

Building a monitoring and alerting system for the network system of Unitel Telecommunications Infrastructure and Technology Development Joint Stock Company based on the SNMP protocol.

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Abstract: This topic focuses on building a monitoring and alert system to optimize the management and maintenance of network systems at Unitel Telecommunications Infrastructure Technology and Development Joint Stock Company. Through research, the topic applies the SNMP protocol to collect information on the operational status of network devices, thereby developing an automatic alert solution when incidents occur or preset thresholds are violated. The implementation method includes analyzing requirements and technical aspects, then deploying the application based on the chosen platform. The expected result is to enhance monitoring capabilities and reduce response time to network incidents, thereby improving service quality for customers.

Keywords: Network system, SNMP, Network monitoring, Automatic alert, Unitel