Configure Credentials in Bulk Via XML

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Introduction

This document describes the steps to manage credentials on the Common Services Platform Collector (CSPC) in bulk via Excel and XML.

Prerequisites

Requirements

Tip: A global credential applies to all devices and has a *.*.* under the IP Address List. A non-global credential only applies to the devices listed.

OTE: Credentials wo	uld be saved to CS	PC server as and when y	rou take the act	tion.	Glo	bal
Condential Name	Temport	Unar Nama	IP Address	e T ist	create	
false nascQGH v1	sshu'i	false naceSGU	****		1.	
false passSSH v2	saby2	false passSSH	****			
false passSSH2 v1	ashv1	false passSSH2		- V	··	
false_passSSH2_v2	sshv2	false_passSSH2		1.000		E
Fake2remove	teinet	Fake2remove	1.2.3.4	10000		100
Fake2remove5N	snanpv3	Fake2remove	4.5.6.7	Non-g	lobal	1
Fake2remove5N	snmpv3	Fake2remove	4.5.6.8	crede	ntials	
Fake2remove5N	snmpv3	Fake2remove	4.5.6.9			
Fake2remove5N	snmpv3	Fake2remove	4.5.6.10	1		
Fake2remove5N	stumpv3	Fake2remove	4.5.6.11	/		
Fake2remove5N	snmpv3	Fake2remove	4.5.6.12	1		
II I Page	of1 🕨 🕅	11.		Displayin	g 1 - 50 of 50	0

You need:

- Excel and a basic knowledge on how to use it
- Enable the Developer tab on Excel (<u>Instructions</u>)
- Export the credentials from the graphical user interface (GUI)

Warning: Credentials are Highly Confidential and for this process are stored as plain text. Be mindful and protect data. DO NOT share credentials (unless approved for your particular case) and Always work with a Service Request (SR) to keep the issue documented. If the team has not raised one, open it proactively on behalf of the account PM before work begins on the issue. For more information on Data Classification, visit the Data Advisor Tool.

Components Used

This procedure was made in a lab environment with:

- CSPC v 2.8.1.4
- Excel 2013

The procedure can be performed with any CSPC version that can export credentials as .xml and any Excel version since 2010.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

When credentials on the CSPC are required to be added, removed, modified, or verified in bulk, such as after a previous seedfile is imported and we get one credential per device. A mass deletion of non-global credentials all at once saves time. The credentials can be managed easily and efficiently using Excel and the credentials XML that can be exported from the GUI. Those actions are described in the Procedure section.

Procedure

Configurations

Get the Credentials

1. Log into the CSPC GUI

2. Go to Credentials > Export (log in with GUI credentials).

			sumpvar	A . A . A	
r 📷 Credentials 🎚	*	1	Verify User Passwor	d ×	3
	Displaying 1 - 50 of 50		* User Name	admin	
	mport Export	.v	* Password		
		2		OK Cancel	
			VZ SSRVZ	Taise passooniz	

3. Select Pari Device Credential Repository (.xml) and click OK. Do not Zip It.

enuarivanie Transport	User ivallie	IF Address List
r Export Options		×
n Export Format		
Export Format	Pari Device Creder	ntials Repository (.xml) 🎽
I Zip It	Pari Device Credent	tials Repository (.xml)
Ŧ	CNC CSV File (.csv)	
Ŧ		
ł		OK Cancel
		Carter

4. Confirm you want to export the credentials.



5. Save the file to a safe, accessible place.

Opening DeviceCredentials.aml X	■ Decuments + 304, + 12,0redentials,management_via,304, v [6] Search 12,0rel
You have chosen to open	Nex fulder
DeviceCredentials.cml	* Name Date modified Typ
which is: Extensible Markup Language (IOAL) (36.3 KB) from: https://172.18.204.28.8001	 No items match your search.
What should Firefox do with this file? Oppn with Firefox	- E
Ogen with Office XML Handler (default) ~ @jave File	
Do this putomatically for files like this from new on.	re Bronokenstan
OK Cancel	pe (bitersible Markup Language (XML) Seve

Add, Remove, Modify, or Verify the Credentials on Excel

1. Open a new Excel Workbook.

2. Go to the Developer tab and click **Import** in the XML section.



3. You are prompted to select an XML file. Select the one you previously exported from the GUI and click on **Import**.

Import XML					×
← → × ↑ 🖡 < Do	cuments > XML > TZ_Credentials_manag	ement_via_XML v	O Search TZ_C	vedentials_manag	Ρ
Organize • New folder				10 · 0	0 P
Microsoft Excel	Name	Date modified	Type	Size	R
OneOnive	DeviceCredentials	02/12/2020 11:23	XML Document	37 KB	- 1
Inis PC					- 1
👌 3D Objects 🗸 🗸					- 1
File nam	e: DeviceCredentials		~ XML Files		v
		Tools	- Import	Cancel	
					- 4

4. You are prompted to confirm you want Excel to create a schema (a reference for the XML on the current workbook to be readable). Click **OK**.

Micros	oft Excel			?	×			
The specified XML source does not refer to a schema. Excel will create a schema based on the XML source data.								
	🗌 jn the future, do r	not show this messa	ige.					
			OK	He	lp			

5. You are prompted to confirm where you want the data to be imported. Click **OK** or modify if you need the XML in a different location.

Import Data	?	×
Where do you want to put the data?		
SA\$1		t
O XML table in new worksheet		
Properties OK	Cano	el

6. All credentials are available for manipulation as a normal Excel workbook. All passwords, users, engine IDs, and any data related to current passwords on the CSPC are visible at a glance.

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1 1.01	T 1	EntryName 💌	Userld	Password	EnableUserN	EnablePassa	PassPhrill	PExpel	ReadCommu	VriteConnut	SNMPV3Userh	SNMPV3Esg	SNMPV3AuthPre=	SNMPV3AuthPass	SNMPV3PrivPro	SNMPVPrivPassF= DB	Ser DBlpadde	DBNa Pell Pre	ote
2		Dunny_v1							Dunny	Fake								161 com	mpv1
3	2	Dunny_v2							Dunny	Fake								161 cam	npv2c
4	4	dunny									dunny	avil	SHA	dunny	AES-128	dunny		161 cam	Evgm
5	- 5	falos_paco	false_pass	false_pass	falos_paco	Felos_pace												23 tels	set
6	6	falos_pace\$\$H_v1	false_pass\$\$	+ false_pass\$\$	H22oceq_oolet +	falos_paceSSH												22 cch	iv1
7	7	falpe_papr\$\$H_v2	false_pass\$\$	P false_pass\$\$	Halos_paceSSH	Falps_papeSSH	1											22 114	1W2
	3	falos_paceSSH2_v1	false_pass\$\$	+ false_pass\$\$	2													22 och	iv1
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10	12	FakeZremove	Fake2remore	Fake2remore				12.3.4										20 tels	548
15	13	Fake2removeSNMPv3					1	4.5.6.7			Fahc2remore	Fake2remove	SHA	Fake2remore	null			161 cam	mpv3
12	14	Fake2removeSNMPv4						45.6.8			Fake2remove	Fake2remove	SHA	Fake2remove	null			162 cam	mpv3
13	15	Fake2removeSNMPv5						4.5.6.5			Fake2remore	Fake2remove	SHA	Fake2remove	null			160 cam	Evqa.
14	16	Fake2removeSNMPv6						4.5.6.10			Fahc2remove	Fake2remove	SHA	Fake2remove	null			164 com	Evqn.
15	17	Fake2removeSNMPv1						4.5.6.11			Fskc2remove	Fake2remove	SHA	Fske2remore	null			165 cam	Evqm.
16	18	Fake2removeSNMPv8						4.5.6.12			Fake2remove	Fake2remove	SHA	Fake2remore	auli			166 cam	Evqa.
17	13	Fuke2removeSNMPv3					1 1	4.5.6.13		1	Fahc2remore	Fake2remove	SHA	Fskc2remore	null			167 com	Ergm
10	20	Fake2removeSNMPv10						4.5.6.14			Fake2remove	Fake2remove	SHA	Fake2remove	null			168 cam	Evqm
14	21	Fake2removeSNMPv11						4.5.6.15			Fake2remove	Fake2remove	SHA	Fake2remove	auli	1		16.3 cam	Evqa.
20	22	Fake2removeSNMPv12						4.5.6.16			Fake2remove	Fake2remove	SHA	Fake2remore	null			170 page	Evga
21	23	Fake2removeSNMPv13						4.5.6.17			Faks2remore	Fake2remove	SHA	Fake2remore	and .			171 com	nev3
22	24	Fake2removeSNMPv14						4.5.6.18			Fake2remove	Fake2remove	SHA	Fake2remove	null			172 cam	Evqm.
23	25	Fake@removeSNMPv15						4.5.6.19			Fake2remore	Fake2remove	SHA	Fake2remore	lies			173 page	Evga.
24	26	Fake2removeSNMPv16						4.5.6.20			Faks2remove	FakeZremove	SHA	Fake2remove	null			174 com	nev3
26	27	Fake2removeSNMPv17						4.5.6.21			Fsks2remove	Fake2remove	SHA	Fske2remore	null			175 cam	Evqn.
24	28	Fake2removeSNMPv10						45.6.22			Faks2remore	FakeZremove	SHA	Fake2remore	null			176 pam	Evgn.
27	23	Fake2removeSNMPv13						4.5.6.23			Faks2remore	Fake2remove	SHA	Fskc2remove	null			177 com	nev3
28	30	Fake2remove5NMPv20)					4.5.6.24			FakeZremove	Fake2remove	SHA	Fake2remore	null			178 cam	Evqm
25	- 31	Fake2removeSNMPv21						45.6.25			Fake2remore	Fake2remove	SHA	Fake2remore	Inter			173 page	Evgn.
24	32	Fake2removeSNMPv23	2					45.6.26			Fake2remove	Fake2remove	SHA	Fake2remove	null			180 cam	mpv3
21	33	Fske2removeSNMPv23	3					15.6.27			Fsks2remove	Fake2remove	SHA	Fske2remore	null			101 cam	mpv3
22	34	Fake2removeSNMPv24	1					4.5.6.28			Fake2remore	Fake2remove	SHA	Fake2remove	null			102 page	Evgn.
22	35	Fake2removeSNMPv25	5					45.6.23			Fake2remore	Fake2remove	SHA	Fake2remore	null			183 cam	Ergn
24	36	Fake2remove5NMPv2t	5					4.5.6.30			Fake2remove	Fake2remove	SHA	Fake2remore	null			\$84 cam	Evqa.
25	37	Fake2removeSNMPv21						45.6.31			Fake2remore	Fake2remove	SHA	Fake2remore	auli			\$85 cam	Evga
34	38	Fake2removeSNMPv24	3				-	4.5.6.32			Fakc2remove	Fake2remove	SHA	Fake2remove	null			186 cam	Evqn
32	35	Pake2removeSNMPv23	•					4.5.6.33			Fsks2remove	Fake2remove	SHA	Fske2remove	null			187 cam	mpv3
28	40	Fake2removeSNMPv30)					456.04			Fake2remore	Fake2remove	SHA	Fake2remore	null			100 page	Evga
39	41	Fake2removeSNMPv31						4.5.6.35			Fahc2remore	Fake2remove	SHA	Fskc2remore	null			183 cam	Ergm
40	42	Fake2removeSNMPv33	2					4.5.6.36			Fake2remove	Fake2remove	SHA	Fake2remove	null			150 cam	Evqm
11	41	Falls Dramous Chillips 11	1					154.37			Fake Desmone	Fakeframene	SHA	Fake2remone	Incell			191 cam	acul.

7. Edit the credentials as needed.

Example: Delete all Non Global Credentials (Use Case)

Note: This is just an example of a use case. You can add credentials (remember to add the associated EntryID) modify passwords, and delete entries as if this was a normal Excel table. If you do not want to delete non-global credentials because your needs are different, skip the example.

1. Filter column H **IPExprList** and select everything except *.*.* (Global Credentials).



2. Select and delete all matching rows.



3. Remove the filter on column H by clicking on (Select All).

	F		G		Н					
 Enable 	Password	-	PassPhrase	-	IPExprList	-				
<mark>2</mark> ↓ <u>s</u> o	ort A to Z									
Z↓ So	Z ↓ Sort Z to A									
Sor	<u>t</u> by Color					>				
She	et <u>V</u> iew					>				
S ⊆	ear Filter F	ron	n "IPExprList	t"						
Filte	er by Color					>				
Tex	t <u>F</u> ilters					>				
Sea	arch				۶	С				
		All	I)							
	****		_							

4. You receive only global credentials.

1										
1	I B		D	E	L F	G	н		J	K
	EntryName 🔫	Userld 🛛	Password 🛛	EnableUserName 🖛	EnablePassword 🖛	PassPhrase 🖛	IPExprList 🖛	ReadCommunity 💌	WriteCommunity 🛫	SNMPV3UserName
	Dummy_v1						•.•.•	Dummy	Fake	
	Dummy_v2						•.•.•.•	Dummy	Fake	
	dummy						•.•.•			dummy
	false_pass	false_pass	false_pass	false_pass	false_pass		•.•.•			
	false_passSSH_v1	false_passSSH	false_passSSH	false_passSSH	false_passSSH		•.•.•			
	false_passSSH_v2	false_passSSH	false_passSSH	false_passSSH	false_passSSH		•.•.•			
	false_passSSH2_v1	false_passSSH2	false_passSSH2	2			•.•.•			
	false_passSSH2_v2	false_passSSH2	false_passSSH2	2			•.•.•.•			
þ										

Import Changes to the CSPC GUI

1. In the edited Excel workbook, go to the Developer tab and click **Export** under the XML section.



2. Save in a secure and accessible place with a different name of the GUI exported credentials. This way you have a backup for before and after the procedure.

Export XML		
e> -> 🕇 📜	« XML > TZ_Credentials_management_via_XML	✓ ♥ Searce
Organize • Nev	w folder	
	^ Name	Date modified Typ
👆 3D Objects	DeviceCredentials	02/12/2020 11:23 XM
늘 Desktop		
Documents		
🔈 Downloads		
Music		
🔚 Pictures		
Videos		
😍 🖗 OS (C:)	× <	
File name:	Modified_Credentials	
Save as type:	XML Files	
Authors:	Milenko Tomich Tags: Add a	tag

Warning: This step deletes all the credentials. Make sure you have the previously exported .XML and confirm you have completed the steps properly before you perform next step. Always get a backup of



3. Log into the GUI and go to **Credentials > Delete All** and confirm.

	a stands a re-			
of 1 (P) (P)		A		
Delete AL	Confirm			
	z 🕐 Are you si	are you want to del	ete all existing credentials?	
	X			
	2	Yes	No	
	SH2_v2 sshv2	false_passSS	H2 ****	

You receive a confirmation after the deletion.



4. Go to Credentials > Import > Pari Device Credentials Repository (.xml).

Credentials	contrast news		Import Options				
	Import E		- Import Options				
			Import	Pari Device Credentials Repository (xml)			
		ш	File/Directory:	Cisco Works DCR XML File (sml)			
		ш	* Joh Namar	Pari Device Credentials Repository (sml)			
			per comme	Channe Wander DVD CSU Bills / seath			

5. Click on the **Browse** button, select **Modified_Credentials**, and click **Open**:

Discovery (B) Managed C Device Violation Devices	Import Options Import File Directory: *Job Name:	Pari Denice Condentiala Reposito	r (and * 1 Jacons.	
⊌ File Upload				×
← → × ↑ 📜 « Do	cuments > 30ML > TZ_Crea	fentials_management_via_XML	v & Search	TZ_Credentials_managP
Organize • New folde	i.			• 💷 🚯
📕 690337579 28 mi ^	Name	~	Date modified	Туре
690401378 DAV 0	DeviceCredentials	2	02/12/2020 11:23 a.m	XML Document
TZ_Credentials_r	Modified,Credentials		02/12/2020 11:46 a.m	XML Document
OneDrive This PC S0 Objects Desktop				
Decuments v	<			
File na	eme: Modified_Credentials		- All Fi	les 3 v Open Cancel

6. Provide a descriptive name for the job and click the **OK**.

File/Directory:	C:\fakepath\Modified_Credentia Browse	
* Job Name:	Delete_non_global_creds	
110 11		OK

7. When you see the displayed message, click **OK** and close the credentials page.



8. **Seedfile Import** Job Type with the descriptive name you provided is be visible under **Job Run Status**. It does not take more than a minute to complete.

	Job Id	Job Type	Job Name	Runs	State(Latest)	Status(Latest)	Start Time(Latest)	End Time(Latest)
۲	11	Seedfile Import	Delete_non_global_creds	1	Completed	Success	Wed, Dec 2, 2020 05:52:42 -0600	Wed, Dec 2, 2020 05:52:42 -0600

Verify

1. Go to **Job Run Status** section and confirm the **Seedfile Import** with the job name you used has completed successfully.

2.Under the Dashboard tab, logs appear similar to this example:

Server Activity Log Mens	ellas		
Module	Severity	Received At	Message
Import Seed File	8	Wed, Dec 2, 2020-05:52:42-0600	Job Delete_non_global_creds' Seed file parsing completed.
Import Send File	8	Wed, Dec 2, 2020-05/52:42-0600	Jub 'Delete_non_global_creds' Seed file parsing started '

3. Go to the **Credentials** section and visually confirm the credentials reflect the changes you made.

Q:+ (×		
Credential Name	Transport	User Name	IP Address List
Dummy_v1	snmpv1	1	****
Dummy_v2	snmpv2c		1000
tummy	snmpv3	dummy	1000
alse_pass	teinet	false_pass	****
alse_passSSH_v1	sshv1	false_passSSH	1000
alse_passSSH_v2	sshv2	false_passSSH	****
alse_passSSH2_v1	sshv1	false_passSSH2	1000
alse_passSSH2_v2	sshv2	false_passSSH2	****
A Page1	of 1 🕨 🕅		Displaying 1 - 8 of

Troubleshoot

Error "A Seed File already exists with the name C:\fakepath\<your_file>.xml. Please Select a unique Seed File."



Change the name of the XML before you import it and try again.

Something Went Wrong, I Do not have a Backup and Need to Recover Previous Credentials

1. In the GUI, go to **Settings > Imported Seed Files**.



3. Select any previous seedfile, provide GUI credentials, and download it to a secure and accessible location.

Seed File Name Seed File Description	Seed File Format	Group Name	File Size(KB)	User Name	Job Start Time	Job End Time	Job Log Details		
Modified_Credentials.xml	PARI_CREDENTIALS		2.73	admin	Wed, Dec 2, 2020 05:52:42	Wed, Dec 2, 2020 05:52:42	View Job Log Details		
Modified_Credentials_xml	PARI_CREDENTIALS		2.73	admin	Wed, Dec 2, 2020 06:06:12	Wed, Dec 2, 2020 06:06:12	View Job Log Details		
AddCreds.xml	PARI_CREDENTIALS		19.15	admin	Wed, Dec 2, 2020 03:58:27	Wed, Dec 2, 2020 03:58:27	View Job Log Details		
Verify User Reserved X * User Name selmin * Password C Canon									
 K AddCress 									
pe: Extensible Markup Language (XML)									

4. Complete from step 4 of section Import changes to CSPC GUI in this procedure and verify the

credentials.