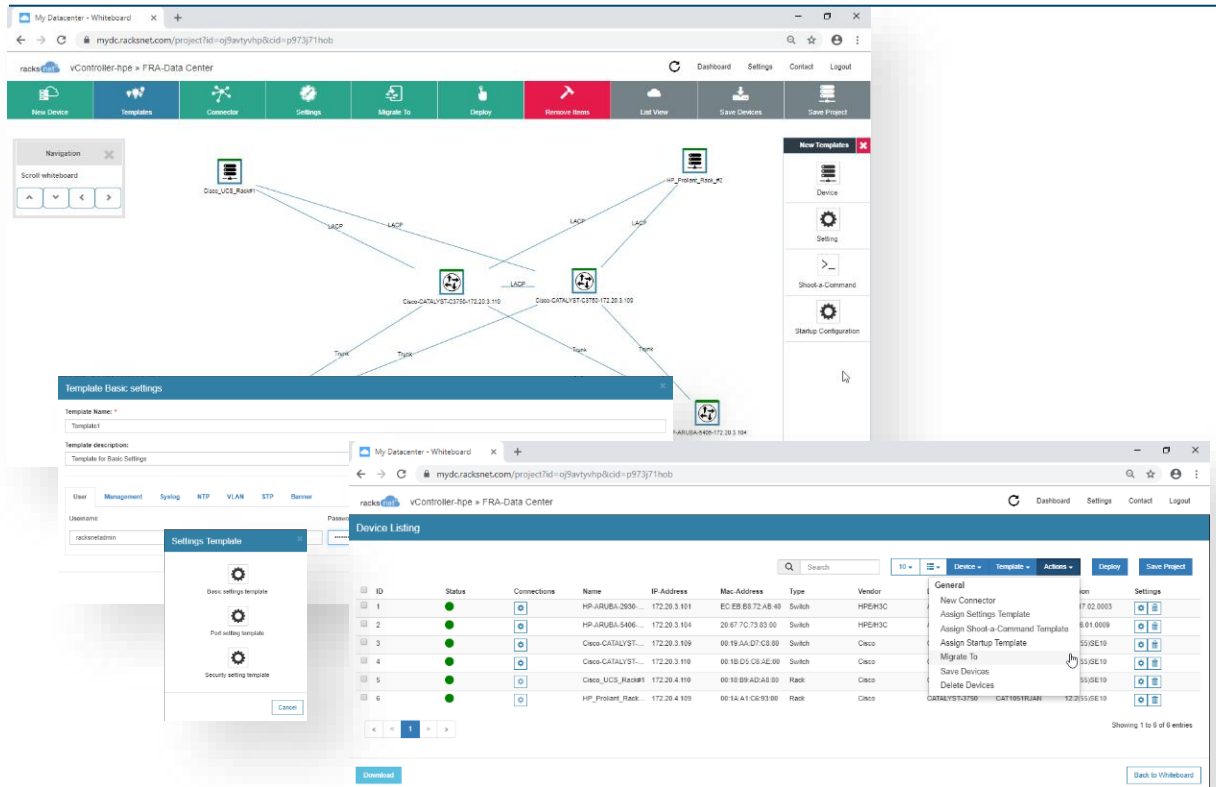


racksnet® Multi-Vendor Automation Software
Product Info | Datasheet



Overview

Intuitive, cloudbased software for automating business-critical network tasks. Cross-vendor SDN management (CISCO®, HPE®, DELL EMC®, HUAWEI®, CUMULUS Open Networking) of networks (campus). Scalable administration and intelligent documentation of enterprise networks of any size. Standardized interfaces (NETCONF, REST, SNMP, OPENFLOW, PYTHON etc.).

Functional Highlights

- Open Networking-Technology
- Multi Vendor Network Automation
- Inventory Scanning
- Port Setting Wizard
- Vendor Migration
- Network Cloning
- Cloud, On-Premise or Hybrid-Service
- Graphical User Interface (GUI)

Cloud managed network automation

The vendor and device-independent automation software from racksnet® is designed for the management of enterprise networks via the cloud. Consequently, the racksnet® solution includes numerous configuration and management tools as well as a virtual controller, which ensures real-time communication between the enterprise network and the racksnet® cloud. Alternatively, an on-premise solution is also available.

Both SDN versions, Cloud and On-Premise, are easy and fast to implement in existing network environments. They do not pose any additional, complex requirements to experienced IT network professionals.

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The graphical drag & drop user interface of the software is intuitive to use. In addition, the application contains numerous templates which help to further simplify the automation of common network tasks.

Cloud Management Architecture

The racksnet® architecture offers many design options and functions for network automation via cloud, without complex, time-consuming and costly on-site management. The racksnet® solution easily manages several thousand network devices per site, around the world in real time.

The system architecture ensures maximum speed, flexibility and scalability in deploying enterprise-wide IT standards. Instead of the traditional and usually error-prone command line input, racksnet® offers a feature-rich, intuitive graphical interface for network automation that provides more transparency and overview.

Functionality

Network Component / Layer	Network Hardware	Network Protocols Automation
 Controller	racksnet® SDN Controller	REST API, Python, NETCONF, SSH
 Core Solution Core Layer: 40/100G	Server requirements: VMWare ESXi 6.x / HyperV 8.x 64 Bit 1 x NIC (1xG Cloud, 1xG LAN) Quad Core (Intel 1,6GHz)	Trunk, LACP, MLAG, Routing, Security
 Aggregat. Solution Aggr. Layer: 10/40G	8G RAM 128G Diskspace	HA: HSRP/VRRP, MLAG, TRUNK, LACP ACLs (user policy aggregation), Security
 Access Switch		Access, VOIP, NAC / 802.1x
 AP		

The connected network devices communicate with the racksnet® SDN controller, which passes the data over a secure SSL connection to the Network Automation Application in the racksnet® cloud. The minimal exchange of status information ensures real-time monitoring, configuration and deployment. The software for automation lies in the secure racksnet® cloud, which supports the common devices and series of well-known manufacturers such as Cisco®, HPE®, DELL EMC® and Huawei®.

Produkt Info | Supported vendors & network devices

Vendors	Series/Model Series (Switches, Router)
Cisco®	Nexus 2000 (1 GE Fabric Extender; 10GBASE-T Fabric Extender; 10G SFP+ Fabric Extender) Nexus 3000 (3000-Serie; 3100-Serie; 3100-V-Serie; 3100-Z-Serie; 3200-Serie; 3400-Serie; 3500-Serie; 3600-Serie) Nexus 5000 (5000-Serie; 5500-Serie; 5600-Serie) Nexus 7000 (7000-Serie; 7700-Serie) Catalyst 2960-L-Serie Catalyst 3560 Serie; 3750-Serie; 3850-Serie; 4500-Serie; 6500 Serie; 6800-Serie C800 (800-Serie; 810-Serie; 860-Serie; 880-Serie; 890-Serie) C4000 (4200-Serie; 4300-Serie; 4500-Serie; 4600-Serie) ASR 1000 Serie ISR 1800-Serie; 1900-Serie ISR 2800-Serie; 2900-Serie; 3800-Serie; 3900-Serie
HPE®/H3C®	Comware/HPE® Flex Fabric 5700-Serie; 5900-Serie; 7900-Serie Comware/ HPE® Flex Network 10500-Serie Comware/HPE® Flex Fabric 12500-Serie; 12900-Serie MSR 900-Serie MSR 1000-Serie; MSR 2000-Serie; MSR 3000-Serie; MSR 4000-Serie; HSR 6800-Serie
HPE®/Aruba®	2530-Serie 2930 F-Serie; 2930 M-Serie 3800-Serie 5400-Serie 8400-Serie
Dell EMC®	S3048-Serie, S3100-Serie, S4048-Serie, S4100-Serie, S4200-Serie, S5048F-Serie, S5148F-Serie, S5200-Serie, S6010-Serie, S6100-Serie N1100-Serie, N1500 Serie, N2000-Serie, N3000-Serie, N4000-Serie
Huawei®	AR 100-Serie; AR 200-Serie S 2000-Serie; S 3300-Serie; S 5300-Serie; S 6300-Serie; S 9300-Serie
Open Source (Linux®)	Cumulus Operating System

Weitere Hersteller in Vorbereitung

Software Features

VLAN / 802.1q	VLAN ACL	HSRP / VRRP
LACP	Syslog	NTP
SNMP v1/v2c/ v3	SNMP ACL	OSPF
Banner	IP Routing	ACL SSH
ACL Basic	ACL Advanced	Spanning-Tree (Rapid, PVRSTP, etc.)
TACACS	RADIUS	NAC / 802.1x
DHCP	ZTP (Zero Touch Provisioning)	u.v.m.

Specifications/Requirements

racksnet® Software-Instance	Sytem requirements	Function / Role
vController	VMWare ESXi 6.x / HyperV 8.x 64 Bit 1 x NIC (1xG Cloud, 1xG LAN); Quad Core (Intel 1,6GHz); 8G RAM; 128G Diskspace	Secure connection from enterprise network to racksnet® cloud
Dashboard/Whiteboard App	Supported Internet Browser: Google Chrome	Network configuration and management

racksnet® is providing an unique software as a service for automating IT networks.

The revolutionary multi-vendor software works according to the principles of vision of open networking, which means that the software manages all major vendors and device types.g. Cisco, DELL EMC, Hewlett Packard Enterprises, Cumulus and Huawei.

“ Digital Transormation does not differentiate between small company and large enterprise, between major network or small network. A functioning network is the backbone of every organization.

That is, what we are providing to our cus-tomer. By automating ever-recurring tasks, we relieve employees and give them the opportunity to take care of the really big challenges.

Nauman Bastit | racksnet GmbH

About racksnet®:

racksnet GmbH was founded in 2017 by two former Cisco and HPE IT engineers and is now hosted in Eschborn and Fulda / Germany:



<https://www.linkedin.com/company/racksnet-gmbh>

https://www.instagram.com/racksnet_team

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