Local Area Network Management, Design and Security: A Practical Approach

Arne Mikalsen; Per Borgesen

The ISO network management model's five functional areas are listed below. Security Management—Provide access to network devices and corporate assets. Its design is based on the Object Management Group (OMG) object model. Fault conditions on Cisco Catalyst local area network (LAN) switches.
Hierarchical Approach to Network Management. Layering of network management not only allows NMS systems to communicate better, it reduces the amount of alerts seen by network operations support staff. At the lowest layer, it is nearly impossible to keep up with events displayed from each network element reported in the NMS architecture. From a practical perspective, integrating these elements involves: Assembling a robust set of event correlation rules that consistently and accurately identify the source of an event. Opening a trouble ticket in an incident management application that operational personnel begin working on. Tools that provide planning, design, and lifecycle management for network assets should be the primary focus of any well-managed network.