



Tech Overview : Backup of Recorded Data

Even though the NUS-IR2500 comes with a 250GB hard drive, due to the large amount of recorded data, it will eventually reach its storage capacity. However, this does not mean the device will stop recording new data. The device allows you to allocate a maximum storage time for each of its recorded services. Once this time has been exceeded, newly recorded data will be written over the old records. In some countries, email archiving legislation requires companies to archive their emails for around three to five years. In this case and for other important records requiring long-term backup, the device’s Remote Backup function presents the ideal solution.

A file server or NAS are some of the remote storage options that the device can utilize its Remote Backup feature. Based upon the IT administrator’s specified time, email, IM and any other chosen service can be backed up automatically, such as after working hours. This prevents any disruption to the network or the recording of new data. By utilizing the storage capacity of a NAS or file server, large amounts of important data can be safely archived.

The NUS-IR2500’s Remote Backup function provides the following benefits :

1. Provides a potentially unlimited storage capacity (figure 1).
2. Backs up important data. Regardless of whether that data was accidentally deleted, lost due to a hardware fault or automatically deleted by the device due to exceeding the specified storage time, it can be retrieved.
3. Backed up data on the NAS or file server can be conveniently viewed via the devices management interface (figure 2).

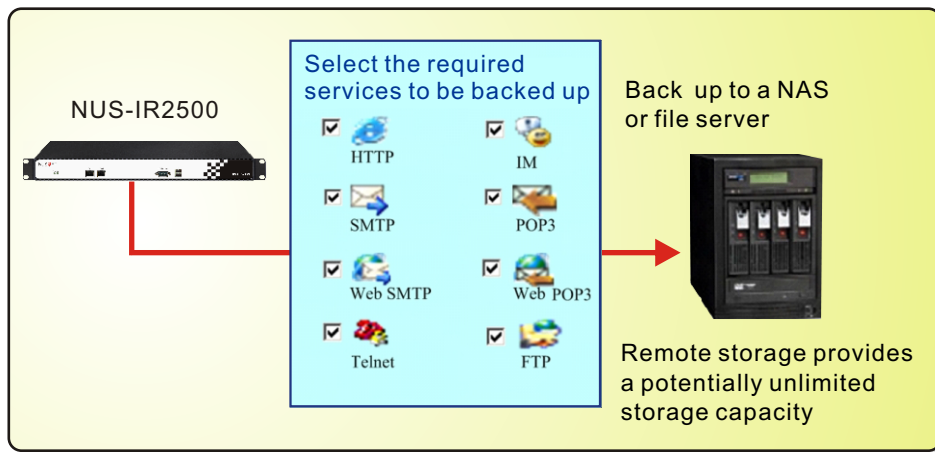


Figure 1

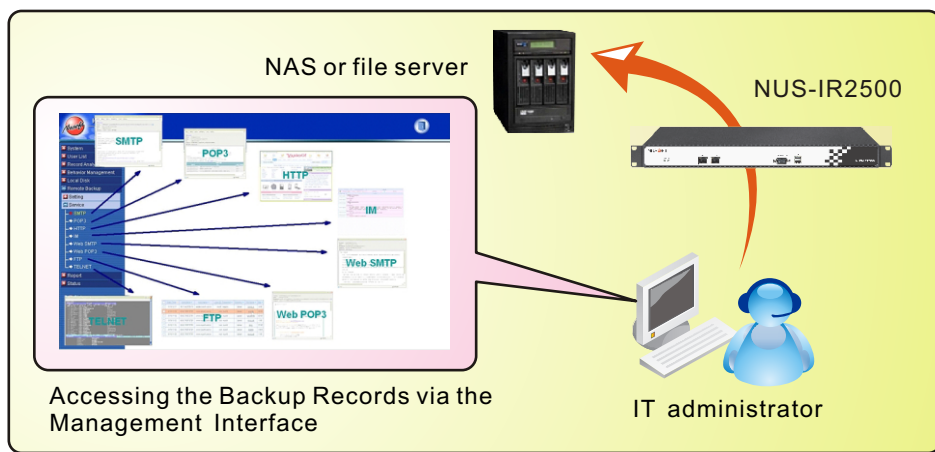


Figure 2



The Comparison of Backup Capabilities :

	Nusoft Internet Recorder	Third-Party Internet Recording Devices (utilizing CDs to back up data)
Backup Time	The automatic backup can take place at times which cause the least amount of network disturbance e.g. during the night.	Requires manual operation. Thus, it can only be performed during working hours.
Storage Media	Can use the inbuilt hard drive or a remote backup server.	A quantity of CDs are required to provide adequate storage space.
Storage Capacity	Depends on the capacity of the NAS or file server. Most offer at least 250GB which would be suitable to backup approximately 85 days of data from a large-sized business.	Each CD only has a capacity of 600MB. This will provide a large-sized business with around four hours of data.
Storage Reliability	NAS and file servers can use RAID technology to ensure reliability.	CDs do not have any reliability mechanisms - if the CD becomes inaccessible, data will be irretrievable.
Operation Requirements	Backup can be performed automatically by the device.	Requires someone to change CD
Pre-Backup Requirements	Data is automatically transferred to the NAS or file server in its original form. There is no need to convert the data to another file format before the backup.	Recorded data has to be converted to an .iso file before it is burned onto the CD, taking up further storage space.

The Comparison of Backup Viewing :

	Nusoft Internet Recorder	Third-Party Internet Recording Devices (utilizing CDs to back up data)
Backup Viewing	Directly from the management interface	The file on the CD has to be converted before being viewed.
Time and Location	Access to the management interface can be done at any time and any location with Internet access.	Requires a computer with the necessary software to view the CD. Unable to view the records at any time or any place.
Backup Search	The management interface provides a search feature to quickly locate the desired record.	The required record has to be found from within a large quantity of CDs. Each CD has to be search individually until the desired record is located.
Multiple Access Capability	Multiple users can search through the records at the same time.	Only one user can search through the records at a time.
Required Software	There is no need to install any additional software; the management interface is accessible via any computer that has Internet access.	The installation of software is required to view the CD.



Product News : Essential Internet Recording Device Features

Businesses wishing to gain a competitive edge over their competitors, utilize the Internet in various ways. However, it has also created various problems for businesses. Employees misusing the Internet to engage in non-work related activities, such as instant messaging, transferring large files, leaking confidential business information, etc. is becoming increasingly common.

To combat the above-mentioned problems, businesses install devices with Internet recording capabilities. These devices are advertised as having a range of features to record and manage employees' behavior. However, they lack the capability to display records clearly.

To resolve these deficiencies, the Nusoft Internet Recorder's design provides as follows:

1. The capability to record eight commonly used services in detail:

HTTP, SMTP, POP3, Web-based SMTP / POP3 email, instant messaging, FTP and Telnet.

2. The Classification of Records for Users and Services

Product / Data Classification	Nusoft Internet Recorder	Third-Party Internet Recording Devices
By User	The device's User List can be used to examine a specific user's online activities. The Today Top-10 gives an instant overview of the users who have used the most bandwidth.	To find a specific user, the IT administrator has to search through a service to locate the specific user, wasting a lot of time in the process.
By Service	Each of the eight services (e.g., HTTP, instant messaging, etc.) can be examined. From this information, the associated users of each service can be determined.	

3. Comprehensive Search Features

Product / Search Capabilities	Nusoft Internet Recorder	Third-Party Internet Recording Devices
Search Criteria	The powerful search function can be based on search criteria such as web site title, username, contents and time. The IT administrator can locate the desired records easily and quickly.	Search criteria are limited and the results found are often unclear e.g. no web site title provided.
Content Search	This unique function allows searches to be based on the content, saving the IT administrator an enormous amount of time.	





4. Traffic Flow Analysis and Ranking (Both Real-Time and History-Based)

Flow Analysis & Ranking \ Product	Nusoft Internet Recorder	Third-Party Internet Recording Devices
Today Top-10	Using a time slider to examine the top-10 bandwidth users and services within the time duration specified. This feature makes it easy to identify culprits who are misusing the Internet.	Do not provide the flexibility to traffic flow statistics over adjustable time duration. Unable to analyze any service other than the basic ones that they provide. Ineffective for identifying culprits misusing the network.
History Top-N	Provides Flow analysis statistics based upon any time period reordered from the device's history.	

5. Backup Capabilities

	Nusoft Internet Recorder	Third-Party Internet Recording Devices
Backup Mechanism	The required services can be backed up automatically or manually to a NAS or file server. The time can be set to after hours to avoid any disruption to the network.	The majority is only capable of using CDs to back up records. During backup process, the recording is interrupted.

The device's anomaly flow detection and group management capabilities can supplement the above-mentioned mechanisms. Supervisors can be assigned viewing and management privileges of a group/department to monitor and manage the traffic flow of the users.