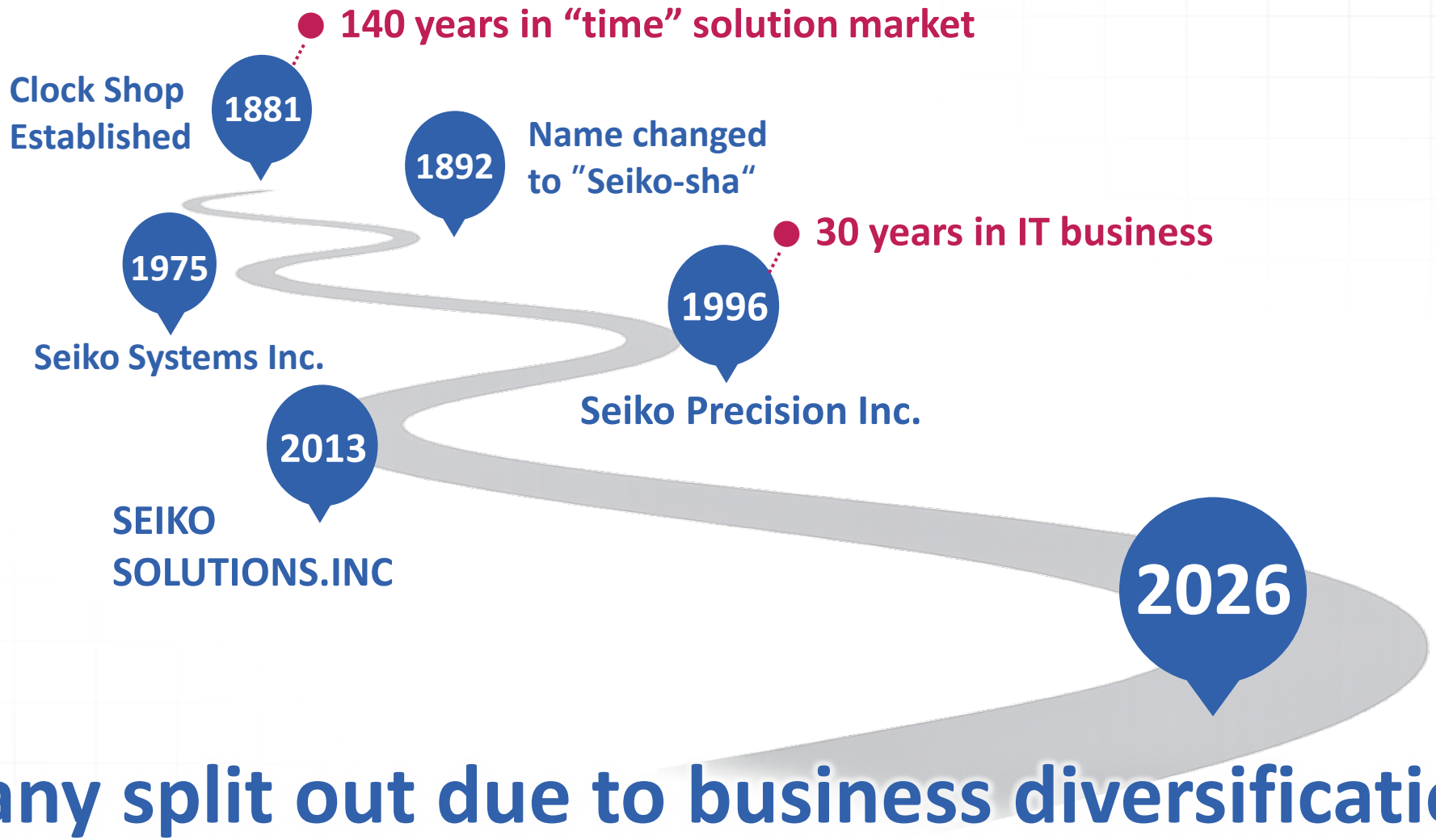
Precision Time & Secure Operations

Product Overview | MWC Barcelona 2026 Edition

SEIKO GROUP

More than 140 years of history providing precise time solution with cutting edge products such as clock, watch and electronic devices since the establishment of clock shop by K. Hattori in 1881



Company split out due to business diversification

SEIKO GROUP

SEIKO

We provide safety and satisfaction based on "reliable quality."

SEIKO SOLUTIONS INC.

Company	SEIKO SOLUTIONS INC.
Established	December 13, 2012
Business Starting Date	April 1, 2013
Location	1-8 Nakase, Mihama-ku, Chiba City
Capital	500 million yen
Stockholder	100% by Seiko Holdings Corporation
Employee	Approx. 700
CEO	President Mr. Jun Sekine

Business Lines

Network Solution | System Integration | Payment Solution | Mobile Solution

PRODUCT LINES

Time Synchronization Products

PTP Grand Master Clock

Time Server Pro.

NTP Time Server

Time Server

NTP Clock

Operation Management Products

Console Server

SmartCS

Jump Server

SEIKO

Time Server Pro.

History and experiences

SEIKO

SEIKO's Approach to the PTP Telecom Market With "Time Server Pro"

Since the release of TS-2910 series as a GM for the mobile telecom industry in 2015
SEIKO has been improving products and conducting connectivity validation.

2015	July	: Released the TS-2910 series for the mobile telecom market
2018	July	: Introduced the TS-2950-01 OCXO model
2019	April	: Participated in EANTC PTP Multi-Vendor Interoperability Testing
	September	: Made the TS-2910 series 5G-ready (G.8272 PRTC B) and entered the local 5G market
2020	April	: Released the outdoor-installable TS-2914 (DC power model)
	November	: Made the TS-2910 series IEEE802.1AS compatible for the industrial Ethernet market
2021	October	: Enhanced the TS-2910 series with PTP support profiles (Default compatible)
	April	: Launched the outdoor-installable TS-2924 (10G compatible/DC power model)
2022	June	: Released the TS-2922 (10G compatible/DC power model)
2023	September	: Participated in the IEEE Plugfest (ISPCS 2023) for interoperability testing
2024	October	: ISPCS 2024 in Japan SEIKO supported Organizing Plug-Fest and event itself.

PRODUCT LINES

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Time Server Pro. TS-2910/2920 Series

	Indoor model	Outdoor model
1G	 I/F : CU or SFP Power : AC or DC **TS-2910/2912**	 I/F : SFP Power : AC or DC **TS-2914**
10G	 I/F : SFP+ Power : AC or DC **TS-2922**	 I/F : SFP+ Power : AC or DC **TS-2924**

SEIKO's GM for telecom is focusing on the mobile market

Latest model

Synchronization Accuracy

- Accuracy : Less than **UTC±40ns**
- Supports the following profiles
  - Default Profile（IEEE1588v2）
  - Telecom Profile（G.8265.1、G.8275.1、G.8275.2）
  - IEEE802.1AS-2011 (gPTP)
- Compliance with **PRTC-B**

  We adopted a GNSS receiver that supports various GNSS (GPS, QZSS, Galileo, and GLONASS) to meet PRTC-B

Model	Holdover Stability with OCXO
2910-10/20 2912-10/20	1.5µsec/2h 50µsec/24h
2910-12 2912-12 2922-12	400ns/5h 1.5µsec/24h

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SmartCS

Console server

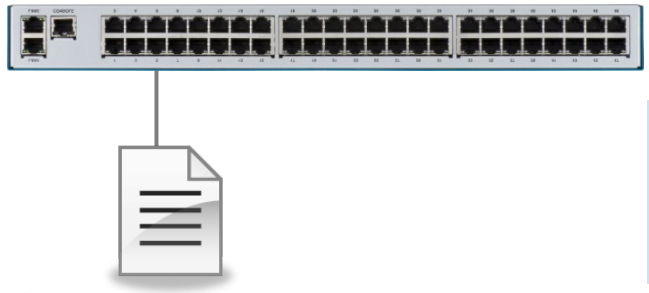
Serial console server SmartCS

SmartCS

- Aggregates console ports of the devices and enables operators to access them remotely
- Allows access to console ports from a telnet/SSH client on the network.
- Serial ports: 16/32/48 port model

Operator

SmartCS



Console logs

Store and transfer console logs

Serial connection

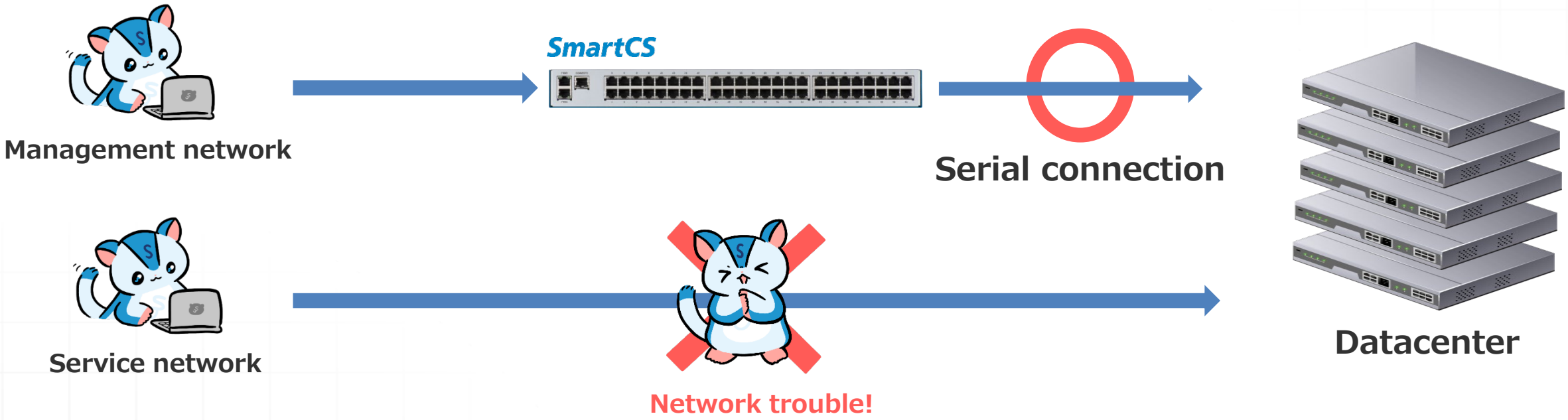
Encrypted Communication to
Prevent Unauthorized Access

Target devices

Serial console server SmartCS

SmartCS

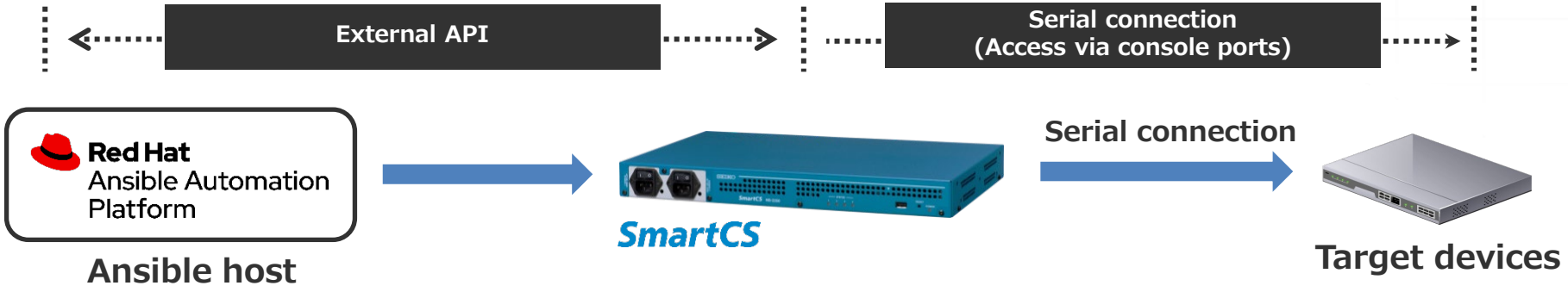
- Offers a unified, maintainable environment.
- Console access remains available via redundant management network in case of trouble.



Serial console server SmartCS

SmartCS × RedHat Ansible Automation Platform

Operators can access to devices via console ports using **Ansible**



- Any device not supporting external API can apply Ansible by using SmartCS
- Any device without IP can be accessed via Ansible

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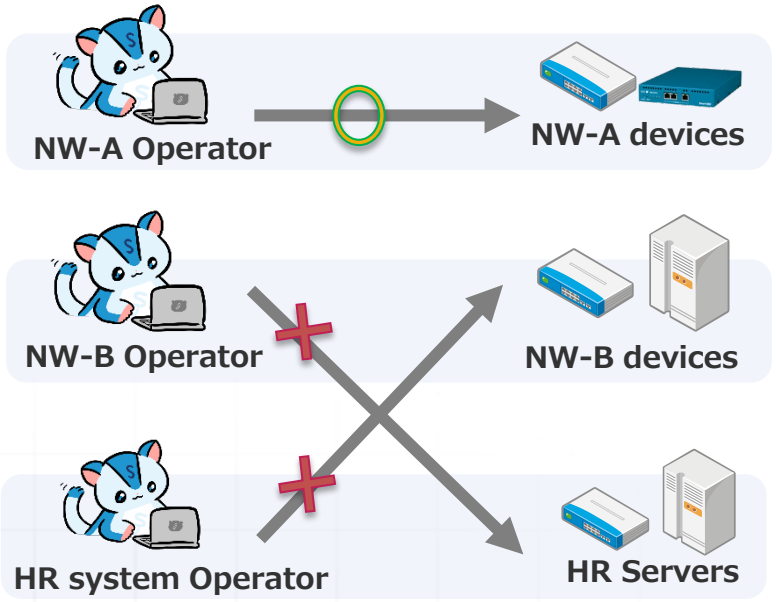
SmartJumper

Access Management Software - Smart Jumper

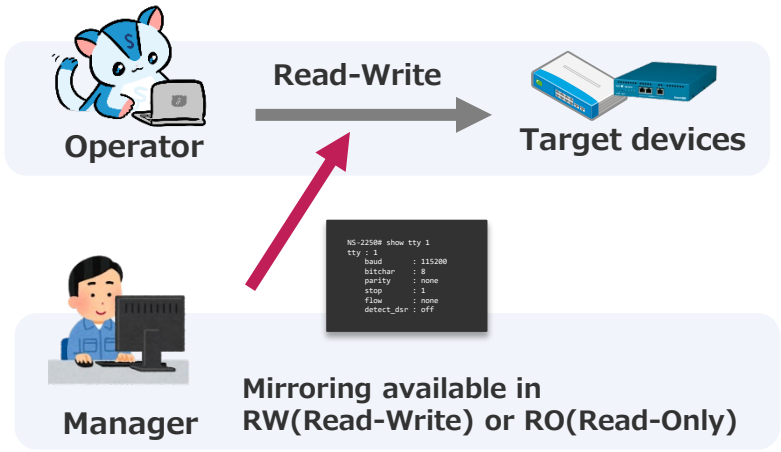
SEIKO

Enhances security of equipment operation

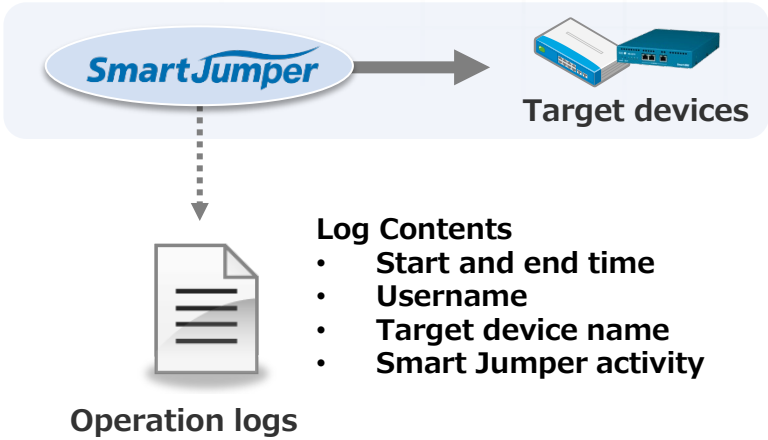
Access control
Prevent access mistakes



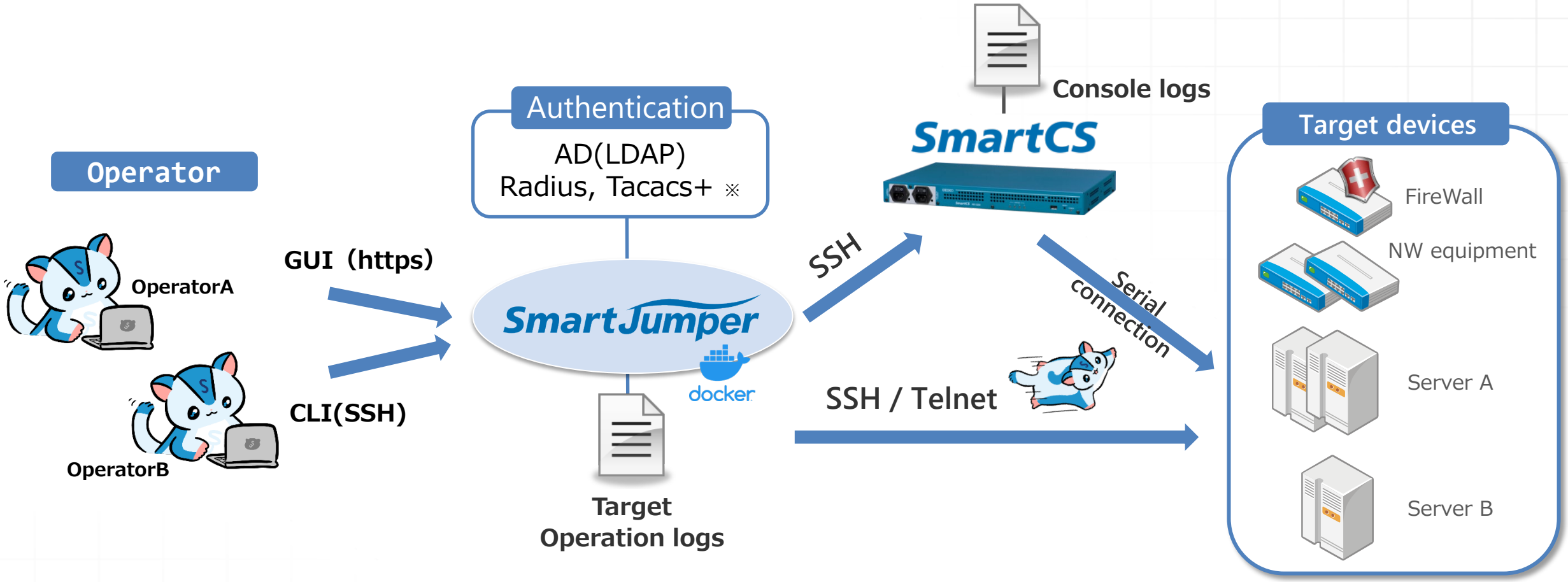
Operation Monitoring
Prevent operational mistakes



Audit Log Recording
Enhances audit trails



Access Management Software - Smart Jumper



- Centralized user and device management via a simple browser-based GUI.
- No dedicated client software required.

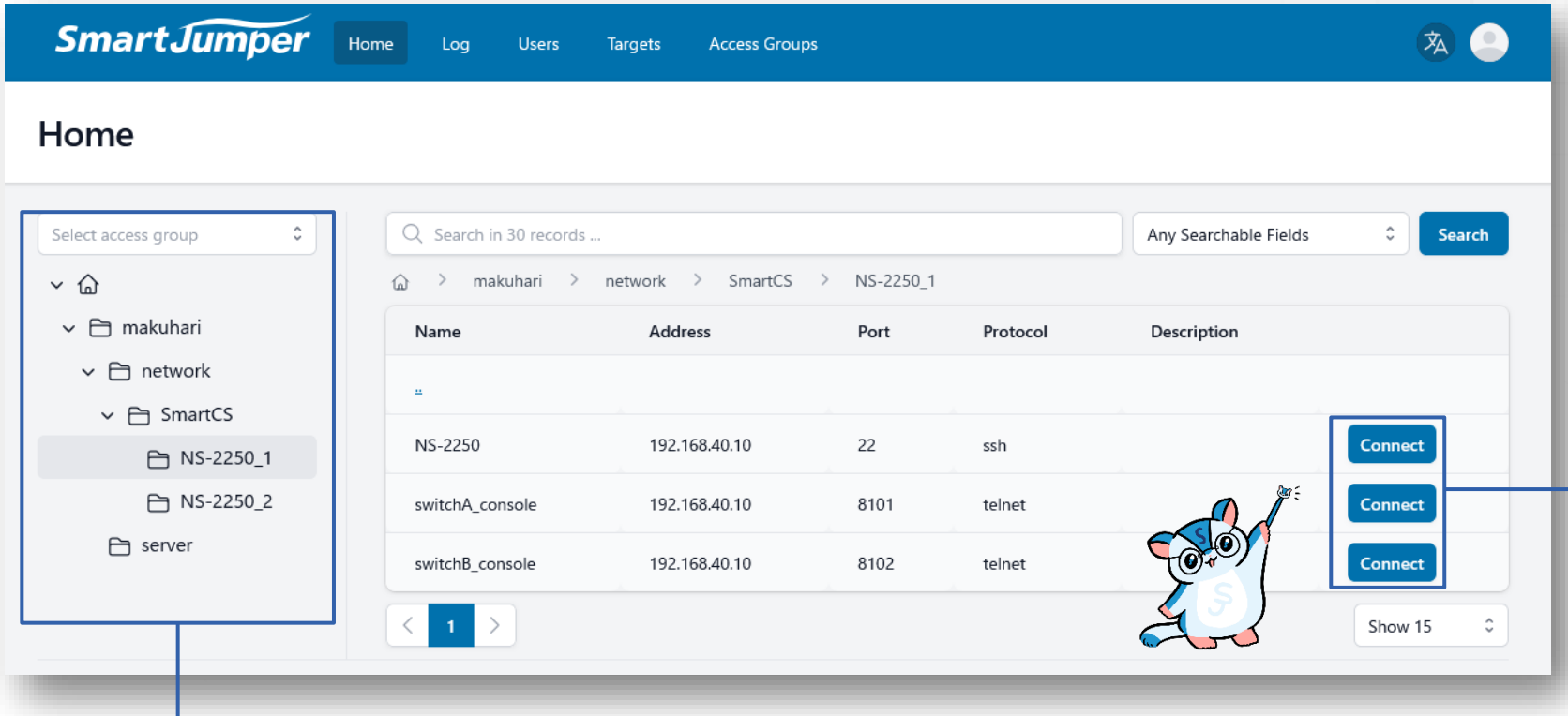
※ RADIUS/ Tacacs+ support is planned for next year.

Access Management Software - Smart Jumper

1 Log in using each operator's account

Select the authentication method and enter Account ID/Password

Access Management Software - Smart Jumper

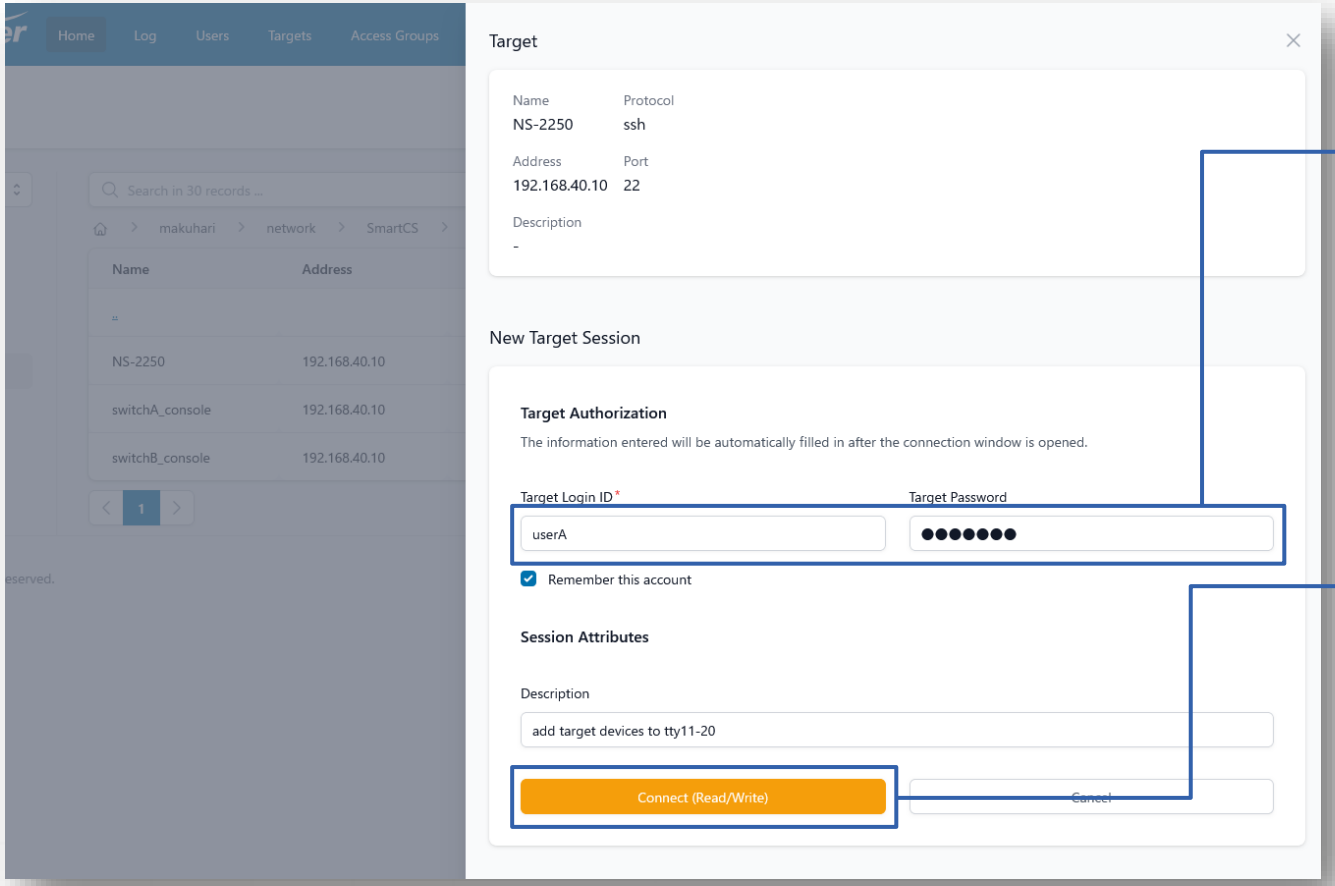


3 Connect

2 Hierarchical menu

Select a target device from the hierarchical management menu.

Access Management Software - Smart Jumper

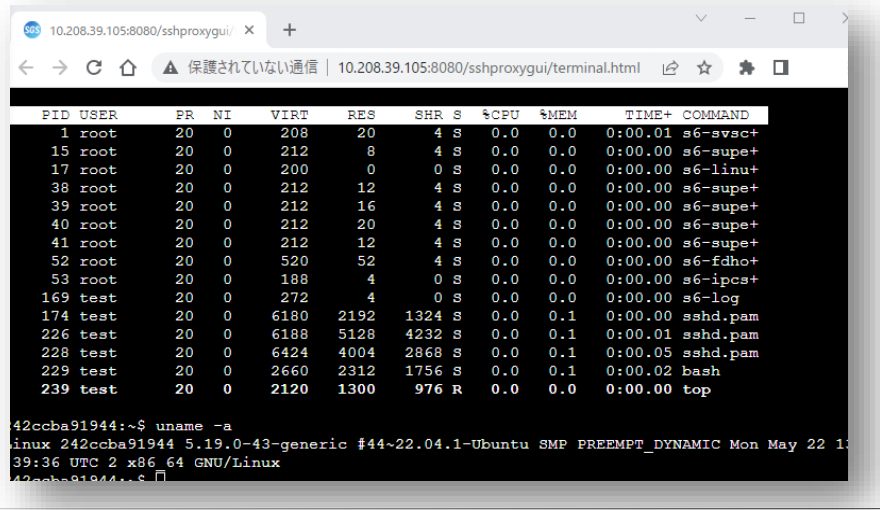


4 Enter target ID / Password

- Select connection type

5 Connect

- Launch terminal in browser
- Operate the target directly

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