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Remote VPN User Access Auditing System

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In today's competitive business world remote access delivers tangible business benefits for enhancing the productivity and efficiency of the business by allowing anytime, anyplace access to the office network through VPNs (Virtual Private Networks). Remote access VPNs accommodate employees who desire network access from home after hours and weekends to perform business functions without interruptions that are present in an office environment. Because of this most organizations use remote access to allow employees to access office network resources remotely. In such a situation, Remote User Access Auditing (RUAA) is a very important to ensure the security of the office network. A RUAA can be used to monitor and to investigate remote user's suspicious activities and to detect problems on the network.

We have developed a web based RUAA system for monitoring ingresses and egresses of the remote users to the office network during our 3rd Year training assignment at Srilankan . The system is capable of providing per-user and monthly activity reports based on the ingress and egress time and the session durations. The application is developed using the C#, ASP.NET, AJAX and SQL technologies and operates parallel with the Cisco Secure Access Control Server (ACS) 4.1.

In this paper the developed RUAA system is described with its usage, functionality and technical operation.