No.5

Tech Overview : Differences between Nusoft's IR Series and Other Nusoft's Product Series (MS / MH Series)

The Internet has completely revolutionized business communication. In addition to email, instant messaging software has emerged as a common communication tool. Its wide spread use has also resulted it in being misused by employees for non-work related chat with friends and for personal file transfers. It is also an avenue to leak out highly sensitive business information.

Nusoft's IR, MS and MH series were designed to provide effective management and control of these issues. The following information highlights some of the configuration differences with the IR, MS and MH Series.

IR Series Instant Messaging Management

Taking the NUS-IR2500 as an example, its instant messaging management uses the user's IM login name as the recording basis. If the user has been banned then they will be unable to log in (Figure 1). The IT administrator can ban the use of all users under "Default Rule" and then allow specific users to log in under "Account Rule". The NUS-IR2500 also has the following special features:

- IM Authentication - Only users who have successfully authenticated with their IM account name can gain access to instant messengers.

- Login Notice - Users can also be notified that their IM conversations are subject to recording prior to using instant messengers.
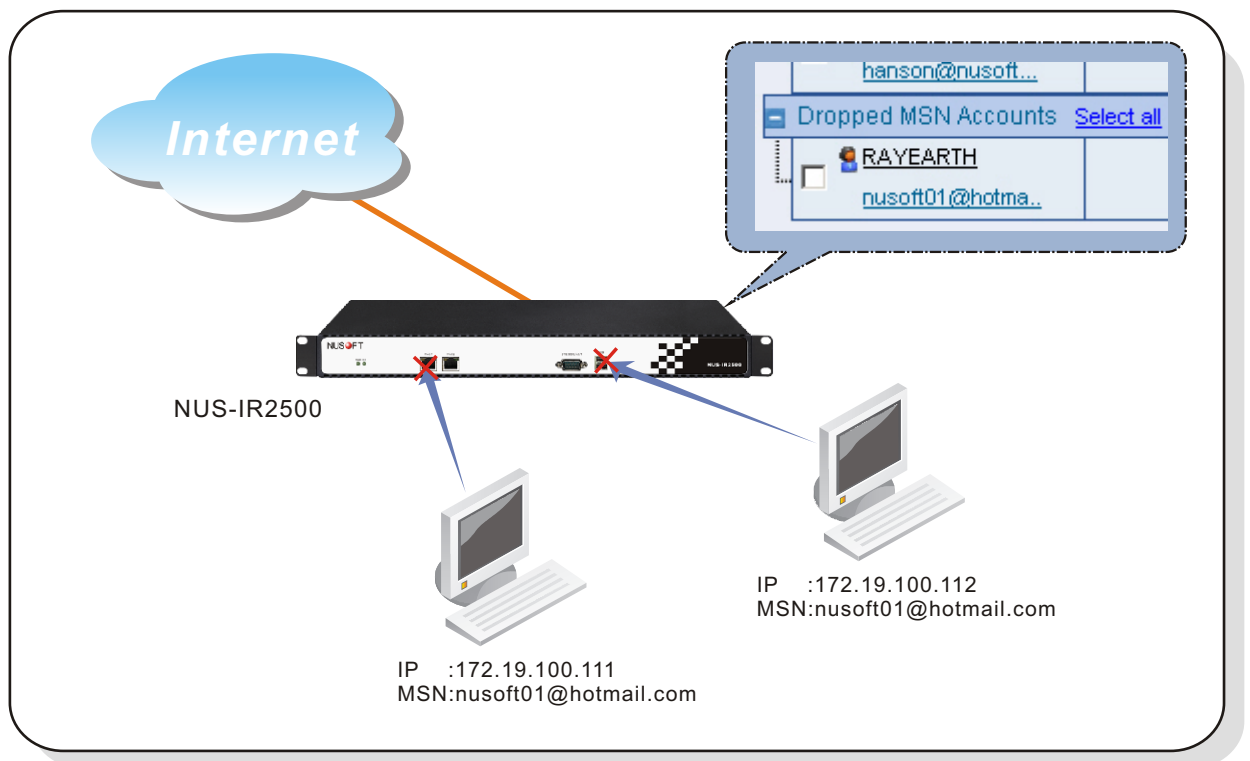

Figure 1 IM Management Based on the Users IM Login

Note：To do this, the NUS-IR2500 must be deployed in bridge mode

No.5

MH and MS Series Instant Messaging Management

Taking the NUS-MS3700 as an example, its instant messaging management control is IP address-based. Therefore, if a user has been banned their computer's associated IP address will not be able to use IM. The IT administrator can ban specific instant messaging software and then apply the configuration to the device's Policy setting (see Figure 2).
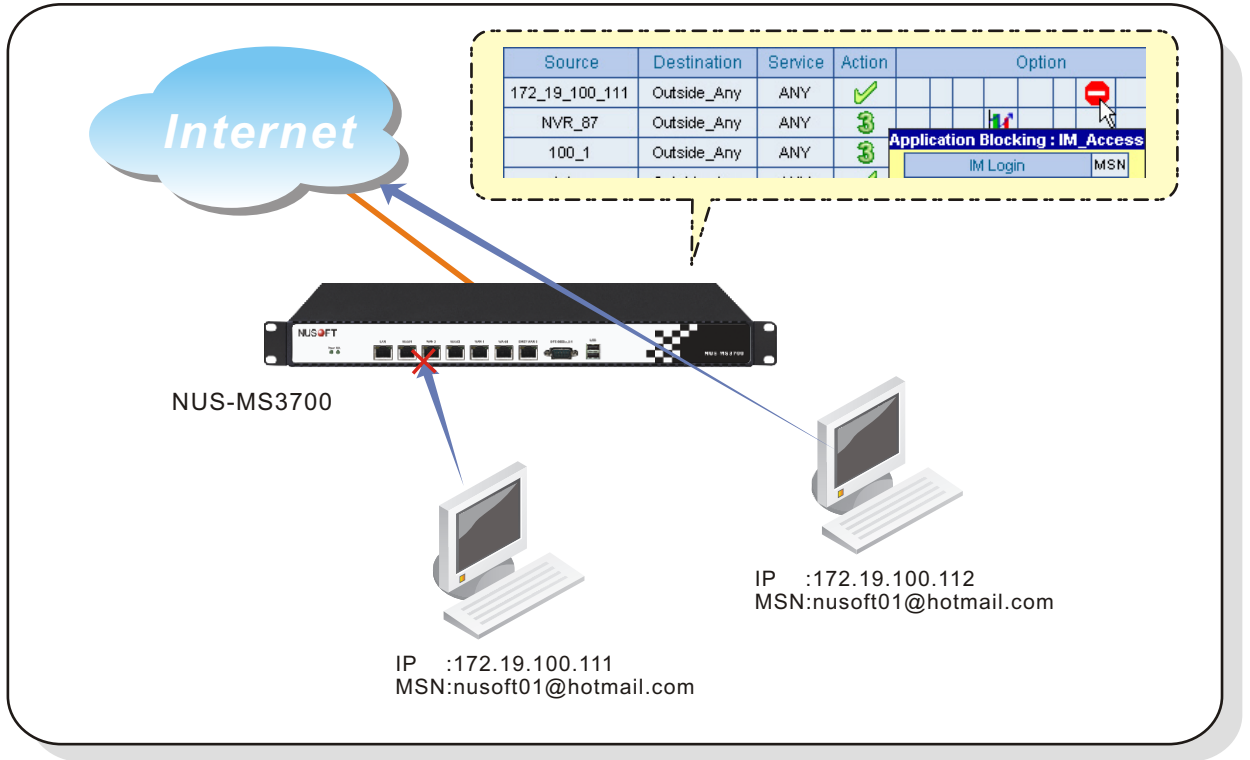

Figure 2 MS and MH Series IP Address-Based IM Management

	IR Series	MH and MS Series
Requirements	The device needs to be deployed in Bridge mode	Settings need to be applied to a Policy
Control Mechanism	Based on the IM login	IP address-based
Configuration Method	Restrictions can be placed on each individual user	Policy settings can be modified to manage the IP address
Capable of Blocking Web IM	Yes	No
Special Feature	IM Authentication & Login Notice	—

Table 1 Comparisons of IM Management between IR and Other Series (Applies to MSN, Yahoo, QQ, ICQ and Skype）

NUSOFT

Product News : Uncovering the Culprit behind Excessive Bandwidth Consumption

Businesses that have been able to utilize the Internet's various forms of communication are well aware of the convenience and cost advantages that it can bring. Despite these benefits, it is all too common for employees to use these tools for non-work related activities.

Heavy bandwidth usage activities such as media streaming, file downloads, etc. have all contributed to downgrading the quality of various business communication mediums such as VoIP, videoconference, etc. In an attempt to avoid being blocked by the company's firewall, some employees have resorted to altering the software's port number.

Nusoft's Traffic Flow Analysis

Nusoft's Internet Recorder series comes with traffic flow analysis（excluding NUS-IR1000）that can examine and provide a detailed breakdown of the network's usage, and nail down any culprits who are abusing the business's network resources.

Flow Statistics is a feature on the Nusoft Internet Recorder that provides a visual representation of the bandwidth usage over a period of time（Figure 1）. If there are any abnormally high bandwidth usage periods, the device's Today Top-10 feature can then be used to provide a more detailed analysis. Using the slider, the required duration can be set to view which user and associated service was contributing to the high bandwidth usage（Figure 2）.
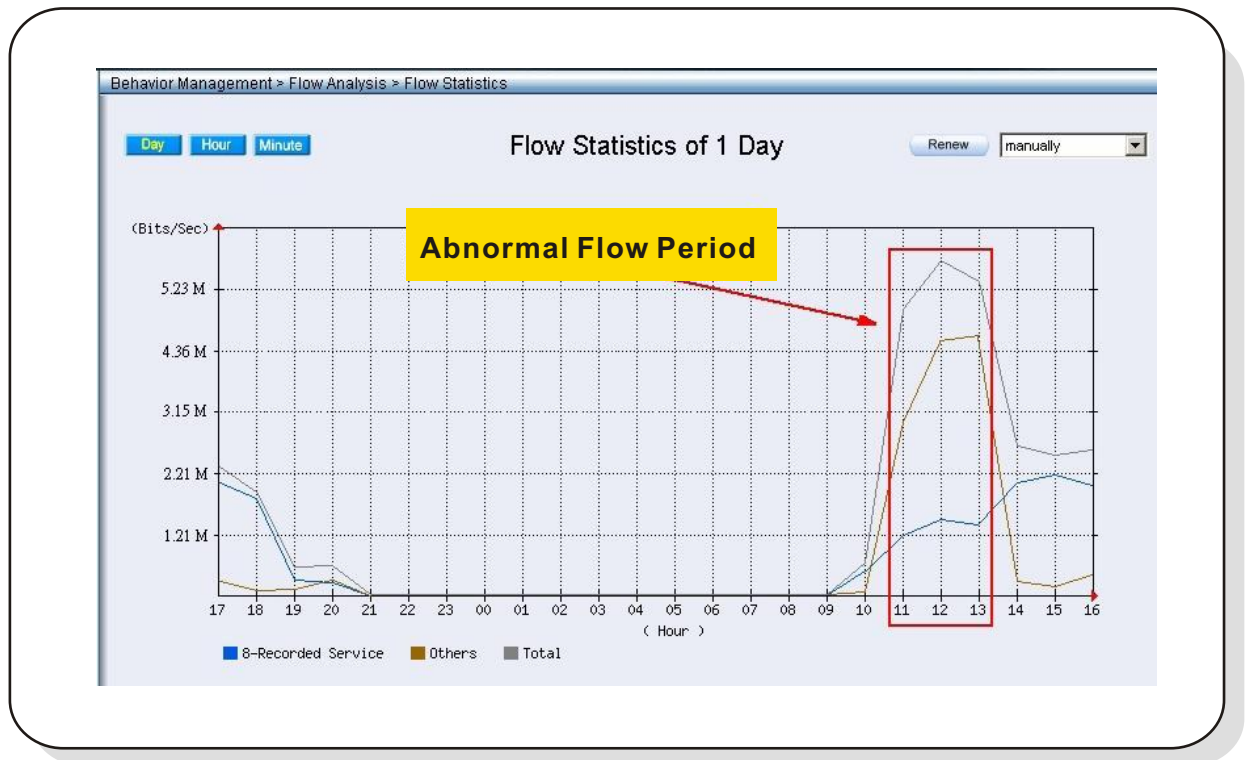

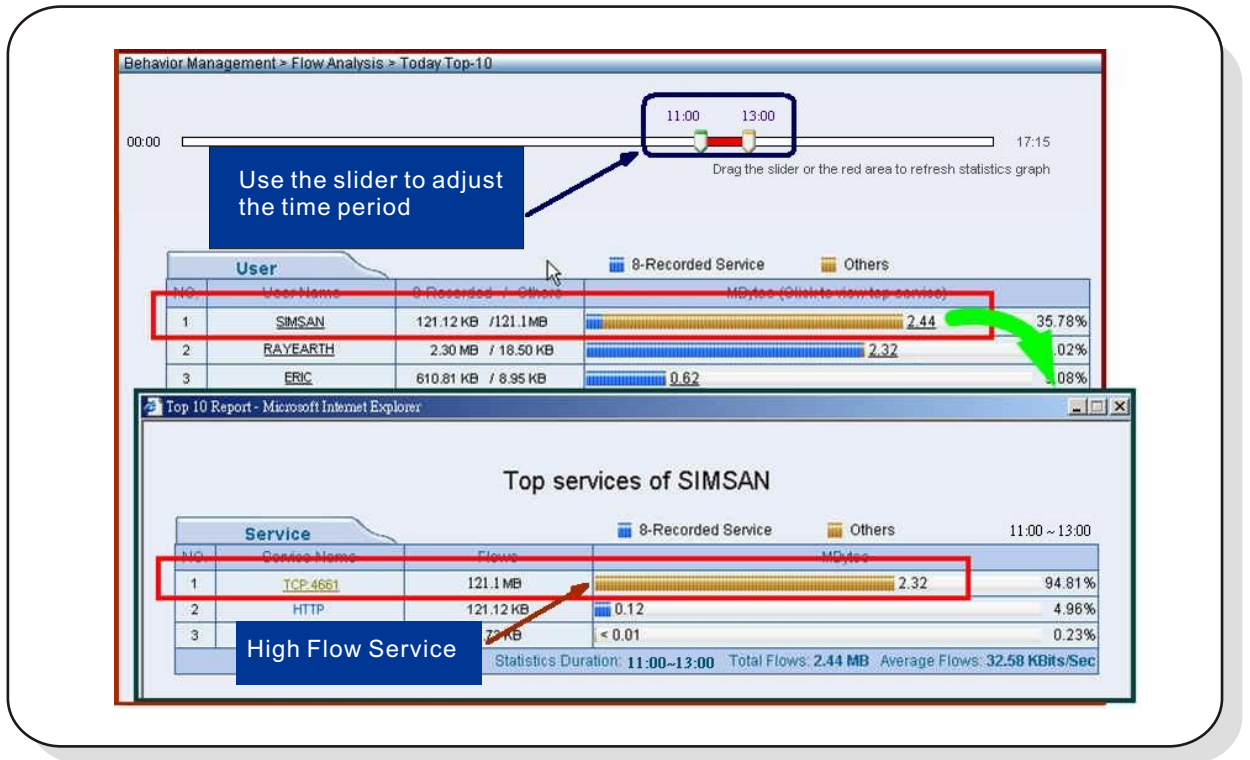Figure 3 Using Flow Statistics to Inspect Bandwidth Utilization

Figure 4 Service and User Flow Analysis

The figures show that the user named SIMSAN had been using a service other than the main eight recorded by the device i. e. SMTP, POP3 / IMAP, HTTP, IM, Web SMTP, Web POP3, FTP and Telnet. By inspecting the services top ten chart, it indicates that the user was using TCP 4661, which is most likely to be from P2P downloads.

The following table highlights the key differences between the Nusoft Internet Recorder and Third-Party Internet Recording Devices' flow analysis.

	Nusoft Internet Recorder	Third-Party Internet Recording Devices
Traffic Flow Viewing Capability	Can produce statistics during any specific time period using the slider control	Cannot analyze the record of specific period. Important information is missed easily
Services Analyzed	All services	Can analyze default services only

Table 2 Flow Analysis Device Comparisons