

# **WHITE SPACE DATABASE DISCOVERY**

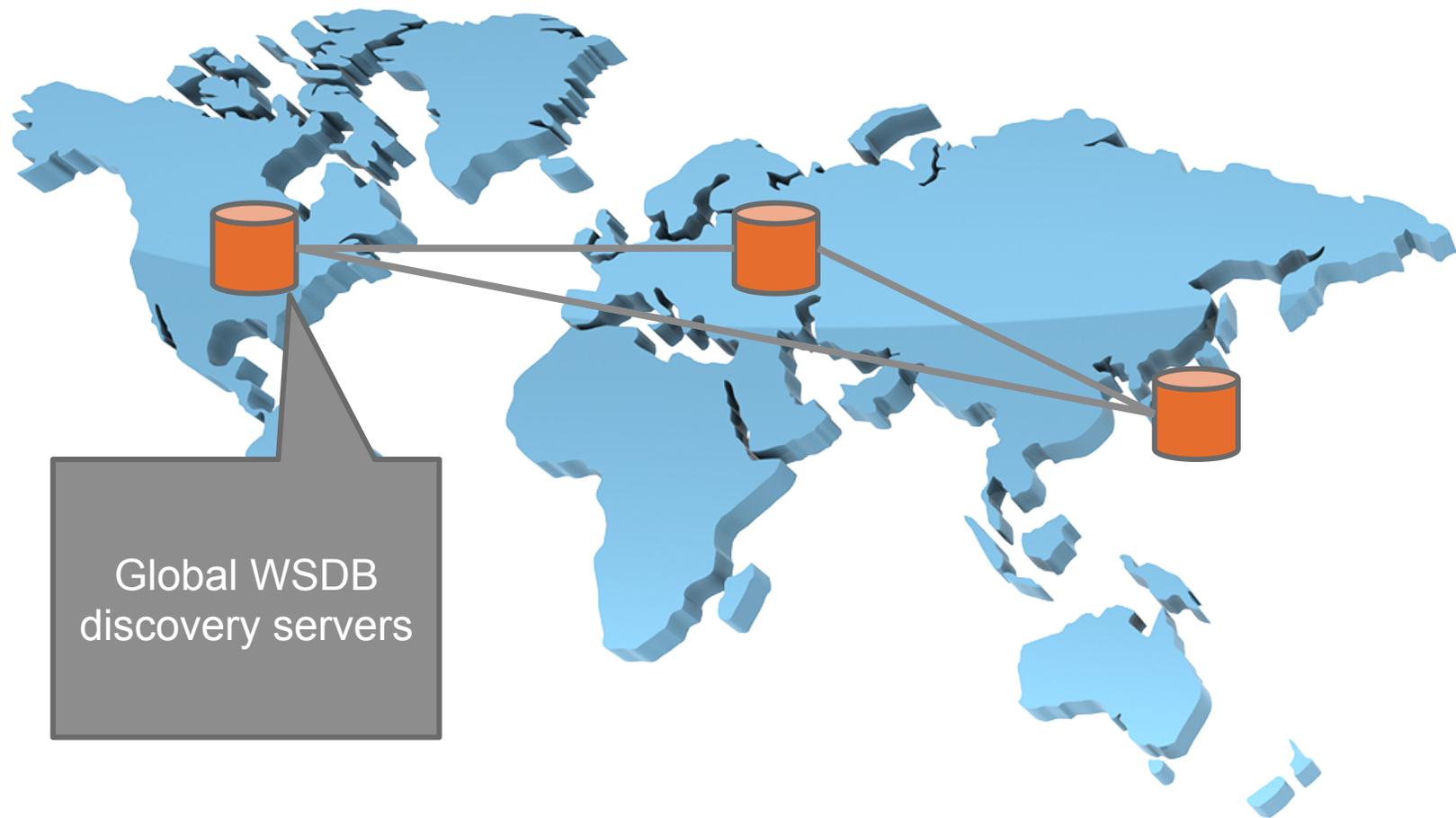
**I-D: DRAFT-PROBASCO-PAWS-DISCOVERY-01**

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# PROBLEM STATEMENT

- **A white space master device is required to discover a database to query for available channels at its current location prior to using that channel**
  - At power up a WSD does not reliably know the regulatory domain corresponding to its current location and consequently a corresponding trusted WSDB to query
- **WSDB Discovery is a component of the PAWS protocol (See Sec 5.2 and Requirements P.1, P.2 & P.3 in the UC&R I-D)**
- **WS Database discovery is independent from the query protocol between a master device and a WSDB**

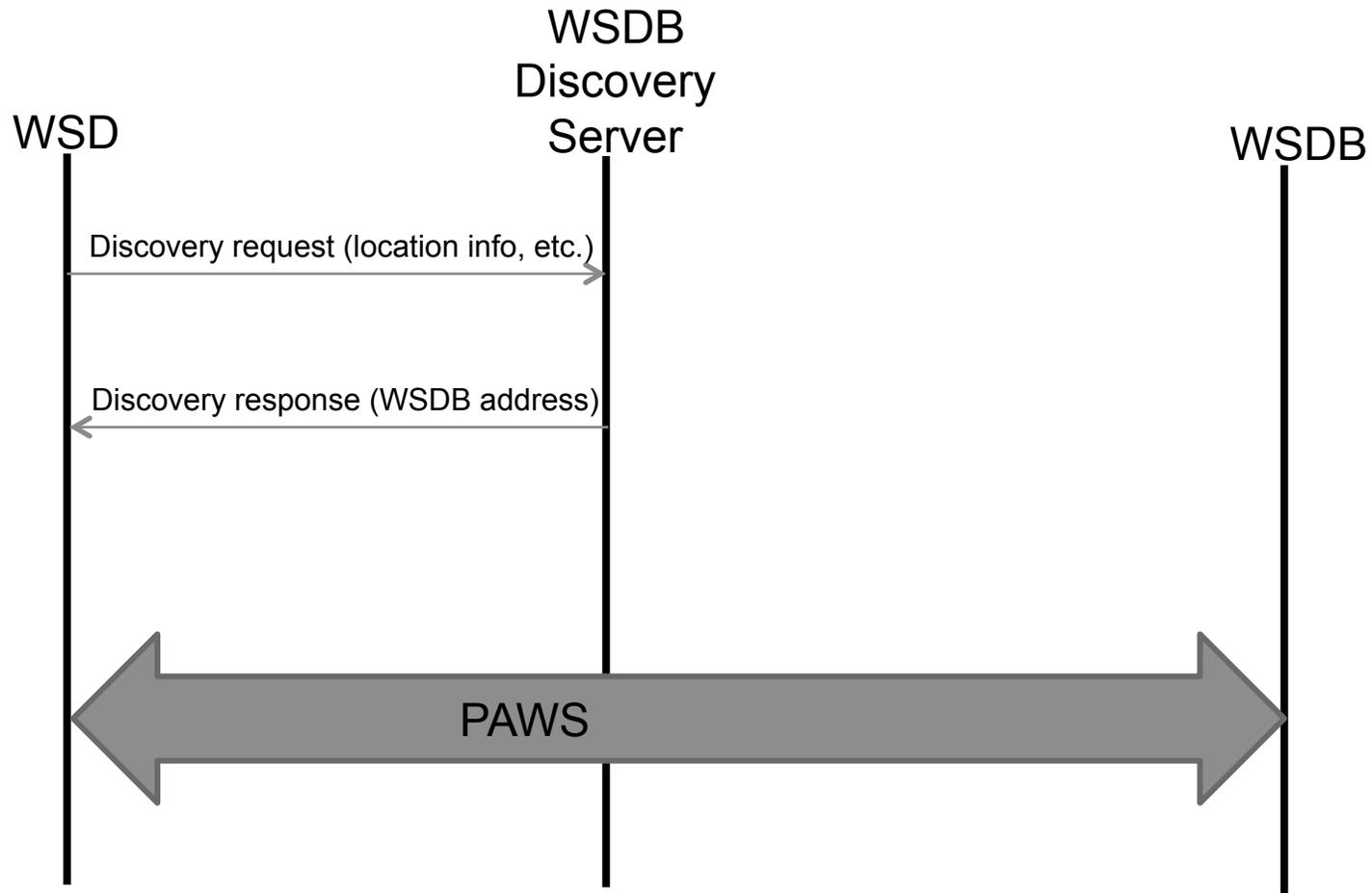
# DISCOVERY SERVER



# WSDB DISCOVERY SERVER

- A WSDB discovery server has global scope
- The discovery server maintains the most current information about authorized white space databases for each regulatory domain
- A master device is configured with the address of a WSDB discovery server
- WSDB discovery servers may be operated by a DB provider or device manufacturer

# DB DISCOVERY PROCESS



# CAVEATS

- **Not all WS devices require a database discovery server**
  - They could be preconfigured with a WSDB address (Req P.2)
- **The WSDB discovery server may deliver a list of WSDBs available within a regulatory domain**
  - Policy on the WSD may then decide which of the databases to use

# PROPOSAL

- **The discovery of a WSDB using a discovery server is simple and easy to deploy**
- **The Discovery request/response messages are HTTPS based**
- **Consider the adoption of this I-D as the starting point for the solution to the DB discovery requirement (P.1, P.2 & P.3)**

# Questions???