



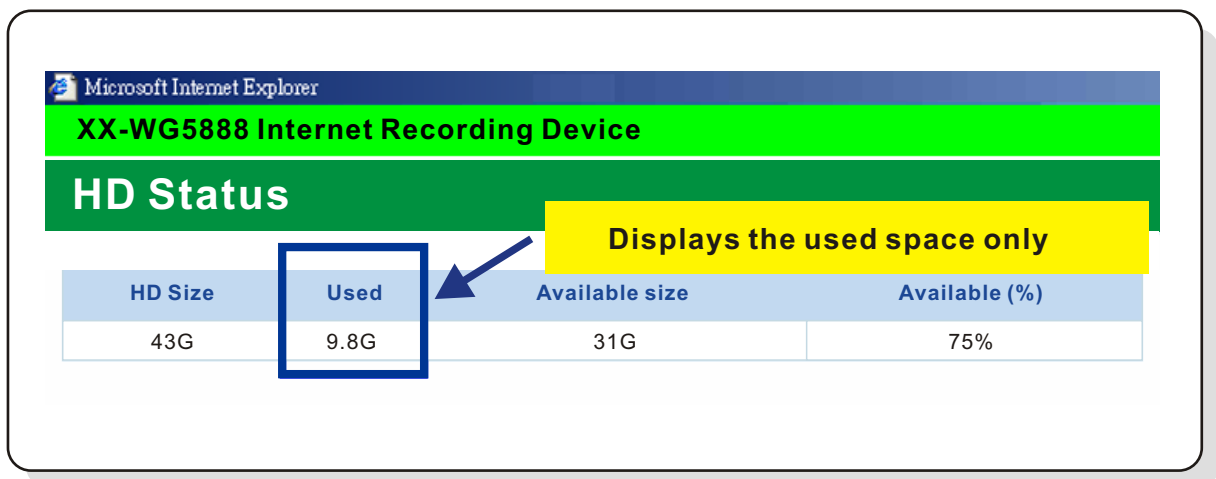
Tech Overview : Effective Disk Capacity Management

The Internet is a common communication tool utilized by businesses. However, it has become a necessity for businesses to install devices such as Internet recording devices to ensure that their intellectual property remains secure and employees do not utilize the company's network for non work related purposes.

What businesses need is a device that can record detailed information so that it can be accessed anytime in the future. However, even medium-sized businesses using the Internet recording devices store vast amounts of records. Therefore, it is a necessity for the disk capacity management to be optimized.

The Disadvantage of Third Party Internet Recording Devices

The majority of third-party Internet recording devices on the market do not attach enough importance to storage capacity management. They merely provide general hard disk information such as used space, free space, etc. As soon as the storage capacity reaches its maximum, third-party Internet recording devices delete data, some of it obviously being important.



As a solution to this problem, Nusoft has developed an expiration time setting in the Internet Recorder, allowing IT administrators to configure the length of time they wish to keep every service's records. Once set, the device will then automatically calculate the estimated storage space of each service according to the expiration time and average daily flow quantities. This gives IT administrators a helpful indication of the storage space that is required for every service, effectively preventing the depletion of storage space and the consequential loss of valuable data (see the figure below).



Storage time can be adjusted according to the business's requirements.

Service	Duration (y/m/d)	Avg. Size / Day	Storage Time (0: Not Record)	Estimated Storage Utilization* (Percentage)
SMTP	06/10/03 ~ 06/10/08	24.59 MB	999 Days	24.57 GB (9.95%)
POP3	06/10/03 ~ 06/10/08	14.82 MB	999 Days	14.81 GB (6.00%)
HTTP	06/10/03 ~ 06/10/08	95.04 MB	30 Days	2.85 GB (1.15%)
IM	06/10/04 ~ 06/10/08	752.39 KB	120 Days	90.29 MB (0.04%)
Web SMTP	06/11/06 ~ 06/10/08	4.29 GB	30 Days	128.82 GB (52.16%)
Web POP3	06/10/04 ~ 06/10/08	2.53 MB	30 Days	75.84 MB (0.03%)
FTP	06/10/04 ~ 06/10/08	99.16 MB	30 Days	2.97 GB (1.20%)
TELNET	06/10/03 ~ 06/10/08	12.02 KB	30 Days	360.72 KB (0.00%)
Total				174.19 GB (70.53%)

*Estimated Storage Utilization = Avg. Size * Storage Time
 The Estimated Storage Utilization is a result came from multiplied Avg. Size by Storage Time configured by user, it is used to count the future occupied storage utilization and percentage of each service depends on the storage time that user set right now.

Estimated Storage Utilization

	Nusoft Internet Recorder	Third-Party Internet Recording Devices
Storage Capacity Utilization	The device can automatically allocate storage space for SMTP, POP3, HTTP, IM, Web SMTP, Web POP3, FTP and Telnet based upon average usage rates.	Only shows basic information such as the used storage space; the device is not able to automatically allocate storage space.



Product News : Group Administrator Enabling Hierarchical Management

For the purposes of protecting intellectual property assets and preventing employees from misusing their network, businesses can be proactive and install Internet recording devices to manage the network instead of just relying on the trust from their employees.

Businesses normally encounter two kinds of problems when using Internet recording devices. Firstly, the large mass of records poses difficulties for IT administrators to manage. Secondly, some sensitive information should only be viewed by the supervisor in the related department rather than someone else.

The main problem is that the average Internet recording device is incapable of classifying each user's records into groups. Another downside is that they only provide sub administrators with read or write access. If sub administrators are granted reading access there is nothing that could stop them from viewing the entire businesses records including any highly sensitive information such as financial documents, confidential emails, etc. which should only be viewed by the related department.

Group Management Controls

As a solution, Nusoft designed their Internet Recorder with a group management feature, whereby all records can be classified according to their associated group. In addition, besides having just a main IT administrator, the enterprise can add group administrators (i. e. department managers) and give them the permission of changing the settings and reading the record of specific groups only. Consequently, the department manager can only see the records of his or her own department.

By allowing each group to be managed by a group administrator, who may then report the results to the general manager, it provides effective hierarchical control of the entire network. Sensitive information is also restricted to only those authorized to view it.

	Nusoft Internet Recorder	Third-Party Internet Recording Devices
Records Classification	Classifies the records according to groups/departments	Provide no classification, all data is stored together
Management Capabilities	<ul style="list-style-type: none"> ★ Can assign group administrators ★ Facilities hierarchical management due to group administrators being responsible for their department/group 	<ul style="list-style-type: none"> ★ Can assign sub administrators ★ Any sub administrator can view the business's entire records

Table 1 Contrast between the Nusoft Internet Recorder and Third-Party Internet Recording Devices