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.
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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 "la"
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))

END

4. Security Considerations

This MIB module does not define any management objects. Instead, it defines a textual convention that may be imported by other MIB modules and used for object definitions.

Meaningful security considerations can only be written in the MIB
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


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Acknowledgment

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