

White Paper

product brief

IDM Toolbox



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About this document

This document summarizes the functions of the product "IDM Toolbox".

Audience

This guide is intended for consultants and administrators designing and maintaining existing NetIQ Identity Manager environment. You should have an understanding of drivers, workflows, eDirectory and the IDM Designer tool.

Feedback

We appreciate your comments and suggestions about the PowerRole drivers and this manual. If you have any suggestions, comments, feature requests please contact us via info@skypro.ch.



1 Introduction

The IDM Toolbox is a powerful tool for consultants, project manager and system administrators. The IDM toolbox consists of a rich set of functions covering the following tasks:

- 1. Design (drivers, forms, mails)
- 2. Analyzing
- 3. Data Migration & Modification
- 4. Documentation (driver, workflow, DAL, schema)
- 5. Translation (workflow)
- 6. Acceptance (project, driver, workflow)
- 7. Collaboration (versioning, data exchange)
- 8. Testing (under development)

With the help of the IDM Toolbox a consultant is able to define together with the customer detailed driver specifications, workflow forms and mail templates. These specifications can be deployed directly in to your IDM system and imported into designer. The developer can start building the driver based on these specifications. He doesn't need to start with building event filters, attribute mappings etc. because these definitions are already there, but continues the consultants work with adding the logical functions like content conversions or placement rules. The developer directly benefits from the consultants work.

With the trace file analyzer function, project managers and system administrator obtain a very powerful tool to analyze driver trace files. The analyzer visualizes in comprehensible tables and graphics all events that have been processed by the different drivers. You see how many successes, warnings or errors occurred on a specific period of time or within different days of the week.

The directory cloner enables you to copy complete subtrees with all objects and attributes from one directory as a source to another directory as the target. Within minutes you're able to copy thousands of objects from your productive environment in to your staging, test or development area. This way test environments can be loaded with live data to build real test scenarios.

The IDM Toolbox is a Java based application and runs on any Java supported platform. The client is completely browser based so you can use Internet Explorer, Firefox, Safari or Chrome.



2 Installation

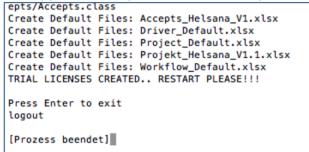
The installation process is easy and straight forward.

- 1. Copy the provided zip file into your program folder
- 2. Unzip the file
- 3. Start the java application depending on your operating system:

Windows:	run.cmd
Linux:	start.sh
Mac:	start.command

Note the port the application is running on (default 3190)

4. The application unpacks itself and stops.



- 5. Close the terminal window and restart the program.
- 6. Start your preferred browser
- 7. Enter <u>http://localhost:3190</u>
- 8. Accept the info boxes
- 9. Be aware of the trial license expiration date

Modules	Licensed till
Accepts	TRIAL 2014-10-01
CloneDir	TRIAL 2014-10-01
Driver	TRIAL 2014-10-01
Driver Design	Free
Driver Docu	TRIAL 2014-10-01
Form Design	Free
Log Analyzer	TRIAL 2014-10-01
Mail Design	Free
Schema Documentation	TRIAL 2014-10-01
Workflow Translator	TRIAL 2014-10-01

10. You now may go to settings and change the port number, name your Toolbox and set a username and password to enter the toolbox.

Have fun.



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3 Design Tools

3.1 Driver Design

The driver designer enables the consultant to specify drivers offline together with the customer in a way the customer understands the main synchronization concepts (publisher/subscriber) and attribute mappings of a driver.

Schema / Attribute Mapping:

Meta-Class	User			Dest-Class	User					C
Filter	workforceID NOT en	npty		Association	GUID	0				
Meta-Place	/users/data			Dest-Place	/use					
Notes				Dest Hace	/use			1		
From Meta	1	Create				Modify				
Matching		email Address								
Create		surname and GiveName N	OT empty							
Placement		ou=users,dc=utopia,dc=n	etiq,dc=cor	m					1.	
Description		create user				Modify mapped attrib	outes			
Description R	ename Move Delete	On change of surname or On delete -> delete in targ	GivenName get system	e -> rename in ta	rget sy	ystem			1.	
To Meta		Create				Modify				
Matching		not synched to Meta							/_	
Create									1.	
Placement						~				
Description										
Description R	ename Move Delete								1.	
🕄 Metadire	ctory Attribute	Sync	Targ	etsystem Attribut	te		Len	Match Must]	
Surnam	e	_ <<>	>> 🗹 🛛 last	tname						
	content in the Metadi	rectory / Targetsystem						_		
Müller			Mül	ler						
Notes										
🕄 Metadire	ctory Attribute	Sync	Targ	etsystem Attribut	te		Len	Match Must		
Given N	ame	_ <<>>	≻> 🗹 🛛 first	tname						
Example	content in the Metadi	rectory / Targetsystem								
Stephan			Cha	phan						

picture 1: interactive driver design

The elaborated driver definition can be used to create a real driver skeleton. The generated driver already holds all basic driver policies like filter, attribute mapping, notes. You can directly deploy the driver in a real IDM environment. The developer can import this driver into its Designer environment and start adding missing policies like value conversion, placement policies etc.

The developer may reuse the driver documentation objects like "driver-infos", "driverclasses" or "driver-attrs", that have been created by the toolbox to keep the driver documentation up to date all the time.

To finalize the documentation you can reimport the driver into the IDM Toolbox and generate the driver documentation.



3.2 Form Design

The form designer allows the interactive design of workflow forms together with the customer. It offers all the visualization tools (textfield, radio picklist, checkbox, multi value selectlist etc.) that are also available in the Designer to create workflows. You can export the form and import it into Designer. The developer doesn't have start with recreating the form but starts directly with adding the needed logical functions to the workflow.

Workflow Formname: Request	AD Share			
Addons Preview				
Request AD Share	8	Title / La	bel	8
Select Share and Drive you want to reque	-	Subtitle / Su	ıblabel	0
Share	Q	DN Display:	DN zum Anzeigen	8 8
H: I:		Text Feld:		8
Drive J:	8	Objekt Feld:		X 🕄
Checkboxen: Option1 Option2	0	Password:		8
Request Cancel	8	Textarea:		8
Properties	×		4	
Label			Radio1 Radio2	8
		Checkboxen:	Option1 Option2	8
		Picklist:	Click here to select a value \$	8
Values		Multi Value Picklist		X 8
		Multi Value Selectlist		8
		HTML	HTML Quelltext	0
		 	submit cancel	8

picture 2: Interactive form design

3.3 Mail Design

The mail designer component gives the consultant the ability to create mail templates together with the customer. These templates can be imported into Designer. The developer does not have to create any mail templates but can just integrate these mail templates into the workflows.

Template Name: Request Confirmation	
Send Mail as HTML	Tokens:
	\$\$firstname\$\$ \$\$lastname\$\$
Subject: Your request has been approved	\$\$request\$\$ \$\$approver\$\$ //
B I U ABC ≣ ≣ ≣ Styles • Paragraph •	
田田 華 律 *1 🤍 🔍 🕬 👾 😃 💆 🟈 💷	
$-2 \equiv \mathbf{x}_{1} \mathbf{x}_{2} \Omega$	
Dear \$\$firstname\$\$	
Your request for \$\$request\$\$ has been approved by \$\$approver\$\$.	
Wish you a great day.	
Your IAG Team	

picture 3: Interaktive mail template design



4 Driver Testing (under development)

This module allows the interactive testing of all objects, attributes and events, that have been defined in a driver.

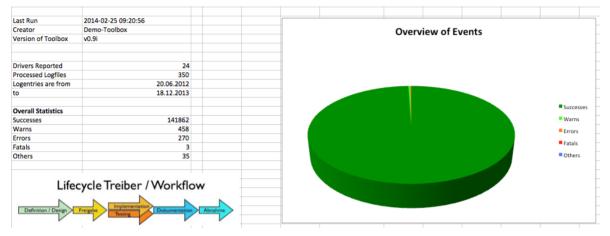
Under Development!



5 Analyze

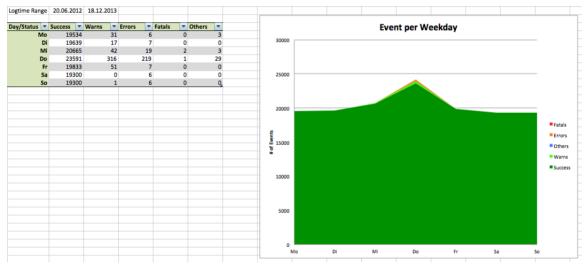
5.1 Trace File Analyzer

The trace file analyzer analyzes a set of driver trace files for successes, warnings and errors. It creates a summary of the processed trace files. The summary shows the total amount of processed trace files, the date range of the trace entries and the total amount of successes, warnings and errors that have been found in the provided trace files.



picture 4: Trace file analyzer summary

A week statistic is provided to see if errors may happen on specific days of the week.

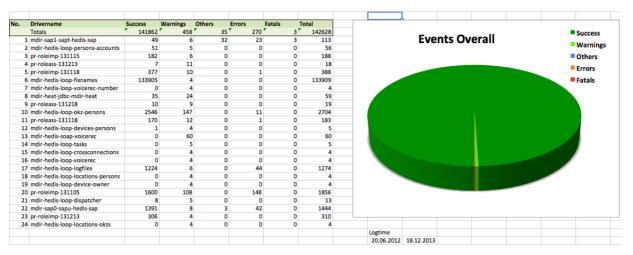




A summary of all events per driver visualizes the workload and reliability of each driver.



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picture 6: driver summary

Errors within drivers will be summarized by error code. This view reduces the amount of errors to the real causes of the errors.

• 💌	Drivername	T Co	unt	-	Errortype 💌	Date/Time	Message
1	mdir-sap1-sapt-hedis-sap			2	FATAL	10/16/13 14:20:58.874	com.novell.nds.dirxml.remote.ConnectionClosedException: Connection was closed
2	mdir-sap1-sapt-hedis-sap			1	FATAL	10/17/13 13:40:12.830	java.net.ConnectException: Connection refused: connect
3	mdir-sap1-sapt-hedis-sap			16	ERROR	10/16/13 14:29:42.987	<description>BAPI_USER_CREATE1 : com.novell.nds.dirxml.driver.sapumshim.BapiExe</description>
4	mdir-sap1-sapt-hedis-sap			2	ERROR	10/16/13 14:28:11.290	<description>BAPI_USER_CREATE1 : com.novell.nds.dirxml.driver.sapumshim.BapiExe</description>
5	mdir-sap1-sapt-hedis-sap			1	ERROR	10/17/13 15:37:53.000	<description>BAPI_USER_LOCK : com.novell.nds.dirxml.driver.sapumshim.BapiExcept</description>
6	mdir-sap1-sapt-hedis-sap			1	ERROR	10/17/13 14:11:58.635	<description>BAPI_USER_CHANGE : com.novell.nds.dirxml.driver.sapumshim.BapiExc</description>
7	mdir-sap1-sapt-hedis-sap			2	ERROR	10/17/13 16:12:53.852	<description>BAPI_USER_CHANGE : com.novell.nds.dirxml.driver.sapumshim.BapiExc</description>
8	mdir-sap1-sapt-hedis-sap			1	ERROR	10/16/13 14:24:28.350	<description>BAPI_USER_GET_DETAIL : com.novell.nds.dirxml.driver.sapumshim.Bap</description>
9	mdir-sap1-sapt-hedis-sap			1	RETRY	10/17/13 16:15:29.587	Code(-9006) The driver returned a "retry" status indicating that the operation should
10	mdir-sap1-sapt-hedis-sap			31	RETRY	10/16/13 14:21:00.090	Code(-9006) The driver returned a "retry" status indicating that the operation should
11	pr-roleimp-131118			1	ERROR	12/12/13 18:00:19.719	Code(-9000) Element <value> specified bad attribute value. 'string' was specified, 'str</value>
12	mdir-hedis-loop-okz-persons			2	ERROR	06/21/12 09:05:33.820	Code(-9061) Error processing XSLT policy: vnd.nds.stream://HMDT/system/dirxml/ds
13	mdir-hedis-loop-okz-persons			4	ERROR	07/04/12 13:01:16.561	Code(-9039) Element <modify> does not have a valid association.</modify>
14	mdir-hedis-loop-okz-persons			2	ERROR	06/20/12 13:34:13.871	Code(-9208) Error: attribute 'hdsOKZManager' not in schema.
15	mdir-hedis-loop-okz-persons			2	ERROR	06/21/12 09:10:59.765	Code(-9010) An exception occurred: java.lang.NullPointerException at com.novell.x
16	mdir-hedis-loop-okz-persons			1	ERROR	06/20/12 13:30:06.441	Code(-9010) An exception occurred: novell.jclient.JCException: nameToID -601 ERR_N
17	pr-roleass-131118			1	ERROR	12/13/13 08:29:48.321	Code(-9205) Error in vnd.nds.stream://UTOPIA-TREE/system/driverset1/pr-roleAss-1
18	mdir-hedis-loop-logfiles			44	ERROR	10/16/13 00:01:00.614	Code(-9010) An exception occurred: novell.jclient.JCException: modifyEntry -608 ERR
19	pr-roleimp-131105			1	ERROR	11/19/13 14:56:14.022	Code(-9066) Unable to open trace file /var/log/dirxml/history/hist-20131119-001.log
20	pr-roleimp-131105			147	ERROR	11/14/13 16:32:45.629	Code(-9010) An exception occurred: novell.jclient.JCException: nameToID -601 ERR_N
21	mdir-sap0-sapu-hedis-sap			36	ERROR	10/17/13 14:06:49.802	<description>ChangePassword : com.novell.nds.dirxml.driver.sapumshim.BapiExcept</description>
22	mdir-sap0-sapu-hedis-sap			1	ERROR	10/10/13 12:45:05.186	<pre><description>BAPI_USER_CHANGE : com.novell.nds.dirxml.driver.sapumshim.BapiExc</description></pre>
23	mdir-sap0-sapu-hedis-sap			1	ERROR	10/10/13 10:54:06.424	<pre><description>BAPI_USER_CHANGE : com.novell.nds.dirxml.driver.sapumshim.BapiExc</description></pre>
24	mdir-sap0-sapu-hedis-sap			1	ERROR	10/10/13 10:40:23.804	Code(-9031) Global Configuration Value 'SAP-group' not found: vnd.nds.stream://HM
25	mdir-sap0-sapu-hedis-sap			1	ERROR	10/10/13 13:05:51.392	java.lang.NullPointerException
26	mdir-sap0-sapu-hedis-sap			1	ERROR	10/10/13 14:10:09.724	Code(-9188) Error in vnd.nds.stream://HMDT/system/dirxml/dsPROV/mdir-sap0-sap
27	mdir-sap0-sapu-hedis-sap			1	ERROR	10/10/13 12:22:59.623	<description>BAPI_USER_CHANGE : com.novell.nds.dirxml.driver.sapumshim.BapiExc</description>
28	mdir-sap0-sapu-hedis-sap			3	RETRY	10/14/13 09:11:24.542	Code(-9006) The driver returned a "retry" status indicating that the operation should

picture 7: Trace file analyzer error summary



6 Data Migration & Modification

6.1 Directory Cloner

The directory cloner copies objects (container, user, group etc. free choice of objects types) from one source directory to a chosen target directory. This function is very useful to copy data from a productive environment into a test environment. Because the directory cloner uses a special multi stage copy process, it can also copy group memberships, dynamic membership queries, role associations etc.

The directory cloner allows the definition of mandatory attributes per class that have to be valued. Otherwise objects won't be copied. In addition you can specify attributes per class, that mustn't be copied. Specific attributes can be defined to be copied on a binary base so their content won't be touched.

A regex expression editor allows the free definition of regex rules how objects and their attribute values may have to be transformed.

Settings to Clone Data from a Directory to another

Portal \$	Source Directory	Dummy \$	Destination Directory
S PASS 1 / 2 - Clo	ne Base Objects 💷	🗹 Trim the DN's 🛅	
S PASS 2 / 2 - Clo	ne Operational Data 🛄	Sort the DN's 🗾	
Mandatory Attributes	5:		
objectClass,cn,surn	ame,ou		
Suppress Attributes:			
user mobile			1
Copy Attributes:			
IdapPhoto			
DN's to Clone: 🛄			Regex for Datamod:
"cn=Yulia,ou=Users "cn=wwwrun,ou=OS, "cn=wwwrun,ou=OS, "cn=wwrou=OS,ou=Se "cn=Vlado,ou=Use" "cn=Vitaliy,ou=Use" "cn=Vitaliy,ou=Use" "cn=Users,cn=Help "cn=usdemo,ou=Us" "cn=uatest09,ou=U "cn=uatest09,ou=U "cn=uatest09,ou=U "cn=uatest09,ou=U "cn=uatest07,ou=U "cn=uatest04,ou=U "cn=uatest04,ou=U "cn=uatest04,ou=U "cn=uatest02,ou=U" "cn=uatest02,ou=U"	ce,ou=Users,o=CHAM" ;,o=CHAM" ES,ou=Resourcen,o=CHAM" ervice,ou=Users,o=CHAM" ervice,ou=Users,o=CHAM" ervice,ou=Users,o=CHAM" rs,o=CHAM" isers,o=CHAM" Desk Management,cn=RBS,o= sers,o=CHAM" isers,o=CHAM" isers,o=CHAM" isers,o=CHAM" isers,o=CHAM" isers,o=CHAM" isers,o=CHAM" isers,o=CHAM" isers,o=CHAM" isers,o=CHAM" isers,o=CHAM" isers,o=CHAM"	=CHAM"	/ou=Users,o=CHAM/ou=User s,o=ZUG/
"cn=Thomas,ou=Us "cn=Tetyana,ou=Us "cn=TestUser001.or			
en=rescoseroo1,or		/	

Clone Data

picture 8: Directory Cloner



6.2 Object Modifier

The object modifier is a very powerful function to do mass modifications on any directory object. You can safe your mass modification parameters to reuse them at any time. Define a base DN to start with and a filter to select the object you want to modify. You can retrieve the objects from your directory to test your filter.

Define the object class, attribute and a value filter for the content of the object you want to modify. For the value filter you can use any regex expression, which are very powerful. You can add new content, replace existing content or delete content. The content can be defined by any java script expression. Just enter "result=" with a value or call your java script function you have entered in the java script field.

Object Mod	ifier Modify Log	
Settings	Add Description - 2014-09-01 15:41:12 Cave as	
Directory	SKyPRO live \$	
BaseDN	ou=users,o=cham	Check DN
Filter	cn=*	VCheck Filter
DNs 🔨	Retrieve DNs from BaseDN / Filter	
Add Act	ion	
Objectcla	ss organizationalPerson Attribute description Value Filter	•
Operation		
JavaScrip	result="new description"; t	4
Dry Run	Run	

picture 9: object modifier

With a "dry run" you can test your object modification definition against the directory before you start the real "run".



7 **Documentation**

7.1 **Driver Documentation**

The IDM Toolbox generates complete driver documentations in form of an Excel sheet. The documentation contains general driver information, that have already been defined by the consultant during the conceptual phase as well as detailed information about the driver channels with synchronized attributes, example values, event handling and specific notes.

Red Hat	t in the second s			Eve	ents			SuSE
Klasse	NDS-Attribut	System-Attr	<<	Pub	Sub	>>	Beispiel	Notizen
User	uniqueID	LOGIN		x	IUS	>>	EX0KY ex0ky	Alle Lowercase machen?
User	givenName	FIRST		x	IUS	>>	Thomas Thomas	
User	Surname	LAST		x	IUS	>>	Müller Müller	Need Conversion?
User	nspmDistributionPassword	PASSWORD		x	IUS	>>	****** *****	
User	ου	ORGUNIT		x	IUS	>>	IIZ IIZ	
							thomas.mueller@helsana.ch	
User	Internet EMail Address	EMAIL		x	IUS		thomas.mueller@helsana.ch	
User	nrfAssignedRoles	ROLES		x	IUS	>>	BER_360-UNIX-Account	Minimum zum erstellen des Accounts
nrfRole	hdsRoleOrigName	ROLE	<<	IUS	x		FIXME FIXME	Muss noch genau angeschaut werden
nrfRole	CN	ROLE	~~	IUS	x		BER_360-UNIX- <role> <role></role></role>	Wie wo was FIXME

Legende: Attribute

Events:

(I)nsert/Add | (U)pdate/Modify | (D)elete | (S)ync (M)ove | (R)ename | (T)rigger | (X)No Event

picture 10: driver documentation

7.2 **DAL** Documentation

Identity Managers UserApplication driver can directly be imported into the IDM Toolbox. The Toolbox generates a complete documentation of all DAL definitions, parameters, workflows even java scripts used in workflows.

Entity Properties: system: false editable: true	viewable: true creatable: true	protected: true	removable: true							
Object Classes:										
LDAP	NDS	Add	Aux	Protect	Search					
inetOrgPerson	User				true					
srvprvUserAux	srvprvUserAux	true	true	true	false					
Attributes:										
KEY	LDAP	NDS	Display	Class	Туре	Optic				
FirstName	givenName	Given Name	Vorname		String	1 2	4 5	-	789	
LastName	sn	Surname	Nachname		String	1 2	4 5	6	789	
Title	title	Title	Titel		String	1 2	4	6	8 9	
Department	ou	ou	Abteilung		String	2	4	6	89	
Location	1	L	Region		String	2	- 4	6	89	
Email	mail	Internet EMail Address	Email		String	1 2	4 5	6	89	
manager	manager	manager	Manager		DN	1 2	4 5	6	89	
group	groupMembership	Group Membership	Gruppe		DN	12	4 5	6	89	
TelephoneNumber	telephoneNumber	Telephone Number	Telefonnummer		String	12	4	6	89	
UserPhoto	photo		Benutzerfoto		Binary	1 2	34	6	9	
directReports	directReports	directReports	Direkt unterstellt		DN	12	4 5	6	89	
srvprvQueryList	srvprvQueryList	srvprvQueryList	Abfrageliste	srvprvUserAux	String	1 2	5	6		
srvprvHideAttributes	srvprvHideAttributes	srvprvHideAttributes	Liste der verborgenen Attribute	srvprvUserAux	String	1 2	4 5	6		
NotificationPrefs	srvprvNotificationPrefs	srvprvNotificationPrefs	Bevorzugte Benachrichtigung	srvprvUserAux	String	12	4 5	6	9	
srvprvUserPrefs	srvprvUserPrefs	srvprvUserPrefs	Benutzereinstellungen	srvprvUserAux	String	1 2	5	6		
Options: 1 editable 6 readable	2 enabled 7 required	3 hideable 8 searchable	4 multivalue 9 viewable	5 protected						

picture 11: Directory Abstraction Layer (DAL) documentation

7.3 Workflow Documentation

After importing the UserApplication driver into the IDM Toolbox you can generate a complete documentation of each workflow within the driver. For each workflow a separate Excel sheet is generated to document the workflow. The Excel sheet documents all forms (request and approval forms), every field, field properties and localizations, all activities and their properties as well as all data items used in the workflow.



11.02.16

IDM Toolbox

nformatione	n:	Description:	Rollengenehmigung				
		Kategorie:	nrf	1			
		Flowstrategie:	SingleFlow				
		Grant:	TRUE				
		Revoke:	FALSE	-			
		Status:	Active				
Request Field	lo.						
orm	Name	Datatype	Controltype	Displayname Default	Displayname De	Displayname Fr	Displayname It
equest_form	title	buttutype	Title	Role Approval	Rollengenehmigung	Approbation du rôle	Approvazione ruolo
request_form	subheading		Title	Press 'Submit' to request the entitlement.	Wählen Sie 'Senden' zum Anfordern der Berechtigung.	Cliquez sur 'Soumettre' pour demander le droit.	Fare clic su 'Invia' per richiedere l'autorizzazione.
request form	nrfRequestDN	dn	Text	Request DN	Anforderungs-DN	DN de requête	DN richiesta
Request Data	a Items:						
lame	Datatype	Source	Target	Targettype			
rfRequestDN	dn		flowdata.nrfRequest/DN	single-value			
Approval Fiel	OS: Name	Detetar	0				
		Datatype	Controltype	Displayname Default	Displayname De	Displayname Fr	Displayname It
pproval_form	title	Datatype	Title	Displayname Default Role Approval	Displayname De Rollengenehmigung	Displayname Fr Approbation du rôle	Displayname It Approvazione ruolo
		Datatype					
pproval_form	title	dn	Title	Role Approval Please select the appropriate button to approve or reject the	Rollengenehmigung Bitte wählen Sie die entsprechende Schaltfläche zum Genehmigen oder Ablehnen der	Approbation du rôle Sélectionnez le bouton approprié pour approuver ou refuser la	Approvazione ruolo Selezionare il pulsante appropriato per approvare o
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picture 12: workflow documentation

7.4 Schema Documentation

With the schema documenter you generate a very comprehensive Excel sheet that visualizes the detailed configuration of specific object classes you want to document. Each class will be documented in separate tabs including class flags, subclasses, mandatory and optional attributes. Each attribute is documented with its type, flags and length.

<u> </u>	Schema - Documentation	Us	ser									
E	every Class has its own Classbox.	Fla	ags									
0	Only the Classes and Attributes are		Effective Class									
• 1	sted and documented here, that		Non Removeable									
a	re exported from the Designer as											
	Schema-File.	Su	ubclass									
1	o Export a Schema-File ".sch"		Organizational Person									
L . (Open the Designer right-klick on the											
• \	ault Object and there choose:	Ma	MayContain									
5	Schema -> Export		Password Unique Required	Boolean	SY,SV,NR							
	· · · · ·		manager	DN	SY							
	Legende Attributes Flags		SAS:SecretStore	Boolean	SY,SV							
SY	Imediatly Synced		Network Address Restriction	Net-Address	SY,NR							
SI	Sized		Server Holds	Hold	SY,NR							
FI	Fixed		SAS:Service DN	DN	SY,SV,SR							
ST	String		Account Balance	Counter	SY,SV,NR							
PU	Public Readable		Login Intruder Address	Net-Address	SY,SV,NR							
SV	Single Valued		RADIUS:Concurrent Limit	Integer	SV							
HI	Hidden		Private Key	Octet String	HI,SY,RF,SV,NR							
RF	Read Filtered		homePhone	TelNr	ST.SY							
NR	Non Removable		SAS:SecretStore:Key	Octet String	HI,SY,SV							
MA	Write Managed		preferredLanguage	CI String	ST,SY,SV							
			sssServerPolicyOverrideDN	DN	SY,SV							
	Legende Attributes Types		SAS:PKIStore:Keys	Octet String	HISY							
CI	Case Ignored		Given Name	CI String	ST,SY,SI,NR,PU	1<32						
NU	Numbered		userCertificate	Octet String	SY,PU							
CE	Case Exact		Timezone	Octet String	SV,NR,PU							
	•		carLicense	CI String	ST,SY							
© 2	012 ToolBox by Thomas Bucher		sssProxyStoreKey	Octet String	HI,SY,SV							
	2014-01-22 18:10:51		Last Login Time	Time	SV,NR							
			Login Grace Limit	Integer	SY,SV,NR							
			employeeType	CI String	ST,SY							
			RADIUS:Service List	Tag-Name-String								
			homePostalAddress	Postal Adsress	SY							
			uniqueID	CI String	ST.SY.SI,NR.PU	1<64						
			Profile	DN	SY,SV,NR							
			Home Directory	Tag-Name-String	SY,SV,SI,NR	1<255						
			Public Key	Octet String	SY,RF,SV,NR,PU							
			Profile Membership	DN	SY,MA,NR							
\square			RADIUS:Password	Octet String	SV							

picture 13: schema documentation



8 Translation

8.1 Workflow Translator

The workflow translator generates an Excel sheet with all localized strings that exists within a workflow for the selected languages. This Excel sheet can be processed internally to complete all missing localized strings. The final sheet is reimported into the IDM Toolbox and the localized strings will be deployed into the workflow.

Workflow DN	Formularnam 💌	Formt 💌	Feldname	en	-	de	• 1	fr 💌	it	-
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	instructions1	Choose a department						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	summary1	summary1						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	department	Department						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	emailSearch	email search						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	instructions2	Choose a user						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	user	User						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	runSearch							
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	instructions3	User Information						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	fname	First Name						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	Iname	Last Name						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	title	Title						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	region	Region						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	birthday	birthday		Geburtstag				
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	RegisterNr	RegisterNr.		RegisterNr.				
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	email	E-Mail Address						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	userdepartment	t Department						
cn=SendOTP,cn=RequestDefs,cn=AppConfig,cn=User Application	request_form	Request	SubmitAction	Send OTP		OTP senden				

picture 14: workflow translator



9 Acceptance

9.1 Project

IDM Toolbox can create different acceptance documents in form of an Excel sheet for the customer to sign. The Excel sheet contains tabs for a project cover sheet, acceptance protocol, decisions and issues.

You can create your own Excel templates to customize the acceptance sheet to your corporate identity look & feel.

sKyP7Ç	SKyPRO AG Gewerbestrasse 7 CH-6330 Cham Switzerland	Tel.: +41 741 4770 Fax: +41 741 5071 Mail: info@skypro.ch www.skypro.ch
Project Acc	ceptance	
Project:	Enterprise Directory	
Creator: Version:	John Harris 1.0	
Date:	2014-03-31 14:57:54	
Created by:	Andy Toolbox v0.9k	

picture 15: Project Acceptance Sheet

9.2 Driver

For each driver in the IDM Toolbox you can create a driver acceptance sheet. You can define your own Excel templates to customize the driver acceptance sheet to your corporate identity look & feel.



SKy אסר Driver Acceptance

Driver

Driver Infos	Values	
Source	SuSE	
System	sadfds	
Target	Red Hat	
DNS Name or IP	192.168.0.135	
Table		
User	root	
Password	*****	
Contact	Reto Gantenbein IIZ	
Title	LinuxIPA	
Drivername	cn=LinuxIPA	
Version of the Driver	0.1	
Last Changes on Driver	Thomas Bucher	
Change of the Driver	Thomas Bucher	
Driver Status	DEVELOPMENT	
Integrated System ID		

Project		
Project name	Enterprise Directory	
Project leader	John Harris	
Client	Global Insurance	
Date	2014-03-31 15:22:39	
Employees	Mike, Harry, Peter	
Goals		
Last Run	2014-03-31 15:22:39	
Version of the TB	v0.9k	
Name if the TB	Andy Toolbox	
Year		2014
Month		3
Day		31
Time	15:22	
Fields are feeded from	the Form	
ricido di checaca il oli	ut of the Tab "template"	
The Port is created of	at or the rabiliteriplate	
Go for Enterprise RBA	с	

picture 16: Driver Acceptance Sheet

9.3 Workflow

SKy PRØ

Workflow

For each workflow in the IDM Toolbox you can create a workflow acceptance sheet. You can define your own Excel templates to customize the workflow acceptance sheet to your corporate identity look & feel.

Workflow Acceptance

Project		
Project name	Enterprise Directory	
Project leader	John Harris	
Client	Global Insurances	
Date	2014-03-31 15:27:13	
Employees	Mike, Peter, Harry	
Goals		
Goals		
Last Run Version of the TB	2014-03-31 15:27:13 v0.9k	
Name if the TB	Andy Toolbox	
Year		201
Month		
Day Time	15:27	3
Fields are feeded from the Form		
The Form is created out of the Tab "template"		
Go for Enterprise RBAC		

picture 17: Workflow Acceptance Sheet



10 Collaboration

10.1 Versioning

The IDM Toolbox always keeps track of every version of drivers, workflow or mail templates object that has been created or modified.

Objects stored in the Toolbox:

Refresh							
Show 10 + entries						Searc	:h:
Name	¢	Туре	¢	Timestamp	Ŧ	Version 🗘	Commands
Bestellung neue Rolle		Formular Design		2013-10-31 15:46:34.0		4	ρ
cn=LinuxIPA,cn=idmDriverSet,ou=idm,o=system		Driver		2013-10-31 15:23:07.0		3	\wp
cn=LinuxIPA,cn=DS,ou=dummy,o=dummy		Driver		2013-10-31 15:16:33.0		1	ρ

picture 18: Versioning

At all time you can step back to any version of a driver or template that has ever existed.

Versions of the Inspected Object:

Show 10 + entries				Search:
Name \$	Туре	Timestamp	\$ Version *	Commands
Bestellung neue Rolle	Formular Design	2013-10-31 15:46:34.0	4	우 🔜 💼 😂
Bestellung neue Rolle	Formular Design	2013-10-31 15:45:01.0	3	우 昆 🖷 😂
Bestellung neue Rolle	Formular Design	2013-10-31 15:44:25.0	2	우 🔜 💼 😂
Bestellung neue Rolle	Formular Design	2013-10-31 15:44:00.0	1	우 🛃 🚔 😆
Showing 1 to 4 of 4 entries	S			First Previous 1 Next Last

picture 19: Restore specific object version

10.2 Data Exchange

The IDM Toolbox can exchange its data with any other IDM Toolbox that is reachable via IP. This enables developer to work together very efficiently since they do not have to export, send via email and reimport objects like drivers or forms. Any IDM Toolbox can initiate a mutual trust to each other and is able to exchange all objects directly between their data stores.



11 Modules

The IDM Toolbox contains different modules:

- Accepts: Create different acceptance documents
- CloneDir: Copy objects between different directories
- Connections: Define directory connections
- DriverDesign: Interactive driver designer
- Drivers: Upload, export, import and document drivers
- Exchange: Data exchange between several IDM Toolbox instances
- FormDesign: Design workflow forms
- LogAnalyzer: Analyze driver trace files
- MailDesign: Interactive mail template designer
- SchemaDoc: Document eDirectory schemas
- Settings: general settings
- Tests: Driver testing (under development)
- Versions: Versioning
- WFTranslator: Workflow translator

The following modules are free:

- Connection
- DriverDesign
- FormDesign
- MailDesign
- Settings
- Versions

You receive the module "Exchange" for free upon a purchase of more than one module.