

## ABSTRACT

ENUM as a standard from IETF is a mechanism or the clearly protocol at E164 mapping to IP address. This mechanism match with that included on RFC 2916. It was make us of the DNS function development with NAPTR record to mapping between E 164 numbering and IP address. With this mechanism of mapping have expected capable to give more services for telecommunication users to access circuit switch services or packet switch services.

In this final task have done an exactly compiling step of scenario on ENUM implemented especially at PT Telkom Indonesia Tbk network. This scenario as a step for PT Telkom strive to the Next Generation Network. The analysis that have done for measuring implemented feasible on this scenario included some parameter of DNS performance like latency, throughput and DNS Server ability to compare with ITU-T standard performance.

Key Word : ENUM, DNS, Circuit Switch, Packet Switch, Performance