

CDNI Capacity Capability Advertisement Extensions

draft-ietf-cdni-capacity-insights-extensions-02

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Capacity Extensions Refresher Summary

Enhance delegation decisions by allowing communication of:

- Traffic delegation limits, implemented via `FCI.CapacityLimits`
 - egress bits per second
 - requests per second
 - storage-size total bytes
 - storage-object count
 - sessions count
 - cache-size total bytes
- Telemetry sources providing near real time metrics, as measured by the dCDN, corresponding to each defined limit, implemented via `FCI.Telemetry`

FCI.CapacityLimits Example

```
"capabilities": [
  {
    "capability-type": "FCI.CapacityLimits",
    "capability-value": {
      "limits": [
        {
          "id": "capacity_limit_region1",
          "limit-type": "egress",
          "maximum-hard": 50000000000,
          "maximum-soft": 25000000000,
          "telemetry-source": {
            "id": "capacity_metrics_region1",
            "metric": "egress_5m"
          }
        }
      ]
    },
    "footprints": [
      "<footprint objects>"
    ]
  }
]
```

Changes from Revision 01

- 1.0 Remove text on payload type registration
- 1.0 Clarify that limits and metrics are advisory, not a guarantee
- 1.3 Remove paragraph referencing non-existing API callback
- 2.1.1, 2.1.1.2, 2.2.1 Clarify uniqueness requirement for identifier
- 2.2.1 Clarify allowed and default value of 'maximum-soft' property
- 2.2.1 NOT RECOMMENDED use of 'current' when TelemetrySource is available
- 2.2.1.2 Reference to Telemetry Capability object
- 4 Remove unnecessary reference to RFC8006
- Many text and grammar fixes (thank you to Kevin Ma for thorough review)

Next?

- Do we need IANA registry for the Limit and Metric types?
- Any other major items that need addressing? If no, when to proceed to WGLC?