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Transaction Report
draft-mcpherson-sattler-transaction-report-00

Abstract

This document describes the content of a Transaction Report based on the Report Structure and delivered by the Reporting Repository.

Status of This Memo

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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 domain fees. 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 content of a Transaction Report based on the [[I-D.mcpherson-sattler-report-structure](#)] and delivered by 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

MUST be as defined in
[\[I-D.mcpherson-sattler-report-structure\]](#).

2.2. Dates and Times

MUST be as defined in
[\[I-D.mcpherson-sattler-report-structure\]](#).

2.3. Character Encoding

MUST be as defined in
[\[I-D.mcpherson-sattler-report-structure\]](#).

2.4. Currency

MUST be as defined in
[\[I-D.mcpherson-sattler-report-structure\]](#).

3. Report Headings

The first row MUST be the column headings in the following order:

SVTRID	Server transaction identifier MUST be assigned by and MUST be unique to the server.
TLD	It MUST contain the top-level domain name formatted according to section 2.1 of this document.
DOMAIN	It MUST contain the domain name formatted according to section 2.1 of this document.
TIMESTAMP	It MUST contain the timestamp of the successful transaction formatted according to section 2.2 of this document.
TRANSACTIONTYPE	It MUST contain the type of the successful transaction according to section 4 of this document.
PERIOD	It MUST either contain the Period of the the successful transaction according to section 5 of this document or MUST be empty if no Period is assigned to the transaction.
TERM	It MUST contain the unit of the Period noted according to section 5 of this document.
FEE	It MUST contain the fee of the successful

transaction according to [section 6](#) of this document.

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CURRENCY	It MUST contain the currency of the successful transaction according to section 2.4 of this document.
REGISTRARID	It MUST contain the registrar ID of the successful transaction according to section 7 of this document.
DESCRIPTION	It MAY contain a free description of the successful transaction.

[4.](#) Transaction Types

Each transaction MUST be assigned to a type. There are Standard Transactions and Non-Standard Transactions.

A successful transaction is also a completed transaction. Therefore, transactions MUST NOT be deleted. If a transaction MUST be cleared, a corresponding counter transaction MUST be made.

[4.1.](#) Standard Transaction Types

Standard transactions are considered to be CREATE, RENEWAL, AUTORENEW, TRANSFER, TRADE, UPDATE, RESTORE and REGISTRYLOCK.

CREATE	A successful domain create within the report period.
RENEWAL	A successful explicit domain name renewal executed by the domain name registrar within the report period.
AUTORENEW	A successful domain name auto-renewal by the domain name registry within the report period.
TRANSFER	A successful domain name transfer within the report period.
TRADE	A successful domain name trade within the report period.
UPDATE	A successful billable domain name update within the report period.
RESTORE	A successful domain name restore within the report period. This event MUST only include the restore fee. Any additional renewal fee MUST be independently listed.
REGISTRYLOCK	A successful billable registry lock applied to domain name within the report period.

4.2. Non-Standard Transaction Types

Non-Standard Transactions MAY be listed in the report and MAY receive a custom type, but it MUST have a corresponding description in the

description column.

5. Transaction Periods

Transaction Types usually occur in Periods of 1 to 10 years, sometimes there are monthly periods. Therefore, each transaction MUST either have a Period associated or it MUST be empty if no Period is assigned to the transaction.

The Period format MUST be in the format <integer>, where <integer> MUST be unsigned and between 1 and 65535, without any leading zero

The Term format MUST be in the format <character> and MUST be either 'y' for years or 'm' for months.

If the number of months results in a full year, then the full year MUST be used, e.g. instead of 12,m or 24,m, it should be 1,y respectively 2,y.

6. Transaction Fees

All transactions MUST have a Fee associated. The fee amount, the currency and the period MUST be listed separately.

Fees MUST either be whole numbers or rounded to two decimal places. A period (.) is used as the dividing point.

6.1. Deviating Fees

If a domain name incurs a premium fee, that is not the standard price for the TLD, a description of the price category SHOULD be given.

7. Registrar ID

A unique registrar ID MUST be listed, with each transaction. Those IDs MUST be according the IANA registrar IDs (<https://www.iana.org/assignments/registrar-ids/registrar-ids.xhtml>) where applicable, otherwise another unique registrar ID MUST be used.

8. Example

8.1. Single TLD File Example

This is an example of a transaction report for a single top-level domain .example.

Filename: example_transactions_2018-11.csv.gz

SVTRID,TLD,DOMAIN,TIMESTAMP,TRANSACTIONTYPE,PERIOD,TERM,FEE,CURRENCY,

REGISTRARID, DESCRIPTION

54321-XYZ, example, nic.example, 2018-11-08T08:01:01Z, AUTORENEW, 1, y, 10,
USD, 1,

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```
54322-XYZ,example,foo.example,2018-11-09T08:00:00Z,CREATE,3,y,10,USD,
1,
54323-XYZ,example,bar.example,2018-11-09T08:01:01Z,CREATE,1,y,1000,
USD,1,PREMIUM A
54324-XYZ,example,foobar.example,2018-11-10T07:00:00Z,RESTORE,,40,
USD,1,
54325-XYZ,example,foobar.example,2018-11-10T07:00:01Z,RENEWAL,,10,
USD,1,
54326-XYZ,example,xn--r8jz45g.example,2018-11-11T06:30:00Z,TRANSFER,
1,y,12.75,USD,1,
```

8.2. Multiple TLDs File Example

This is an example of a transaction report for multi top-level domains by the example registry.

Filename: example_transactions_2018-11.csv.gz

```
SVTRID,TLD,DOMAIN,TIMESTAMP,TRANSACTIONTYPE,PERIOD,TERM,FEE,CURRENCY,
REGISTRARID,DESCRIPTION
54321-XYZ,example,nic.example,2018-11-08T08:01:01Z,AUTORENEW,1,y,10,
USD,1,
54322-XYZ,example1,foo.example1,2018-11-09T08:00:00Z,CREATE,6,m,9.90,
EUR,1,
54323-XYZ,example2,bar.example2,2018-11-09T08:01:01Z,CREATE,1,y,4000,
BRL,1,PREMIUM C
54324-XYZ,xn--0zwm56d,xn--fsqu00a.xn--0zwm56d,2018-11-10T07:00:00Z,
RESTORE,,275,CNY,1,
54325-XYZ,xn--0zwm56d,xn--fsqu00a.xn--0zwm56d,2018-11-10T07:00:01Z,
RENEWAL,,70,CNY,1,
54326-XYZ,xn--zckzah,xn--r8jz45g.xn--zckzah,2018-11-11T06:30:00Z,
TRANSFER,1,y,1200,JPY,1,
```

9. IANA Considerations

This document has no IANA actions.

10. Security Considerations

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

11. 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.

12. References

12.1. Normative References

- [I-D.mcpherson-sattler-report-structure]
McPherson, N. and Sattler, T., "Report Strucutre",
<<https://datatracker.ietf.org/doc/draft-mcpherson-sattler-report-structure/>> (work in progress), January 2019
- [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>>.

12.2. 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
- [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

Added acknowledgements. Changed Y to lowercase. Fixed csv examples.
Changed security considerations. Added SRTRID to identify transactions. Clarified successful transaction.

A.2. Change from 01 to 02

Clarified the Period. Fixed numerous typos. Changed limit for Period from 1-99 to unsigned 16 bit integer.

A.3. Change from 02 to TXN 00

Changed draft name. Added Term column to further clarify Period.
Defined Standard Transaction Types. Added Non-Standard Transaction Types. Changed Column order so that DESCRIPTION is at end.

Appendix B. Acknowledgements

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