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A Fiddler extension to inspect network traffic in an n-tier DevForce application.

DevForce sends compressed binary messages between the <u>EntityManager</u> and the <u>EntityServer</u>. You can use this extension to inspect these messages, to help when debugging your n-tier and Silverlight applications.

- Platform: N/A
- Language: C#
- Download:
- DevForce Fiddler Extension (binary)
- DevForce Fiddler Extension (source)
- Fiddler

Remember to unblock all zip and binary files before attempting to use.

Usage

1. Unzip the *DevForceFiddlerExtensionbin.zip* file and drop the DevForceFiddlerExtension.dll into the appropriate Fiddler2\Inspectors folder:

32-bit System: %PROGRAMFILES%\Fiddler2\Inspectors

64-bit System: %PROGRAMFILES(x86)%\Fiddler2\Inspectors

- 2. Launch Fiddler2.
- 3. Run the application you're watching. If the EntityServer is running on LocalHost, see tip below.
- 4. Select the Web Session you want to inspect. The URL of such sessions typically begins "/EntityServer.svc/...".

Fide	dler - HTTI	Debuggi	ng Proxy	1		-	-
File I	Edit Rule	es Tools	View Help \$ Donate				
Q 49	Replay 🕻	K + ▶ Re	sume 💠 Stream 🎬 Decode	Keep: All sessions 🝷 🕀 Any Process 🛔 Web Sessions	🐴 Find 🔣	Save 🔯	🏉 Browse QClear Cache
#	Result	Protocol	Host	URL	Body	Caching	Content-Type
1	200	HTTP	www.fiddler2.com	/fiddler2/updatecheck.asp?isBeta=False	326	private	text/plain
5 2	302	HTTP	go.microsoft.com	/fwlink/?LinkId=165006	172	private	text/html; charset=utf-8
23	200	HTTP	visualstudiogallery.msdn.micros	/services/Release4.svc	5,230		application/soap+xml; chars
0 4	200	HTTP	localhost:9009	1	3,081	private	text/html; charset=utf-8
5	200	HTTP	localhost:9009	/Silverlight.js	7,680	private	application/x-javascript
<₽6	200	HTTP	localhost:9009	/ClientBin/SimpleSteps.xap	1,283	private	application/x-silverlight-app
7	200	HTTP	localhost:9009	/EntityService.svc/sl	267	private	application/x-gzip
38	200	HTTP	localhost:9009	/EntityServer.svc/sl	419	private	application/x-gzip

Tip: If watching a browser session, you can drag the target icon from the Fiddler tool bar onto that browser; this will filter "web session" traffic to just that browser. Click the target icon again to remove the filter.

- 5. Select the Inspectors tab in the right pane.
- 6. Among **Inspectors**, select the **Raw** sub-tab of either the **Request** or **Response** pane. Notice that the material below the headers is unreadable. The payload is formatted as compressed binary in DevForce.
- 7. Among **Inspectors**, select the **DevForce** sub-tab. The DevForce inspector reformats that payload as readable XML. Below we see request and response snippets from a query (or Fetch operation in DevForce):

Statistics	Inspectors	🐐 AutoRespo	onder 🛛 🗹 Com	poser 📃 Filte	rs 📃 Log	a 🚍 Time	eline				
Headers Text	View WebFor	rms HexVie	w DevForce	WCF Binary	Auth	Cookies	Raw	XML .	ISON		
<s:envelope xmlns<br=""><s:header> <a:action s:mus<br=""><a:messageid> <a:replyto></a:replyto></a:messageid></a:action></s:header></s:envelope>	s:s="http://www. stUnderstand="1" um:uuid:39b978	.w3.org/2003/ ">http://ideabl 24-ec4a-4fcf-a	05/soap-envelop lade.com/Entity/ 982-55c314213	be" xmlns:a="http: Model/ <mark>EntityServe</mark> 047 <td>://www.w3.c <mark>r/Fetch</mark>D></td> <td>org/2005/08 Action></td> <td>8/addressin</td> <td>g"></td> <td></td> <td></td> <td>•</td>	://www.w3.c <mark>r/Fetch</mark> D>	org/2005/08 Action>	8/addressin	g">			•
Get SyntaxView Cookies Raw	Transformer JSON 3	Headers XML	TextView 1	mageView He	xView W	/ebView	DevForce	WCF Binar	y Auth	Caching	
<s:envelope xmlns<br=""><s:header> <a:action s:mus<br=""><a:relatesto>L </a:relatesto></a:action></s:header> <s:body> <fetchrespons< td=""><th>s:s="http://www. tUnderstand="1" um:uuid:39b9782 se xmlns="http://</th><td>.w3.org/2003/ ">http://ideabl 24-ec4a-4fcf-a9</td><td>105/soap-envelop lade.com/EntityM 982-55c3142130 n/EntityModel''></td><td>oe" xmlns:a="http: /lodel/<mark>EntityServe</mark> 47<td>://www.w3.c r/FetchResp ></td><td>org/2005/08 oonse<td>8/addressin</td><td>g"></td><td></td><td></td><td>*</td></td></td></fetchrespons<></s:body></s:envelope>	s:s="http://www. tUnderstand="1" um:uuid:39b9782 se xmlns="http://	.w3.org/2003/ ">http://ideabl 24-ec4a-4fcf-a9	105/soap-envelop lade.com/EntityM 982-55c3142130 n/EntityModel''>	oe" xmlns:a="http: /lodel/ <mark>EntityServe</mark> 47 <td>://www.w3.c r/FetchResp ></td> <td>org/2005/08 oonse<td>8/addressin</td><td>g"></td><td></td><td></td><td>*</td></td>	://www.w3.c r/FetchResp >	org/2005/08 oonse <td>8/addressin</td> <td>g"></td> <td></td> <td></td> <td>*</td>	8/addressin	g">			*

8. The messages will seem overwhelming at first, since you'll see the entire WCF envelope and all the metadata DevForce passes with a message. Once familiar with the message format, you'll be able to inspect what is passed between the client application and server.

Regarding traffic sent to http://localhost or http://127.0.0.1

Internet Explorer and the .NET Framework are hardcoded not to send requests for Localhost through any proxies, and as a proxy, Fiddler will not receive such traffic.

Update: This behavior was changed for Internet Explorer 9. IE9 allows Fiddler to proxy traffic sent to localhost or 127.0.0.1 without additional steps on your part.

For non-browser based client applications, you'll need to use a workaround.

The simplest workaround is to use "localhost.fiddler" as the hostname. This also works when sending traffic to IIS Express, which by default will only listen for the "localhost" hostname. You can make this change in your app.config. For example:

```
<objectServer remoteBaseURL="http://localhost.fiddler"
serverPort="nnnn"
serviceName="EntityService.svc">
<clientSettings isDistributed="true"/>
</objectServer>
```

If you're not using IIS Express, other workarounds are available too. See here for more information.

Note: You shouldn't ever encounter the "Localhost traffic not captured" problem with Firefox. The FiddlerHook add-on for Firefox removes "localhost" from the "bypass proxy" list when Fiddler is in "Capturing" mode.

Learn more

Documentation for building custom extensions, like this one, can be found <u>here</u>. The source code for the *DevForceFiddlerExtension* is available for download from the link above. You can modify it to suit your needs.