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Let's go



RADKit

an SDK to control every device, everywhere, all at once

Frédéric Detienne Carlos Moreno

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BRKOPS-3065

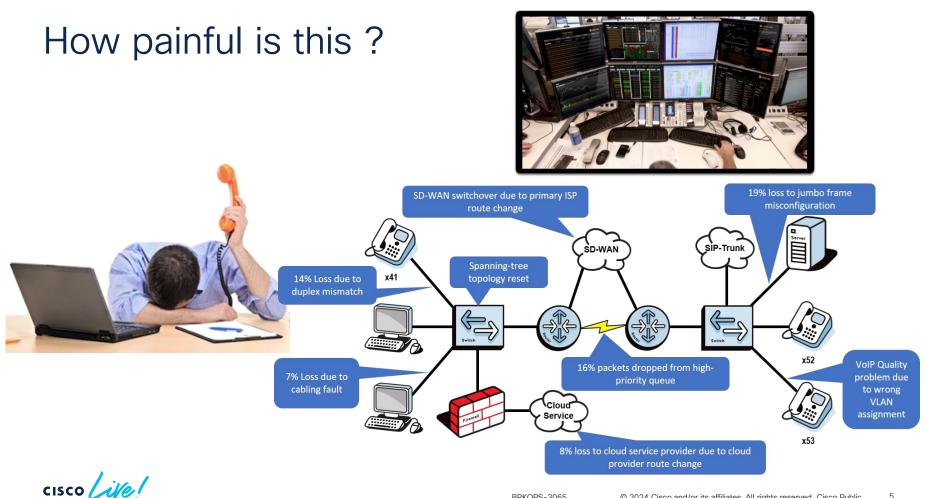
Agenda

- Introduction Why RADKit ?
- RADKit Overview
- RADKit in Action (demo)
- Deploying RADKit (demo)
- Importing Inventory (demo)
- Conclusion

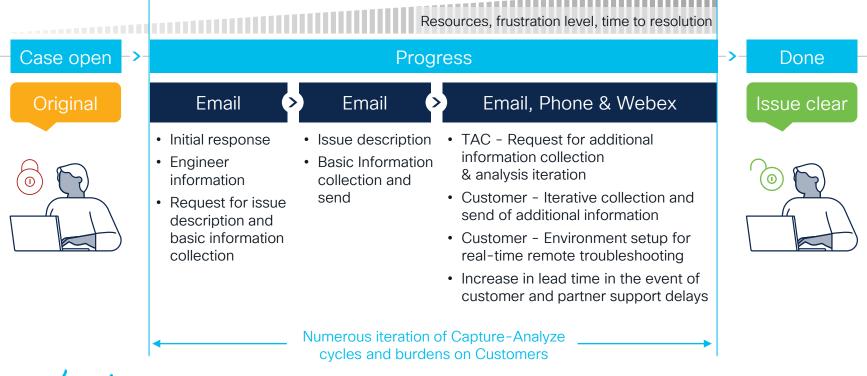


Introduction



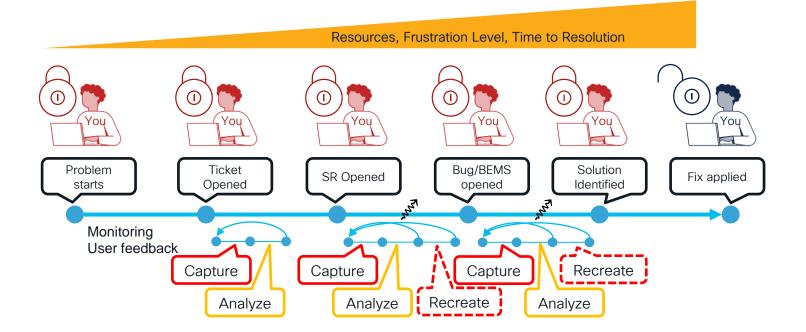


Current troubleshooting method





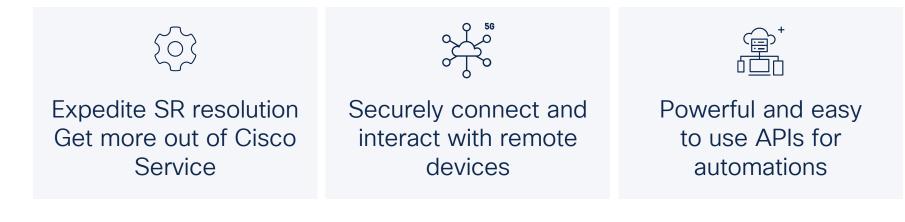
The Churn in Issue Lifecyle



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Remote Automation Development Kit (RADKit)

A set of ready-to-use tools and Python modules allowing efficient and scalable interactions with local or remote networks to eliminate 50% of total time spent in problem solving Lifecyle





RADKit Solution : What is in it for You ?



Secure Connectivity + Audit Trail allows TAC to react promptly under full customer supervision.



Role Based Access Control restricts TAC to specific devices. Secure & Trusted but verifiable means to authorize TAC to collect device data, and with this solving various challenges faced during remote triage via Webex like:

- Long Webex Hours, Customer tied to sharing screens
- Customer having to extract/file transfer
- Keyboard mapping issues/delays
- Scheduling/Time Zone wait times reduced
- With automation capabilities, address devices at scale and hence the possibilities for host of use cases

20% - 80%* Reduction in TFR

50 – 80%* Customer Effort Reduction



No effort to capture or upload data to SR. Everything is handled by RADKit



Halve Webex time with TAC.

Enhanced Cisco Service capabilities ✓ Solve/Simplify challenges around data extraction/ collection and device updates

 ✓ Improved service restoration time, training time Customer Effort Reduction [Freed from long Webex and data collection & File transfers]



*Note:

· deriving uniform ROI/Depends on extent RADKit capabilities utilized

• No known standard measure of "effort". Effort comprises attendance.



The use of RADKit is projected to free up 100-120 business days where we can re-focus on critical work.

Jorge Carreno Sr. Product Owner Telstra, Australian Service Provider

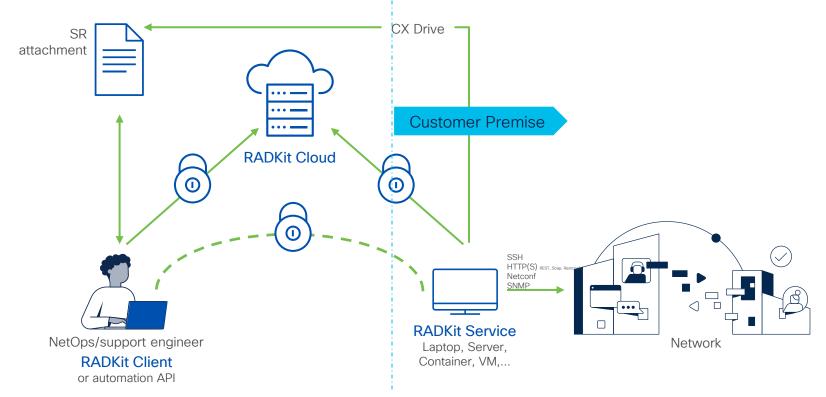


RADKit Overview

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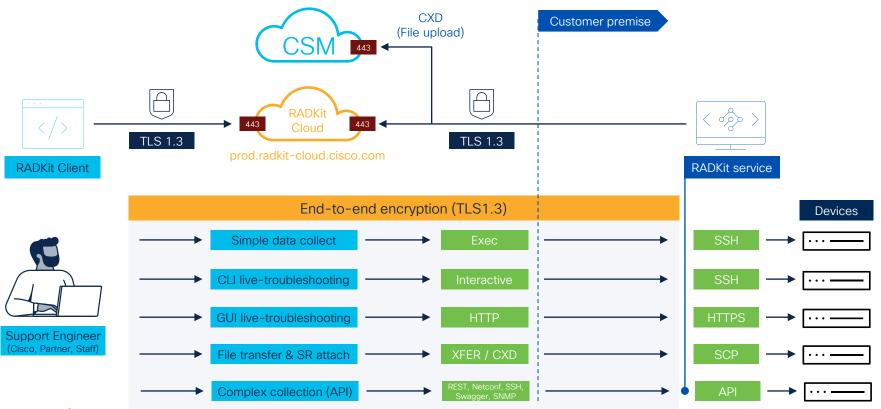
CSDL Ready to Ship Easy to deploy Easy to learn

RADKit General Architecture



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RADKit capabilities



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Security & Data Privacy

More at radkit.cisco.com - FAQ section

- RADKit is CSDL compliant
 - · Meets all stringent security, and data privacy criterias
 - · Coding best practices, software inspection (static and runtime), signed software
- · All data is encrypted at rest and in-transit
 - Strong algorithms and parameters (TLS1.3, RSA-4096, ECDH, ...)
- RADKit does not store any user data in the cloud
 - Only accelerates data capture and transfer between historical parties (troubleshooter and case attachment)
 - · The data is opaque to the cloud service thanks to end-to-end encryption
- · All data remains the customer property
 - · Particularly the inventory and the credentials
- · Only customer-authorized users can connect
 - · Set duration, local policies. Cannot be overridden by Cisco
- Extensive audit trail
 - Customer property; cannot be altered by Cisco

RADKit in Action Demo

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Demo List

Controllers	Network Devices
DNAC	IOS XE (IOS and derivatives)
ACI APIC	NX OS
Wireless Lan Controller	IOS XR
VManage	Linux
Identity Service Engine	Access Point
Firewall Management Console	cEdge

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RADKit Service installation on Windows





Download the installer

- <u>https://radkit.cisco.com</u> > Downloads
- Select the latest release and download the win64 installer



INDE	X OF DOW	NLOADS	/RELEASE	/
<u>/</u>				
<u>1.5.11/</u>				
<u>1.5.12/</u>				
<u>1.6.0/</u>				
<u>1.6.1/</u>				
<u>1.6.2/</u>				
<u>1.6.3/</u>				

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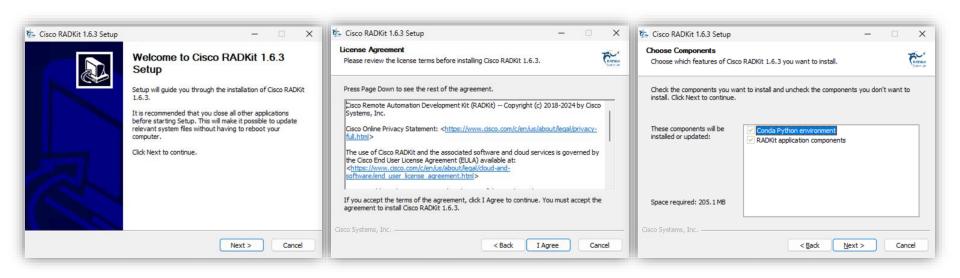
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.../. doc

docs/		
ansible-cisco-radkit-0.6.1.tar.gz	24-Jan-2024 09:31	3107061
ansible-cisco-radkit-0.6.1.tar.gz.sig	24-Jan-2024 09:31	3288
<u>cisco_radkit_1.6.3_doc_html.tgz</u>	24-Jan-2024 09:31	10461870
<u>cisco_radkit_1.6.3_doc_html.tgz.sig</u>	24-Jan-2024 09:31	3288
<u>cisco_radkit_1.6.3_linux_x86_64.sh</u>	24-Jan-2024 09:31	141605486
<u>cisco_radkit_1.6.3_linux_x86_64.sh.sig</u>	24-Jan-2024 09:31	3288
<u>cisco_radkit_1.6.3_macos_arm64_signed.pkg</u>	25-Jan-2024 20:26	83558219
<u>cisco_radkit_1.6.3_macos_x86_64_signed.pkg</u>	25-Jan-2024 20:26	86285412
<u>cisco_radkit_1.6.3_pip_linux_arm.tgz</u>	24-Jan-2024 09:31	212815781
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<u>cisco_radkit_1.6.3_pip_win.tgz</u>	24-Jan-2024 09:31	68943074
cisco_radkit_1.6.3_pip_win.tgz.sig	24-Jan-2024 09:31	3288
cisco_radkit_1.6.3_win64_signed.exe	24-Jan-2024 09:31	123799640
radkit_verify.py	24-Jan-2024 09:31	3056

Run the installer

Installation takes ~2 minutes



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Run the installer

• Installation path: C:\Users\user\AppData\Local\Programs\Cisco Radkit\

🇞 Cisco RADKit 1.6.3 Setup —	🗙 🚺 Cisc	co RADKit 1.6.3 Setup	- 🗆 X	🗱 Cisco RADKit 1.6.3 Setup	- 0 ×
Choose Install Location Choose the folder in which to install Cisco RADKit 1.6.3.	Pleas	Iling se wait while Cisco RADKit 1.6.3 is being installed.	FRANKE THE PARTY OF		Completing Cisco RADKit 1.6.3 Setup
Setup will install Cisco RADKit 1.6.3 in the following folder. To install in a different fold Browse and select another folder. Click Install to start the installation.		ding the Python environment (be patient, this will take a w			Cisco RADKit 1.6.3 has been installed on your computer. Click Finish to dose Setup.
Destination Folder	Out Ext Out	utput folder: C:\Users\user2\AppData\Loca\Programs\Cis utput folder: C:\Users\user2\AppData\Loca\Programs\Cis (tract: repodata_record.json 100%) utput folder: C:\Users\user2\AppData\Loca\Programs\Cis tuput folder: C:\Users\user2\AppData\Loca\Programs\Cis	co RADKit\pkgs\wheel-0		
C: \Users\user2\AppData\Local\Programs\Cisco RADKit Browse	Out Out	:tract: repodata_record.json 100% utput folder: C: \Users\user2\AppData\Local\Programs\Cis utput folder: C: \Users\user2\AppData\Local\Programs\Cis	co RADKit\pkgs	Zh.	
Space required: 205.1 MB Space available: 53.2 GB	Buil	tract: _conda.exe 100% ilding the Python environment (be patient, this will take a	while)		
Cisco Systems, Inc	ancel	ystems, Inc < Back	Next > Cancel		< Back Finish Cancel

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RADKit – Installation on Windows Run the RADKit Service

_	Chat All Apps Document	s Web	Settings Folders Photos 🕨 … (
Best	RADKit Service		RADKIT
Арр	s		RADKit Service
2	RADKit Client	>	Арр
	RADKit Medic	>	🖸 Open
Re i	RADKit Network Console	>	Run as administrator
Sear	ch the web		Open file location Pin to Start
Q	radkit - See more search results	>	Pin to taskbar
Q	radkitplusa	>	<u> </u> Uninstall
Q	radkit pro	>	
Q	red kite	>	
Q	radkitultra	>	
Q	radkit plusjr	>	

RADKit Service, 1.6.3		- 0	×
Help			
Service status			
not ye	t bootstrapped		
Domain: PROD Service ID: None	Service port: 8081		
Actions	Logs		
Configure RADKit	Logging level:	INFO	_
	Open logs dir	Shov	v logs
			Exit

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Access the GUI

- The GUI is available at <u>https://localhost:8081</u>
- RADKit uses self-signed certificate
- Accept the warning

8 Not secure	https://localhost:8081
A	
Your co	nnection is not private
Attackers m	ight be trying to steal your information from localhost (for example, passwords, messages, o
	I. <u>Learn more</u>
Herneldi_cen	
Q То	et Chrome's highest level of security, turn on enhanced protection
	
Advance	Back to saf
	ould not prove that it is localhost ; its security certificate is not trusted by your computer's
operating s	stem. This may be caused by a misconfiguration or an attacker intercepting your connection
Proceed to lo	talhost (unsafe)



• Create a superadmin password and log in

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Register super	admin user
No superadmin user was found. Please fill in this form to create a superad	min account
Fielde in in this form to create a superaul	
(i) A superadmin user must be cre	eated. Please enter a strong password for this user. This
password will be requested in t	the future to (re)start or manage RADKit Service.
Username *	PASSWORD REQUIREMENTS:
superadmin	Minimum 8 characters
Password *	Minimum 8 characters Minimum 1 lowercase letter
	 Minimum 1 uppercase letter
Repeat Password *	- Minimum 1 digit
	- Minimum 1 symbol

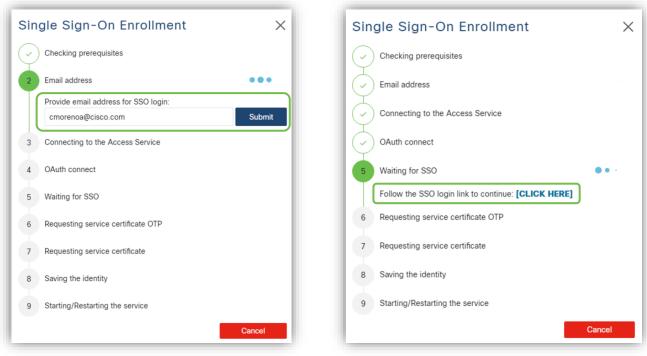
2	alialia cisco	RADKit Service
	Log in	
	Username * superadmin	
	Password *	\$
		Login

RADKit - Installation on Windows Enroll the RADKit Service

Remote Automation Development Kit Cisco RADKit Service	Domain: PROD Service ID: none	l	RBAC DISABLED DISCO	NNECTED 🕱 🔹	
Connectivity		→ +낮 -낮 Device Type _ In c	×∵ Q Search	abels 🚊 Actions	
Devices	🛆 No	devices available			
Showing 0 to 0 of 0 entries.	Selected: 0.		Page size 15 25 50 100	250) « < 1 > »	
Remote Automation Development Kit Cisco RADKit Service	Domain: PROD Service ID: none				
Connectivity DOMAIN: PROD BASE URL: https://prod.radkit-clo	ud.cisco.com		RADKit Serv point	vice is disc	connected at
Users	Latency [ms] er endpoints connected		ll the RADK -On (SSO)	it Service	using Single
	reds to be enrolled to become ct an enrollment method by clicking one	Cigi			
Monitoring	Advanced: SSO Enroll with OTP				
olivel			BRKOPS-3065	© 2024 Cisco and/o	r its affiliates. All rights reserved. (

Single Sign-On Enrollment

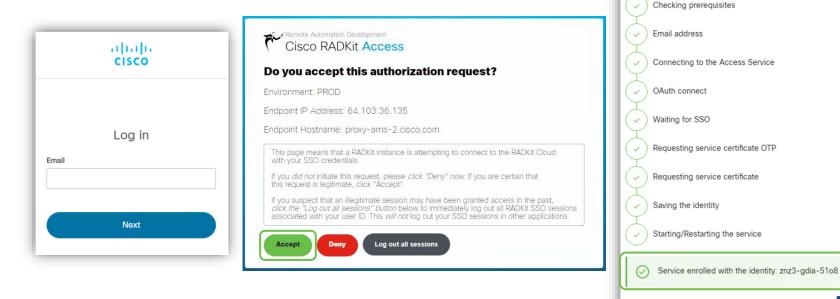
• Enter your *cisco.com* email address and click on the SSO login link





Single Sign-On Enrollment

- Log in and accept the authorization request
- The service is enrolled with a unique Service ID





Single Sign-On Re-Enrollment

X

Close

Single Sign-On Enrollment

- The RADKit Service window shows
 connected and the Service ID is displayed
- The GUI shows the Service Identity Certificate details

RADKit Service, 1.	6.3			_		×
Help						
Service status						
			connected			
Domain: PROD Se	rvice II	D: znz3-	gdia-51o8 📋 Service	e port: 808	1	
Configure RADKi	t		Logging level:	INF	0	_
			Open logs dir		Show lo	gs
					E	xit

oud Connectivi	ty		
MAIN: PROD SE URL: https://prod	I.radkit-cloud.cisco.com		
orwarder Endpoint		Status	Latency [ms]
ss://prod.radkit-clou	d.cisco.com/forwarder-2/	CONNECTED	62
U	alid. service is enrolled. serialNumber=znz3-odia-	5108	
Certificate va	alid. service is enrolled. serialNumber=znz3-gdia-	5108	
Subject Name: Cert Serial:	serialNumber=znz3-gdia- 942c538212195fcfa0d99		
Subject Name: Cert Serial: Cert Owner:	serialNumber=znz3-gdia- 942c538212195fcfa0d99 cmorenoa@cisco.com		
Subject Name: Cert Serial:	serialNumber=znz3-gdia- 942c538212195fcfa0d99		
Subject Name: Cert Serial: Cert Owner:	serialNumber=znz3-gdia- 942c538212195fcfa0d99 cmorenoa@cisco.com	fe925df7c54	
Subject Name: Cert Serial: Cert Owner: Cert Granter:	serialNumber=znz3-gdia- 942c538212195fcfa0d99f cmorenoa@cisco.com cmorenoa@cisco.com	fe925df7c54 M	
Subject Name: Cert Serial: Cert Owner: Cert Granter: Valid from:	serialNumber=znz3-gdia- 942c538212195fcfa0d999 cmorenoa@cisco.com cmorenoa@cisco.com Mon, Jan 29, 2024 2:54 P	fe925df7c54 M	



First steps – Add devices

- Network devices are found in the *Devices* page
- Click on +Add Device to add a new device

Cisco	Automation Development Kit o RADKit Service	Domain: PROD Service ID: znz3-gd	lia-51o8 🗋	É	RBAC DISABLED	CONNECTED ô	
? Connectivity	+ Add Device 🗵 😒	☐ 0 \: Edit Cart ∨	+ • • • • • • • • • • • • • • • • • • •	∵ ् Sea	rch		?
	Active E Device Name E	Hostname or IP Address 🚊	Device Type 🚊	In cart 🚊	Description 🚊	Labels 🚊	Actions
Devices		\Lambda No	devices available				
业	Showing 0 to 0 of 0 entries. Selected: 0.				Page size 15 25 50	100 250	< 1 > >

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First steps - Add devices

- · Fill out the device details
- Mandatory fields:
 - Device Name
 - Management IP / Hostname
 - Device Type
- Add details for Management
 Protocols such as:
 - Terminal
 - Netconf
 - Swagger
 - HTTP
 - SNMP

Add New Device	×
Device Name*(as it will appear in RADKit)?	Device Type*
access-switch-01	IOS XE 🗸
Management IP Address or Hostname*?	Jumphost Name
10.10.10	- Optional jumphost -
Forwarded TCP ports ?	Description
Port ranges (eg. '1-1024;88888')	
Active (remotely manageable)	Available Management Protocols:
Terminal	
Connection method:	Allow connecting using obsolete/insecure SSH algorithms
SSH (Password) SSH (Public key) Telnet	\checkmark Use SSH Tunneling when using this device as a jumphost
Username	Password
admin	······ #
Port	if left blank, will be set to "" as default 4 ³
22	\$\$
	If left blank, will be set to "" as default ${\cal A}$
	Clear form

First steps – Add devices

- · Devices can be edited or deleted
- · Access to devices is defined by the "Active" toggle

+ Add Dev	ice 🛛 🖂	time o \v Edit Cart ∨ +	۲. −۲. ×۲.	ר אַ Sea	rch			
Active	Active 📄 Device Name 🚊 🛛 Hostname or IP Address 🚊		Device Type 🚊	In cart 🚊	Description	Labels 🚊	Actions	
	access-switch-01	10.10.10.10	IOS_XE				∠ 💼	
Showing 1 to 1	of 1 entries. Selected: 0.				Page size 15 25 50	100 250	< 1 >	

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First steps - Add new user

Connectivity	+ Add User 🕑 🛞 💼 Q. Search				?
	Active Remaining Time User Email	Full Name 🚊	Description	Labels	Actions
Devices		A No users av			
Remote Users	Showing 0 to 0 of 0 entries. Selected: 0.			age size 15 25 50 100 2	50) « < 1 > »

- Use the Remote Users page (+Add User)
- · Fill out the new user details
- Access can be provided for a fixed amount of time, or by using the manual toggle

Add New User	
User Email*	
fdetienn@cisco.com	Activate this user
Full Name	USER ACCESS POLICY
Frederic Detienne	Manual
Description	• Time slice (h/m):
Remote access for Frederic	4 00
Q Label search	? RBAC status: DISABLED
Available Labels - 0 of 0 (click to add)	Selected Labels - 0 (click to delete)
	(ⓒ Create new (◯ None added)
NO LABELS AVAILABLE	
	✓ Add & close + Add & continue



First steps - Add new user

• Access for Remote Users can be revoked at any time by using the toggle

+ Add Use	r 🛛 🖉	Q Search				?
Active	Remaining Time 🚊	User Email 🚊	Full Name 🚊	Description	Labels 🚊	Actions
	4h 00m Reset	fdetienn@cisco.com	Frederic Detienne	Remote access for Frederic		∠ 💼
Showing 1 to 1	of 1 entries. Selected: C			Page size 15 25	50 100 250 《	

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Importing devices in bulk from CSV file





Import devices in bulk from CSV file Using RADKit Control

- RADKit Control allows to retrieve, create and modify RADKit service components
- It provides a way to manage RADKit components over the network, as an alternative to the WebUI

```
Command structure:

$ radkit-control [OPTIONS] COMMAND [ARGS]
```

Usage information:

\$ radkit-control --help

<pre>\$ radkit-controlhelp Usage: radkit-control [OPTIONS]</pre>	COMMAND [ARGS]
Control a remote or local RAD	Kit Service
Options:	
version	Display version and exit
service-certificate FILE	Path to a certificate file identifying the Service.
service-fingerprint TEXT	Service certificate fingerprint used to verify TLS connection. The fingerprint should use SHA256 hash.
debug	Enable debugging
trace	Enable trace logging
radkit-directory DIRECTORY	Root of the RADKit directories
settings-file FILE	Path to the custom settings file (can be both absolute and relative to current working directory)
-s,setting TEXT	Override a specific setting
tracebacks	Enables full tracebacks for all exceptions
help	Show this message and exit.
Commands: admin setup RADKit Service device Operate on devices label Operate on labels system RADKit Service system- user Operate on users	-level control



Import devices in bulk from CSV file CSV file structure

- The CSV file requires a special structure
- Templates are available for different information components, such as terminal http, swagger, netconf, snmp and labels

To see the available CSV templates: \$ radkit-control device bulk-create --help

<pre>\$ radkit-control device 1 Usage: radkit-control dev</pre>	bulk-createhelp vice bulk-create [OPTIONS]
Create multiple device	s using JSON or CSV.
Pass exactly one of csv-data	json-input,json-data,csv-input, or
Options:	
json-input FILENAME	JSON file to pass to the API
json-data JSON	JSON text to pass to the API
csv-input FILENAME	CSV file to pass to the API
csv-data TEXT	CSV text to pass to the API
ison-template	Show JSON template
csv-template	Show CSV template. Use `terminal`, `http`,
`swagger`,	
	`netconf`, `snmp` or `labels` to generate
	substructures
output FILENAME displaying it	Save JSON response to a file instead of
compact-json	Output JSON response on one line
help	Show this message and exit.



Import devices in bulk from CSV file

CSV file format - sample structure

Structure template for terminal (CLI) information:

\$ radkit-control device bulk-create --csv-template terminal

\$ radkit-control device bulk-create --csv-template terminal

name(mandatory), host(mandatory), deviceType(mandatory), description, jumphostUuid, sourceKey, sourceDevUuid, metaData, enabled, forwardedTcpPorts, terminal. port, terminal.connectionMethod, terminal.username, terminal.enableSet, terminal.useInsecureAlgorithms, terminal.useTunnelingIfJumphost, terminal.passwor d, terminal.enable, terminal.privateKeyPassword, terminal.privateKey

CSV file example:

name (mandatory),host (mandatory),deviceType (mandatory),description,jumphostUuid,sourceKey,sourceDevUuid,metaData,enabled,forwardedTcpPorts,terminal. port,terminal.connectionMethod,terminal.username,terminal.enableSet,terminal.useInsecureAlgorithms,terminal.useTunnelingIfJumphost,terminal.passwor d,terminal.enable,terminal.privateKeyPassword,terminal.privateKey asr9001,1.2.3.4,IOS XR,test router1,,,,,True,,22,SSH,my-username,True,,,strong-password,True,,

test-router2,1.1.1.2, IOS XE, test router2,,,,,True,,22,SSH,my-username,True,,,strong-password,True,,

name(mandatory)	host(mandatory)	deviceType(mandatory)	description	jumphc	source	sourceD	metal	enabled	forwa	terminal.port	terminal.connection	terminal.userna	termina	term tern	n terminal.password	terminal.	termir	termin
asr9001	1.2.3.4	IOS_XR	test router1					True		22	SSH	my-username	True		strong-password	True		
test-router2	1.1.1.2	IOS_XE	test router2					True		22	SSH	my-username	True		strong-password	True		

Import devices in bulk from CSV file Importing 1000 devices

Command:

\$ radkit-control device bulk-create --csv-input file.csv

- superadmin password is required
- Details of every added device is printed in JSON format
- Success and error counts are displayed

cmorenoa@cmorenoa-ubuntu:~/Downloads\$ radkit-control device bulk-create --csv-input devices.csv peradmin's password:

"name": "cat9300-1000", "host": "10.0.4.250". "deviceType": "IOS_XE", "description": "test switch 1000", "labels": [], "jumphostUuid": null, "sourceKey": null, "sourceDevUuid": null, "metaData": □. "enabled": true. "terminal": { "port": 22. "connectionMethod": "SSH", "username": "my-username", "enableSet": true, "useInsecureAlgorithms": false, "useTunnelingIfJumphost": true "netconf": null. "snmp": null, "swaqaer": null, "http": null, "forwardedTcpPorts": "" "count": 1000. "success_count": 1000 "error_count": 0, 'success": true :morenoa@cmorenoa-ubuntu:~/Downloads\$ 37

"uuid": "b9417c0e-9121-438a-90b6-c8b634fde792"



"success": true, "result": {

Import devices in bulk from CSV file Importing 1000 devices

• WebUI view after the import operation:

	Active =	Device Name 🚊	Hostname or IP Address 🗎	Device Type 🚊	In cart 🗎	Description	Labels =	Acti
	-	cat9300-001	10.0.1.1	IOS_XE		test switch 1		/.cu
s				-				
		cat9300-002	10.0.1.2	IOS_XE		test switch 2		21
e		cat9300-003	10.0.1.3	IOS_XE		test switch 3		21
		cat9300-004	10.0.1.4	IOS_XE		test switch 4		21
		cat9300-005	10.0.1.5	IOS_XE		test switch 5		21
1		cat9300-006	10.0.1.6	IOS_XE		test switch 6		21
vity		cat9300-993 cat9300-994	10.0.4.243 10.0.4.244	IOS_XE		test switch 993 test switch 994		
vity		cat9300-995	10.0.4.245	IOS_XE		test switch 995		21
s		cat9300-996	10.0.4.246	IOS_XE		test switch 996		21
		cat9300-997	10.0.4.247	IOS_XE		test switch 997		21
e		cat9300-998	10.0.4.248	IOS_XE		test switch 998		21
		cat9300-999	10.0.4.249	IOS_XE		test switch 999		21
3		cat9300-1000	10.0.4.250	IOS_XE		test switch 1000		21

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RADKit in Cisco Catalyst Center

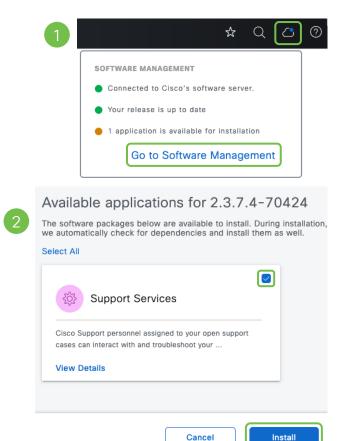
ex-Cisco DNA Center



Step 1 - Install Application Package

- RSA requires the *Support Services* package to be installed from the *Software Management* page
- Installation takes ~5 minutes
- A new *Remote Support Authorization* option is added to the help (?) menu

Requires Cisco DNAC v2.3.5.x





Step 2 - Manage SSH Credentials

 Add the *maglev* password to allow access to Cisco Catalyst Center's CLI for troubleshooting

≡ <u>diadu</u> Cataly	yst Center	Remote Suppo	Support Authorization		Contact Support			
— cisco Odital							Remote Support Authorization	
							Help	
SUMMARY						I		
15	0	15						
Total Authorizations	Current Authorizations	Past Authorizat	tions					
Create New Autho	rization Current A	uthorizations	Past Authorizations	Manage SSH Credentials				
SSH credentials pro	vide Cisco DNA Center ad	ccess to a Cisco s	specialist for troubleshooting					

The credentials should match those configured in the Cisco DNA Center node (associated with the maglev user) during the installation.

You can add as many credentials as Cisco DNA Center nodes, including the disaster recovery witness.

+ Add New SSH Credentials

 \star

About

Cisco DNA Sense

Developer Resources

API Reference

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Step 2 – Manage SSH Credentials

 If nodes in a 3-node cluster use different maglev passwords, then multiple credentials can be added

ld the SSH credentials of	the maglev user configu	ured in the Cisco DNA Center node dur	ing the installation.
iding these credentials do	bes not change the SSH	I credentials in Cisco DNA Center.	
ese SSH credentials will o	only be used to connect	t to the node(s) during a remote suppor	rt session.
Password*		Name/Description*	
Password*	SHOW	Name/Description* CCC4_maglev_password	•
	SHOW		+
	SHOW		-
	SHOW		
	SHOW		+



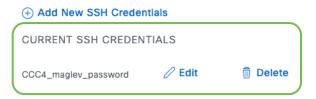
Step 2 – Manage SSH Credentials

 Existing credentials can be edited, and more credentials can be added if needed

Create New Authorization	Current Authorizations	Past Authorizations	Manage SSH Credentials	
SSH credentials provide Cisco D	NA Center access to a Cisco s	pecialist for troubleshooting.		

The credentials should match those configured in the Cisco DNA Center node (associated with the maglev user) during the installation.

You can add as many credentials as Cisco DNA Center nodes, including the disaster recovery witness.





Step 3 - Create a New Authorization

- Grant remote access to a Cisco specialist
- Access can be removed at any time
- Access is granted for 24 hours by default





You can grant remote access to a Cisco specialist to further assist you with triage or troubleshooting. Permission is time bound, you can revoke access with immediate effect. Let's start by creating a support authorization. If you have a case number, please have it ready.

Create a Remote Support Authorization



Step 3 - Create New Authorization

Step 1 of 4: Access Permission Agreement

During the designated date and time, the assigned Cisco specialist will log in to Cisco DNA Center, its managed network or both for troubleshooting.

They will be able to access any device in the managed network to run CLI commands.

New **VTY** connections will be established between Cisco DNA Center and its managed devices. Please take any network impact into consideration during the access.

You can revoke the authorization any time before it expires. Any ongoing support session associated with the authorization will be immediately disconnected.

I agree to provide access to network devices.

A Cisco specialist will use the SSH credentials to access Cisco DNA Center.

Next Step

I agree to provide access to Cisco DNA Center.

2 Step 2 of 4: Set up the Authorization

To start, enter the Cisco specialist email address. If you have the Case number(s) ready, please also enter them below.

Cisco Specialist Email Address*	
cmorenoa@cisco.com	
Existing Case Number(s)	
0123456789	
Enter one or more Case numbers, each separated by a comma Access Justification	
Remote Access for Carlos Moreno (TAC)	
Review Back	Next Step
	3 Step 3 of 4: Schedule the Access
	Take your network schedule into consideration, select a time
	period that is most suitable for the Cisco specialist to access
	Cisco DNA Center and the managed network for troubleshooting.
	Now 🔾 Later
	Durning
	Duration 24 hours
	····
	Review Back Next Step

RSA – Remote Support Authorization Step 3 – Create New Authorization

Step 4 of 4: Summary

Review your selections. To make any changes, click Edit and make the necessary updates. When you are happy with your selections, click Create.

Access Permission Agreement

Agreed to provide access to network devices. Agreed to provide access to Cisco DNA Center.

Set Up the Authorization Edit

Cisco Specialist Email Address	cmorenoa@cisco.com
Existing Case Numbers	0123456789
Access Justification	Remote Access for Carlos Moreno (TAC)

\sim	Schedule	the	Access	Edit
	Scheduled F	or	Nov	N

Duration 24 hours



Connection to Remote Support (RADKit) Cloud is established.

Done! Authorization is created.

Click the Copy icon to copy the following information. Provide it to the Cisco specialist. All activity during the remote session will be recorded, logs will be available in the Activity page.

cmorenoa@cisco.com is scheduled to sign in to Cisco DNA Center on 25 Jan 2024, 12:19 pm CET for 24 hours using hzmj-phk4-ztyb as the Support ID.

 The Support ID will be used by the Cisco specialist to log into your Cisco Catalyst Center to triage and troubleshoot issues that you reported



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RSA – Remote Support Authorization Step 4 – Share the Support ID with the Cisco specialist

• Details (i.e. Service ID) are available in the Current Authorizations tab

≡ dinih Catalyst Center	Remote Support Authorization		\$ Q	<	0	Q	2	admin 🗸
SUMMARY	Connection to	🖾 cmorenoa@c	cisco.co	om				\times
18 Total Authorizations 17 Current Authorizations Past Authorizations		Support ID Cisco Specialist Email Address	hzmj-ph cmoreno	-	.com			
Create New Authorization Current Authorizations Past Authorization	ns Manage SSH Credentials	Case Number(s) Date	0123456 25 Jan 2		19 pm C	ET		
Status All Scheduled Active		Duration Description	24 hours Remote				(TAC)	
Cmorenoa@cisco.com Active on 25 Jan 2024, 12:19 pm CET Duration 24 hours Revoke Authorization View Logs ()		Access Permission	All SSH- DNA Cer	enabled iter, DNA Ce	network nter nod	devices es (inclu		by Cisco





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Talk to one of our engineers and ask for a 1:1 RADKit demo at the TAC booth (World of Solutions)

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Thank you

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Let's go