Network Automation with *SmartCS*

Easing into Automation with Ansible
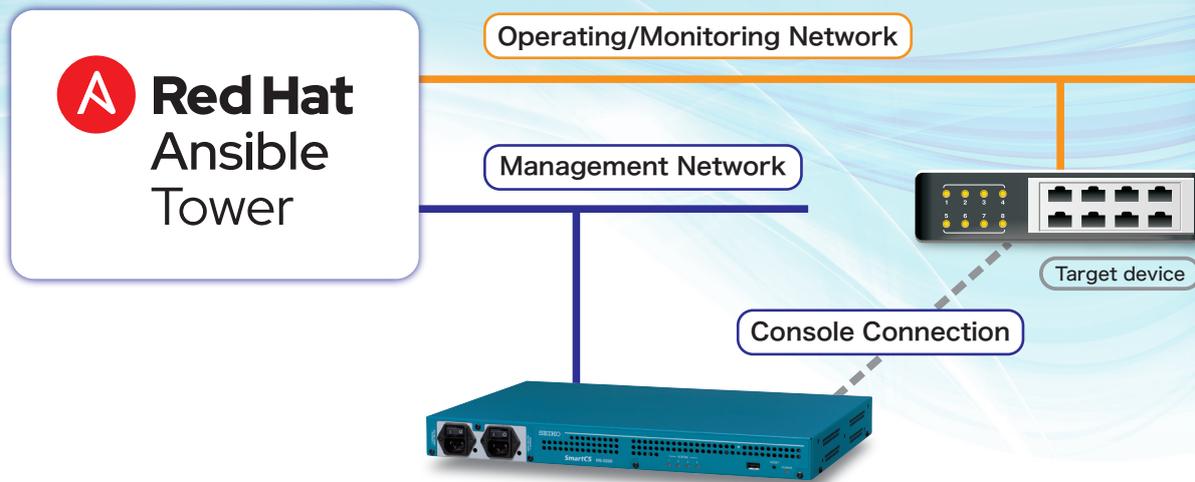

Operator	Control Node	Target Node

Playbook Inventory

SmartCS

Red Hat Ansible Tower

SmartCS modules for Ansible

Console connection
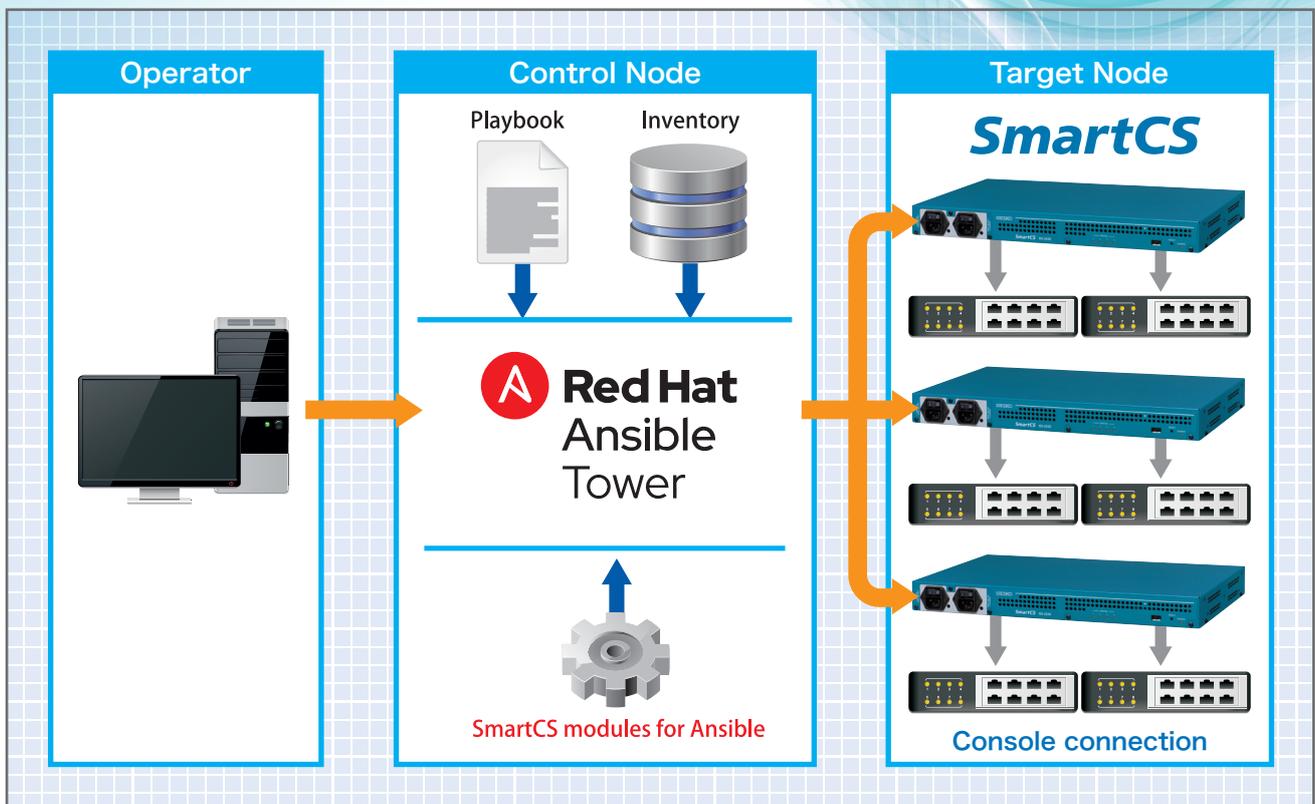
What you can do with SmartCS and Ansible

- Network automation of IT devices with/without IP address

- Network automation of IT devices with/without Ansible module

- Console access to IT devices via Ansible
  Securing backup connection for network failure
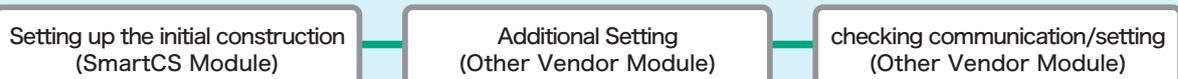
SmartCS x Ansible Case Example

Configuration

Operating/Monitoring Network

Red Hat
Ansible
Tower

Management Network

Target device

Console Connection

SmartCS NS-2250

Case 1 — Initial Construction (Installation/Replacement)

Enables initial configuration including IP settings via console ports when installing or replacing network equipment. Connfirming communication after IP setting realizes the automation of equipment setting after its installation and replacement.
Remote control of target equipment eliminates the need for on-site engineers.

Workflow example   On Success ━━━   On Fail ━━━

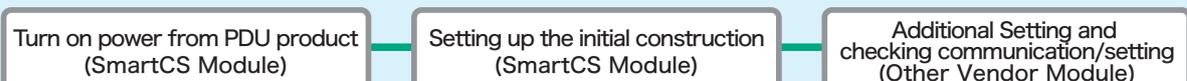| Setting up the initial construction (SmartCS Module) | Additional Setting (Other Vendor Module) | checking communication/setting (Other Vendor Module) |

Case 2 — Easy Zero Touch Provisioning

SmartCS and Ansible support to build a ZTP environment without DHCP and TFPT servers.
It can also be used in conjunction with PDU products to automate power control.

Workflow example   On Success ━━━   On Fail ━━━

| Turn on power from PDU product (SmartCS Module) | Setting up the initial construction (SmartCS Module) | Additional Setting and checking communication/setting (Other Vendor Module) |

Case 3 — Monitoring

By regularly checking the status of target devices through the operation and monitoring network, the operation for detecting failures and obtaining information can be automated.

Workflow example   On Success ━━━   On Fail ━━━

| Interface/Function/Service Monitoring (Other Vendor Module) | Obtaining information during failure event (SmartCS Module) |

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