



BULK RR

FOR NUMERIC-BASED DNS RECORD GENERATION

IETF JULY 2019

John Woodworth, John.Woodworth@CenturyLink.com

Dean Ballew, Dean.Ballew@CenturyLink.com

Shashwath Raghavan, Shashwath.Bindinganaveliraghavan@Hughes.com

David Lawrence, Tale.Lawrence@Oracle.com

Compact representation that can be shared between primary and secondaries

```
example.com. 86400 IN BULK A (  
    pool-A-[0-255]-[0-255].example.com.  
    10.55.${1}.${2}  
    )
```



Offers standardization around existing proprietary solutions and can help eliminate huge zone file transfers (> 50MB)

Supports online zone signing and insecure delegations today

NPN was rolled into own draft for future offline DNSSEC signing

```
$ORIGIN 2.10.in-addr.arpa.  
0-3 86400 IN NS ns1.sub.example.com.  
86400 IN BULK CNAME [0-255].[0-3] ${* | }.0-3  
86400 IN NPN CNAME 9 0 0 23
```



Thank You

please adopt as working group document