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T. Bray
Textuality
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An HTTP Status Code to Report Legal Obstacles
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Abstract

This document specifies a Hypertext Transfer Protocol (HTTP) status code for use when resource access is denied as a consequence of legal demands.

Editorial Note (To be removed by RFC Editor before publication)

Discussion of this draft takes place on the HTTPBIS working group mailing list (ietf-http-wg@w3.org), which is archived at [1].

Working Group information can be found at [2] and [3]; source code and issues list for this draft can be found at [4].

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[1.](#) Introduction

This document specifies a Hypertext Transfer Protocol (HTTP) status code for use when a server operator has received a legal demand to deny access to a resource.

This status code may be used to provide transparency in circumstances where issues of law or public policy affect server operations. This transparency may be beneficial both to these operators and to end users.

[RFC4924] discusses the forces working against transparent operation of the Internet; these clearly include legal interventions to restrict access to content. As that document notes, and as [Section 4 of \[RFC4084\]](#) states, such restrictions should be made explicit.

Feedback should occur on the ietf-http-wg@w3.org mailing list.

[2.](#) Requirements

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 [\[RFC2119\]](#).

[3.](#) 451 Unavailable For Legal Reasons

This status code indicates that the server is denying access to the resource as a consequence of a legal demand.

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The server in question may not be an origin server. This type of legal demand typically most directly affects the operations of ISPs and search engines.

Responses using this status code SHOULD include an explanation, in the response body, of the details of the legal demand: the party making it, the applicable legislation or regulation, and what classes of person and resource it applies to. For example:

```
HTTP/1.1 451 Unavailable For Legal Reasons
Content-Type: text/html
```

```
<html>
  <head><title>Unavailable For Legal Reasons</title></head>
  <body>
    <h1>Unavailable For Legal Reasons</h1>
    <p>This request may not be serviced in the Roman Province
    of Judea due to the Lex Julia Majestatis, which disallows
    access to resources hosted on servers deemed to be
    operated by the People's Front of Judea.</p>
  </body>
</html>
```

The use of the 451 status code implies neither the existence nor non-existence of the resource named in the request. That is to say, it is possible that if the legal demands were removed, a request for the resource still might not succeed.

Note that in many cases clients can still access the denied resource by using technical countermeasures such as a VPN or the Tor network.

[4.](#) Security Considerations

[4.1.](#) 451 Unavailable for Legal Reasons

The 451 status code is optional; clients cannot rely upon its use. It is possible that certain legal authorities may wish to avoid transparency, and not only demand the restriction of access to certain resources, but also avoid disclosing that the demand was made.

5. IANA Considerations

The HTTP Status Codes Registry should be updated with the following entries:

- o Code: 451

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- o Description: Unavailable for Legal Reasons
- o Specification: [this document]

6. Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997, <<http://www.rfc-editor.org/info/rfc2119>>.
- [RFC4084] Klensin, J., "Terminology for Describing Internet Connectivity", [BCP 104](#), [RFC 4084](#), May 2005, <<http://www.rfc-editor.org/info/rfc4084>>.
- [RFC4924] Aboba, B. and E. Davies, "Reflections on Internet Transparency", [RFC 4924](#), July 2007, <<http://www.rfc-editor.org/info/rfc4924>>.

[Appendix A](#). Acknowledgements

Thanks to Terence Eden, who observed that the existing status code 403 was not really suitable for this situation, and suggested the creation of a new status code.

Thanks also to Ray Bradbury.

The author takes all responsibility for errors and omissions.

Author's Address

Tim Bray
Textuality

Email: tbray@textuality.com

URI: <http://www.tbray.org/ongoing/>