## Tech Overview : Recording Based upon Username-Authname Binding

Nowadays, implementing an Internet recording system is a common network management practice among companies and organizations. The recordings obtaining from instant messaging, message exchanging and other network activities usually are the dominating factor that affects the final verdict of legal proceedings between you and the other party. Therefore, choosing the right equipment has become the first priority when it comes to the protection of company's rights and information assets.
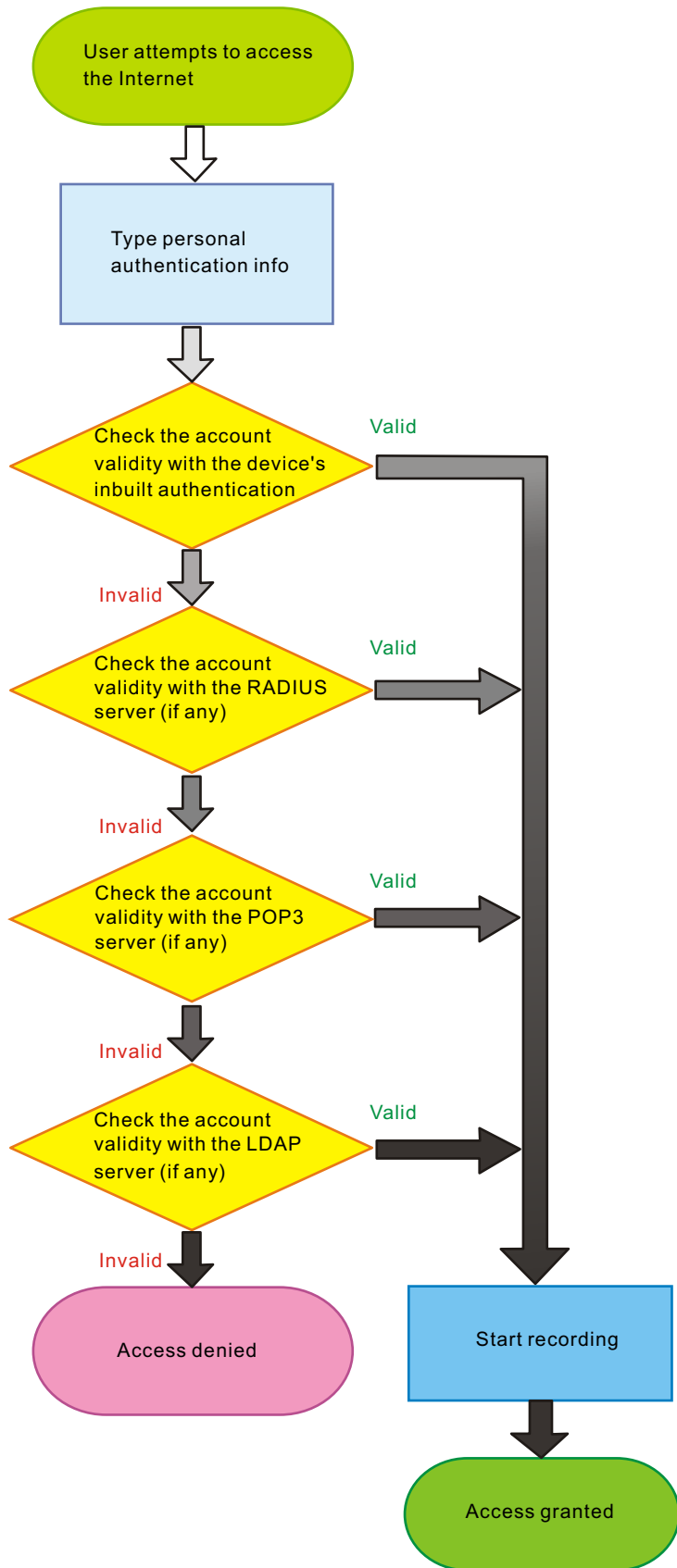
Nevertheless, the recordings would be of no use at all if their corresponding users were not clearly specified. Accordingly, Nusoft has come up with Username-Authname Binding that bases recordings on users' authentication names from either the device's inbuilt authentication or an external authentication server such as POP3, RADIUS, or LDAP.
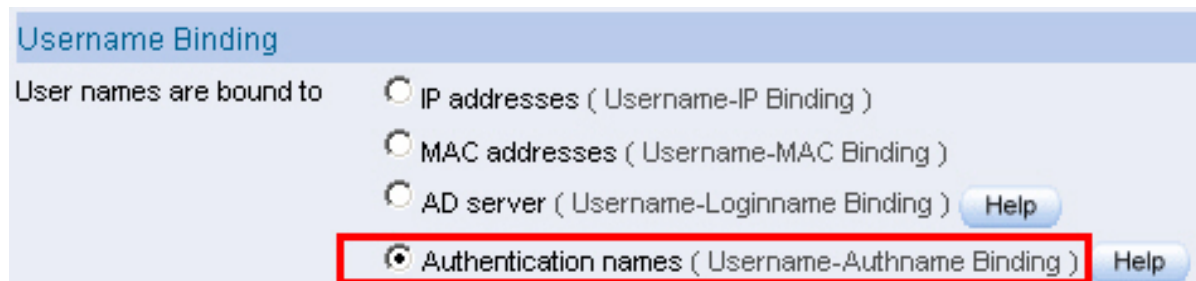
The Screenshot of Selecting the Username-Authname Binding

Once the Username-Authname Binding has been activated, users must be authenticated to access the Internet and other Internet-based services using the device's inbuilt authentication name or those on a supported authentication server such as POP3, RADIUS or LDAP. In addition, their authentication names will be used as the recording basis thereafter.

Regarding the priority over the four authentication mechanisms, from the highest to lowest is as follows: the device's inbuilt authentication, RADIUS, POP3 and LDAP. For instance, if there happens to be an identical account 'ABC' separately on the device's inbuilt authentication table and the POP3 server, then users will be prompted for the inbuilt one rather than that on the POP3 server due to the priority ranking. Note particularly that the device needs to be deployed in Bridge mode for the Username-Authname Binding to be applicable.

No.26

**User attempts to access the Internet**

**Type personal authentication info**

Check the account validity with the device's inbuilt authentication — Valid

Invalid

Check the account validity with the RADIUS server (if any) — Valid

Invalid

Check the account validity with the POP3 server (if any) — Valid

Invalid

Check the account validity with the LDAP server (if any) — Valid

Invalid

**Access denied**

**Start recording**

**Access granted**

Authentication Process Diagram

In order to protect authenticated accounts from unauthorized use, the device allows you to specify an idle time to automatically log off users that have exceeded this time. As for specific users or public-facing services such as email, you may exclude their IP address (or the server's IP that provides the service) from authentication by using the **Authentication-Free List**. However, users that are exempted from the authentication will be recorded by their IP addresses instead.

## Product News : Nusoft Introducing the Username-Authname Binding

It cannot be denied that the Internet has changed the way we used to think and on which we have grown great dependence. However, the facility of its access, in the business owners' eyes, can be a threat to the sensitive business secrets and the cause of low employee productivity. Consequently, Internet recording devices now are highly valued and seen as the measure to achieve the goal of "Effective Data Protection and Employee Productivity".

Nearly nine out of ten enterprises would choose to implement an AD server in combination with several Internet recording devices (as needed ; depending on the size of the network ) to perform an "Individual-based Recording". Nevertheless, SMBs with tight budgets might be left hopeless when it comes to the need for the same intention.

In answer to that, the name binding methods offered by Nusoft enables SMBs to record and monitor each individual's network activities. Apart from IP addresses, MAC addresses and AD login names, you may also opt for authentication names to be the recording basis. The latest firmware release (version 5.05) allows you to regulate the LAN users' Internet access as well as record their network activities using the device's inbuilt authentication or an external authentication server such as RADIUS, POP3 or LDAP. The benefit of binding users to its authentication mechanism is to avoid mistaken identities resulted from IP or MAC addresses being randomly assigned by users themselves. Note that the Username-Authname Binding is only applicable to Bridge mode deployment.

| Recording Basis | By IP Addresses | By MAC Addresses | By AD Login Names | By Authentication Names |
|---|---|---|---|---|
| Scenario | LAN users using static IPs | LAN users using static / dynamic IPs | Networks with AD server implemented | Networks without AD server implemented |
| Note | The recordings would be meaningless if the IP addresses are changed randomly by users themselves. | The recordings would be meaningless if people other than the person themselves use the computer. | The recordings are based on AD login names and thus are accurate. | The recordings are based on authentication names and thus are accurate. |

Bearing the business principle of "Ceaseless Progress, Ceaseless Service" in mind, Nusoft has made every possible effort to anticipate and strive to meet our customers' needs. With each step we stride, you are one-step closer to the ideal networking environment.