



## BULK RR for Numeric-Based DNS Record Generation

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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
```

## 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

## 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