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How do I debug the Web Service v2 connections in Autoform DM?

Ross Glover - 2022-11-04 - Comments (0) - Autoform DM FAQs

Autoform DM

Sometimes, there may be issues with certain processes carried out within the DM software, for example, incorrect data is returned. This article will show users how to debug these issues.

Accessing the WSDL page

It is important to ensure that Web Services are enabled and working correctly. To do this, you would need to access the WSDL page. To access the WSDL page, follow these steps:

1. Open a web browser and navigate to the following address where DMSERVER is the server name and PORT is the port number DM runs on:

http://DMSERVER:PORT/pdmwebsvc-v2.1/document?wsdl



You should get XML returned describing the endpoint (in this case the Document endpoint):

This XML file does not appear to have any style information associated with it. The document tree is shown below



This shows that Web Services are deployed and responding.

Enabling Web Service debugging in the DM log files

To enable Web Service debugging within the DM log files, follow these steps:

1. Navigate to OS(C:) > Program Files > EFS Technology > AUTOFORM DM > Server xx > wildfly xx > standalone > configuration > standalone.xml

2. Copy everything between the XML tag size-rotating-file-handler

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3. Make a copy on the line below and change it to match the following:

CODE

4. Find the org.apache.cxf (Web Service V2) and org.apache.axis.EXCEPTIONS (Web Service V1) logging categories

5. Under the logging name add in the following lines for both entries:

CODE

CODE

6. Save the log and restart DM.

You should now have a new log-filled webservicev2.log containing the Web Service logging. To have the Web Service logging appear in server.log remove everything in the tags and restart DM.

Use SoapUI to make a Web Service request

The next stage is to ensure you make a web service request by following these steps:

1. Download and install <u>SoapUI</u> (open source).

2. Create a new **SoapUI Project**, giving it a memorable name and pointing it at the WSDL file as described earlier.

New SOAP P	roject	×
New SOAP Proj Creates a WSDL	ect /SOAP based Project in this workspace	\$
Project Name:	TestWebService	
Initial WSDL:	http://localhost:8090/pdmwebsvc-v2.1/document?wsd	Browse
Create Requests:	Create sample requests for all operations?	
Create TestSuite:	Creates a TestSuite for the imported WSDL	
Relative Paths:	Stores all file paths in project relatively to project file (re	quires save)
		OK Cancel

3. Click **OK** and you will get some example requests:

🕒 Projects
🖮 🗐 TestWebService
🖨 🗓 DocumentBinding
🕀 🔅 Create
🕀 🔅 CreateOrUpdate
🕀 🔅 Delete
🕀 🔁 GetByCuk
🖨 😂 GetByld
Request 1
🗊 👶 GetByldAndRevision
🕀 😂 Hide
🕀 😴 Unhide
🗄 😴 Update

4. Expand GetByID and select **Request 1**.

5. Use a DocID of an existing document and remove the doc:fetchHints section.

6. Re-type the full name of the endpoint above the request.



7. In the bottom left, set the *Request Properties* as follows:

Username: use DM credentials

Password: use DM credentials

WWS-Password Type: set to PasswordText

Enable MTOM: set to true

Force MTOM: set to true

Request Properties	
Property	Value
Name	Request 1
Description	
Message Size	363
Encoding	UTF-8
Endpoint	http://localhost:809
Timeout	
Bind Address	
Follow Redirects	true
Username	admin
Password	******
Domain	
Authentication Type	No Authorization
WSS-Password Type	PasswordText
WSS TimeToLive	
SSL Keystore	
Skip SOAP Action	false
Enable MTOM	true
Force MTOM	true
Inline Response Atta	false
Expand MTOM Atta	false
Disable multiparts	true
Encode Attachments	false
Enable Inline Files	false
Strip whitespaces	false
Remove Empty Con	false
Entitize Properties	false
Pretty Print	true
Dump File	
Max Size	0
WS-Addressing	false
WS-Reliable Messag	false

8. Click the green **Submit** button above the request and wait for a response. A response similar to the image below shows a successful request:



Use Fiddler to record a Web Service Request

Running Fiddler can block or monitor all network traffic. We recommend checking with your IT before installing.

1. Download and install <u>Fiddler 4</u> from Telerik.

On the left pane, you will see the Web Service Requests coming in.

2. To filter for just the DM requests, open **Filters** on the right-hand pane and use appropriate settings.

✔ Use Filters Hosts	Note: Filters on thi FiddlerScript o	s page are a simple s offers (click Rules > C	ubset of the filtering ustomize Rules).	Actions
- No Zone Filte	r -	~		
Show only the	following Hosts	~		
localhost:8090)			^
				~

You can also limit the traffic from the Client to ignore all pings to keep the connection alive by selecting the **Hide if URL contains** checkbox and entering the string seen here:

Dictionation 1018	Inspectors 7	Autokesponder	Composer dis Haaiers	cript M Filters	= Log
Use Filters	Note: Filters	on this page are as	simple subset of the filtering	Actions	
Hosts	Tidulei 2	chproners (checke	ales > custollize Rules).		
- No Zone Filte	r -	-			
Show only the	following Hosts				
Show only the					
vmtech2k3gk1	;			<u>^</u>	
				*	
Client Process –					
Show only t	raffic from (U	nknown / Remote Pr	ocesses)	▼]	
Show only 1	Internet Explore	er traffic	Hide traffic from Ser	vice Host	
Request Header	s				
Show only i	f URL contains				
	containe	/pdmwebsvc/servi	ces/PDMWebSVC		
📝 Hide if URL	contains				
Hide if URL Flag request	ts with header				
 Hide if URL Flag reques Delete requ 	its with header lest header				

3. Click Actions and select Run Filterset Now to enable this filter.

4. Make a Web Service request and it will appear on the left using your DM server as the Host and the endpoint as the URL.

#	Result	Protocol	Host	URL
23	200	HTTP	localhost:8090	/pdmwebsvc-v2.1/document

5. Click the relevant request and go to the **Inspectors** tab to view the request details.

6. Click the **View in Notepad** button to open the request in any application (for example Notepad++ or EditPad Pro via the Tools>Fiddler Options>Tools option from the menu bar).

I Search 🔞			🛃 Online 🗙
🕗 Statistics 🕌 Inspectors 🚿 A	utoResponder 📝 Composer	🔓 FiddlerScript 🗹 Filte	ers 🗉 Log 🚍 Timeline
Headers TextView SyntaxView	WebForms HexView	Auth Cookies Raw	JSON XML
<pre><?xml version="1.0" encoding="utf-8"?? xmlns:soapenc="http://wchemas.xmlsoa xmlns.types="http://websvc.pdm.aps_ul xmlns.xsd="http://www.w3.org/2001/Xl soap:encodingStyle="http://schemas.xmlsoap; soap:encodingStyle="http://schemas.xmlsoap;</pre>	<soap:envelope tr<br="" xmlns="" xmlns:soap="h
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			_
0:0 0/483	Find (press Ctrl+Enter to hig	ghlight all)	View in Notepad
Transformer Headers TextView Cookies Raw JSON XML	SyntaxView ImageView	HexView WebView	

7. This request can either be debugged manually or copied to SoapUI for debugging.

Use Charles to record a Web Service Request

Running Charles can block or monitor all network traffic. We recommend checking with your IT department before installing.

- 1. Download and install <u>Charles Web Debugging Proxy</u> from Telerik.
- 2. Under *Proxy* at the top, select **Port Forwarding**.
- 3. Select the **Enable Port Forwarding** checkbox and click **Add**.
- 4. Use **TCP** as the Protocol and set **Start** and **End** ports to a currently unused port.
- 5. Set **Remote Host** to the server name of DM server (or localhost if DM is local).
- 6. Set **Remote Port** to the DM Port.

L Enable Po	<u>b</u>	Edit Port Forwarding
Туре ТСР	Protocol: Start Port: Remote Host: Remote Port: Local Address	TCP ▼ emote Port 8091 End: 8091 localhost 8090 Specific Address: 55
		OK Cancel Help

7. Change the application performing the Web Service to the port specified in the Port Forwarding (in this case use DM on 8091 rather than 8090)

8. Make the Web Service request and it will display in the Charles application.



9. Click the request and you can see the XML request in the **Request** tab and the XML response in the **Response** tab.

These XML requests can be copied to an XML formatter to improve readability.

10. This request can either be debugged manually or copied to SoapUI for debugging.