

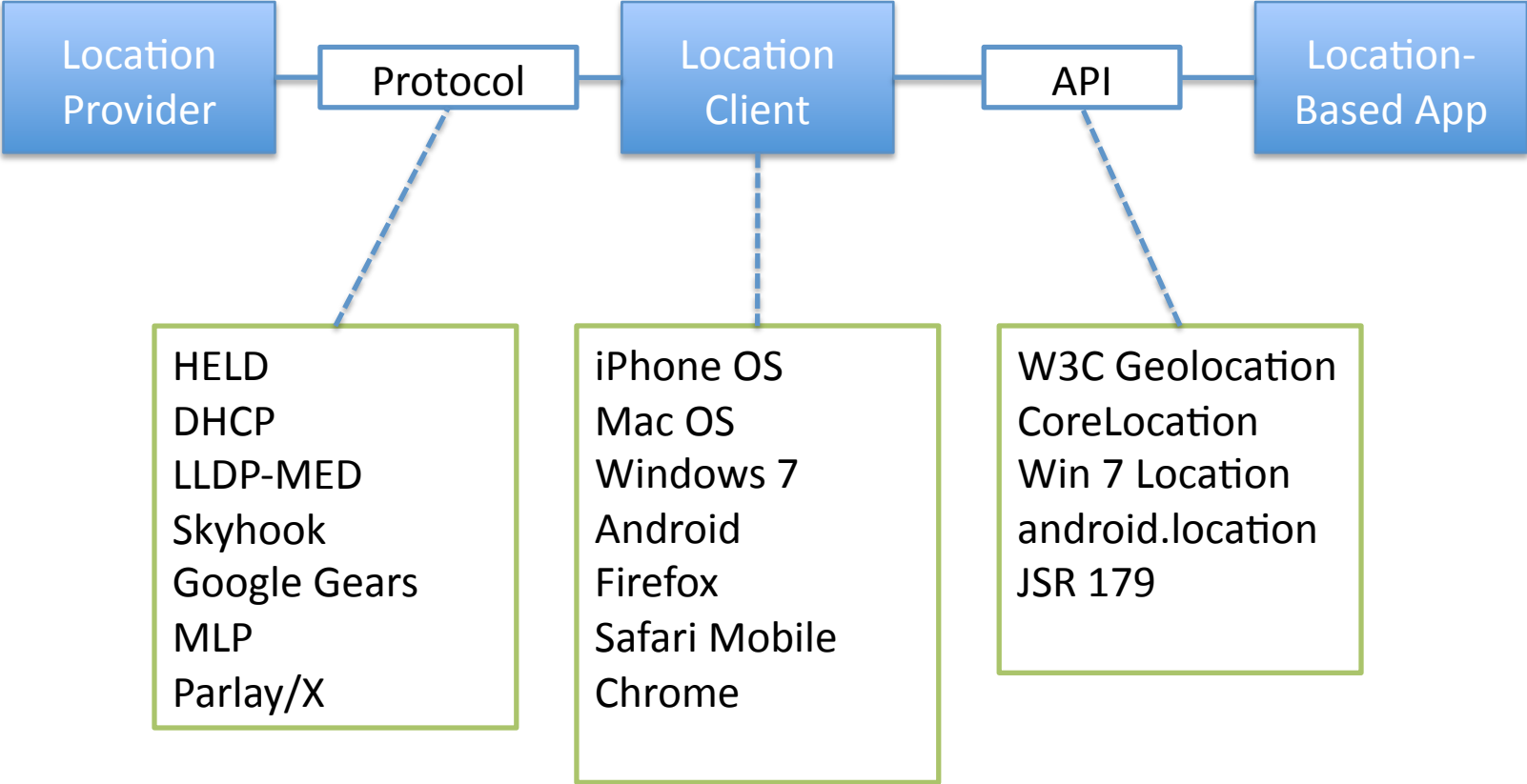
Location Coherence

coherent |kō'hi(ə)rənt| adjective

1 (of an argument, theory, or policy) logical and **consistent** : *they failed to develop a coherent economic strategy.* • (of a person) able to speak clearly and logically : *she was lucid and coherent and did not appear to be injured.*

2 united as or **forming a whole** : *divided into a number of geographically coherent kingdoms.*

ORIGIN *mid 16th cent. (in the sense [logically related to]): from Latin cohaerent- 'sticking together,' from the verb cohaerere (see cohere).*





Protocol



Protocol



API



API



Protocol



Protocol



Presence service subscribe/notify

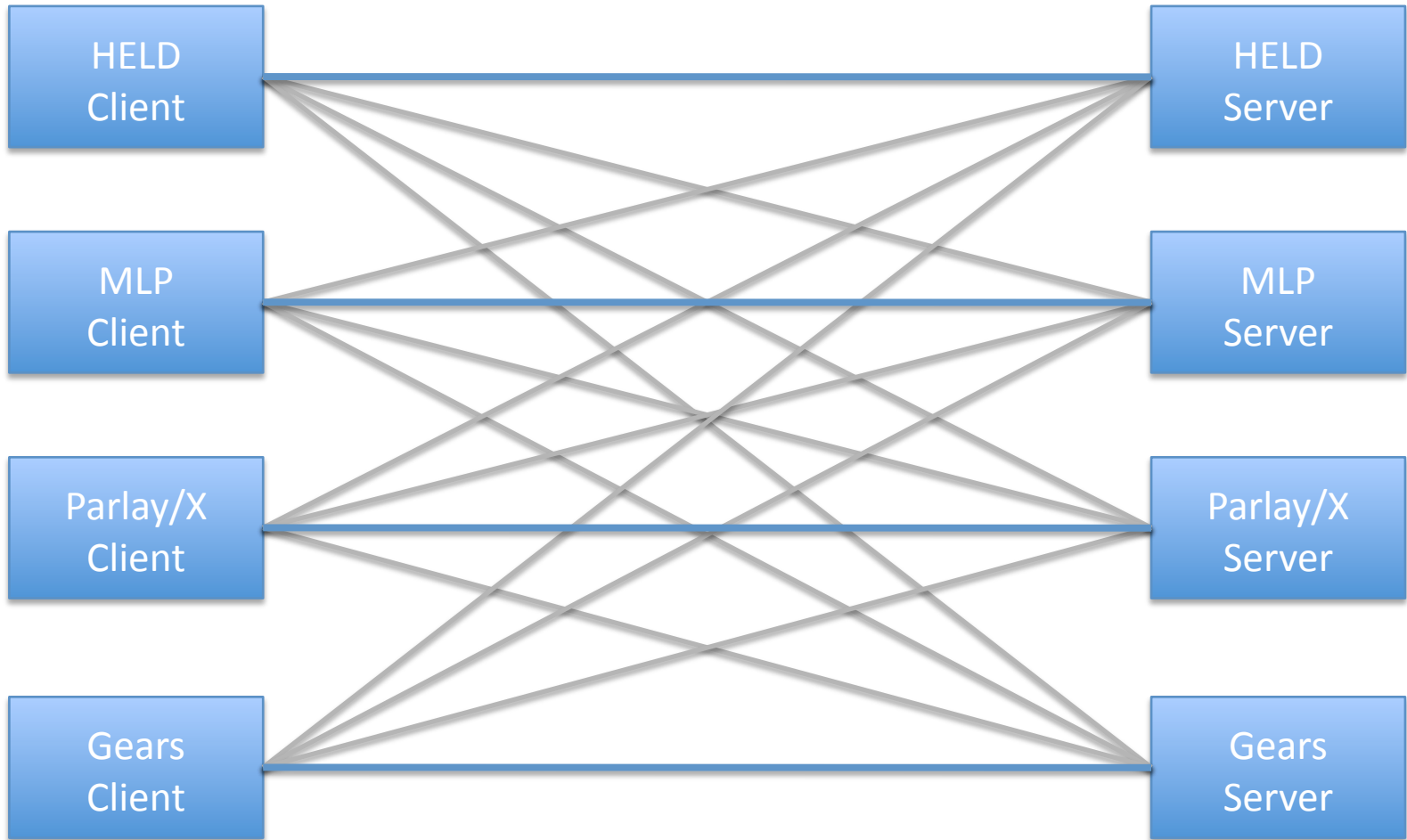
Presence service publish

W3C Location API

HELD Client Library

HELD

Google Geolocation



Practical Goals

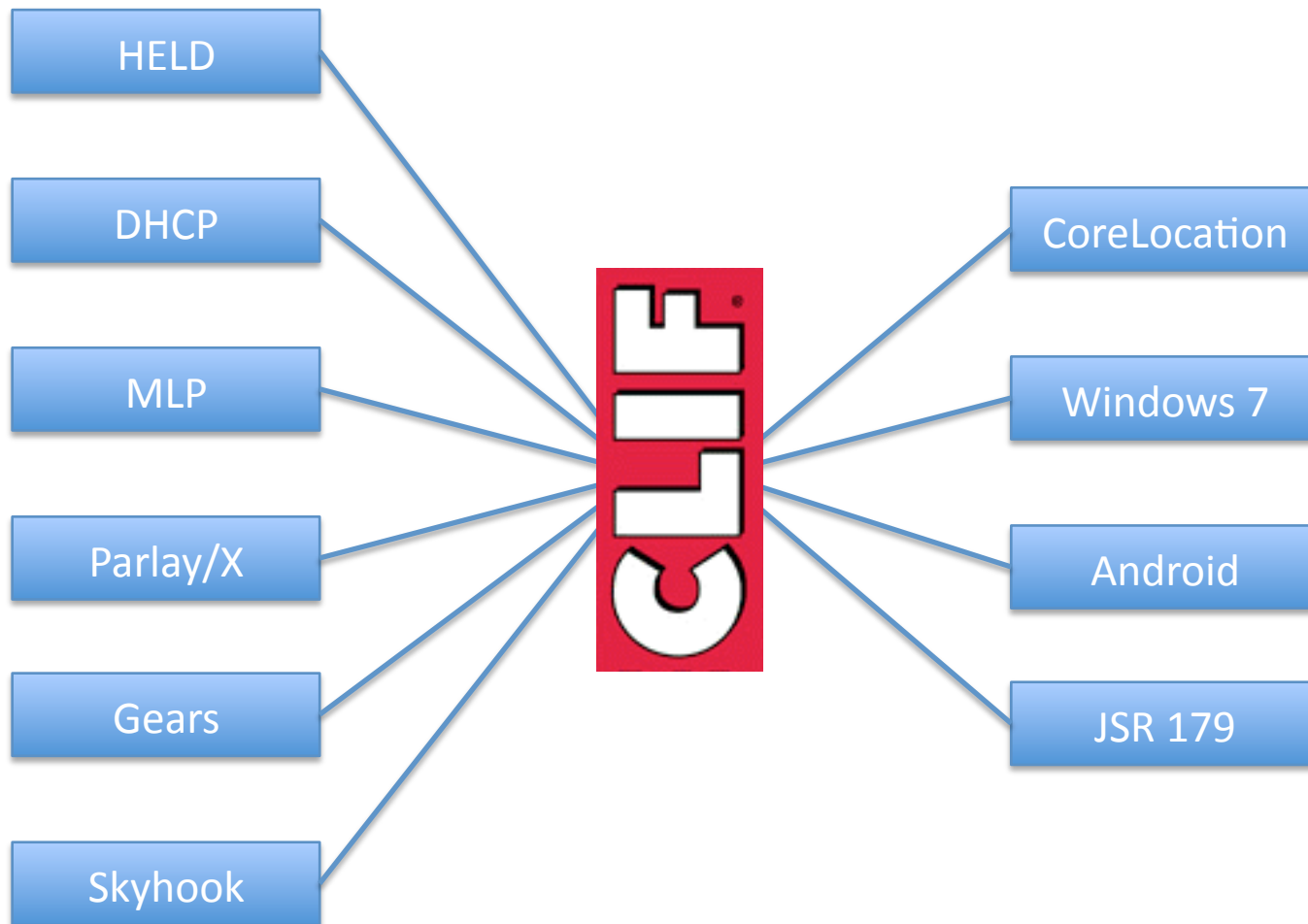
- Overall: Minimize information loss along the “location pipeline”
- Facilitate conversion between existing interface standards
 - Enable interoperability among existing resources
- Provide a framework that can be used for new or updated interfaces

Consistency and Unity

- The basic design pattern is requesting and providing location
 - Request response vs. sub/not
 - Protocol messages or API calls/return
- Need common semantics for
 - Location Requests
 - Location Responses
 - ... in particular, location information *per se*

Off the CLIF

- Common Location Interoperability Framework
- Abstract model for location interfaces
 - Requests: Timing, accuracy, measurements, identifiers
 - Responses: Geodetic location, civic location, location references, timestamps, privacy rules
- Essentially a union over many inputs, with some patching of mis-matches



A Common Framework for Location Protocols
<<http://tools.ietf.org/html/draft-doran-geopriv-proto-map>>

Questions for discussion

- Is this an interesting area of work?
- What should the scope of this work be?
- Should this work be done in the IETF? In GEOPRIV? Elsewhere?
- Who needs to be involved to make this work productive?
- Anyone want to help?