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## A Hierarchical System Management Approach Based on SNMP for Network Device

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### ABSTRACT

System Management(SM) architecture of network device can use a hierarchical management approach. The system has standardized SNMP interface to the external management subsystem. Configuration functionality, status query functionality, statistics collection functionality and event reporting functionality for its all modules can be provided by this hierarchical management approach. More dynamic extensibility can be obtained and the network device can be easily managed by other external management subsystem.

**Keywords:** SNMP; hierarchical management; system Management; external management subsystem