



## An Autonomic Architecture for Network Management and Control

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Today's networks comprise a large number of Network Elements (NEs) such asrouters, firewalls, gateways, hosts, etc., each perform ing a set of elementary functions related to routing, security management, resource reservation, Quality of Service (QoS) management, etc. M oresophisticated functions such as configuration of NEs, optimization of routing tables, trouble shooting, etc., are mainly handled in acentralize d fashion often involving human intervention. However, networks are increasingly faced with rapidly changing situations and ever more compl ex configurations which are harder to adequately controlin a centralized manner, because of timing issues (collecting and processing information takes time) and complexity issues (dealing with networks centrally/globally is increasingly complex). In this paper we propose an autonomic architecture for controlling and managing current future networks. This solution enables the performance of controlland management functions in a decentralized way, dealing locally with simpler situations in a more responsive way.

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