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Unavailable Domain Name File Format Specification
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Abstract

This document defines the file format for the storage of unavailable domain names and related details for a top level domain name registry.

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Internet-Draft

Unavailable Domains

June 2016

Table of Contents

1.	Introduction	2
1.1.	Conventions Used in This Document	2
2.	General File Format Elements	2
3.	Examples	3
3.1.	Single TLD File Example	3
3.2.	Multiple TLDs File Example	3
4.	Security Considerations	3
5.	Acknowledgements	4
6.	Change History	4
7.	Normative References	4
	Authors' Addresses	4

[1.](#) Introduction

This document specifies a file format for the storage of unavailable domain names and related details for a top level domain (TLD) name registry, designed to facilitate interoperability and reusability among domain name registries and registrars.

The increased number of domain name registries and registrars, the greater number of reasons for domain names not being available, and to make accommodations for possible real-time communications issues between registries and registrars has driven the need for this standard sharable file.

[1.1.](#) Conventions Used in This Document

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.](#) General File Format Elements

File format will be a comma separated values (CSV) file and MUST use the US-ASCII character set. See informational [RFC 4180](#) and [RFC 7111](#) for details on the CSV file format.

Filename has two forms depending on content. For a file containing only a list of unavailable domain names in one Top Level Domain (TLD) the filename MUST be <TLD>-unavailablenames-<YYYY-MM-DDThhmmss>.csv. For a file containing a list of unavailable domain names in multiple

Top Level Domains (TLDs) the filename MUST be unavailablenames-<YYYY-MM-DDThhmmss>.csv. For an IDN TLD <TLD> MUST be ace-encoded (i.e. in the "xn--" format). <YYYY-MM-DDThhmmss> MUST be the date and time (in UTC) the file was created indicating that all the names in the file were unavailable on that date at the time the file was created.

The first row MUST be the column headings: TLD, Domain Name, Status. The remaining rows will contain the data (all unavailable names) from the registry in the following structure: <TLD>, <Domain Name>, <Status>. Where <TLD> is the TLD of the domain name, <Domain Name> is the string of characters that represent the unavailable name, and <Status> is one of four values (REGISTERED, REGISTRY RESERVED, POLICY RESERVED, IDN VARIANT RESERVED). If the <TLD> and/or <Domain Name> is an IDN it MUST be ace-encoded (i.e. in the "xn--" format).

All domain name labels that are not available for registration in the SRS, for any reason, to the registrar channel MUST be included in this file.

[3. Examples](#)

[3.1. Single TLD File Example](#)

Example of a file that contains unavailable domain names from a single TLD.

FileName: example-unavailablenames-2016-05-01T010000.csv

```
TLD,Domain Name,Status
example,e.example,REGISTRY RESERVED
example,ex.example,POLICY RESERVED
example,example.example,REGISTERED
example,xn--4gqvdy3r.example,REGISTERED
```

[3.2. Multiple TLDs File Example](#)

Example of a file that contains unavailable domain names from multiple TLDs.

FileName: unavailablenames-2016-05-01T010000.csv

```
TLD,Domain Name,Status
```

example,e.example,REGISTRY RESERVED
test,ex.test,POLICY RESERVED
another,xn--4gqvdy3r.another,REGISTERED

[4.](#) Security Considerations

The file format described in this document does not provide any security services.

[5.](#) Acknowledgements

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[6.](#) Change History

[7.](#) Normative References

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Carney & Galvin	Expires December 11, 2016	[Page 4]
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Internet-Draft	Unavailable Domains	June 2016
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