BULK RR for Numeric-Based DNS Record Generation

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Proposed BULK Record

Simple transformation of numbers in query name into data for response

```
draft-woodworth-bulk-rr
```

Compact representation that can be shared between primary and secondaries

```
$ORIGIN example.com
@ IN BULK A pool-[0-255]-[0-255] 10.2.$1.$2

;; QUESTION
pool-42-102.example.com IN A

;; ANSWER
pool-42-102.example.com IN A 10.2.42.102
```
Changes from -05 to -06

Keyword: Simplification

• More straight-forward language
• Page count dropped by 50%
• Clarify focus is just numeric patterns, not regexes
• Removed “hidden” wildcard feature
  • Had been driven by concern for some filter policies
• Removed octet value restrictions
  • Names or data not US-ASCII constrained
• Limited maximum references
• Many other clarifications
Planned for -07 (or dnsop-00)

More Simplification

- Remove pattern substitution options
  - Had been based on BIND’s $GENERATE
  - Maybe $GENERATE is too flexible itself
- Pursue NPN (Numeric Pattern Normalization) separately
  - Significant DNSSEC roll-out issues
- Address new RR roll-out issues for secondaries?
  - Not a myth, at least when server semantics affected

Please adopt as working group document