

All Zones *with* DNSSEC via LGL IPv4

The chart displays the percentage of UDP server EDNS OK for three configurations: IPv4, IPv6, and Dual-Stack. The x-axis represents the path MTU size (1500, 1280, 1280 (no PMTUD), 1280 (PMTUD)). The y-axis represents the percentage of UDP server EDNS OK (0% to 100%). The legend indicates that the bars represent 'UDP server edns ok'.

Configuration	Path MTU	UDP server edns ok (%)	
IPv4	EDNS0:512	1500	~50%
		1280	~50%
		1280 (no PMTUD)	~50%
		1280 (PMTUD)	~55%
	EDNS0:1232	1500	~50%
		1280	~38%
		1280 (no PMTUD)	~38%
		1280 (PMTUD)	~40%
	EDNS0:4096	1500	~50%
		1280	~38%
		1280 (no PMTUD)	~38%
		1280 (PMTUD)	~40%
IPv6	EDNS0:512	1500	~35%
		1280	~42%
		1280 (no PMTUD)	~42%
		1280 (PMTUD)	~45%
	EDNS0:1232	1500	~30%
		1280	~30%
		1280 (no PMTUD)	~30%
		1280 (PMTUD)	~30%
	EDNS0:4096	1500	~30%
		1280	~30%
		1280 (no PMTUD)	~30%
		1280 (PMTUD)	~30%
Dual-Stack	EDNS0:512	1500	~80%
		1280	~80%
		1280 (no PMTUD)	~85%
		1280 (PMTUD)	~52%
	EDNS0:1232	1500	~80%
		1280	~80%
		1280 (no PMTUD)	~80%
		1280 (PMTUD)	~38%
	EDNS0:4096	1500	~80%
		1280	~80%
		1280 (no PMTUD)	~80%
		1280 (PMTUD)	~38%

IPv6

Dual-Stack

All Zones with DNSSEC not via LGL IPv4

EDNS0 Bitset	Path 1280 (no PMTU)	Path 1500
EDNS0:512	~50%	~35%
EDNS0:1232	~50%	~35%
EDNS0:4096	~50%	~35%
EDNS0:512	~50%	~35%

Path	DNS0:1232	EDNS0:4096
Path 1280 (no PMTU)	~1.5	~1.5
Path 1280 (no PMTU)	~1.5	~1.5

Path	EDNS0:512	EDNS0:1232
Path 1280 (79 PMTUD)	~100	~1000
Path 1500 (79 PMTUD)	~100	~100

All Zones without DNSSEC via LGI IPv4

EDNS0 Flag	Path Length	Percentage of Zones without DNSSEC
EDNS0:512	1500	~60%
	1280 (no PMTUD)	~60%
	1280 (PMTUD)	~60%
	1500	~60%
EDNS0:1232	1500	~60%
	1280 (no PMTUD)	~60%
	1280 (PMTUD)	~60%
	1500	~60%
EDNS0:4096	1500	~60%
	1280 (no PMTUD)	~60%
	1280 (PMTUD)	~60%
	1500	~60%
EDNS0:512 + EDNS0:1232	1500	~60%
	1280 (no PMTUD)	~60%
	1280 (PMTUD)	~60%
	1500	~60%

Path	DNSp:1232 (pps)	EDNSp:4096 (pps)
Path 1280 (no PMTUD)	~1200	~1200
Path 1280 (no PMTUD)	~1200	~1200

All Zones without DNSSEC not via L IPv4

EDNS0 Flag	Percentage (%)
EDNS0:512	~60%
EDNS0:1232	~60%
EDNS0:4096	~60%
EDNS0:512, EDNS0:1232	~65%

GI
IPv6

DNS0:1232 EDNS0:4096

Path	DNS0:1232	EDNS0:4096
Path 1280 (no PMTUD)	8	8
Path 1500 (no PMTUD)	8	8