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Abstract

**WEB-BASED NETWORK CONFIGURATION  
MANAGEMENT SYSTEM**

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As the complexity and size of data networks increases, the network management faces a great challenge. Fortunately, the emergence of SNMP management framework and Web technology release network managers from this difficult circumstance. This thesis discussed the functional requirements of Web-based Network Management and proposed the architecture for Web-based Network Configuration Management, which is capable of controlling and monitoring the configuration information of enterprise networks remotely. The functional modules and the interfaces of the proposed system were discussed in detail. The implementation of WebNCMS is also presented as a case study in the end of the thesis.