

# Sun<sup>TM</sup> Desktop Manager Tutorial

Willem van Schaik, May 2006

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Introduction Creating the Root Suffix Groups and Users Domains and Servers Configuring Sun Desktop Manager Wrap-Up

#### Introduction

There are many ways to model a repository for storing Sun<sup>TM</sup> Desktop Manager (SDTM) configurations. Many types of directories also can be used, such as LDAP, Active Directory, or flat files. This tutorial describes how to set up a simple SDTM configuration based on the Sun Java<sup>TM</sup> Enterprise System Directory Server, version 5.2.

This tutorial will configure the directory solely through GUI-based tools: The Directory Server start console will be used to add entries to the directory, and the SDTM Web Console will then add the desktop configurations. This method of building the directory is chosen to illustrate the various steps involved. For real-world large-scale deployments, creating LDAP Data Interchange Format (LDIF) files and loading those is, of course, the more efficient way of building the directory repository.

#### **Creating the Root Suffix**

It is assumed that you have installed both the Directory Server and Sun Desktop Manager system according to their installation manuals. Also, this tutorial will try not to repeat what is already described in the SDTM administration and user guides.

Because this SDTM setup is for demo purposes only, the first step is to create a new root suffix in the directory. This will provide an easy way of deleting the setup, with no impact on other parts of the tree, after the tutorial has been finished or when a fresh start is required.

Open the Directory Server console, log in as the directory manager (by default: 'cn=Directory Manager'), select the Directory Server and click 'Open'.

	Sun JES Server (	Console	.⊖€
nsole Edit View Object Help			
Sun JES Server Conso	le		
Servers and Applications Users	and Groups		
Default View	Sirectory S	Server	Open
anada.sun.com	Server server Dire	actory Samar (java)	
y java.canada.sun.com	Description:	ectory server (Java)	
Administration Server	Installation date: Mar	rch 21, 2006 10:16:22 AM MST	2000
— 🍅 Directory Server (java.	Server root: /opt	t/ds52x	2000
	Product name: Sur	n JES Directory Server	
	Vendor: Sur	n Microsystems, Inc.	
	Version: 5.2		
	Build number: 200	03.143.0143	10000
	Revision:		
	Security level: don	nestic	-
		Edit	Help
7			

On the next screen, click the 'Configuration' tab.

Sun JES Directory Server	000
Console Edit View Help	
Sun <sup>™</sup> JES Directory Server Version 5.2	
Tasks Configuration Directory Status	
Start Directory Server	
Stop Directory Server	
Restart Directory Server	
Back up Directory Server	
Restore Directory Server	
Manage Certificates	

Tasks Configuration Direct	ory Status			
<ul> <li>java canada sun.com:389</li> <li>Data</li> <li>Data</li> <li>Outobal</li> <li>Detecanada,dc=sun,dc=con</li> <li>Outobal</li> <li>Performance</li> <li>Schema</li> <li>Backups</li> <li>Logs</li> <li>Plugins</li> </ul>	Settings Network Server is read only Track entry modification t Directory Manager Directory Manager D Manager password encryptic Newpasswor Confirm passwor	Encryption times N: cn=Directo n: Satted Sec d: *******	SNMP ry Manager sure Hashing Algor	ithm (SSHA)
[				·····

The following screen capture shows the 'Configuration' tab.

Then select 'Data' in the tree view on the left and right-click it (see the following screen capture).

	Sun JES Dire	ctory Server		••
Sun™ JES Directory Servi Tasks Configuration Direc	er story Status		Version 5.2	
java canada sun com:389     java canada sun com:389     P	Passwords User Password User must User may of Allow changes i	Account Lockout Change change password afte hange password n day(s) [	Chaining r reset	Replication
	Password Expire     Password Expire     Password expire     Password expire     Send warning	ation ever expires expires after 100 day(s) be	day(s) fore password e	xpires

nsole Edit	Sun JES Directory Server Mew Help	P	00
Sun <sup>™</sup> J <sub>Tasks</sub>	ES Directory Server	Version 5.2	
🍅 java.can	ada.sun.com:389 Passwords Account Lock	cout Chaining Replica	tion
- D Pe - D Se - D Be - D Lo O- R PI	Use default values.	Options n passwords	
	OK Cancel	Help 100 day(s)	
	Send warning 1 day	/(s) before password expires	Help

Select 'New Suffix' and enter the name for the suffix, for example 'o=desktop'.

The new suffix is added to the tree. The following screen capture shows how your screen should look.

insole Edit Mew Help Sun™ JES DirectoryServe Tasks Configuration Direc	er tory Statu:	s		Version	5.2		
🕸 java.canada.sun.com:389	Indexes	Attribute En	cryption	Sett	inas		
<ul> <li>e→</li></ul>	System Indexe	tabase: desk file system: / s (Read-Only Approxim	top opt/ds52; ): Faua	<th>a0/db/desl</th> <th>ktop Matching R</th> <th>1</th>	a0/db/desl	ktop Matching R	1
- R Schema	aci		- qua			inclothing the	
Backups	entrydp						
Logs	DeonEntruDNI						
💽 🥁 Plugins	Additional Index	(es:					
	Attribute N	Approxim	Equa	Prese	Substr	Matching R	
	cn		~	V	V		
	givenName		V	V	V		
	mail	1 17			1.2		1
			Add at	tribute		Delete attribute	
				Save	Reset	He	gl

The next step is to create the root object. Click the 'Directory' tab and select the top-level element in the tree, which is the name of your directory server, and then either right-click it or choose from the menu 'Object -> New Root Object' and select the root suffix you just created.

	Sun JES Dir	ectory Server		008
Console Edit View	Object Help			
Sun <sup>™</sup> JES I Tasks Config	Edit With Oustom Editor Chri P Edit With Generic Editor Search ViewEffective Rights	5 51	Version 5.2	_
🔉 java.canada.sur. O- 🗁 dc=canada.c	New •			
O− → o=Netscapel	NewRoot Object	o=desktop		
● cn=schema ● cn=monitor ● cn=config (4	Set Access Permissions OthL. Set Roles Set Password Policy Oreate Browsing Index Delete Browsing Index			
o-desktop	Activate Inactivate			

In the pop-up window, select 'organization' and click OK.







There are two common naming conventions for a root suffix, either 'o=something' as was used in the preceding screens, or a 'domain component' notation, like 'dc=canada,dc=sun,dc=com'. If you opt for the latter as your suffix name, you must choose 'domain' instead of 'organization' in the new root object pop-up (see previous page).

## Groups and Users

Now you're ready to build up a directory tree of users and groups, probably reflecting the departments of your organization. For this example we will create a directory for a factory with three departments: Engineering, Manufacturing, and Distribution. Each department will have a user, and we will create an SDTM admin user.

Still in the 'Directory' tab of the directory console, select your newly created root suffix, choose from the menu 'Object -> New', and select 'Organizational Unit'. The following screen capture shows these steps.



Assign the name 'People' and click OK, as shown in the following screen capture.

	Create New Organizational Unit	8
Unit * Name: Languages Description: Phone: Fax Alias: Address:	People	
Access Permissions Help	OK Cancel	Help

Sun Desktop Manager Tutorial



Repeat this step to create the 'Factory' top level: again choose 'Object -> New', but now select 'Other'.

In the next screen give your organization the name 'Factory'. In the bottom left you see the dn becoming 'o=Factory,o=desktop'. Be careful with the distinction between creating an organization (o=) and an organizational unit (ou=).

	Generic Editor - o=N	Jew,o=desktop	8
Organization	Factory	View	
	top	Show Attribute Names	
Object class	organization	Show Attribute Description	
		☑ Showonly Attributes with Values ☑ ShowDN	
		Edit	T
		Delete Value	
		Add Attribute	
		Delete Attribute	
		Naming Attribute: o Change	ī
dn: o=Factory,o=desktop		OK Cancel Help	

Create the departments the same way. Select 'Factory' in the tree on the left, then use 'Object -> New' and 'Other'. Name the first department 'Engineering' and the next two 'Manufacturing' and 'Distribution'.



The result is shown on the following screenshot in the tree on the left.

Users are not stored directly under their respective departments but in an 'organizational unit' called 'People'. So you have to create those organizational units under each of the three departments. These are created the same way as the one created under the root suffix. The following images capture these steps.



Unit Languages	* Name: Description: Phone: Fax: Alias: Address:	People	equired field			
Access Permis	sions Help			<u> </u>	Cancel	Help

You are now ready to create actual users.

Select in the tree the 'People' entry under 'Engineering' and 'Object -> New -> User'. Your screen should look like the following screen capture.

Console Edit View	Sun JES Dir Object Help	ectory Server	
Sun <sup>™</sup> JES I Tasks Config	Edit With Custom Editor CtriPP Edit With Generic Editor Search ViewEffective Rights	Version 5.2	
<ul> <li>java.canada.sunt</li> <li>canada.d</li> </ul>	New	User	
o=Netscape	NewRoot Object	Group	
🛁 🕥 cn=schema	Set Access Permissions Otri-L	Organizational Unit	
Chemistry     Chemistry	Set Roles Set Password Policy	Role Class Of Service	
P C Factory	Create Browsing Index	Password Policy Referral	
	Activate	Other	
🗣 🦳 Man	Inactivate	-	
Q → Distr Q → Distr A People ou=People,o=Enginee	ibution People ring,o=Factory,o=desktop		_

In the next screen enter the credentials for Peter Pencil.

<b>A</b>				Phone Fa:
User Languages NT User Posix User Account	* First Name: * Last Name: * Common Name(s): User ID: Password: Confirm Password: E-Mail: Phone: Fax:	Peter Pencil Peter Pencil pencil ******** ******** pencil@factory.com 890-123-4567 * Indicates a required field	(e.g., user@comp	any.com)
Access Darm	ssions Halp		(   Cancel	Help.

Repeat this process to create a Hans Hammer in Manufacturing and a Theo Truck in Distribution. Finally (or first, it doesn't matter) create an SDTM admin in the People 'ou' of 'o=desktop'. If you call this user 'admin' you will have to log in with the full DN. Therefore, it is better call this user something different like 'dadmin'.

	Sun JES Directory Server	000
Console Edit View Object Help		
Sun <sup>™</sup> JES Directory Serve	Version 5.2	
Tasks Configuration Direc	tory Status	
java.canada.sun.com:389 <ul> <li>dc=canada.dc=sun.dc=com (6</li> <li>o=NetscapeRoot (3 acis)</li> <li>cn=schema (5 acis)</li> <li>cn=config (4 acis)</li> <li>o=desktop (5 acis)</li> <li>Factory</li> <li>Factory</li> <li>Factory</li> <li>Engineering</li> <li>Manufacturing</li> <li>Distribution</li> <li>People</li> <li>People</li> <li>vertical People</li> <li>vertical People</li> <li>vertical People</li> <li>vertical People</li> <li>vertical People</li> </ul>	admin	

To take care that the SDTM admin will be able to manage the SDTM setup, we have to give the admin full access rights, but only in the 'o=desktop' tree.

To accomplish that, right-click on the 'o=desktop' entry in the tree and select 'Set Access Permissions' from the menu.

	Sun JES Directory Server 😑 😑	• •		
Console Edit	View Object Help			
TW				
Sun C	Manage Access Control for o=desktop			
Tasks	An Access Control Instruction (ACI) is a set of permissions used to			
java.car ⊙- ─_ dc=	control how and when users can access information. This object is			
0=N	Anonymous access New			
• • • • • • • • • • • • • • • • • • •	Allow self entry modification except for nsroledn ar			
🕒 🔂 CN=	Configuration Administrator			
P 🗀 o=d	Configuration Administrators Group			
Y				
Ŷ				
<u></u>				
	Show Inherited ACIs OK Cancel Help			
ou=People,o=	Factory,o=desktop			

In this pop-up window, click 'New' for the 'Edit ACI' screen.

		Sun JES Dire	ectory Serve	er	⊖ ⊕
•		Edit ACI	for o=deskto	p	Γ×
ACI name:					
Users/Groups	Rights	Targets	Hosts	Times	
The following have	e access pe	rmission:			
Name U	Iser ID E-M	ail			Add
🔺 All Users					Remove
					: I
1	20				
Edit <u>M</u> anually	1		OK	Cancel	Help
		_			

Fill in the ACI name (with something like 'SDTM Admin') and click 'Add'.



On this screen, first click 'Change' to set the 'Search from' to 'o=desktop'. Next, type 'admin' in the 'Search from' field and click 'Search'. The Desktop Admin (uid=dadmin, ou=People, o=desktop) should now appear in the 'Search Results'. Select that user and click the 'Add' button.

Finally click 'OK'.

Sun JES Directory Server	••
Edit ACI for o=desktop	T X
ACI name: SDTM Admin	
Users/Groups Rights Targets Hosts Times	
The following have access permission:	
Name User ID E-Mail	<u>A</u> dd
▲ Desktop dadmin	Remove
Edit Manually OK Cancel	Help

Back on the ACI screen, select the 'Rights' tab.

	Sun JES Directory Server	000
	Edit ACI for o=desktop	I X
ACI name: SDTM	Admin	
Users/Groups	Rights Targets Hosts Times	
Choose what use	ers can do if they have access permission.	
× Name	Description	Check All
<ul> <li>✓ read</li> <li>✓ compare</li> <li>✓ search</li> <li>✓ selfwrite</li> <li>✓ write</li> <li>✓ delete</li> <li>✓ add</li> <li>⊂ proxy</li> </ul>	See the values of targeted attributes. Compare targeted attribute values. Determine if targeted attributes exist. Add one's own DN to the target. Modify targeted attributes. Remove targeted entributes. Add targeted entries. Authenticate as another user.	Check None
Edit <u>M</u> anually	OK Can	cel Help

Nothing needs to change here, but just verify that the ACI has all the read/write rights. Now select the 'Targets' tab.

Users/Groups Rights Targets	Hosts Times			
Target directory entry:       o=desktop       This Entry       Browse				
These attributes are affected for all entries	OID	Check All		

On this screen, click 'Browse' to change the 'Target directory entry' to 'o=desktop'. After a couple of OK's, you are all set. To check if everything went OK, right-click your 'o=desktop' suffix and select 'View Effective Rights' from the menu. Change to 'Other' and then 'Browse' to the dadmin user. Finally click 'Display Effective Rights', which should show all checkboxes selected, except 'Proxy'.

#### **Domains and Servers**

As the Sun Desktop Manager manuals describe, some desktop properties are linked to a person or the individual's place in the organization, but some, like a browser's proxy server, are related to where the desktop is hooked up in the network. Therefore you need a second tree in your directory to store these settings.



Select the root-suffix 'o=desktop' and choose from the menu 'Object -> New -> Other'.

From the pop-up window, select 'ipnetwork' and click OK .



On the following screen give 'ipnetwork' the 'Full name' of your domain and enter the network IP (something like 192.168.1.0 ending with one or more zeroes).

Fullname	factory.com	View
ipnetworknumber	192.168.1.0	Show Attribute Names
Object along	top	Show Attribute Description
Object class	ipnetwork	Showonly Attributes with Values
		V ShowDN
		Fdit
		Add Value
		Delete Value
		Add Attribute
		Delete Attribute
		Naming Attribute: ipnetworknumber Change
	8988	
dn: ipnetworknumber=192.168.1.0,o=des	sktop	

Under this 'ipnetwork', create an organizational unit called Hosts, similar to the People entries in the organization tree.

	Sun JES Dir	ectory Server 😑 🔂	8
Console Edit View	Object Help		
Sun <sup>™</sup> JES   Tasks Config	Edit With Oustom Editor OH P Edit With Generic Editor Search ViewEffective Rights	Version 5.2	
O- C dc=canada,c	New	User	
🕞 🔂 🕞 o=Netscapef	NewRoot Object	Group	
🔵 cn=schema	Set Access Permissions Otri-L	Organizational Unit	
Chemonitor	Set Roles	Role	
<pre></pre>	Set Password Policy Create Browsing Index Delete Browsing Index	Class Of Service	
C Tactory		Password Policy Referral	
	Activate	Other	
	Inactivate		
ipnetworknumber=192	.168.1.0,o=desktop		



Next, select the 'Hosts' entry in the tree and 'Object -> New -> Other'.

Next create an iphost under hosts.



Full name	server	, view
iphostnumber	192.168.1.12	◯ Show Attribute Names
Object class	top	Show Attribute Description
Ubject class	iphost	Show only Attributes with Values
		ShowDN
		Edit
		Add Cation
		Delete Value
		Add Attribute
		Delete Attribute
		Naming Attribute: iphostnumber Change
	99999999999	•
oostoumber=192,168,0,12 ou=Host	ts.ipnetworknumber="	L

Give the host a name and enter the IP address.

Click OK and your domain tree is done.

t Help	
	nsole Edit View Object Help
tory Server Version 5.2	
Directory Status	Tasks Configuration Direc
89 ,dc=com (6 3 acis) s) )	<ul> <li>java.canada.sun.com:389</li> <li>dc=canada.dc=sun.dc=com (6</li> <li>o=NetscapeRoot (3 acis)</li> <li>o=schema (5 acis)</li> <li>cn=monitor (5 acis)</li> <li>cn=config (4 acis)</li> </ul>
a ing	<ul> <li>P → 0=desktop (5 acis)</li> <li>P → Factory</li> <li>P → Engineering</li> <li>P → Manufacturing</li> <li>P → Distribution</li> <li>P → People</li> </ul>
	People 9 192.168.1.0 195.168
	• 192.168.1.0

This example shows only a single level of network domain, immediately followed by hosts. In reality, there will be many levels of domains (for different sites) and maybe even no hosts. When desktops are using DHCP for their IP address, it is little use to enter the hosts in the directory.

This is all you have to configure in the console of the Directory Server.

# **Configuring Sun Desktop Manager**

To continue with the configuration of the Sun Desktop Manager console, log in to your Web Console (https://domain.com:6789/) using a UNIX<sup>®</sup> userid/password, and select Sun Desktop Manager from the Desktop Applications menu. The next page is an empty 'Configuration Repositories' page. Click 'New', which brings up a pop-up to enter the name of the repository. Here we choose 'desktop', but you could also use something more meaningful.

Deskto     New Co	⊯ <sup>https</sup> //f p Man nfigurat	omax 678 ager ion Repo	9 - New Configuration	Repository Wiza	rd - Web Browser	
Steps	Help	1	Step 1: Enter n	ame and type	of repository	
<ul> <li>1. Enter of rep</li> <li>2. [Steps choic step.]</li> </ul>	name and ository determini e(s) in prec	type ed by æding	Enter the name of th and storage options: * Repository Name: Repository Type:	e new configuration to use. desktop LDAP: LDAP Hie	n repository and sele	ect the hierarchy ates required field
			Previous Next	D		Cancel
۵	Ø 👸	œ Do	ne			

Click 'Next' and enter the hostname of your LDAP server and 389 as the portnumber. Again, click 'Next' and for step 3 select 'o=desktop' as the BaseDN.

•	🙀 https://forna	x:6789 - New Configuration Repository Wizard - Web Browser 🦷 🗖 🗙
Deskto	p Manag	er
New Co	nfiguration	Repository Wizard
Steps	Help	Step 3: Select Base DN
1. Enter of rep	name and type ository	The list below contains all the Base DNs available on the specified LDAP Server. Select the Base DN to be used for this Configuration Repository.
2. Enter	LDAP details	Select BaseDN: c=desktop
→ 3. Select	t Base DN	
4. Enter crede	LDAP intials	
5. [Steps choic step.]	s determined by e(s) in precedir	g
		Previous Next Cancel
۲	🧭 📇 e2	Done

At step 4 and 5 you can leave the defaults as they are, but for step 6 enter 'uid=dadmin,ou=People,o=desktop' as the Administrator DN.

Nev	v Configuration Re	pository Wizard
St	eps Help	Step 6: Enter LDAP Administrator credentials
1. 2. 3. 4.	Enter name and type of repository Enter LDAP details Select Base DN Enter LDAP credentials	The configuration procedure will require extension of the LDAP schema and the addition of a new branch in the LDAP tree. Therefore, the DN and password of a user with suitable access rights to the LDAP server must be provided in the "Administrator DN" and "Administrator Password" fields. * Indicates required fination of the temperature of temperature of the temperature of temperature
5.	Choose default or custom LDAP metaconfiguration	
→ 6.	Enter LDAP Administrator credentials	Previous Next Cance

On the next screen review your results and you should see the following screen, indicating that all went well.



Click 'Close' and you're back on the 'Configuration Repositories' screen, which will show the 'desktop' repository. Click on the name and you will be asked to log in. This time, use the 'dadmin' userid as you created in the Directory Server.

This will open the Sun Desktop Manager console that shows the domain and organization tree you built with the Directory Server console. See the following screen capture for reference.



Switch from 'Profiles -- Tree View' to 'Profiles -- All' and create a couple of Domain Profiles and Organization Profiles. In the former, change Mozilla's proxy server, and in the latter, change the GNOME display background image.

Content Area Frame - Web Browser							
<u>F</u> ile <u>E</u>	dit ⊻iew <u>G</u> o <u>B</u> ookmarks <u>T</u> o	ols <u>W</u> indow	<u>H</u> elp				
G,	) 🕥 🕥 搔 htt	ps://java.can	ada.sun.com:6789/a	poc/mar	ager/Onepane?Onepa Go Search	8. 🔮	
🐒 Hoi	me 🖹 Bookmarks						
eposito	ories > desktop				51	m" Microsystems, inc.	
Profi	les - Tree View Profiles						
11011	ies - free tien - fromes						
All Do	omain Profiles (2)	- •	_	-			
28	Name	*	Author	۵	Last Modified	<u>م</u>	
	FactoryProfile				2006.03.21 03:08:31 MST		
	WarehouseProfile				2006.03.21 03:08:09 MST		
All O	rganization Profiles (4)		_		- dffind		
	AdmProfile	Author	۵	2006.03.21.03:08:44 MST		<u> </u>	
	DtrProfile	-		2006.03.21 03:09:26 MST		_	
		-		2006.0			
Γ	EngProfile						
	EngProfile MfgProfile			2006.0	3.21 03:09:14 MST		
	EngProfile MfgProfile			2006.0	3.21 03:09:14 MST		

Back in the directory console, you see that SDTM has added a 'services' entry to your suffix in which it stores a tree with configuration information. This will repeat itself at various levels when you assign profiles to organizations, users, or domains.



In the SDTM console, select Engineering in the tree on the left, click 'Assign Profile' on the right and choose 'EngProfile'. This profile will now be used for Peter Pencil and all his colleagues in the Engineering department.



000 Sun Desktop Manager 1.0 Beta - Web Browser M \_ <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>G</u>o <u>B</u>ookmarks <u>T</u>ools <u>W</u>indow <u>H</u>elp S S S S Attps://java.canada.sun.com:6789/apoc/manager/Threepane C Go Search ₹. ۞ Home Bookmarks LOG OUT HELP User: sun Server: j () Java Sun Desktop Manager 1.0 Beta Repositories > desktop Profiles - Tree View Profiles - All Search 192.168.1.12 This tab page lists the content of the selected element. >> More on Profiles 🕶 🛄 Domains + 192.168.1.0 Effective Settings... 192.168.1.12 Assigned Profiles (0) 🕈 🗂 Organizations 👻 😫 Factory New... Delete... Assign Profile... Unassign Profile - More Actions - 💌 👻 🍰 Distribution Name Truck, Theo [truck]
 Engineering Author Last Modified There are no profiles assigned. Pencil, Peter [pencil]
 Manufacturing
 Hammer, Hans [hammer] Inherited Profiles (1) Admin, SDTM [dadmin] Name Assigned To FactoryProfile Domains / 192.168.1.0 Done Pd Done 11: ~ A

In the same way, assign the 'FactoryProfile' to server 192.168.1.12.

Assign the 'AdmProfile' to the SDTM admin.

<u>H</u>	Sun Desktop Manager 1	.0 Beta - Web Brow	ser		•••	
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When you finally switch back to the DS console, you can explore the combination of what you configured yourself and what was added by the SDTM Web Console.



# Wrap-Up

As we mentioned in the beginning, this interactive way of configuring the directory is not a scalable method suitable for adding and configuring thousands of users. However, it is a good starting point to see what needs to happen. The logical next step is to export what you configured into an LDIF file (see the example LDIF file available from BigAdmin). Exporting is easiest when done from the Directory Server console under the 'Tasks' tab (refer back to the second screen capture).

If you want to use this LDIF file as the starting point for your larger Sun Desktop Manager deployment, you have to be careful when to take this snapshot. You could choose to do it after the organizations, users, and domains are configured but before the SDTM console has added the 'services' entries, in which case your LDIF scripts will only create users but not assign profiles. Or you could take your snapshot at the end, resulting in a more complex LDIF file, but with the opportunity to have your scripts do the SDTM profile assignments as well.