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
- done

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 …
Generic “Spec” object - structure

Properties

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

```json
{
    "spec-subject": "CIT.Metadata",
    "generic-trigger-spec-type": "CIT.UrlsSpec",
    "generic-trigger-spec-value": {
        "urls": [
            "https://metadata.example.com/a/b/c"
        ]
    }
}
```
Suggested rename: trigger type → action

- Preposition
- Invalidation
- Purge

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

```
"specs": [
    {
        "generic-trigger-spec-type": "CIT.UrlsSpec",
        "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
                }
            ]
        }
    },
]
```
Spec objects inconsistent structure

"specs": [
    {
        "generic-trigger-spec-type": "CIT.UrlsSpec",
        "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