

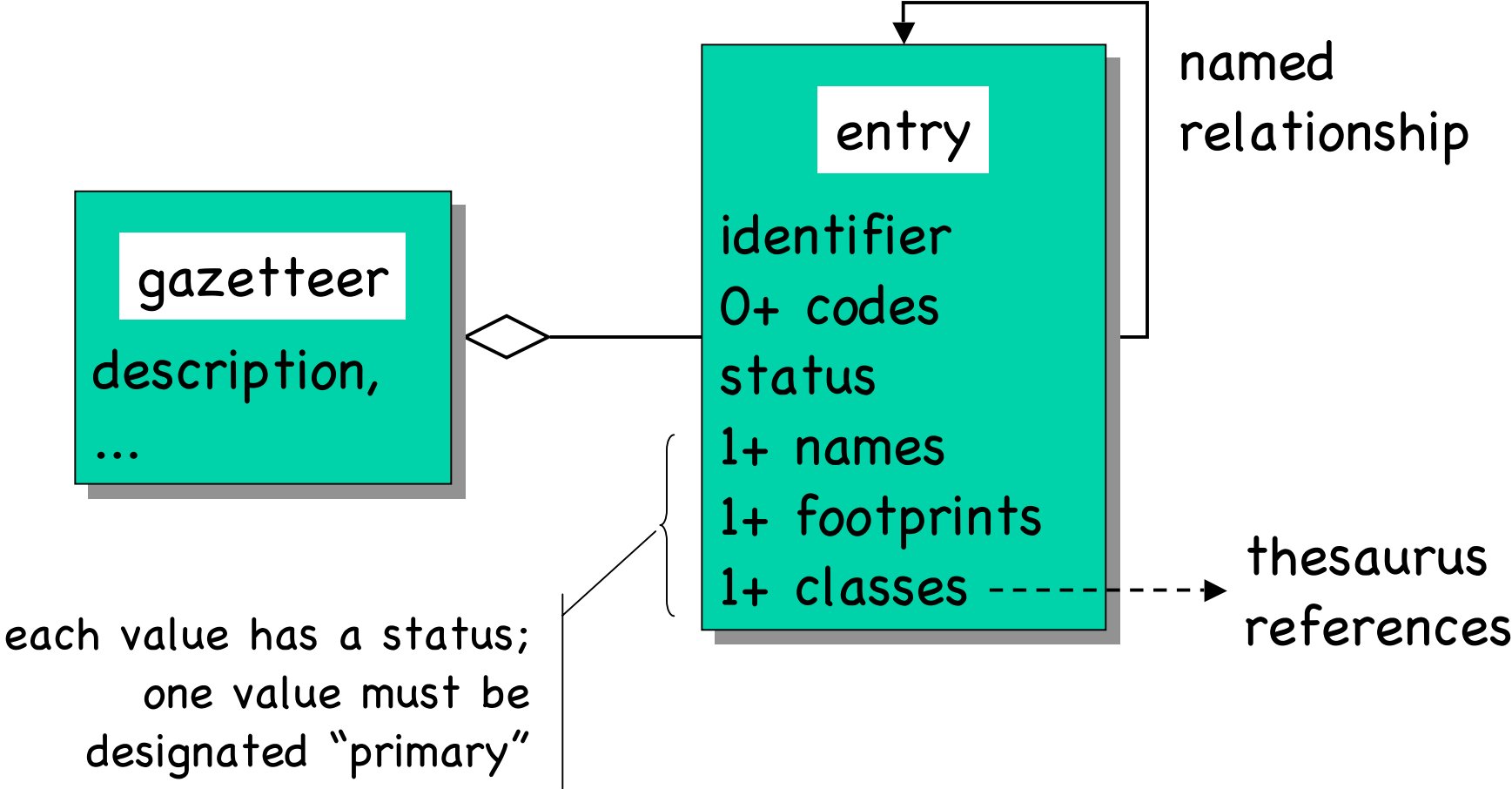
Protocol history

- Impetus
 - define gazetteer's role in ADL architecture
 - functional definition to complement Gazetteer Content Standard (GCS)
- Development
 - 2001: co-developed protocol with ESRI
 - 2003: minor additions, deletions
 - Retargetable server
 - full, GCS-compliant schema
 - "lite" schema
 - Web-based client

Protocol characteristics

- Defines gazetteer model
 - simplified; focus on interoperability
 - compatible with, mappable from GCS
- Seven query types
- Abstract specification
- HTTP+XML instantiation
- Separate thesaurus protocol
 - Z39.19 thesaurus model

Gazetteer model



Desiderata

- SOAP instantiation
- Facilitate qualified queries
 - e.g., find "Redlands, CA"
- Consolidate overlapping, confusing query semantics
 - three similar queries
 - spatially within {California boundary}
 - spatially within California
 - has relationship "part of" to California
 - results are implementation-specific, unpredictable

Future directions

- Formalization of relationships
- Standardization -> distribution -> federation
 - cross-gazetteer references
 - gazetteer coverages; gazetteer hierarchies
 - federated queries
 - conflation
 - creation/ingest services
- Ultimately: gazetteer network