Abstract

The rapid evolution of internet technologies raises the challenge of satisfying different management technologies and solution features for distributed heterogeneous networks in a unified architecture. The work proposes a novel Web Based Enterprise Management (WBEM) Gateway Enabled Integration Approach for SNMP, CMIP based heterogeneous networks. The solution is based on WBEM Common Information Model (CIM). The work involves network simulation and the mapping between SNMP, WBEM and CMIP, WBEM. A mapping function which converts SNMP Management Information Base (MIB) data to WBEM CIM Managed Object format (MOF) data and CMIP MIB data to corresponding WBEM CIM MOF data has been developed for performing specification translation operation of WBEM gateway. The SNMPv1MIB and SNMP v2 MIB information has been mapped to the corresponding WBEM CIM qualifier. In this way interoperability between heterogeneous networks has been obtained.
References


Index Terms

Computer Science
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Keywords

Wbem  Gateway  Snmp  Cmip  Heterogeneous Network