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Recording Well-Known URI Capability in the URI Scheme Registry
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Abstract

RFC 5785 defines a path prefix, "/.well-known/", that can be used by well-known URIs, specifically for the "http" and "https" URI schemes, which has since been adopted by other URI schemes. The present memo formally updates RFC 7595, which defines the URI schemes regustry, to record the availability of these well-known URIs to the URI schemes registered there.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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This Internet-Draft will expire on October 6, 2019.

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1. Introduction

[RFC5785] defines a path prefix, "/.well-known", that can be used by well-known URIs, as well as an IANA registry for URI suffixes to be used with this path prefix for forming well-known URIs.

In [RFC5785], this mechanism is specifically defined for the "http" and "https" URI schemes (now defined in [RFC7230]). Other URI schemes such as "coap" and "coaps" [RFC7252] have since picked up this mechanism, sharing the registry of URI suffixes with that for HTTP(S).

[RFC7595], which defines the URI scheme registry [IANA.uri-schemes], does not foresee recording the availability of well-known URIs for a scheme being registered. Hence, there is no central reference that can easily be used to find out which schemes do support well-known URIs.

The present memo formally updates [RFC7595] to record the availability of these well-known URIs to the URI schemes registered in [IANA.uri-schemes].

2. IANA considerations

IANA is requested to add a column to the Uniform Resource Identifier (URI) Schemes Registry [IANA.uri-schemes] labeled "Well-Known URI OK", with a default value of "-". If a URI scheme explicitly has been specified to use well-known URIs as per Section 3 of [RFC5785], the value changes to a reference to that specification. Initial values not equal to "-" are given in Table 1.

URI Scheme	Well-Known URI OK?
coap	[RFC7252]
coap+tcp	[RFC8323]
coap+ws	[RFC8323]
coaps	[RFC7252]
coaps+tcp	[RFC8323]
coaps+ws	[RFC8323]
http	[RFC5785]
https	[RFC5785]
ws	[RFC8307]
wss	[RFC8307]

Table 1: Rows in URI scheme registry with nonempty new column

3. Security considerations

The Security Considerations of [RFC5785] apply and need to be considered for all well-known URIs.

4. References

4.1. Normative References

[RFC5785] Nottingham, M. and E. Hammer-Lahav, "Defining Well-Known Uniform Resource Identifiers (URIs)", RFC 5785, DOI 10.17487/RFC5785, April 2010, <https://www.rfc-editor.org/info/rfc5785>.

[RFC7595] Thaler, D., Ed., Hansen, T., and T. Hardie, "Guidelines and Registration Procedures for URI Schemes", BCP 35, RFC 7595, DOI 10.17487/RFC7595, June 2015, <https://www.rfc-editor.org/info/rfc7595>.

4.2. Informative References

[IANA.uri-schemes] IANA, "Uniform Resource Identifier (URI) Schemes", <http://www.iana.org/assignments/uri-schemes>.

[RFC6455] Fette, I. and A. Melnikov, "The WebSocket Protocol", RFC 6455, DOI 10.17487/RFC6455, December 2011, <https://www.rfc-editor.org/info/rfc6455>.

[RFC7230] Fielding, R., Ed. and J. Reschke, Ed., "Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing", RFC 7230, DOI 10.17487/RFC7230, June 2014, <https://www.rfc-editor.org/info/rfc7230>.

[RFC7252] Shelby, Z., Hartke, K., and C. Bormann, "The Constrained Application Protocol (CoAP)", RFC 7252, DOI 10.17487/RFC7252, June 2014, <https://www.rfc-editor.org/info/rfc7252>.

[RFC8307] Bormann, C., "Well-Known URIs for the WebSocket Protocol", RFC 8307, DOI 10.17487/RFC8307, January 2018, <https://www.rfc-editor.org/info/rfc8307>.

[RFC8323] Bormann, C., Lemay, S., Tschofenig, H., Hartke, K., Silverajan, B., and B. Raymor, Ed., "CoAP (Constrained Application Protocol) over TCP, TLS, and WebSockets", RFC 8323, DOI 10.17487/RFC8323, February 2018, <https://www.rfc-editor.org/info/rfc8323>.

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