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Report Structure

draft-mcpherson-sattler-report-structure-00

Abstract

This document describes the default Report Structure for Reports which can be provide via the Reporting Repository.

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[1.](#) Introduction

Modern top-level domain registries provide a number of detailed reports and documents that their registrars require on a daily, weekly and monthly basis. These most commonly include transaction reports, as well as lists containing currently unavailable domains and current premium domains. These reports are critical for registrars' businesses and play an important role in accounting and operations processes as well as in sales and marketing activities. In the current set-up registrars must download these reports from each registry's intranet in a different manner according to each registry's own document management set up.

This document describes the default Report Structure for Reports which can be provide via the [\[I-D.mcpherson-sattler-reporting-repository\]](#).

[2.](#) Terminology and Definitions

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](#)] when specified in their uppercase forms.

2.1. Internationalized Domain Names

Top-level domains and domain names contained in a file name or file MUST be written as A-LABEL according to [[RFC5890](#)].

2.2. Dates and Times

All dates and times attribute values MUST be expressed in Universal Coordinated Time (UTC) using the Gregorian calendar. The extended date-time form using upper case "T" and "Z" characters defined in ISO 8601 [[RFC3339](#)] MUST be used to represent date-time values.

One day is defined as one day in UTC+0. Therefore, months and years will also be calculated on this basis.

2.3. Character Encoding

Files and their content MUST be encoded in UTF-8 according to [[RFC3629](#)].

2.4. Currency

Currencies MUST be listed with the relevant 3 letter currency alphabetic code according to ISO 4217 (<https://www.iso.org/iso-4217-currency-codes.html>).

3. File Names

Files MUST be lowercase and follow this grammar:

PREFIX "_" TYPE "_" DATE "." FILESUFFIX

PREFIX indicates if the file is either a report specific for a TLD or a registry. A report of a registry MAY include more than one TLD.

TYPE indicates the type of the file, value MUST be either 'premium-domains', 'unavailable-domains' or 'transactions'.

DATE indicates the date of the file and MUST be YYYY-MM-DD or YYYY-MM according to ISO 8601 [[RFC3339](#)]

FILESUFFIX identifier specified as a suffix to the name of the file and indicates a characteristic of the file contents or its intended use. The file suffix MUST be csv.

Example based on the above grammar:

Daily report of premium domain names for the TLD .example effective on 2018-08-01: example_premium-domains_2018-08-01.csv.gz

Monthly report of transactions for the TLD .example effective on 2018-08: example_transactions_2018-08.csv.gz

Monthly report of premium domain names for the .example registry effective on 2018-08: example-registry_premium-domains_2018-08.csv.gz

4. File Types

Files MUST be CSV files according to [\[RFC4180\]](#). It is RECOMMENDED to compress with gzip according to [\[RFC1952\]](#).

5. Delimiter

The delimiter MUST be comma.

6. IANA Considerations

This document has no IANA actions.

7. Security Considerations

The registry report structure described in this document does not provide any security services.

8. Implementation Status

Note to RFC Editor: Please remove this section and the reference to [\[RFC7942\]](#) before publication.

This section records the status of known implementations of the protocol defined by this specification at the time of posting of this Internet-Draft, and is based on a proposal described in [\[RFC7942\]](#). The description of implementations in this section is intended to assist the IETF in its decision processes in progressing drafts to RFCs. Please note that the listing of any individual implementation here does not imply endorsement by the IETF. Furthermore, no effort has been spent to verify the information presented here that was supplied by IETF contributors. This is not intended as, and must not be construed to be, a catalog of available implementations or their features. Readers are advised to note that other implementations may exist.

According to [\[RFC7942\]](#), "this will allow reviewers and working groups to assign due consideration to documents that have the benefit of running code, which may serve as evidence of valuable experimentation

and feedback that have made the implemented protocols more mature. It is up to the individual working groups to use this information as they see fit".

Add implementation details once available.

9. References

9.1. Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997, <<https://www.rfc-editor.org/info/rfc2119>>.
- [RFC5890] Klensin, J., "Internationalized Domain Names for Applications (IDNA): Definitions and Document Framework", [RFC 5890](#), August 2010, <<https://www.rfc-editor.org/info/rfc5890>>.

9.2. Informative References

- [I-D.mcpherson-sattler-reporting-repository] McPherson, N. and Sattler, T., "Reporting Repository", <<https://datatracker.ietf.org/doc/draft-mcpherson-sattler-reporting-repository/>> (work in progress), January 2019
- [RFC1952] Deutsch, P., "GZIP file format specification version 4.3", [RFC 1952](#), May 1996, <<https://www.rfc-editor.org/info/rfc1952>>.
- [RFC3339] Klyne, G., Ed. and C. Newman, "Date and Time on the Internet: Timestamps", [RFC 3339](#), July 2002, <<https://www.rfc-editor.org/info/rfc3339>>.
- [RFC3629] Yergeau, F., "UTF-8, a transformation format of ISO 10646", [RFC 3629](#), November 2003, <<https://www.rfc-editor.org/info/rfc3629>>.
- [RFC4180] Shafranovich, Y., "Common Format and MIME Type for Comma-Separated Values (CSV) Files", [RFC 4180](#), October 2005 <<https://www.rfc-editor.org/info/rfc4180>>.
- [RFC7942] Sheffer, Y. and Farrel, A., "Improving Awareness of Running Code: The Implementation Status Section", [RFC 7942](#), July 2016, <<https://www.rfc-editor.org/info/rfc7942>>.

Appendix A. Change History

A.1. Change from 00 to 01

Fixed minor typos in [section 3](#). Clarified usage of csv files suffix.

A.2. Change from 01 to 02

Updated Neal's author details.

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[A.3.](#) Change from 02 to 03

Added definition of currency. Added monthly reports and changed examples.

[A.4.](#) Change from 03 to 04

Added reference to [RFC4180](#) for CSV files, and changed delimiter to comma accordingly.

[A.5.](#) Change from 04 to 05

Added editor flag to author. Minor formatting changes. Changed security considerations.

[A.6.](#) Change from 05 to 06

Clarified to compress the csv files with gzip.

[A.7.](#) Change from 06 to 07

Added reference to [RFC1952](#) for gzip.

[A.8.](#) Change from 07 to REPORT 00

Changed draft name.

[Appendix B.](#) Acknowledgements

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- o Thomas Keller, 1&1 IONOS
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- o Andreas Huber, united-domains

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