Language Tag MIB
draft-mcwalter-langtag-mib-02.txt

Status of this Memo

By submitting this Internet-Draft, each author represents that any applicable patent or other IPR claims of which he or she is aware have been or will be disclosed, and any of which he or she becomes aware will be disclosed, in accordance with Section 6 of BCP 79.

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF), its areas, and its working groups. Note that other groups may also distribute working documents as Internet-Drafts.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

The list of current Internet-Drafts can be accessed at http://www.ietf.org/ietf/1id-abstracts.txt.

The list of Internet-Draft Shadow Directories can be accessed at http://www.ietf.org/shadow.html.

This Internet-Draft will expire on September 2, 2007.

Copyright Notice

Copyright (C) The IETF Trust (2007).

Abstract

This MIB module defines a textual convention to represent BCP 47 language tags. The intent is that this textual convention will be imported and used in MIB modules that would otherwise define their own representation.
Table of Contents

1. Introduction .................................................. 3
2. The Internet-Standard Management Framework .................. 3
3. Definitions .................................................... 3
4. Security Considerations ....................................... 4
5. IANA Considerations ........................................... 5
6. Notes to the RFC editor - remove before publication ....... 5
7. Acknowledgements .............................................. 5
8. References ..................................................... 5
   8.1 Normative References ....................................... 5
   8.2 Informative References ..................................... 6
   Author’s Address .............................................. 6
   Intellectual Property and Copyright Statements ............... 7
1. Introduction

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. It defines a textual convention to represent BCP 47 [RFC4646] language tags.

The LangTag textual convention defined by this RFC replaces the similar LanguageTag textual convention defined by RFC 2932 [RFC2932].

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 [RFC2119].

2. The Internet-Standard Management Framework

For a detailed overview of the documents that describe the current Internet-Standard Management Framework, please refer to section 7 of RFC 3410 [RFC3410].

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. MIB objects are generally accessed through the Simple Network Management Protocol (SNMP). Objects in the MIB are defined using the mechanisms defined in the Structure of Management Information (SMI). This memo specifies a MIB module that is compliant to the SMIv2, which is described in STD 58, RFC 2578 [RFC2578], STD 58, RFC 2579 [RFC2579] and STD 58, RFC 2580 [RFC2580].

3. Definitions

LANGTAG-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, mib-2 FROM SNMPv2-SMI -- [RFC2578]

TEXTUAL-CONVENTION FROM SNMPv2-TC; -- [RFC2579]

langTagTcMIB MODULE-IDENTITY

LAST-UPDATED "200703010000Z" -- 1 March 2007
ORGANIZATION "IETF Operations and Management (OPS) Area"
CONTACT-INFO "EMail: ops-area@ietf.org
Home page: http://www.ops.ietf.org/"

DESCRIPTION
"This MIB module defines a textual convention for representing BCP 47 language tags."

REVISION "200703010000Z" -- 1 March 2007
DESCRIPTION
"Initial revision, published as RFC yyyy."
LangTag ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "1a"
  STATUS current
  DESCRIPTION "A language tag, constructed in accordance with BCP 47.

  Only lowercase characters are allowed. The purpose of this restriction is to
  provide unique language tags for use as indexes. BCP 47 recommends case
  conventions for user interfaces, but objects using this textual convention
  MUST use only lowercase.

  Values MUST be well-formed language tags, in conformance with the definition
  of well-formed tags in BCP 47. An implementation MAY further limit the values
  it accepts to those permitted by a ‘validating’ processor, as defined in
  BCP 47.

  In theory, BCP 47 language tags are of unlimited length.
  This language tag is of limited length. The analysis of language tag
  lengths in BCP 47 confirms that this limit will not pose a problem in practice.
  In particular, this length is greater than the minimum requirements set out in
  section 4.3.1.

  A zero-length language tag is not a valid language tag. This can be used
  to express ‘language tag absent’ where required, for example when used as
  an index field."

REFERENCE "RFC 4646 BCP 47"
SYNTAX OCTET STRING (SIZE (0 | 2..63))
modules that define management objects. This document therefore has no impact on the security of the Internet.

5. IANA Considerations

LANGTAG-TC-MIB should be rooted under the mib-2 subtree. IANA is requested to assign { mib-2 XXX } to the LANGTAG-TC-MIB module specified in this document.

6. Notes to the RFC editor – remove before publication

This document should be published simultaneously with IPMCAST-MIB (draft-ietf-mboned-ip-mcast-mib).

This is because LANGTAG-MIB replaces the LanguageTag textual convention that is already present in RFC 2932, which will be obsoleted by the publication of IPMCAST-MIB.

7. Acknowledgements

This MIB module is a reworking of existing material from RFC 2932.

This module was generated by editing together contributions from Randy Presuhn, Dan Romascanu, Bill Fenner, Juergen Schoenwaelder, Bert Wijnen, Doug Ewell, and Ira McDonald.

8. References

8.1 Normative References


8.2 Informative References


Author’s Address

David McWalter (editor)
Data Connection Ltd
100 Church Street
Enfield  EN2 6BQ
United Kingdom

Email: dmcw@dataconnection.com
Intellectual Property Statement

The IETF takes no position regarding the validity or scope of any Intellectual Property Rights or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; nor does it represent that it has made any independent effort to identify any such rights. Information on the procedures with respect to rights in RFC documents can be found in BCP 78 and BCP 79.

Copies of IPR disclosures made to the IETF Secretariat and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this specification can be obtained from the IETF on-line IPR repository at http://www.ietf.org/ipr.

The IETF invites any interested party to bring to its attention any copyrights, patents or patent applications, or other proprietary rights that may cover technology that may be required to implement this standard. Please address the information to the IETF at ietf-ipr@ietf.org.

Disclaimer of Validity

This document and the information contained herein are provided on an "AS IS" basis and THE CONTRIBUTOR, THE ORGANIZATION HE/SHE REPRESENTS OR IS SPONSORED BY (IF ANY), THE INTERNET SOCIETY, THE IETF TRUST AND THE INTERNET ENGINEERING TASK FORCE DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Copyright Statement

Copyright (C) The IETF Trust (2007). This document is subject to the rights, licenses and restrictions contained in BCP 78, and except as set forth therein, the authors retain all their rights.

Acknowledgment

Funding for the RFC Editor function is currently provided by the Internet Society.