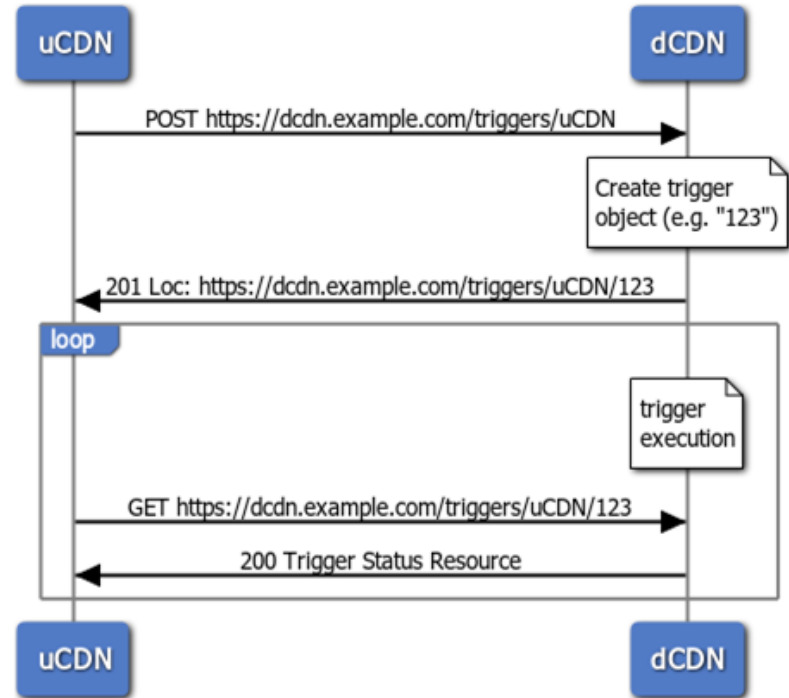


CDNI Control Interface / Triggers - 2nd Edition

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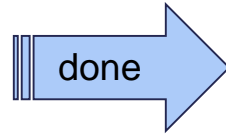
RFC 8007: CDNI Control Interface / Triggers

- Content/Metadata management
 - Preposition
 - Invalidation
 - Purge



New Trigger.v2 object properties

- Type (e.g. preposition)
- cdn-path
- Trigger Extensions
 - metadata.urls
 - content.urls
 - content.ccid
 - metadata.patterns
 - content.patterns
 - content.regexes
 - content.playlists



- Type (e.g. preposition)
- cdn-path
- Trigger Extensions
- Trigger Specs

Generic “Spec” object

- Specify targets to execute the trigger on
- Generic - several types are already defined
 - UrlsSpec
 - CcidSpec
 - UriPatternsSpec
 - UrlRegexesSpec
 - ContentPlaylistsSpec
 - Future ...
- Apply to a specified Trigger-Subject
 - Metadata
 - Content
 - Future ...

Done

Generic “Spec” object - structure

Properties

- spec-subject
- generic-trigger-spec-type
- generic-trigger-spec-values

Done

```
{
  "spec-subject": "CIT.Metadata",
  "generic-trigger-spec-type": "CIT.UrlSpec",
  "generic-trigger-spec-value": {
    "urls": [
      "https://metadata.example.com/a/b/c"
    ]
  }
}
```

Suggested rename: trigger type → action

- Preposition
- Invalidation
- Purge

Done

Trigger.v2: An example

```
"trigger.v2": {
  "action": "CIT.Preposition",
  "specs": [
    {
      "spec-subject": "CIT.Metadata",
      "generic-trigger-spec-type": "CIT.UrlSpec",
      "generic-trigger-spec-value": {
        "urls": [
          "https://metadata.example.com/a/b/c"
        ]
      }
    },
    {
      "spec-subject": "CIT.Content",
      "generic-trigger-spec-type": "CIT.UrlSpec",
      "generic-trigger-spec-value": {
        "urls": [
          "https://www.example.com/a/b/c/1",
          "https://www.example.com/a/b/c/2",
        ]
      }
    }
  ],
},
```

Done

Spec objects inconsistent structure

- There are specs like the [url spec](#) that are built of plain strings
- Other specs have multiple fields and are therefore based on dictionaries - e.g. [uri pattern spec](#)
- For consistency we might want to change all specs to be built of dictionaries

Spec objects inconsistent structure

Strings

```
"specs": [  
  {  
    "generic-trigger-spec-type": "CIT.UrlSpec",  
    "generic-trigger-spec-value": {  
      "urls": [  
        "https://example.com/a/b/c"  
      ]  
    }, ...  
  },  
  {  
    "generic-trigger-spec-type": "CIT.UriPatterns",  
    "generic-trigger-spec-value": {  
      "patterns": [  
        {  
          "pattern": "https://www.example.com/a/b/*",  
          "case-sensitive": true  
        }  
      ]  
    }, ...  
  }  
]
```

Dicts

Spec objects inconsistent structure

```
"specs": [  
  {  
    "generic-trigger-spec-type": "CIT.UrlSpec",  
    "generic-trigger-spec-value": {  
      "urls": [  
        {  
          "url": "https://www.example.com/a/b/c",  
        }  
      ]  
    }, ...  
  },  
  {  
    "generic-trigger-spec-type": "CIT.UriPatterns",  
    "generic-trigger-spec-value": {  
      "patterns": [  
        {  
          "pattern": "https://www.example.com/a/b/*",  
          "case-sensitive": true  
        }  
      ]  
    }, ...  
  }  
]
```

What is still left to be done?

- Do a broad sweep review of aforementioned changes including
- Check for consistent changes across
- Submit an updated draft prior to IETF 116
- Ask for a WGLC at IETF 116