DNS Operations Working Group Joe Baptista

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The ACE Prefix and Internationalized Domain Names

Status of this Memo

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Information

The ACE prefix used in Internationalized Domain Name (IDN) labels is two alphanumeric ASCII characters followed by two hyphen-minuses. Over the years a number of different ACE prefixes have been used in IDNs. This includes "bl--", "bq--", "dq--", "lq--", "mq--", "ra--", "wq--", and "zq--". At this time the ACE prefix used by the Proposed Standard RFC 3490 is "xn--".

While all IDN labels begin with the ACE prefix, not all labels beginning with the ACE prefix are necessarily IDNs. Non-IDN labels that begin with the ACE prefix will confuse users and SHOULD NOT be allowed in TLD DNS zones.

Recommendation

The ACE prefix SHALL BE defined as any two alphanumeric ASCII characters followed by two hyphen-minuses. IDN Top-Level Domain (TLD) labels MUST begin with an ACE prefix. Non-IDN TLD labels MUST NOT begin with an ACE prefix.

References

- [RFC 1034] P. Mockapetris, "Domain Names Concepts and Facilities," RFC-1034, USC/Information Sciences Institute, November 1987.
- [RFC 1035] P. Mockapetris, "Domain names Implementation and Specification," RFC-1035, USC/Information Sciences Institute, November 1987.
- [RFC 3490] P. Faltstrom, P. Hoffman, & A. Costello, "Internationalizing Domain Names in Applications (IDNA)," RFC-3490, Cisco, IMC & VPNC, & UC Berkeley, March 2003.

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