



Gavika Information Technologies Pvt. Ltd.

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Gavika RADIUS Case Study **Educational Institute**



Challenge

The customer's IT network over a period of several years had grown in size and complexity. The network and system administrators were burdened with maintenance chores. The network had shown signs of sluggish performance, internet availability and other related issues. The staff and students had witnessed routine connectivity issues.

The management decided to resolve all these issues. They requested an IT services company to study the network, assess the problems and propose a solution.

Assessment

The IT services company undertook the request and performed a thorough analysis of the network. The team observed traces of unwanted traffic in the network. The team identified that the WiFi network had a shared password. Several observations by the network professionals were noted, discussed, debated and finally a solution plan was laid out.



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Solution

The team suggested upgrading various parts of the network. A modern enterprise-grade set of WiFi access points was suggested. Along with a robust network router and hardware firewall with threat management solution was also recommended. Implementing AAA was the cornerstone of the proposed solution plan.

Implementation

AAA implementation allowed the education institute management and network administrators to take control of the network. With the RADIUS system in place, each individual in the organization – teaching staff, non-teaching staff and students were given individual and unique credentials to access the network. Within Gavika RADIUS, a user directory was built. The user directory contained fields such as:

- username
- password
- mobile number
- device Mac address
- group

Gavika RADIUS allowed the network administrators to enforce security policies such as restricting the users to connect to the network using only their designated devices. For example, a student could use only their laptop and smart phone to access the network. If they tried to access to the network using another device such as a tablet computer, the AAA system would automatically deny such connection requests.

In Gavika RADIUS user groups were created. People within the organization were assigned to a particular group. Further restrictions were imposed on the group such as schedules and number of simultaneous devices that were allowed to connect.



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Results



Within a few days, increased performance was perceived by the users of the network. Due to increased visibility based on Gavika RADIUS reporting, the network administrators could quickly identify the source of the problem and they could arrive at a solution faster than before. The IT administrators felt a sense of security of the network. The AAA system ensured that unauthorized devices and users were kept outside the network.