YANG Types for DNS Classes and Resource Record Types

draft-ietf-dnsop-iana-class-type-yang-00

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Summary

Two IANA registries from [1] are defined as YANG derived types for use in data modelling:

- DNS CLASSES
- Resource Record (RR) Types

The document only provides an *initial revision* of the YANG module, plus detailed instructions for IANA that will henceforth maintain the module along with the registries.

Changes since draft-lhotka-dnsop-…-02

- Instead of an initial revision of the YANG module, the document now contains an XSLT 1.0 stylesheet to be used by IANA for generating the initial revision.
- IANA registry entries marked as “obsolete” or “deprecated” are mapped to YANG enums with

  status obsolete;
Initial revision of the YANG module

Appendix A contains XSLT stylesheet “iana-dns-class-rr-type.xsl” that transforms the current contents of the IANA registries (XML format) into the initial revision of the YANG module:

$ curl -s https://www.iana.org/assignments/dns-parameters/dns-parameters.xml \  
> | xsltproc iana-dns-class-rr-type.xsl -  
module iana-dns-class-rr-type {

    yang-version 1.1;

    namespace "urn:ietf:params:xml:ns:yang:iana-dns-class-rr-type";

    prefix dnsct;

    ...

This solves the concerns that the RFC won’t get updated with new revisions of the YANG module.

Approval from IANA requested, no response yet.
Semantics of *obsolete* and *deprecated*

IANA [RFC 8126]:

- *obsolete* = “no longer in use”
- *deprecated* = “use is not recommended”

YANG [RFC 7950]:

- *obsolete* = “SHOULD NOT be implemented and/or can be removed from implementations”
- *deprecated* = “obsolete definition, but it permits new/continued implementation in order to foster interoperability with older/existing implementations”

**Solution:** Both IANA terms are mapped to *obsolete* in YANG.
Next steps

We received a few suggestions for improving the text.
A -01 revision will be submitted after this interim meeting.
The authors believe the document is ready for WGLC, which will also include a review by YANG Doctors [2].