

# **Consolidated Provisioning Problem Statement**

draft-ietf-drinks-cons-reqs-00

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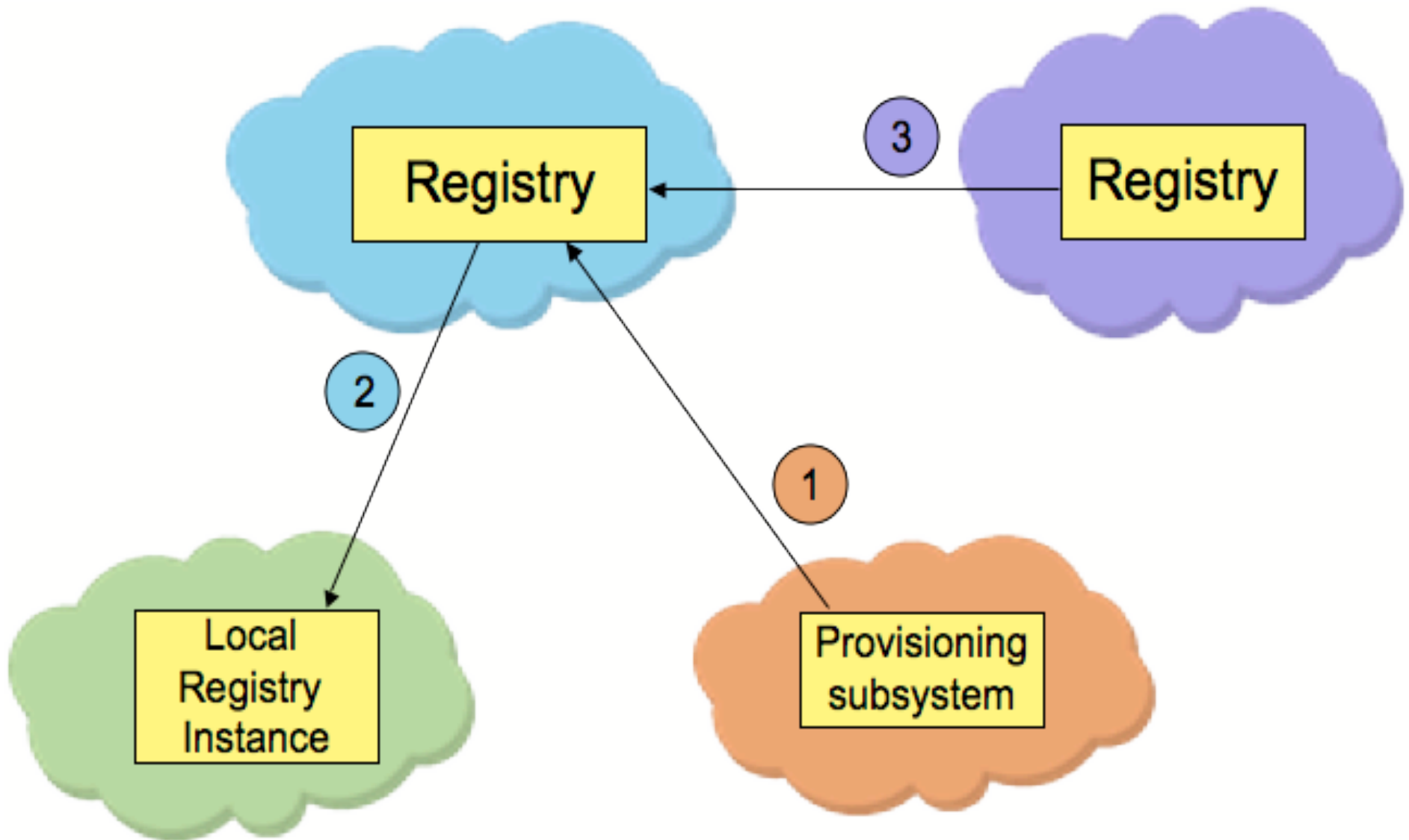
## **DRINKS WG**

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# Provisioning Interfaces



# LUF Vs LRF

(from SPEERMINT terminology draft)

## ○ LUF

"... provides a mechanism for determining for a given request the target domain to which the request should be routed."

- draft-ietf-drinks-cons-rqts-00 (mostly)
- draft-mule-peppermint-espp-requirements-01
- draft-guyton-drinks-registry-data-00

## ○ LRF

"... determines for the target domain of a given request the location of the SF in that domain and optionally develops other SED required to route request to that domain."

- draft-mule-peppermint-espp-requirements-01
- draft-kaplan-drinks-lrf-requirements-00

# Registry Data Requirements

- Index/Key Data

- Prefixes

- Variable length
    - Private/public
    - Sub/super/overlapping

- Resolution Data

- “Ownership” not reachability (Transit counts as well)
    - Multiple “owners” possible hence multiple data sets
  - LNP considerations
  - NAPTR compatibility and general future-proofing
  - Bulk exchange considerations

# Logical Operations On Registry Data

- **Add** – Add (responsible VSP) data about a new prefix to the registry
- **Delete** – Remove prefix as it no longer exists anywhere
- **Port-Out** – Prefix exists but previous owner no longer responsible for it
- **Port-In** – Prefix existed before and is now being assigned to new owner
- **Transfer** – Port-Out followed by Port-in (reduce “failure” time)
- **Renumber** – Prefix changed but associated data remains the same
- **Modify** – Some other attribute of prefix modified (e.g. target URI)

# Other Registry Attributes

- **Validity** – DateTime window within which prefix is addressable
  - Needed for port-in and port-out capability
- **Number Type** – Unknown, IP, PSTN, both (LRF)
- **PSTN carrier code** – numbers with no IP reachability (LRF)
- **Media Type** – voice, video, message (LRF)

# Protocol Requirements

- XML based
- Secure
- Widespread adoption

# Next Steps

- Agree on terminology
- Consolidate requirement documents
- Work on a use-case document?
- Work on an architecture document?