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A convention for URIs operating a HTTP-CoAP reverse proxy
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Abstract

CoAP is a RESTful transfer protocol for constrained nodes and networks. In many applications, CoAP will be used via cross-protocol proxies from HTTP clients. HTTP client libraries may make it hard to operate an HTTP-CoAP forward proxy by not providing a way to put a CoAP URI on the HTTP Request-Line; reverse-proxying may therefore lead to wider applicability of a proxy. This specification will define a convention for URIs operating such a HTTP-CoAP reverse proxy.

The current version of this specification is a placeholder only. It is meant to pick up <http://trac.tools.ietf.org/wg/core/trac/ticket/259> and provide a home for its considerations. It might be merged with other documents later.

Status of this Memo

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1. Introduction

(see abstract for now)

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119, BCP 14 [RFC2119] and indicate requirement levels for compliant CoAP implementations.

In this document, the term "byte" is used in its now customary sense as a synonym for "octet".

Where bit arithmetic is explained, this document uses the notation familiar from the programming language C, except that the operator "***" stands for exponentiation.

2. Convention

(This is a placeholder document. This section will provide a convention.)

3. Examples

In his original contribution, Cullen Jennings proposed translating

```
http://www.proxy.com/.wellknown/core-translate/1.2.3.4_4567/foo/  
bar?a=3
```

to

```
coap://1.2.3.4:4567/foo/bar?a=3
```

4. IANA Considerations

(none foreseen.)

5. Security Considerations

TBD.

6. Acknowledgements

The original point that this document might be needed was brought up by Cullen Jennings.

7. References

7.1. Normative References

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Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999.

7.2. Informative References

- [REST] Fielding, R., "Architectural Styles and the Design of
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