

Intelligent console server

SmartCS

NS-2250

" Essential, Reliable, Flexible, Stable " Console server



"Console access" is still an important lifeline for a network

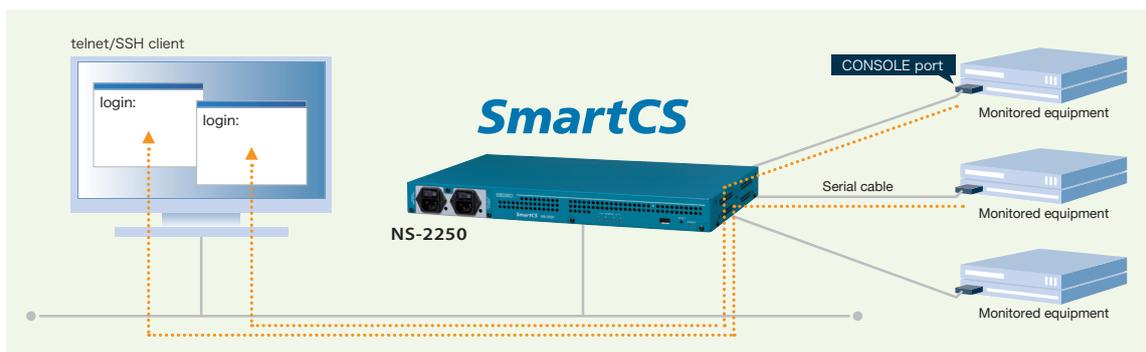
This console server aggregates the console ports of routers, switches, and other network equipment and servers and offers a unified, maintainable environment.

If you use SmartCS to create a monitoring network, you can reliably access the console ports of monitored equipment that are connected to SmartCS, even when an operational network problem occurs. This can reduce maintenance work greatly and minimize maintenance costs.

Aggregate the console ports of monitored equipment

SmartCS aggregates the console ports of multiple units of monitored equipment and offers a unified, maintainable environment. Instead of connecting terminals to the console ports of monitored equipment, you can connect to SmartCS and access the console ports of monitored equipment from a telnet/SSH client on the network.

Via SmartCS, you can operate monitored equipment as if you are directly connected to its serial port.



Encrypt communications and prevent unauthorized access

To provide secure access between SmartCS and monitored equipment that has been connected to SmartCS, SmartCS is equipped with SSHv2 (Secure Shell Version 2)/SFTP (SSH FTP) encryption protocol and public key authentication. In addition to user authentication using passwords and public keys, you can enable advanced security control by specifying the serial ports that the user can access.

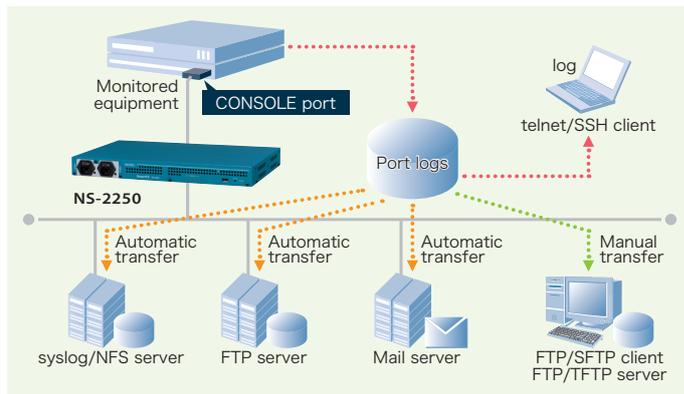
High quality and reliability for your "lifeline network"

SmartCS is designed to meet the high-quality requirements of carriers and service providers, and has been selected by various customers, including large telecom operators, internet service providers, data center operators, and many other users who requires a "stable lifeline".

Collect the logs and transfer them by various means

SmartCS saves and manages messages that monitored equipment has output as port logs. You can view the saved the port logs when accessing monitored equipment from a telnet/SSH client using SmartCS. You can also use the following methods to export the port logs to external devices.

- Automatically send port logs to a syslog server
- Automatically send port logs to a NFS server
- Automatically send port logs to a FTP server
- Automatically send port logs as an e-mail to a mail server
- Manually download port logs using FTP/SFTP client
- Manually send port logs to an external FTP/TFTP server



Supporting APIs for network automation

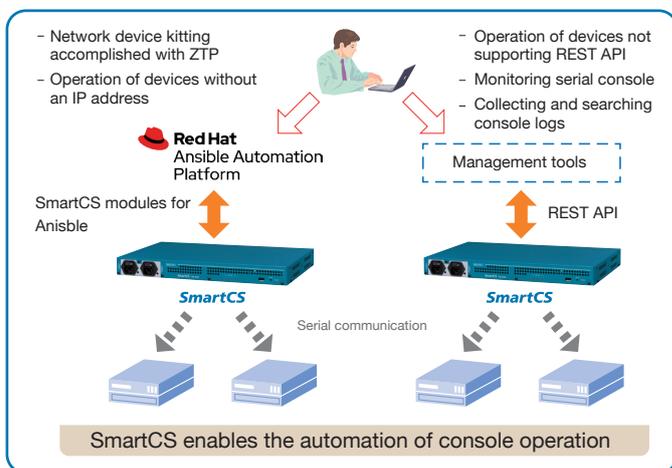
SmartCS enables automation for devices that do not have an IP address or do not support APIs through the conversion function between API and serial communication.

-Ansible

Ansible modules for SmartCS can be used to automate the kitting and console operation of large numbers of network devices. Ansible modules provided by other vendors can also be used via SmartCS.

-REST API

Supporting REST API enables to collect and search console logs of devices, change settings, and acquire information on serial communication. Collaborating with management tools, monitoring and operation of serial communication can be also realized.



Specifications

Network interface	RJ45 10BASE-T / 100BASE-TX / 1000BASE-T x 2 Bonding function (Active - Standby) IPv4 / IPv6
Console port	RJ-45 RS-232 x 1
Serial port	RJ-45 RS-232 x 16 (NS-2250-16) RJ-45 RS-232 x 32 (NS-2250-32) RJ-45 RS-232 x 48 (NS-2250-48)
External card slot	USB memory x 1
Rated voltage	AC 100V-240V±10% (50/60Hz) / DC -40.5V - -57.0V
Operation temperature	5°C - 45°C
Operation Humidity	15% - 85% RH (no condensation)
Dimensions	426(W) x 262(D) x 44(H) mm (Projection not included)
Weight	3.4kg

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Features

Port Access	telnet, SSH, IPsec (Tunnel mode) Direct connection, Menuing connection Simultaneously access by multiple users per port Monitoring (Readonly), Operating (Read/Write)
Authentication	local user, TACACS+, RADIUS
Storing port logs to	local, NFS
Sending port logs to	syslog, e-mail (SMTP), FTP, TFTP
Serial ports specifications	
Transfer speed (bps)	2400, 4800, 9600, 19200, 38400, 57600, 115200
Parity	even, odd, none
Stop bit	1 bit, 2bit
Data length (bit)	7bit, 8bit
Flow control	xon, rs, none



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