DOOR

Digital Open Object Repository

User Manual v1.0



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INTRODUCTION

DOOR (Digital Open Object Repository) is an open source web application for learning objects repository implementing IMS metadata (version 1.2.1) and content package specifications (version 1.1.3). It can be useful to all organizations producing, storing and reusing digital learning contents.

DOOR is released under GPL. It has originally developed and is currently being maintained by the eLab (<u>http://www.elearninglab.ch</u>), the e-learning laboratory of the University of Lugano and the University of Applied Sciences of Southern Switzerland.

The reference page for DOOR, with downloads, installation instructions and other useful information is <u>http://door.sourceforge.net</u>.

This document explains how to use a the repository and how to pick up learning objects from a repository and include them in a course in moodle.

1. DOOR: STAND ALONE VERSION

1.1. Authentications and accounts

1.1.1. Supported authentication types

DOOR supports two different authentication types: local authentication (authentication on the resource providing username and password) and shibboleth authentication. Shibboleth is an open source authentication middleware system that lets you sign on once (at your home organization) and then access every resource in the same federation. To learn more about Shibboleth authentication consider visiting the following site: <u>http://shibboleth.internet2.edu</u>

1.1.2. Local authentication

When you try to access DOOR using the local authentication, the following page is loaded.

DI OR :: LOGIN ::				
Welcome to the Learning Objects Repository. Please insert your username and password to log in. Username Password LOGIN				
:: Developed by eLab ::				

Picture 1: local authentication.

You log in locally providing username and password.

1.1.3. Shibboleth authentication

When you try to access a shibboleth protected resource a similar page is loaded.



Picture 2: choose your home organization.

You have to choose your home organization and then login providing username and password.

About AAI : FAQ : Help : Privacy				
AAI Test Hor	me Organization			
You have requiation.	ested access to a site that requires			
Enter your username and password below, then click on the Login button to continue.				
	Username:			
	Password:			
	Login			
 SWITCH recommends importing the 'SwissSign Root CA <u>Certificate'</u> into your web browser. That way, your web browser can seamlessly establish secure connections to AAI-enabled web servers. The <u>SWITCH</u> Foundation operates the Swiss Education & Research Network which guarantees high-speed connectivity to the Internet and to science networks globally for the benefit of higher education in Switzerland. 				



The actual interface for Shibboleth authentication depends on the Home Organization manager.

1.1.4. Account's categories

DOOR handles two account categories, **administrators** and **users**. Administrators have full control over the repository and its three sections, users can only browse the repository and view and download Learning Objects.

1.2. Repository structure

The following diagram shows the DOOR structure.



Picture 4: DOOR structure diagram.

As you can see DOOR is organized in three sections. Each section has many features that will be explained in the next chapters.

1.3. Home section

This section is a simple welcome page for users, but it has a lot of features for administrators. The following two pictures show this section accessed as user and as administrator.

DÍOR	II HOME II II SEARCH II II BROWSE II II LOGOUT II
Home	DOOR Home
Welcome guest guest , you are logged in.	
Update profile	
	:: Developed by eLab ::

Picture 5: home section in user mode.

DIOR	:: HOME :: :: SEARCH :: :: BROWSE :: :: LOGOUT ::
Home	DOOR Home
Welcome admin admin , you are logged in.	
Add new object	
Import an object	
Manage users	
Manage parameters	
Manage static data	
Update profile	
	:: Developed by eLab ::

Picture 6: home section in administrator mode.

Follow description and pictures of every feature.

1.3.1. Add new object (only for administrators)

Every learning object requires a title, a description, a catalogue reference and an attachment (nothing, file or url). Keywords, languages, type of resource, intended use by, intended use in, time required are optional information.

The following picture shows the adding form.

DIOR	:: HOME :: :: SEARCH :: :: BROWSE :: :: LOGOUT ::	
Home	Add Object	
Welcome admin admin, you are logged in. Add new object Import an object Manage users Manage parameters Manage static data Update profile	Title * Description * Keywords set Comma delimited values. set Catalog reference ROOT Language set Type of resource set Intended use by set Intended use set	
	in Time required Hours: O Minutes: O Attachment Attachment No attachment Cocal file Url * Required fields Insert Object Reset :: Developed by eLab ::	

Picture 7: adding form.

1.3.2. Import an object

It's also possible to import a learning object. You just have to choose a learning object and its position in the catalogue.

The following picture shows the importing form.

DIOR	:: HOME :: :: SEARCH :: :: BROWSE :: :: LOGOUT ::			
Home	Import an object			
Welcome admin admin , you are logged in. Add new object Import an object Manage users Manage parameters	Object Browse Maximum 20Mb Catalog ROOT Import Object			
Manage static data Update profile				
:: Developed by eLab ::				

Picture 8: importing form.

1.3.3. Edit and delete learning objects (only for administrators)

After add and import processes you can decide to modify the object clicking a link on the confirmation page. Please refer to the tree section for more information.

1.3.4. Manage users (only for administrators)

As administrator you can add, modify and delete users. Every user has the following information: username, password, first name, last name, institute, email, type (administrator or user) and active (it assumes the "No" value when the user has been deleted).

The following pictures show the user management part.

DIOR	:: HOME :: :: S	EARCH :: :: B	ROWSE :: :: L	OGOUT ::				
Home	Users mar	nagement						
Welcome admin admin , you are logged in. Add new object Import an object Manage users	Add new user Username demouser guest	F irst Name demo guest	Last Name user guest	Institute unisi.ch unisi.ch	eMail ⊠ ⊠	Type Admin User	Active Yes Yes	Actions / ÎÎ / ÎÎ
Manage parameters Manage static data Update profile								
		:: Develope	ed by eLab :: 🛛					



D (OR	:: HOME :: :: SEARCH :	: :: BROWSE :: :: LOGOUT ::			
Home	Modify User				
Welcome admin admin , you are logged in. Add new object Import an object Manage users Manage parameters Manage static data Update profile	Username Password Confirm Password First Name Last Name Institute Email Type Active Update User back to user managem	guest guest guest unisi.ch User Yes	Leave blank to keep the old password Leave blank to keep the old password		
:: Developed by eLab ::					

Picture 10: modify user form.

1.3.5. Manage parameters (only for administrators)

As administrator you can add, modify and delete parameters that will be used during the creation of learning objects just by choosing "Manage parameters" in the left menu. As you can see in the following picture there are five different parameters: "keywords", "languages", "type of resource", "use by" and "use in". They correspond to the definition in the IMS Metadata Specification (<u>http://www.imsglobal.org/metadata/index.html</u>).

DIOR	HOME :: :: SEARCH :: :: BROWSE :: :: LOGOUT ::
Home	Parameters management
Welcome admin admin , you are logged in. Add new object Import an object Manage users Manage parameters Manage static data	Manage keywords Manage languages Manage resource types Manage use by items Manage use in items
Update profile	:: Developed by eLab ::

Picture 11: parameters list.

Clicking on a parameter you can access the page that let you add, modify and delete its entries. The following picture shows the languages management part (pages for the other four parameters are similar).

DIOR	:: HOME :: :: SEARCH :: :: BROWSE :: :: LOGOUT ::			
Home	Manage Language Items			
Welcome admin admin , you are logged in. Add new object Import an object Manage users Manage parameters Manage static data Update profile	Language Actions English / în Italian / în New language Add Language back to parameters management			
:: Developed by eLab ::				

Picture 12: languages management.

1.3.6. Manage static data (only for administrators)

Every learning object has common data such as the name of the catalogue, copyright statements and other things. As administrator you can modify it. The following picture represents the relative form.

DIOR	:: HOME :: :: SEA	ARCH :: :: BROWSE :: :: LOGOUT ::
Home	Edit Static D	Data
Welcome admin admin , you are logged in.		door_demo
Add new object	Format of record	standard
Import an object	System type	Browser
Manage users	System name	Explorer; Firefox
Manage parameters	Minimum version	1.2
Manage static data	Maximum version	6.0
Update profile		yes 💌
		Copyright of Swiss virtual campus project, as indicated in 🔼 LO assets.
	Save Change	
	No changes, ba	ck to home
		:: Developed by eLab ::

Picture 13: static data management part.

1.3.7. Update profile (for administrators and users)

Everyone can modify his profile changing username, password, first name, last name, institute, email just by choosing "Update profile" in the left menu.

The following picture shows the u	update profile form.
-----------------------------------	----------------------

DIOR	:: HOME :: :: SEARCH ::	:: BROWSE :: :: LOGOUT ::	
Home	Update profile		
Welcome admin admin , you are logged in. Add new object Import an object Manage users Manage parameters Manage static data Update profile	Username Password Confirm Password First Name Last Name Institute Email Update Profile No changes, back to ho	admin admin admin admin admin admin admin admin ch admin@admin.ch me	Leave blank to keep the old password Leave blank to keep the old password
:: Developed by eLab ::			

Picture 14: update profile form.

1.4. Search section

1.4.1. Search for learning objects (for administrators and users)

You can search for learning objects by providing a free text, keywords and parameters (previously explained) in the left form. By clicking on the "Search" button you'll obtain a list of learning object that satisfy the search requirements.

The following picture shows an example of search.

DIOR	:: HOME :: :: SEARCH :: :: BROWS	SE :; :; LOGOUT ::
Search	Search Results	
Free text Game Keywords Set Language	Object title Game design	Description This is an article about game design that can foster discussion about (a) the adequacy of games for instruction (b) the implications of game.based strategies.
English set		
Type of resource set		
Intended for use By		
Intended for use In		
Search Reset		
	:: Developed by	eLab ::

Picture 15: Search section.

1.4.2. Edit and delete learning objects (only for administrators)

This is a general feature present in every section and it's explained in the tree section.

1.5. Browse section

This section let you browse the repository. Learning objects are organized in a tree structure; in particular they are the leaves of the tree. The following two pictures show this section accessed as user and as administrator.

DIOR	:: HOME :: :: SEARCH :	: :: BROWSE :: :: LOGOUT ::
JavaScript Tree Menu	Game design	
⊖- Imodule 1 	Description	This is an article about game design that can foster discussion about (a) the adequacy of games for instruction (b) the implications of game.based strategies.
multimedia	Keywords	game
module 2	Catalog Reference	2 - module 1
exercises	Language	English
ian <mark>i m</mark> odule 3	Type of resource	Reading
exercises	Intended use by	students
	Intended use in	HE general
	Time required	80 min.
	Attachment	Download Download IMS
		veloped by eLab ::

Picture 16: tree section in user mode.

DÍOR	:: HOME :: :: SEARCH :	: :: BROWSE :: :: LOGOUT ::
new rename move delete JavaScript Tree Menu REPOSITORY ROOT	Game design	
≓	Description	This is an article about game design that can foster discussion about (a) the adequacy of games for instruction (b) the implications of game.based strategies.
exercises	Keywords	game
multimedia	Catalog Reference	2 - module 1
module 2	Language	English
exercises	Type of resource	Reading
imodule 3	Intended use by	students
exercises	Intended use in	HE general
	Time required	80 min.
	Attachment	Download Download IMS
	EDIT DELETE	
	:: De	veloped by eLab ::

Picture 17: tree section in administrator mode.

1.5.1. Browse the tree (for administrators and users)

The tree is a good structure to catalogue learning objects; every node can contain an undefined number of them. It's then so easy to browse the tree and retrieve desired learning objects. Clicking on nodes you can show or hide its content. Clicking on a learning object you can see their details on the right.

1.5.2. Edit the tree (only for administrators)

As administrator you can create, rename, move and delete nodes using the menu over the tree. As normal user you don't see the menu (see the previous pictures).

1.5.3. Edit and delete learning objects (only for administrators)

Every section gives you the possibility to edit or delete objects if you are an administrator. In the home section you can edit or delete only the previously created object, in the other two section you can choose the desired learning object. To modify a learning object you have to click on the "EDIT" link, to delete it you have to click on "DELETE" link.

The following picture shows the form that let you modify the selected object (from the tree section).

D (OR	:: HOME :: :: SEA	RCH :: :: BROWSE :: :: LOGOL	J T ::
new rename move delete JavaScript Tree Menu REPOSITORY ROOT	Edit Object		
module 1	Title	Game design	*
	Description	This is an article about discussion about (a) the instruction (b) the impl: strategies.	
exercises	Keywords	game Comma delimited values.	set
i exercises	Catalog reference	2 - module 1	
	New catalog reference	SELECT new node Do not select to leave unchang	ged 💌
	Language	English	set
	Type of resource	Reading	set
	Intended use by	students	set
	Intended use in	HE general	set
	Time required Current attachment:	Hours: 1 • Minutes: 20 • 2.pdf	
	Attachment	◎No changes ○No attachm	nent OLocal file OUrl
	* Required fiel	ds	
	Save Changes		
	No changes, b	ack to object normal view	
		:: Developed by eLab ::	

Picture 18: edit a learning object.

The form is filled with the current information of the learning object. You can modify it to suit your needs and then save the changes.

2. DOOR: PLUGIN FOR MOODLE

A moodle plugin has also been created in order to allow teachers to quickly add learning objects in their courses. This software lets you first choose a repository and then browse it and pick up the desired learning object. Moodle and DOOR support both two different authentication types (normal and shibboleth). The plugin is able to handle the four combinations list.

2.1. Configure the module (only for moodle administrators)

First of all you have to install the module. For detailed instructions please visit <u>http://door.sourceforge.net</u>. To configure the plugin you have to access moodle as administrator and go under:

moodle1.5 » Administration » Configuration » Modules » DOOR

The following picture shows the configuration page.

	DOOR				
Be careful modif	Be careful modifying these settings - strange values could cause problems.				
LEARNING OB.	IECTS REPOSITORIES	MANAGEMENT ()			
мо	DIFY EXISTING REPOSITORIES				
Repository name	Repository address	Authentication			
ELAB	www.elab.usilu.net/door	normal delete			
ELEARNINGLAB	door.elearninglab.org	normal delete			
VMELAB01	vmelab01.usilu.net/door	normal delete			
VMELAB03	vmelab03.unisi.ch/door	shibboleth 💌 delete			
	ADD A NEW REPOSITORY				
Repository name	Repository address	Authentication			
		normal			
	Save changes				

Picture 19: configuration page of the moodle plugin.

Follow the instructions below to add, modify and delete repositories.

2.1.1. Add a repository

To add a repository you have to give it a name, enter its address (without protocol) and choose the authentication type (normal or shibboleth). Click on the "Save changes" button to add it.

2.1.2. Modify a repository

To modify a repository edit its information and click on the "Save changes" button.

2.1.3. Delete a repository

To delete a repository click on the "delete" button on its right. Keep in mind that Learning Objects imported in moodle from the deleted repository won't be deleted.

2.2. Add a learning object (only for teachers)

Adding a learning object in a course is quite simple. Just follow the next instructions. You must be logged in the course as teacher and be in "edit" mode.

2.2.1. Select the resource you want to add

Select the "Link to a Learning Object" entry from the menu that let you add a resource.

We	ekly outline		
	£		
	มื Forum News → 小 ≰ X अ≊ 🛔	∂Add a resource ⑦ Add an activity ▼	
1	25 May - 31 May		□ ॐ
		Add a resource Add an activity	*
2	1 June - 7 June K	Compose a text page Compose a web page Link to a file or web site Display a directory	□ ⑧ ↑
3	8 June - 14 June 🖌	Link to a Learning Object Insert a label	◆ □ ⑧
		Add a resource Add an activity	↑ ↓

Picture 20: add a Learning Object.

2.2.2. Select a repository

You can now decide the repository to select the learning object from. It's also possible to upload and select a local learning object. Choose the learning object's provenience from the relative menu.

	Adding a new Resource to week 1		
	Learning Object details ()		
Location:	http://		
Choose from:	<repository></repository>		
Window:	LOCAL LO VMELAB03 VMELAB01		
Parameters:	ELAB ELEARNINGLAB		
Visible to students:	Show		
	Save changes		

Picture 21: choose a repository.

2.2.3. Pick up a learning object from the repository

After choosing a repository a popup appears. You have to login the repository (if you are not already logged in) and then browse it or search for a learning object. To pick up the desired one click on the "SELECT" link. The popup window will disappear and on the "Location" field you'll see that you chose a learning object from a repository.

	Adding a new Resource to week 1			
	Learning Object details ()			
	Location:	LO FROM A REPOSITOR	RY	
	Choose from:	VMELAB03	J 📀	
🍯 http	s://vmelab03.unisi.ch - Learning O	bject Repository - Tree Navigato	-	<u>- 🗆 ×</u>
\mathbb{D}		:: SEARCH :: :: BROWS	E :: :: LOGOUT ::	
	Cript Tree Menu POSITORY ROOT	Game design		
	module 1 	Description	This is an article about game design that can foster discussion about (a) the adequacy of games for instruction (b) the implications of game.based strategies.	
	multimedia	Keywords	game	
.	module 2	Catalog Reference	2 - module 1	
	exercises	Language	English	
.	module 3	Type of resource	Reading	
L.	exercises	Intended use by	students	
		Intended use in	HE general	
		Time required	80 min.	
		Attachment	Download	
		SELECT		
		:: De	veloped by eLab ::	_
2			🕒 🎽 💓 Internet	

Picture 22: choose an object.

As you can see in the above picture the repository is different when accessed from moodle. The home section is not present and it's neither possible to edit the tree nor to edit or delete objects.

2.2.4. Save changes

Click on the "Save changes" button to commit the work and see the result. The following picture shows it.



Picture 23: resulting learning object resource.

2.3. Modify an existing learning object (only for teachers)

2.3.1. Select the learning object you want to modify

Once you have chosen the Learning Object to modify click on the relative icon or the relative button depending on your location (same behavior as every resource of moodle). When it's done you'll arrive to the edit page.

2.3.2. Change title and/or description or learning object

	Learning Object details ()
Title:	Game design
Description: Description (?)	This is an article about game design that can foster discussion about (a) the adequacy of games for instruction (b) the implications of game.based strategies.
Location:	moddata/door/4/2.pdf
Choose from:	<repository> ()</repository>
Window:	Show settings 🧿
Parameters:	Show settings 🧃
Visible to students:	Show 💌
	Save changes

Picture 24: edit the learning object.

You can now modify title and / or description or pick up a new learning object. Keep in mind that if you choose a new learning object then title and description are overwritten (original learning object's title and description are kept).

2.3.3. Save changes

Click on the "Save changes" button to commit the work and see the result.

2.4. Delete an existing learning object (only for teachers)

Delete a learning object is quite simple. Just click on the relative icon on the course main page and confirm the action (like every resource of moodle).