**ETSJ008 - FAST IP NETWORK RECOVERY USING MULTIPLE ROUTERS**

**Abstract** — As the Internet takes an increasingly central role in our communications infrastructure; the slow convergence of routing protocols after a network failure becomes a growing problem. To assure fast recovery from link and node failures in IP networks, we present a new recovery scheme called multiple routing configurations. It can be implemented with only minor changes to existing solutions. In this paper we present multiple routing techniques, and analyze its performance with respect to scalability, backup path lengths, and load distribution after a failure. It also shows how an estimate of the traffic demands in the network can be used to improve the distribution of the recovered traffic, and thus reduce the chances of congestion whenmultiple routersare used**.**