

DNS

Bit Number

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ID.															
QR	Opcode				AA	TC	RD	RA	Z			RCODE			
QDCOUNT															
ANCOUNT															
NSCOUNT															
ARCOUNT															
Question Section															
Answer Section															
Authority Section															
Additional Information Section															

DNS Parmaters

Query/Response (QR)

- 0 Query
- 1 Response

Opcode

- 0 Standard Query (QUERY)
- 1 Inverse Query (IQUERY)
- 2 Server status request (STATUS)

AA

(1 = Authoritative Answer)

TC

(1 = Truncation)

RD

(1 = Recursion Desired)

RA

(1 = Recursion Available)

Z

(Reserved; set to 0)

Response Code

- 0 No Error
- 1 Format error
- 2 Server failure
- 3 Non-existent domain (NXDOMAIN)
- 4 Query type not implemented
- 5 Query refused

QDCOUNT

(No. of entries in Question section)

ANCOUNT

(No. of resource records in Answer section)

NSCOUNT

(No. of name server resource records in Authority section)

ARCOUNT

(No. of resource records in Additional Information section)