SKYMENU

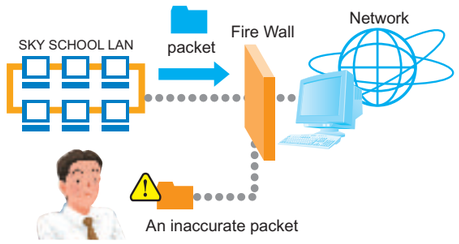
Sky Menu Pro version 5, Functionality of the School Intranet.
Sky School Lan Ver. 2, Information about packet transmission.

This pamphlet is about how to utilize the Sky Menu Pro and Sky School Lan in an effective way. Further, we would like to introduce our customer offer, in order to increase the ease-of-use.

01.

Regarding the router's firewall function (etc), the packets coming from Sky School Lan, is designed so that illegal internal packet transmission is detected.

Example:
When errors occur while using "basic installation" and designating the internal network address, please see the next explanation.
If the terminal settings at the start of installing on the computer, are set to "default gateway" on the node (router etc.), UDP continuous packet transmission is enabled.



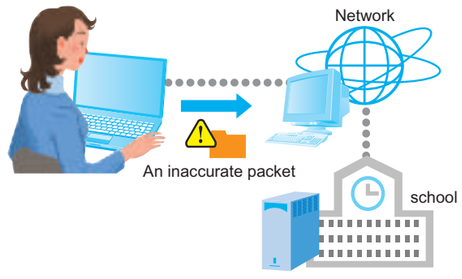
※ It won't work if the network address is not properly set or not set at all.

Solution: Please set the network address properly

02.

Problem Description: When a computer outside the school network is accessing the school and transmits non-allowed packets.

If the basic installation is used, a network address must be designated. If a computer from outside the school intranet is connecting, UDP packets are sent to the school network.



※ Case: If the network address is not set properly, it doesn't work.

Solution: if a regular server is used, then that server's IP address should be set in the "segment".
※ Currently we have no product solving the case of having no server in the network environment.

Reference Document

We would like to explain about outgoing packets.

Explanation of Sky School Lan's outgoing packet transmission.

The occurrence of outgoing packets, except for the header, contains 72 byte data. The header is a character string of ASCII code containing the characters "SKYSCHOOLLAN". Subsequently, after the header, the packets contain the same amount of data. When initializing, port number 5110 (UDP) is used. Set the option to "existing port + 2" as value when using the initial-setting-tool to change the port number.

When does outgoing traffic start?

When the computer is started the packet transmission starts. The computer is then connected to the network and designated an IP address, after which outgoing traffic starts.

Volume of the Packet Communication Traffic.

One packet is sent to all addresses in the network node within the mask so that self- configuration is enabled.
For example, in the case of connecting a network with a 24 bit mask, and within "segment", 192.168.1.0 is chosen, then a packet will be sent to nodes 192.168.1.1 to 192.168.1.254.
In this example, the transmission ends after having sent 254 packets. Packets are sent every 10 milliseconds. Every single transmission only sends to the network addresses that are included in the mask. For example, 2 packets are sent at every occasion if 2 network addresses are selected for transmission. Hence, 200 packets are sent every second.

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