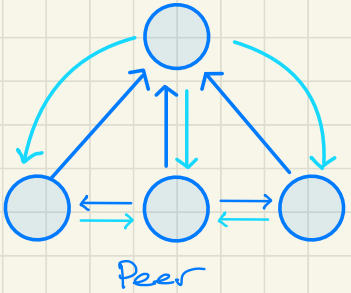
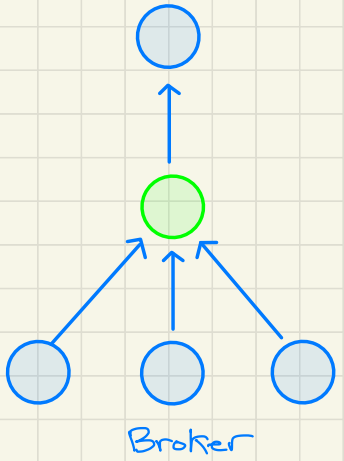
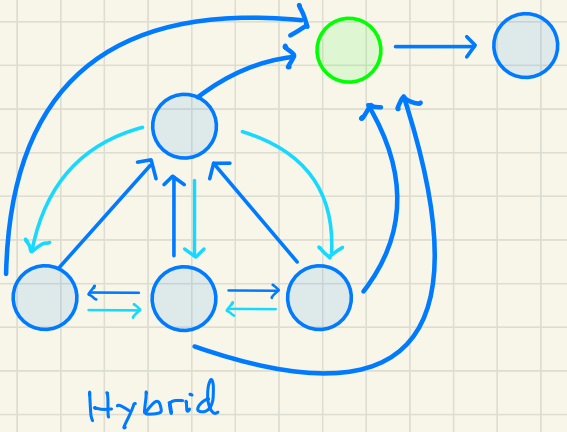
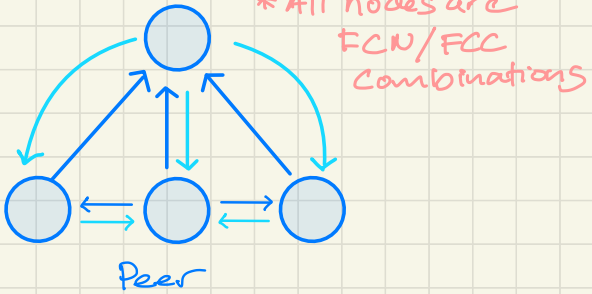
Federated Deployment Topologies

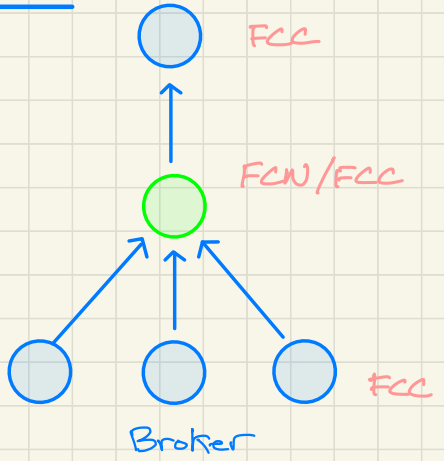


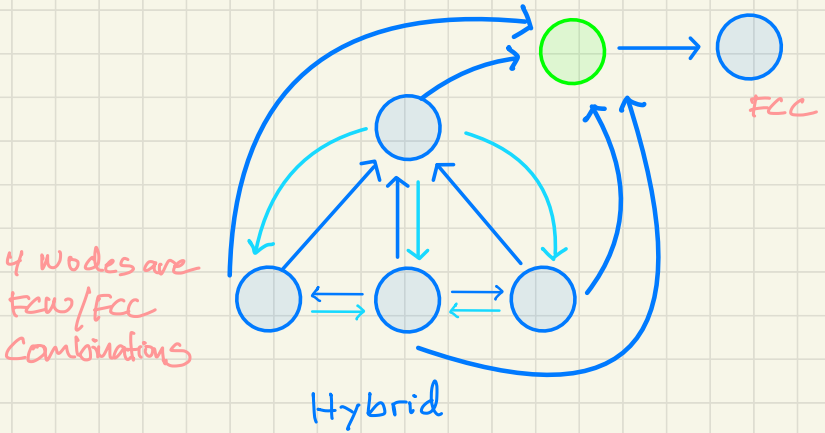




Federated Deployment Topologies (annotated)







Subsystems

FCN

Federated Catalog Node

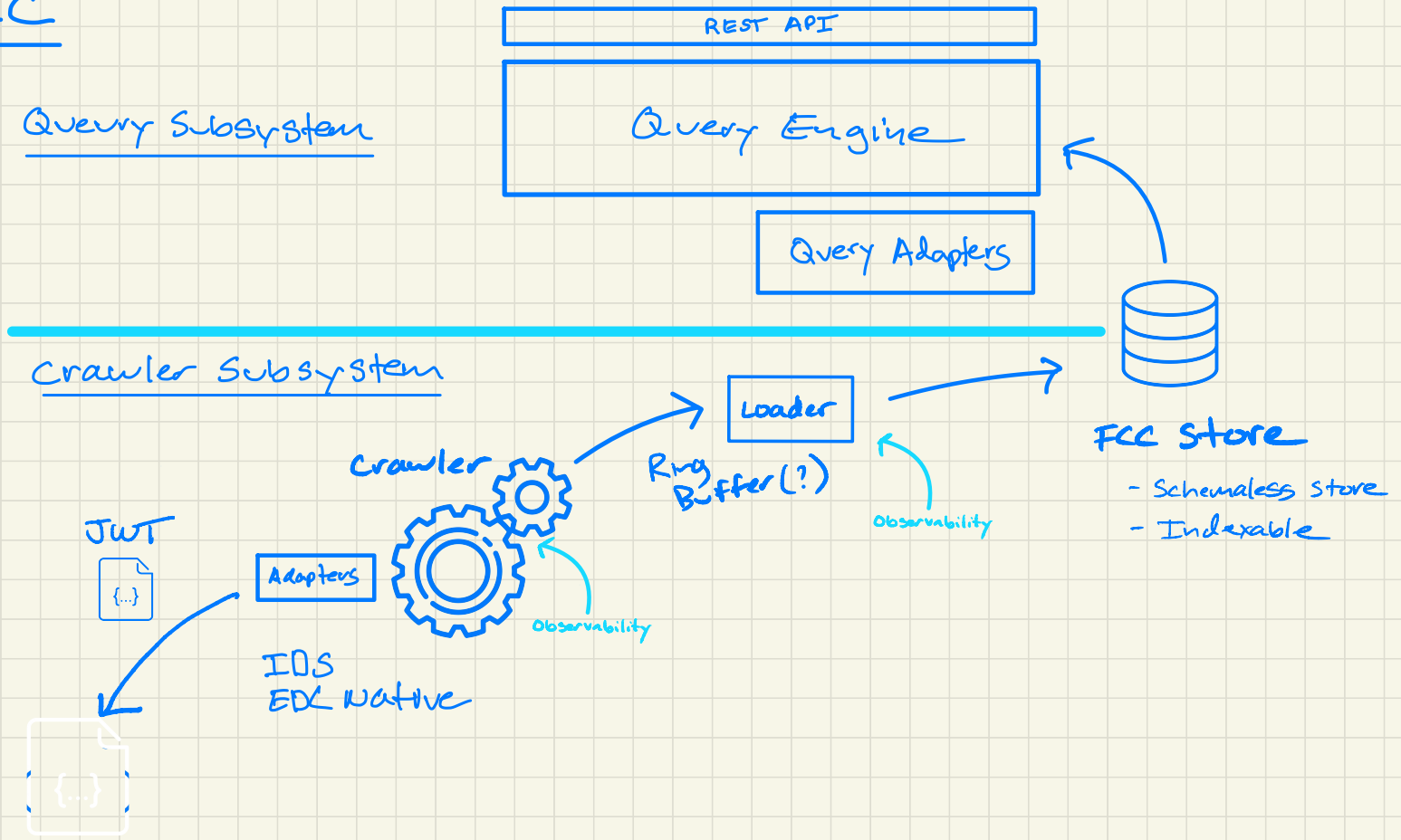
1. Serves a Catalog to dataspace participants
2. Supports Policy-based queries
3. May support multiple catalog protocols
4. Built on the AssetIndex
5. Pluggable storage (may be a backend system or db)

FCC

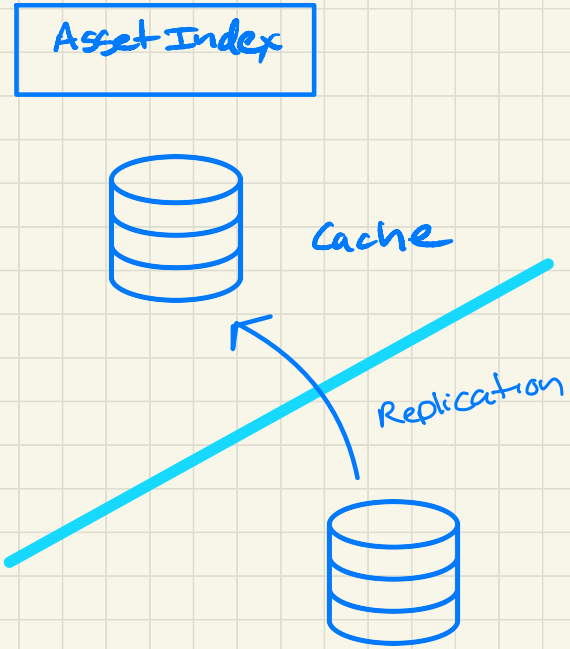
Federated Catalog Cache

1. Caches Foreign Catalog Entries and their policies
2. Provides a query interface
3. Entry can be sent to Connector for retrieval
4. May support multiple catalog protocols
5. Pluggable storage (schemaless)

FCC

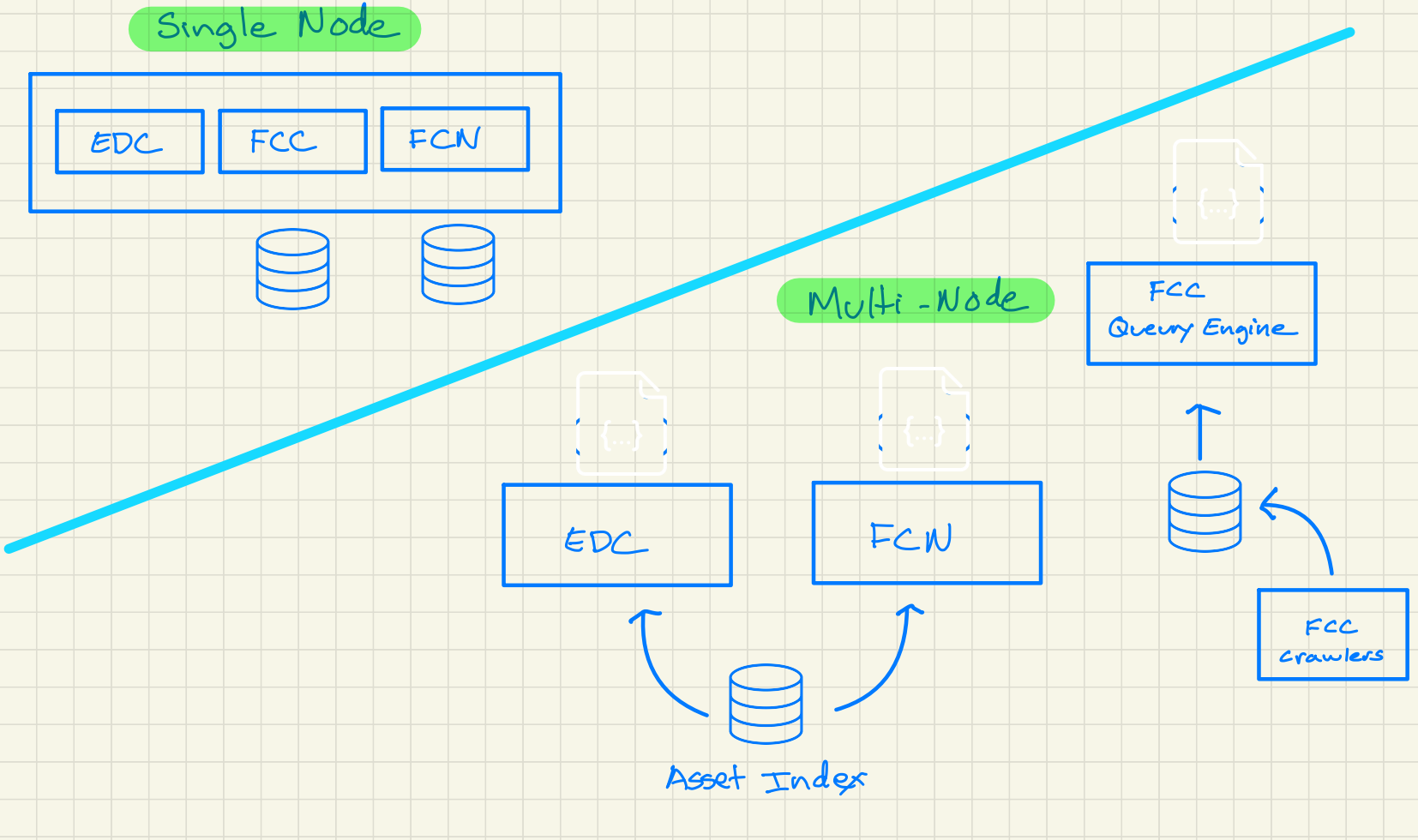

REST API
Query Subsystem
Query Engine
Query Adapters
Crawler Subsystem
Loader
FCC Store
- Schemaless Store
- Indexable
Crawler
Ring Buffer(?)
Observability
JWT
{...}
Adapters
Observability
IDS
EDC Native
{...}

FCN



Data
- Description
- Policies
- Location
  Multiple schemas (HHp)

Packaging Topologies



Differences w/ IDS Broker

- Not just broker data. Can contain service descriptions + other GRAIL-X data
- Ability to enforce policy-based visibility
- Support for completely distributed deployment topologies