Workgroup: Network Working Group
Internet-Draft: draft-temporal-uri-scheme-00
Published: 26 December 2022
Intended Status: Informational
Expires: 29 June 2023
Authors: J. Fuller

Temporal URI scheme

Abstract

This document registers the "dt" URI scheme, to unambiguously
identify a discrete point in time.

Note to Readers

RFC EDITOR: please remove this section before publication

The issues list for this draft can be found at https://github.com/xquery/temporal-uri-scheme.

   *[Editor's Copy](#)

   *[Datatracker Page](#)

Status of This Memo

Copyright Notice

Table of Contents

1. Introduction

This document defines the URI scheme "dt", which describes resources identified by date-time.

1.1. Notational Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

This document uses ABNF [RFC5234]. It also uses the date-time rule from [RFC3339].

2. The "temporal" URI Scheme

The "temporal" URI scheme allows for the construction of a URI which represents a discrete point in time.

```
temporal-URI    = temporal-scheme ":" dt
temporal-scheme = "dt"
dt              = date-time
```

See [RFC3339], Section 5.6.3 for a definition of date-time.

For example, given the URI:

```
dt:20221222T162813Z
```

Would represent a discrete point in time of "2022-12-22T16:28:13Z".

The following examples would also be valid URIs:

```
dt:2022-12-22T16:28:13Z
dt:1985-04-12T23:20:50.52Z
```

This RFC intentionally provides no definition of how URI's might be parsed or compared by applications using them. For example, it is possible to define two URI's which refer to the exact same point in time and it is left to consuming application (or some future specification) to define what that might 'mean'.

3. IANA Considerations

This document registers the following value in the "Uniform Resource Identifier (URI) Schemes" registry:

Scheme name:
    dt

Status:
    provisional

Applications/protocols that use this scheme:
    none yet

Contact:
    iesg@iesg.org

Change Controller:
    IESG

References:
    (this document)

4. Security Considerations

TBA

5. Normative References

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate
           Requirement Levels", BCP 14, RFC 2119, DOI 10.17487/

RFC2119, March 1997, <https://www.rfc-editor.org/rfc/
rfc2119>.

[RFC3339] Klyne, G. and C. Newman, "Date and Time on the Internet:
           Timestamps", RFC 3339, DOI 10.17487/RFC3339, July 2002,
           <https://www.rfc-editor.org/rfc/rfc3339>.

[RFC5234] Crocker, D., Ed. and P. Overell, "Augmented BNF for
           Syntax Specifications: ABNF", STD 68, RFC 5234, DOI
           10.17487/RFC5234, January 2008, <https://www.rfc-
           editor.org/rfc/rfc5234>.

[RFC8174] Leiba, B., "Ambiguity of Uppercase vs Lowercase in RFC
           2119 Key Words", BCP 14, RFC 8174, DOI 10.17487/RFC8174,
           May 2017, <https://www.rfc-editor.org/rfc/rfc8174>.

Acknowledgements

Author's Address

James Fuller
Prague
Czech Republic

Email: jim@webcomposite.com
URI: https://jim.fuller.name/