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?