



## Using the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 Migration Tool

This chapter describes how to use the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 migration tool to migrate data from a Cisco Secure ACS 5.1/5.2 database to a Cisco ISE 1.0 appliance, and includes procedures for running the migration process in the following topics:

- Logging In and Using the Migration Tool, page 4-1
- Providing Import and Export Report Files, page 4-11

## Logging In and Using the Migration Tool

After you have started the migration tool, log into the Cisco Secure ACS 5.1/5.2 system from which you will be exporting data. To start using the migration tool, complete the following steps:

Step 1 In the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 migration tool main window, click Settings to display the list of data objects you want to migrate.

🚟 Cisco Secure ACS 5.1 to Cisco IS	E 1.0 Migration Tool	
Exit Help		
Logged in as:	on ACS5:	
Logged in as:	on ISE:	CISCO
Migration Settings		
Dependency Handling		
n		
Select the Objects that will be exporte	d in case their dependency data is missed	
Identity Attribute Dictionary		
User		
Host		
Active Directory		
Certificate Authentication Prof	ile	
NDG Root		
	Save	

- Step 2 Click to select the check box(es) for those data objects you want to export in case their dependency data is missed, and click **Save**.
- Step 3 In the main window of the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 migration tool, click **Migration** and click **Export from ACS**.

The Login window for the Cisco Secure ACS 5.1/5.2 system is displayed.

Exit Help	co ISE 1.0 Migration Tool				
Logged in as: Logged in as: Migration Settings	on ACS5: on ISE:		•	2 · 1 C	IIII ISCO
Export From ACS Exp Migrated Objects Predefined Reference Data Dictionaries Dictionaries Dictonaries External Rabity Stores External RADIUS Server DACL DACL Policy Elements Access policies	ACS5 Credentials ACS5 IP/hostname ACS5 Username acsadmin ACS5 Password Connect Cancel	0	Exportin uccess 0 0 0 0 0 0 0 0 0	Ng Varnings 0 0 0 0 0 0 0 0 0 0	Errors 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Import To ISE Imp	ort Report(s)			View Log	g Console

Step 4 Enter the IP address (or host name) and the password for the Cisco Secure ACS 5.1/5.2 system into the ACS Credentials window, and click **Connect**.

The data migration process begins.

Logged in as: acsadmin c Logged in as: c	on ACS5: 10.56.13.1 on ISE:	12	•	? 'I	liii iscc
Migration Settings					
Export From ACS Export Report	t(s)	Current Running Pro	ocess: <b>Exporti</b>	ng	
Migrated Objects	Progress	Cour	t Success	Warnings	Errors
🕀 🛅 Predefined Reference Data	20	20	0	0	0
🗄 🛅 Dictionaries		0	0	0	0
🗄 🛅 Users and Identity Stores	[	0	0	0	0
🗄 🛅 Devices		0	0	0	0
🗄 🛅 External RADIUS Server		0	0	0	0
		0	0	0	0
			0	0	0
Import To ISE	rt(s)	, .		View Log	g Console

Step 5 Check the progress of the migration of Cisco Secure ACS 5.1/5.2 data by viewing the main window of the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 migration tool.

.ogged in as: acsadmin .ogged in as:	on ACS5: 10.56.13.112 on ISE:			?	1 11 CIS(	
igration Settings						
Export From ACS Export Rep	curre	nt Running Pr	ocess: Expo	rting		
Migrated Objects	Progress	Count	Success	Warnings	Errors	
🖃 🚞 Predefined Reference Data	100	100	0	0	0	~
Generic Attyibutes	In Progress	100	0	0	0	
🗝 🌒 Certificate Attributes	Not Started	0	0	0	0	
Enumerations	Not Started	0	0	0	0	
🗝 🐠 Internal Identity Stores	Not Started	0	0	0	0	
🔶 External Identity Stores	Not Started	0	0	0	0	
Identity Dictionaries	Not Started	0	0	0	0	
🗄 🛅 Dictionaries		0	0	0	0	
🛓 🛅 Users and Identity Stores		0	0	0	0	
		0	0	0	0	
🗄 🛅 Devices						

gged in as: acsadmin gged in as:	on ACS5: on ISE:	10.56.13.112				IIII CISC	
ration Settings							
Export From ACS Export	Report(s)		Current Running Pr	ocess: Expo	rting		
/ligrated Objects	Progress		Count	Success	Warnings	Errors	
RADIUS VSAs		Finished	1020	866	<u>154</u>	0	^
- RADIUS Attributes		Finished	254	176	<u>78</u>	0	
Identity Attributes		Finished	12	10	2	0	
🗠 🛅 Users and Identity Stores		21	21	21	0	0	
🗠 🚞 Devices	[	12	12	7	<u>5</u>	0	
🗠 🚞 External RADIUS Server	[	2	2	2	0	0	
M 🛅 DACL	[	0	0	0	0	0	
🗠 🚞 Policy Elements	[	6	6	5	0	1	
		27	27	17	1	3	_
🗠 🛅 Access policies		Finished	4	2	2	0	
Access policies							

The main window of the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 migration tool displays the current count of successful objects exports, and also lists any objects that triggered warnings or errors.

Step 6 To get more information about a warning or error that occurred during the export process, click any listed Warnings or Errors in the table. The following example shows the result returned result from choosing an error to display.

The Object Errors and Warnings Details window is displayed, which provides the object group, the type, and a date and time that this error occurred.

Exit Help				
.ogged in as: acsadmin	on ACS5:	10.56.13.112		<u>,   ı</u>
.ogged in as:	Objects Errors and Warn	ings Details	X	:0
ligration Settings	Object Group: Policy Elemen	nts Object: All	Info: ERROR	
Export From ACS	Details:			
Migrated Objects	Object Type: Date	And Time		F
RADIUS VSA     RADIUS Attr     Identity Attr	> 2010.09.28 17:02	2:34'489 : 'dt2': will	l not be exported bec	2
Users and Identi      October Control      Devices      External RADIUS				
DACL     Policy Elements     Access policies		<u>A</u>		
RADIUS Prov		Close		¥
Import To ISE	Import Report(s)		View Log Cons	ole

Step 7 Scroll to the right to display the complete set of details, and click Close to close this window.

When the data export process from the Cisco Secure ACS 5.1/5.2 system has completed (**Exporting finished...**), the main window of the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 migration tool displays this status.

ogged in as: acsadmin ogged in as:	on ACS5: 10.56.13.1 on ISE:	12			ון כוג	
gration Settings						
Export From ACS Export R	eport(s)	Current Running Pro	ocess: Expo	rting finishe	d	
Migrated Objects	Progress	Count	Success	Warnings	Errors	
≟ 🛅 Devices	12	12	7	5	0	~
🗄 🛅 External RADIUS Server	2	2	2	0	0	
🗉 🛅 DACL	0	0	0	0	0	
🗉 🛅 Policy Elements	6	6	5	0	1	
🖃 🛅 Access policies	27	27	17	1	<u>3</u>	
<ul> <li>Authorization Profiles</li> </ul>	Finished	4	2	2	0	
RADIUS Proxy Services	Finished	0	0	0	0	
Network Access Services	Finished	10	2	5	<u>3</u>	
<ul> <li>Authentication Policies</li> </ul>	Finished	1	1	0	0	
<ul> <li>Authorization Policies</li> </ul>	Finished	12	12	0	0	
	Einisbed	0	0	0	0	v

Step 8 Click Export Report(s) to view the contents of the report, which summarizes the export operation as shown in the following example.

Each export report contains header information with the operation type, date and time, and system IP address or host name. Each object group details the types and related information for the objects in that group. Each report ends with an report that summarizes the start and end date and time, and the duration of the operation.

📓 ACS - Identity Services Engine 1.0 Migration Tool
Report Type: Exporting from ACS report
Report File: C:\positron-migration\reports\export_report.txt
Migration Report
Migration Phape: Export from ACS
Date: Tue Sep-28 16:50:22 IST 2010
Machine: 10.56.13.112
======================================
Object Group: Predefined Reference Data
Object Type
Object Type: Generic Attributes
Into Type: INFO
> 2010.09.28 16:52:31'716 : 'ConfigChangeData': exported sucessfully.
<
Previous Page Next Page

Step 9 To start importing this data into the Cisco ISE appliance, click **Import to ISE** in the main window of the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 migration tool.

You are prompted to add attributes to the LDAP identity stores before they are imported into Cisco ISE 1.0.

Cisco Secure ACS 5.1 to Cisco Exit Help	ISE 1.0 Migration Tool			
Logged in as: acsadmin Logged in as:	on ACS5: 10.56.13.112 on ISE:			•1 1 ;co
Migration Settings				
Export From ACS Export F	Report(s) Curre	at Running Process: Export	ing finished	
Migrated Objects	Progress	Count Success	Warnings Er	rors
🍺 🚈 Predefined Reference Data	798	798 798	0	0
🗄 🛅 Dictionaries	1298	1298 1060	<u>238</u>	0
Users and Identity Stores	21	21 21	0	0
	12	12 7	5	0
External RADIUS Server			0	U
	6		0	1
	27	27 17	7	3
Import To ISE Import	Report(s)		View Log Cor	Isole

👑 Cisco Secure ACS 5.1 to	Cisco ISE 1.0 Migration Tool	
Exit Help		
Logged in as: acsadmin Logged in as:	on ACS5: 10.56.13.112 () () () () () () () () () () () () ()	1+1 1 15CO
Migration Settings		
Export From ACS Migrated Objects Dictionaries	structions     ng       Use the following dialog to add attributes for identity stores (LDAP) before importing them. Added attributes will be imported with the identity stores into ISE.     0       or     OK     0       r     0     0       0     0     0	Errors 0 0 0 0 0 0
Policy Elements     Access policies	0 0 0 0 0 0	0
Import To ISE	Import Report(s)	g Console

Step 10 Click **OK** to start the attribute add process for your LDAP identity stores.

Step 11 In the LDAP Identity Store pull-down list, select the identity store to which you want to add attributes.

gged in as:	🔊 Identity Stores Att	ributes Dictionary				
ration Settin	LDAP Identity Store: N	AC Profiler	Select the (LDAP) th table. Rep	e identity store from the list en fill its attributes in the peat for all stores.		.1300
Migrated Objec	Attribute Name	Attribute Type		Default Value	IS	Errors
🛛 🚞 Predefin	tt1	String	~			0
Dictionar		String				0
Users an		Unsign of Integer 32				0
External		IPv4 Address				0
DACL						Õ
🖓 🛅 Policy Ele						0
🖂 🚞 Access p						0
		Save & Exit	Cancel			

- Step 12 Enter a name in the Attribute Name field, select an attribute type from the Attribute Type pull-down list, enter a value in the Default Value field, and click Save & Exit.
- Step 13 After you have completed the attribute addition, click **Import to ISE** to proceed with the importing process, and log into the Cisco ISE system using the ISE Credentials window.

Cisco Secure ACS 5.1 to Cis Exit Help	co ISE 1.0 Migration Tool			
Logged in as: acsadmin Logged in as:	on ACS5: 10.56.13.112 on ISE:			iliili cisco
Migration Settings				
Export From ACS Exp	ISE Credentials	Im	porting	
Migrated Objects	ISE IP/hostname		xess Warning 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	s Errors 0 0 0 0 0 0 0 0 0
Import To ISE	oort Report(s)		View	Log Console

Step 14 Enter the ISE IP address (or hostname), ISE Username, and ISE Password as required, and click **Connect** to start importing data into the Cisco ISE appliance.

Logged in as:	on ACS5: 10.56.13.112 on ISE: 10.56.13.190			?		
ligration Settings						
Export From ACS	rt Report(s)	urrent Running Pr	ocess: <b>Impo</b>	orting		
Migrated Objects	Progress	Count	Success	Warnings	Errors	
🖅 🛅 Predefined Reference Data	Will Not Be Imported	0	0	0	0	~
🖮 🛅 Dictionaries	1%	1060	15	0	0	
VSA Vendors	Finished	8	8	0	0	
RADIUS VSAs	In Progress	866	7	0	0	
RADIUS Attributes	Not Starter	176	0	0	0	
Identity Attributes	Not Started	10	0	0	0	
💼 🚞 Users and Identity Stores		0	0	0	0	
🖻 🚞 Devices		0	0	0	0	
📩 🦳 External DADTHS Server		0	0	0	0	
		0	0	0	0	_

Step 15 At any point in the import or export process, click View Log Console to display a real-time look at the current status of the import or export operation.

Cisco Secure ACS 5.1 to Cisco IS	E 1.0 Migration Tool						
Exit Help							
Logged in as: acsadmin Logged in as:	on ACS5: 10.56.13.1 on ISE: 10.56.13.1	12 90			1 11 CIS(		
Migration Settings							
Export From ACS Export Re	Current Running Pr	Running Process: Importing					
Migrated Objects	Progress	Count	Success	Warnings	Errors		
🕀 💼 Predefined Reference Data	Will Not Be Impo	ted O	0	0	0	~	
🖃 🧰 Dictionaries	6%	1060	61	0	0		
VSA Vendors	Finished	8	8	0	0		
RADIUS VSAs	In Progress	866	53	0	0		
RADIUS Attributes	Not Started	176	0	0	0		
Identity Attributes	Not Started	10	0	0	0	_	
🕀 🛅 Users and Identity Stores		. 0	0	0	0		
			0	0	0		
External RADIUS Server			0	0	0		
		0	0	0	0	1000	
Policy Elements			U	U	U	×	
Import To ISE	eport(s)			Hide	Log Conso	le	
Log Console:							
INFO pool-2-thread-1 (ImportReportListene	erlmpl.objectImported:66) - Dio	tionaries-RADIUS VS	As: Added co	onfiguration: N	ortel ( Bay	^	
) INEO pool 2 thread 1 (importPenort) istep	erimpi objectimported BB) Di	tionariae RADIUS VS	Ac: Added o	onfiguration: N	lortel (		
Bay )	enimpr.objectimported.oo) - Di	clionalies-rtAbios ve	MS. Muudu C	ormguration. P	uon ten (		
INFO pool-2-thread-1 (ImportReportListen	erlmpl.objectImported:66) - Di	tionaries-RADIUS VS	As: Added c	onfiguration: N	lortel (		
Bay)				-			
INFO pool-2-thread-1 (ImportReportListen	erlmpl.objectImported:66) - Di	tionaries-RADIUS VS	As: Added c	onfiguration: N	lortel (		
Bay)						~	
INFO neel 3 thread 4 (ImportPanart) inter	orimal objection arted (CC) Di	tionariaa DADILIC V/S	°no: Indologio	opfice wation: h	lortol (		
				Clear	Log Consol	-	
				Ciear	cog consol	<u> </u>	

Step 16 To get more information about any warning or error that occurred during the import process, click **Warnings** or **Errors** in the table where it is listed (see step 6), and view any details.

When the data import operation is complete, this status is displayed in the main window of the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 migration tool.

ogged in as: acsadmin ogged in as:	on ACS5: on ISE:	10.56.13.11	12 90			?		1.	
gration Settings					J				
Export From ACS Export R	Report(s)		Current R	unning Pro	cess: Impo	rting finis	hed		
Migrated Objects	Progress			Count	Success	Warnings	;   EI	rrors	
• Network Devices		Finished		4	4	0		0	~
🗄 🛅 External RADIUS Server		100%		2	2	0		0	-
DACL				0	0	0		0	
🗉 🛅 Policy Elements				0	0	0		0	
- Contraction -		100%		17	16	0		1	
<ul> <li>Authorization Profiles</li> </ul>		Finished		2	2	0	2	0	
RADIUS Proxy Services		Finished		0	0	0	.0	0	_
Network Access Services		Finished		2	2	0		0	
Authentication Policies		Finished		1	1	0		0	
		Finished		12	11	0		1	
🗝 🔶 Authorization Policies									

Step 17 To view the complete report on the data imported into the Cisco ISE 1.0 appliance, click Import Report(s). The report is displayed.

Report Type: In	mporting to ISE report		
Report File: C	:\positron-migration\repo	ts\import_report.txt	
- 2010.02.2	0 11.10.12 320	. Added configuration. Radiab	^
> 2010.09.2	8 17:16:42'907	Added configuration: Radius	
> 2010.09.2	8 17:16:43'500	: Added configuration: Radius	
> 2010.09.2	8 17:16:44'110	: Added configuration: Radius	
> 2010.09.2	8 17:16:44'719	: Added configuration: Radius	
> 2010.09.2	8 17:16:45'344	: Added configuration: Radius	
> 2010.09.2	8 17:16:45'953	: Added configuration: Radius	
> 2010.09.2	8 17:16:46'578	Added configuration: Radius	
> 2010.09.2	8 17:16:47'203	<sup>1</sup> Added configuration: Radius	
> 2010.09.2	8 17:16:47'813	: Added configuration: Radius	
> 2010.09.2	8 17:16:48'422	: Added configuration: Radius	
> 2010.09.2	8 17:16:49'032	: Added configuration: Radius	
> 2010.09.2	8 17:16:49'625	: Added configuration: Radius	
> 2010.09.2	8 17:16:50'235	: Added configuration: Radius	
> 2010.09.2	8 17:16:50'875	: Added configuration: Radius	
> 2010.09.2	8 17:16:51'500	: Added configuration: Radius	_
		-	~

Step 18 To verify that the import process has completed, log into the Cisco ISE 1.0 appliance:

- Enter a valid Username and Password.
- Click Login.



Step 19 In the Cisco ISE main window for example, navigate to Administration > Network Resources > Network Devices to display the Network Devices window to verify if any ACS-based devices were imported.

You can perform the same sort of verification for users or policies to check whether the import was successful.

Network Devices Finites	nagement 🛛 🎬 Nev H. Device Groups	Esternal PADIUS Server	reat Management ra FIADIUS Ser	ver Dequercies 1	SGA AAA Server	1.	
Referenk Devices		Devices					
A COLUMN TWO IS NOT	P	📝 0.0					
₽+ <u>≡</u> Ξ	- 57	Device Name	IPMusk .	Locabon	Type	Description	
Network Devices		anty_acs_hd	84.103 120 241	All Lacabona	All Device Types	Migraled from ACD 5	
Cefault Device		1 #4_PI	10.56 239 11/32	All Locations	All Device Types	Migrated from ACB 5	
		D alashed	64 103 120 740	All Lacations	All Device Types	Migrated from ACB 5	
		E mst son	10 56 232 71/02	Al Locations	All Device Types	Migrated from ACS 5	

This concludes the import/export operations using the Cisco Secure ACS 5.1/5.2-Cisco ISE 1.0 migration tool.

## **Providing Import and Export Report Files**

If you decide to share the import report or export report files with anyone, or to save them in another location, you can find them in the Reports folder in the migration tool directory (import\_report.txt and export\_report.txt).



