

Network Design Assistant System Based on Network Description Language

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Abstract— In recent years, various network devices have been provided by many vendors. Therefore, administrators must have knowledge of those network devices and network technologies when to design, configure and monitor their networks. To reduce administrative cost, we proposed Network Description Language (NDL) for network lifecycle (design, configuration and monitoring) managements. The administrator only needs to write network specification in NDL. Configuration files for individual network devices will be automatically generated from the specification. However, it is not easy to write the specification in NDL. This paper describes Network Design Assistant System based on NDL. It assists to create specifications from user requirements.

Keyword—Network Description Language, Network Design, Network Management, XML



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