

HOW TO DELEGATE USER AUTHENTICATION

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1. OVERVIEW

Single sign-on is a process that allows network users to access all authorized network resources without having to log in separately to each resource. Single sign-on allows you to validate user authorization against your corporate user database or other client applications rather than having to separate user passwords managed by Lectra Fashion PLM.

Lectra Fashion PLM authentication delegation is based on a web module in charge of communication with an authentication server. As all authentication servers have their own approach/technology to handle user authentication, the module is customizable to fit your IT requirements.

It works as described below:



- 1. A user logs into the main application (e.g. portal) using the current login and password
- 2. User and password are checked by the authentication server
- 3. If the User is authenticated, a token is sent back to the login module
- 4. Access to the application is granted

5. From the application, any hyperlink to the Lectra Fashion PLM will go through the authentication module: the user, token and Lectra Fashion PLM URL (e.g. http://<my.server>/pdm) will be sent to this module

- 6. This information will be sent to the implementation corresponding to your Authentication server
- 7. The authentication server is contacted to check the user and token validity
- 8. It sends its response
- 9. The authentication delegation module receives the response

10. If the user and token are validated, a session is created on the Lectra fashion PLM and the application is opened without prompting the user for its credential.

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Users must be declared and enabled in the authentication server and in the Lectra Fashion PLM.

2. CUSTOM DELEGATE IMPLEMENTATION

2.1 Lectra Fashion PLM SDK

To implement your specific authentication delegation, use the Lectra Fashion SDK.

In the package <code>com.lectra.sdk.fip.authentication.delegation</code>, you have to create a class implementing the interface

com.lectra.platform.authentication.delegation.domain.models.AuthDelegate
which is composed of only 2 methods:

- String getId() : return the name of the delegate implemented (e.g.: SAPPortalDelegate)
- AuthStatusBean **check**(String user, String token) : return an AuthStatusBean (a boolean indicating that access is granted or not, and a message)

A basic example of implementation is provided in the Lectra Fashion PLM SDK.

```
package com.lectra.sdk.fip.authentication.delegation;
import com.lectra.platform.authentication.delegation.application.AuthDelegationException;
import com.lectra.platform.authentication.delegation.domain.models.AuthDelegate;
import com.lectra.platform.authentication.delegation.domain.models.AuthStatusBean;
/**
* Sample AuthenticationDelegation
 * Only users whose name starts with "Fred" or "Nazha" and with token
 * equals to the length of the user name are authorized
 * AuthenticationDelegationExample class
 * @author LECTRA
 * /
public class AuthenticationDelegationExample implements AuthDelegate {
    @Override
   public AuthStatusBean check(String user, String token)
      throws AuthDelegationException {
        if(user != null && (user.startsWith("Fred") || user.startsWith("Nazha"))) {
            if(token != null && token.equals(String.valueOf(user.length()))) {
                return new AuthStatusBean(true, "");
            }
        }
        return new AuthStatusBean(false, "User not authorized with this token");
    }
    @Override
    public String getId() {
        return "AuthenticationDelegationExample";
}
```



In this example, only requests for authentification that match these two conditions will be successful

- Name must start with "Fred" or "Nazha"
- Token is a numeric equal to the name length (number of characters in the name). For instance . "Frederic" with a token equal to 8

The user must be defined and enabled in the Lectra Fashion PLM.

Every implementations of authentication delegation must be declared in the file conf/com.lectra.platform.authentication.delegation.domain.models.AuthDelegate This file will contain the name of the Classes corresponding to the implementations. (e.g.: com.lectra.sdk.fip.authentication.delegation.AuthenticationDelegationExample)

2.2 Build & Deploy

To build the custom delegate, run the ant task "build" provided in the Lectra Fashion PLM SDK.

It will generate the file auth-delegation-custom.jar in the folder:

<PLM SDK install folder>\ws_sdk\<Your Customization Project>\build\archive.

This jar must be copied **on each Lectra Fashion PLM application server** in the same folder as the jar used for the Custom Business Rules:

<PLM Fashion Install>\externalized-customization\lib

Note: this task is done automatically by the customization installer that you can build with the ant task "build-installer" (or "release" in V4R1).

See PLM SDK User guide for more information on this installer.

The application server must be restarted after the installation of the delegate.

2.3 Checking user delegation

2.3.1 Checking the delegate

You can use a REST client (search for "Rest client" on the internet) to check that the delegate is properly implemented.

Call the delegate with the following URL: (using the GET method)

http://<plmserver>:8080/auth-delegation/rest/check/<yourDelegate>

(e.g.: http://localhost:8080/auth-delegation/rest/check/AuthenticationDelegationExample)

and set in the header of the HTTP request the following properties:

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X-User: Name of a user

X-Token : a String corresponding to a token authenticating the user

🚺 Advanced Rest Clie	nt Applic 🗙 🔪	<u> </u>				
← → C 🗋 ch	nrome-extensi	ion://hgmloof	ldffdnphfgcellkdfbfbjeloo/RestClient.html		☆	=
Advanced Rest Client	[Unnamed			🝐 Save 🛛	Open	
	http://loca	lhost:8080/auth-	elegation/rest/check/AuthenticationDelegationExample			
Request	● GET ◎	POST OPUT	PATCH DELETE HEAD OPTIONS Other			
Socket	Raw	Form	Headers			
Projects Saved History	X-User: Narha X-Token: 5					
Settings						4
About				Clear	Send	j
Rate this application •	Status	200 OK 🕑	Loading time: 32 ms			
Donate	Request headers	User-Agent I X-User: Nazh X-Token: 5 Accept: */* Accept-Enco Accept-Lang	dozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89 Safari/537.36 a ling: gzjp. deflate, sdoh ugge 1:FFR.fr;g=0.8 en:-US;g=0.6 en;g=0.4 uBD_ALIVE_1=0.16729025472898686			
	Response headers	Server: Apac Content-Type Transfer-Enc Date: Fri, 20 M	ne-Coyote/1.1			
	Raw	JSON	Response			
	Copy to clip	board Save as	file			1
	<pre>{ valid: statusM }</pre>	true essage: ""				

2.3.2 Accessing the Lectra Fashion PLM through the delegate

To access the Lectra Fashion PLM through the SSO, you have to call the following REST resource (method GET):

http://<plmserver>/authentication/rest/sso/<yourDelegate>

and set the following properties in the header of the http request:

- X-User: Name of a user
- X-Token: a String corresponding to a token authenticating the user
- $\tt X-PLM-URL:$ the URL of the PLM you want to access

The SSO resource will

- Check if the user X-User is known and enabled in PLM
- Call the authentication delegate system delegateId to check if the token X-Token is valid for the user X-User
- If everything is ok, redirect the request to X-PLM-URL with a valid FIPSession parameter, which provides a direct access to the requested PLM page without PLM login

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Example

Advanced Rest Client	[Unnamed]	[Unnamed]				
	http://wnbouchia/authentication/rest/sso/AuthenticationDelegationExample					
Request	🖲 GET 🛛	POST OPUT	PATCH DELETE HEAD OPTIONS Other			
Socket	Raw	Form	Headers			
Projects	X-User: Fr	ed				
Saved	X- <u>Token</u> : 4 X- <u>PLM</u> -URL: http:// <u>wnbouchia/pdm/Home.displayHome.wbx</u> ?					
History						
Settings	lings					
About						
Rate this application •	Redirect #1	To: http://wr	ibouchia/pdm/Home.displayHome.wbx?&FIPSession=-2189491989722415121 with status: 303 🔮 HTTP/1.1 303 See Other			
Donate		Redirection in	formation has not been cached.			
		Date: Fri, 20 N Server: Apach	من المراجع الم المراجع المراجع			
		Access-Contr Access-Contr	rol-Allow-Origin.*			
		Access-Cont	ol-Allow-Credentials: true			
		Access-Contra Access-Contra	rol-Expose-Headers: Location			
		Location: http:	//wnbouchalpdm/Home.displayHome.wbx?&FIPSession=-2189491989722415121			
		Keep-Alive: ti	neout=5, max=100			
		Content-Type	eep-Auve : textplain 📍			
	Redirect #2	To: http://wr	ıbouchia/pdm/Home.displayHome.wbx?FORMID=9&FIPSession=.2189491989722415121 with status: 302 🔮 HTTP/1.1 302 Moved Temporarily			
		Redirection in	formation has not been cached.			
		Date: Fri, 20 N Server: Apach	iar 2015 16:41:11 GMT 🕴 ie/2.2.11 (Win32) mod. ssl/2.2.11 OpenSSL/0.9.8i mod. auth. sspl/1.0.4 mod. ik/1.2.28 🌹			
		Expires: Mon, Last-Modified	26 Jul 1997 05:00:00 GMT			
		Cache-Contro	it: no-cache, must-revalidate			
		CALLERFOR	iche T			
		FORMID: 9 Location: http:	//wnbouchia/pdm/Home.displayHome.wbx?FORMID=9&FIPSession=-2189491989722415121			
		Vary: Accept- Content-Enco	Encoding 📍			
		Content-Leng	th 20			
		Connection: K	icep-Alive			
		Content-Type	textintmi; charset=01F-8;charset=01F-8			
	Status	200 OK 🕜	Loading time: 97 ms			
	Request	X-User: Fred X-Token: 4				
		X-PLM-URL: h	ttp://wnbouchia/pdm/Home.displayHome.wbx? Aniji/JKE.0./Ulindown.NTC.2.1/Ulindown.NTC.2.1/Ulindown.NTC.2.1/Ulindown.NTC.2.1/Ulindown.NTC.2.1/Ulindown.NTC.2			

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