

# CDNI Footprint & Capabilities Interface draft-ma-cdni-capabilities-04

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# Footprint & Capabilities Interface

- HTTP-based API (JSON payload)
  - capability type
    - CDNI Capabilities registry defined in Semantics draft
  - list of supported values for that capability
    - CDNI Metadata Protocols defined in Metadata draft
    - CDNI Capabilities Redirection Modes defined in Semantics draft
  - optional override of default footprint
    - CDNI Metadata Footprint Types defined in Metadata draft
  - incremental updates to default capabilities/footprints, pre-advertised during bootstrap or defined out-of-band
  - no quality metrics for capabilities or footprints

# Updates Since IETF86 Orlando

- Updated Requirements draft references
- Updated to agreed upon CDNI Interface names
- Updated payload format to JSON to align with other CDNI interfaces
- Updated capability list to align with Semantics draft
- Replaced cumulative “update” and “removal” APIs with incremental advertisements
- Added “reset” and “initialization” APIs for level setting any out-of-sync incremental advertisements
- Added footprint update modes: “include”, “exclude”, and “replace”, with “replace” as the default mode
- Updated references to externally defined registries

# Next Steps

- Need to finalize the initial set of Metadata capabilities to be advertised
- Need to finalize the initial set of Logging capabilities to be advertised
- Open Questions:
  - Should we select a single FCI protocol or multiple?
  - Should we adapt an existing protocol for FCI or define our own?
  - Should FCI messages include information for multiple request routers, or only aggregate information for a single authoritative request router?