

Contribution # _____

Ad Hoc US Study Group A ENUM
Contribution

SOURCE: Worldcom

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TITLE: E164.arpa and Tier 1 Registries discussion

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General

The following are discussion points on some of the issues raised at the February SG A ENUM meeting:

SG A Question : Should E.164.arpa be an implementation of ENUM in the US?

Comment: Yes, if there is to be an ENUM implementation in the US, then the e164.arpa domain should be the single root for ENUM service. Alternatively, implementations using multiple root servers should not be considered due to performance issues associated with multiple ENUM lookups.

Figure 1 depicts a potential US ENUM DNS structure using the 1.e164.arpa DNS.

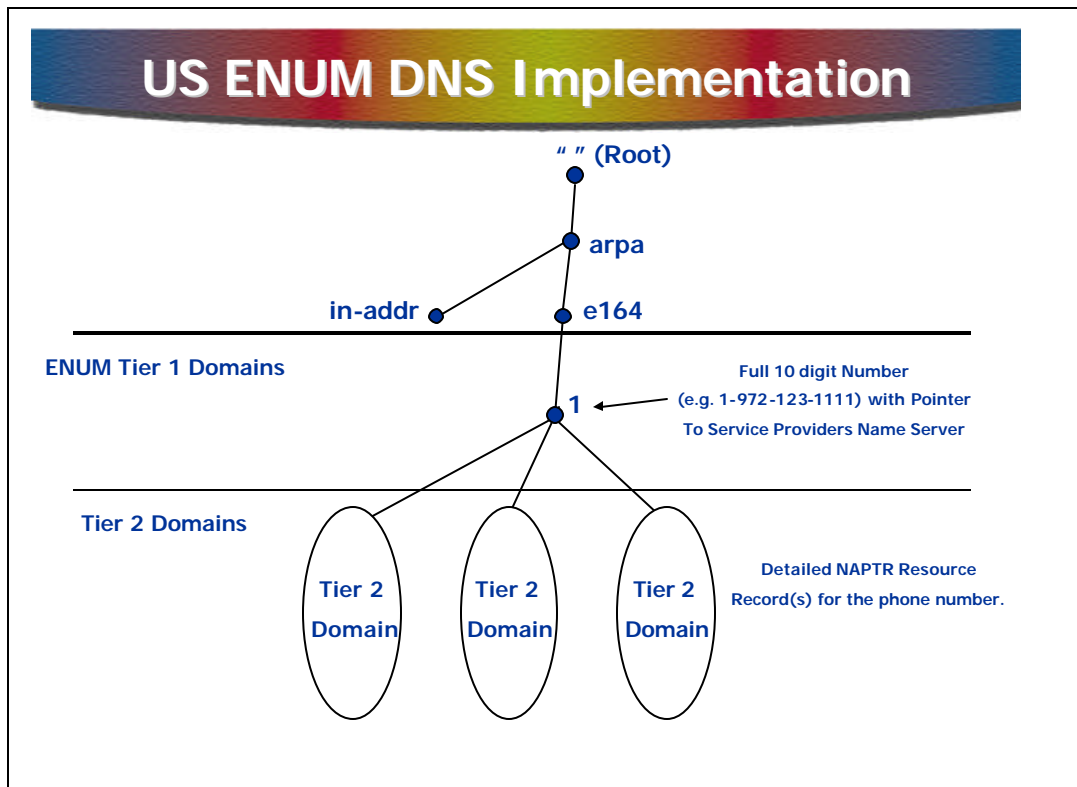


Figure 1 Potential US ENUM DNS Implementation

SG A Question: What are the implications for other countries in the NANP?

Comment: Canada and the NANP Caribbean countries could participate in a US Tier 1 structure, or they could alternatively provide their own Tier 1 DNS. Should Canada or the NANP Caribbean countries decide to have their own Tier 1 DNS, then the e164.arpa domain will need to have a 1+NPA table for routing to the US, Canadian or Caribbean Tier 1 domains.

SG A Question: Should there be multiple Tier 1 Registries (1.E164.arpa) in the US (e.g. regionalization of Tier 1 domains based on area code with no area code in more than one Tier 1)?

Comment: It is premature to determine if its desirable to have multiple Tier 1 Registries. Descriptions of Tier 1 and Tier 2 functional requirements and administrative issues need to be developed and understood prior to making this decision.