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?