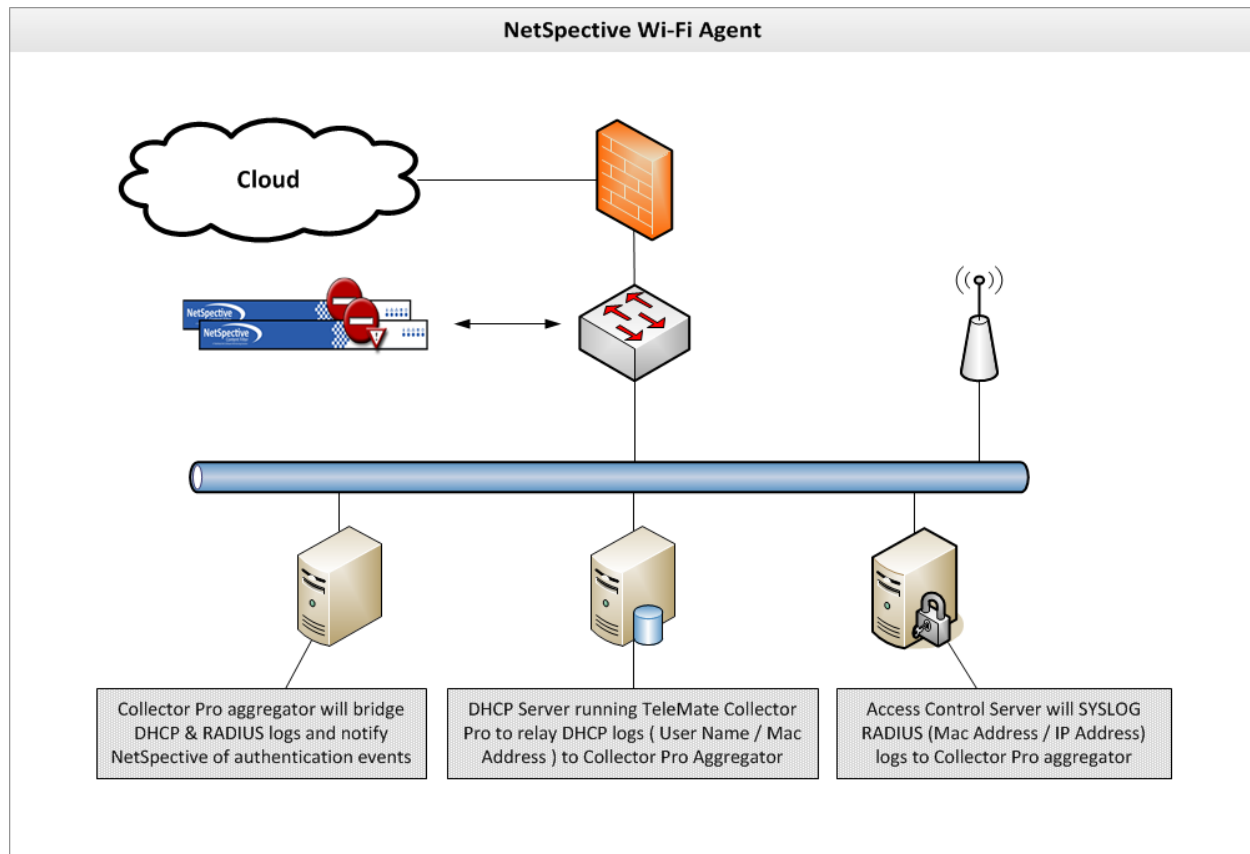# NetSpective Wi-Fi Agent Overview

The Wi-Fi Agent is intended to solve the needs of ISDs and school districts using multiple wireless zones with a need for transparent authentication. If users already are authenticating through RADIUS, and are receiving an IP address through the DHCP server, then the Wi-Fi Agent can be implemented. We can use these sources to authenticate users in NetSpective for a transparent and secure login.

NetSpective Wi-Fi Agent

Collector Pro aggregator will bridge DHCP & RADIUS logs and notify NetSpective of authentication events	DHCP Server running TeleMate Collector Pro to relay DHCP logs (User Name / Mac Address) to Collector Pro Aggregator	Access Control Server will SYSLOG RADIUS (Mac Address / IP Address) logs to Collector Pro aggregator

How the Wi-Fi agent works

Our goal is to gather the information we need so that we can to properly authenticate a user. NetSpective requires a **Username** and **IP Address** for authentication. Here is how we'll obtain it.

- RADIUS Logs – Containing a MAC Address and **IP Addresses**.
- DHCP Server Logs – Containing the **Username** and MAC Address.

Collector Pro is a piece of software developed by TeleMate.Net software. It is a flexible, Windows based application used to relay logs from one server to another in real time.

Collector Pro is used to relay these logs to the Wi-Fi Agent. The Wi-Fi Agent will then correlate the MAC Addresses from each log, to determine the Username and IP Address of each user. This will then be sent to NetSpective so these users can be given a filtering policy.

Use Case Scenario Examples

An organization may have various Wi-Fi zones:

- Guest Wireless
    - Devices incompatible with WPA2 Enterprise – Authenticated with NetSpective Mobile Portal.
    - Open Wi-Fi - Devices authenticating with a common password or a Captive Portal System.
    - Devices compatible with WPA2 Enterprise – Username and IP Address authentication data is provided in the secure RADIUS logs.
- Internal Wireless
    - Devices compatible with WPA2 Enterprise – Username and MAC Address is gathered from RADIUS logs.

End User Experience

The Wi-Fi Agent reduces the need for the NetSpective Mobile Portal. Users already authenticating through RADIUS can be brought in with the Wi-Fi Agent. With the Wi-Fi Agent deployment, the end user will never be prompted for NetSpective authentication and no software needs to be put on their device, giving them a completely transparent experience.

Investment Cost

The Wi-Fi agent is a small, Windows based program. It can run on any type of Server or VM environment. Log collection is done through the Collector Pro program, also lightweight and Windows based. We simply require a non-dedicated Windows server or VM to run the process of gathering this data and relaying it to NetSpective. Since both programs are lightweight and flexible, this can be used with any existing servers or VMs in your environment.

Deployment of the Wi-Fi Agent

Since most customers have various Wi-Fi solutions, we require at minimum, a day of professional services for this deployment. This service is provided for free to a customer with an unlimited license. Once deployed, the agent runs quietly in the environment with no necessary customer interaction.