, external CA if possible)
- Make systems available online pre- and post- plugfest

Current Architecture
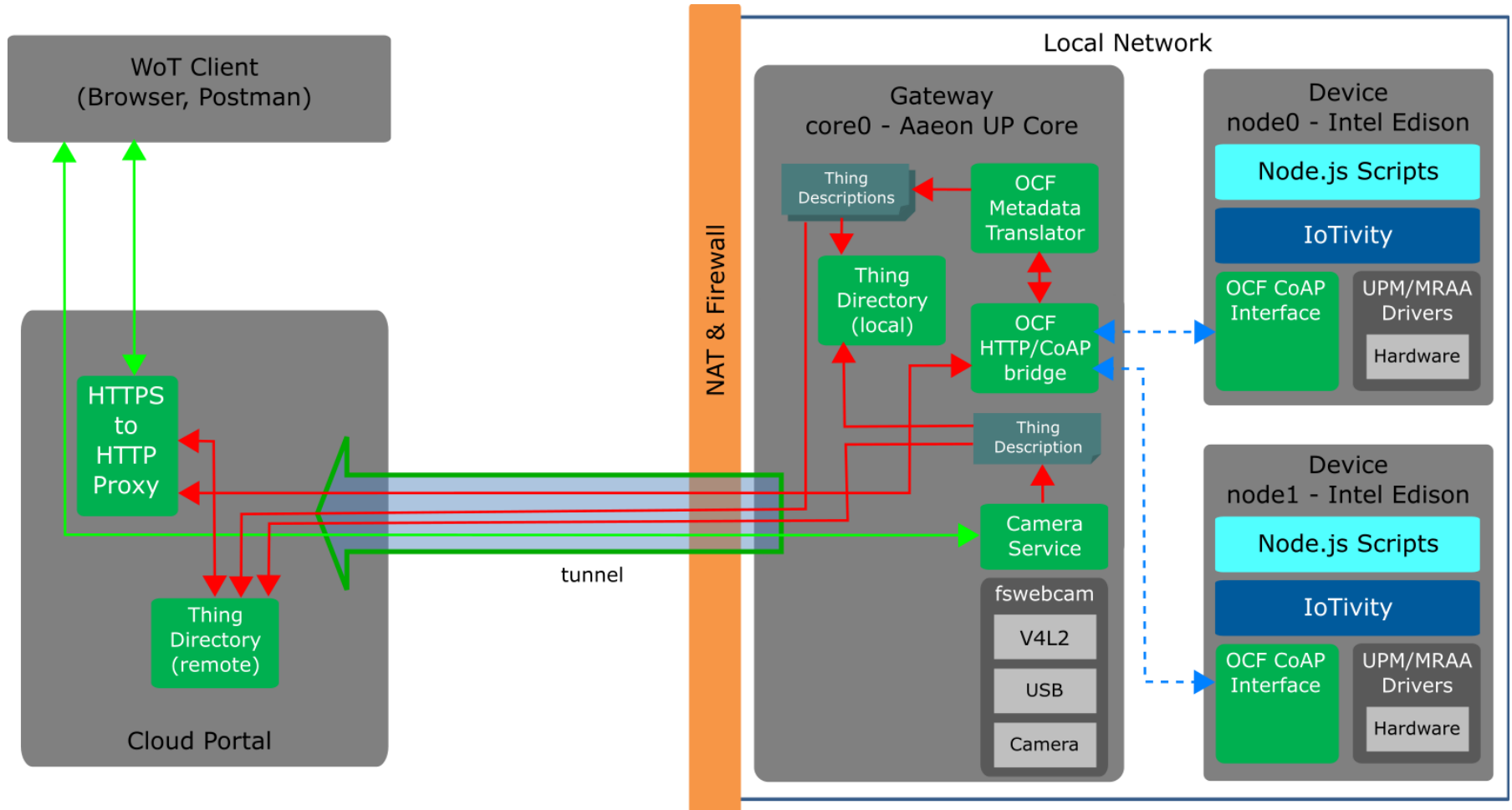
Planned Architecture
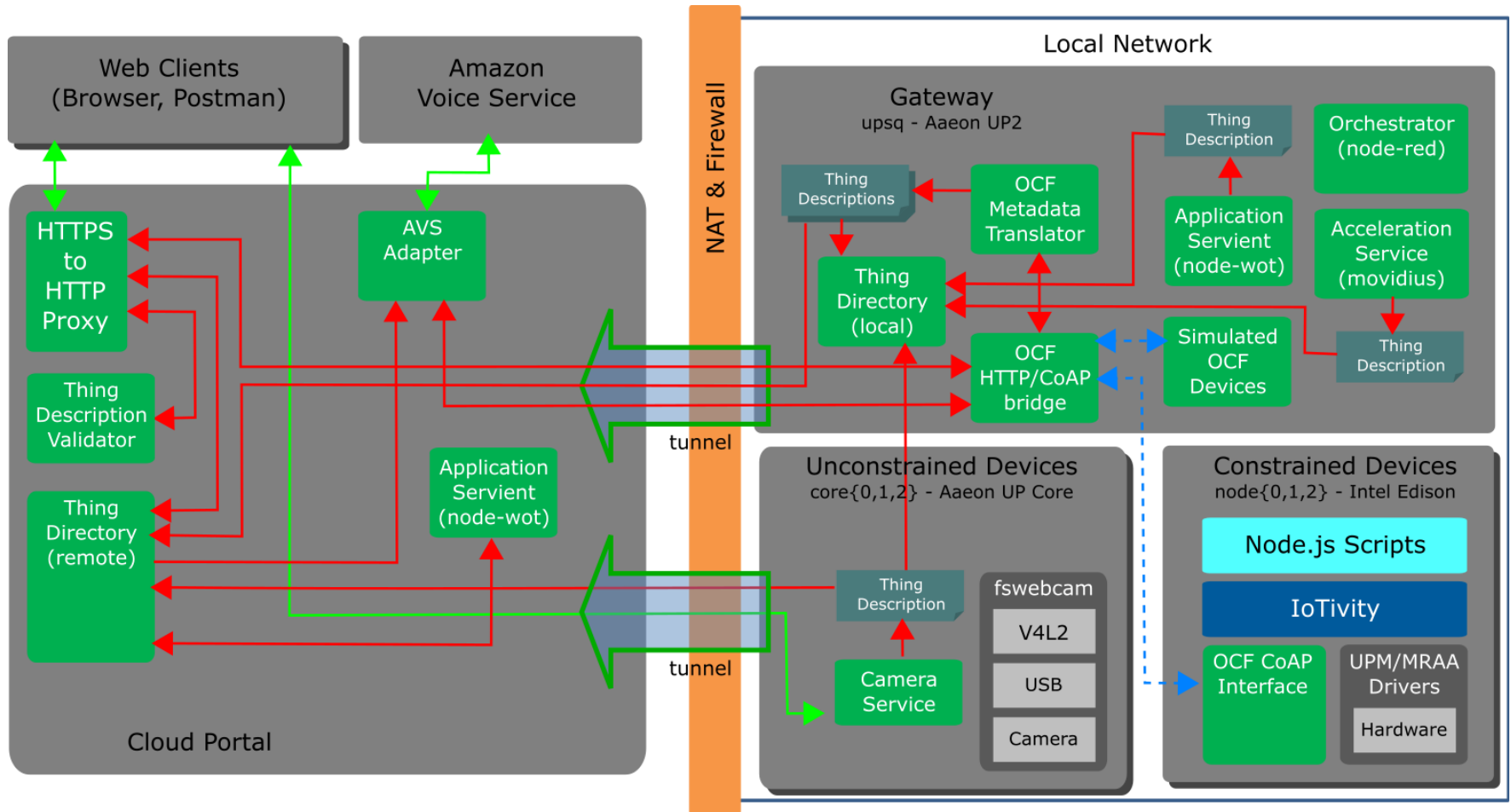
To Do

- Application servients
  - Local (gateway, device) and cloud
  - To use node-wot and thereby demonstrate interoperabilty
- Semantic Voice Interface
  - Now that I finally have a cloud-visible HTTPS interface and a semantically-searchable Thing Directory service running...
- Enhanced security
  - Need to add bearer tokens to non-node-wot implementations and proxy

Collaborations and Use Cases

- Accessibility
  - Continue defining accessibility use cases with Paciello group
- AI Integration
  - Connecting WoT Things with local/remote AI services, specifically object recognition
  - Use Case: Security; PIR sensor detects motion, camera takes picture, object recognition service confirms presence of person in forbidden zone, alarm is sounded.
- Smart Building Vertical Use Cases
  - Building management system and IP camera integration