Debugging Adapters

fork and edit tutorial (https://github.ibm.com/MFPSamples/DevCenter/tree/master/tutorials/en/foundation/7.1/server-side-development/debugging-adapters.html) | report issue (https://github.ibm.com/MFPSamples/DevCenter/issues/new)

Overview

The available debugging options for adapters are:

- Testing Adapter Procedures
- Debugging Java Adapters

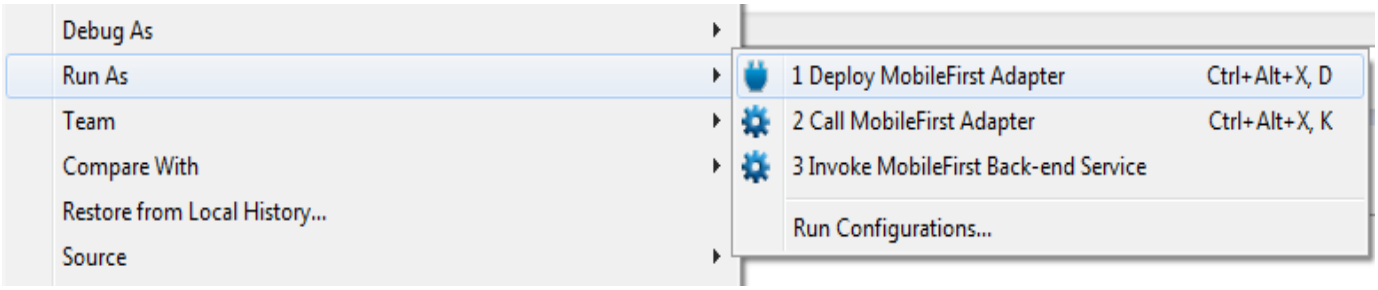
Testing the adapter procedures

CLI

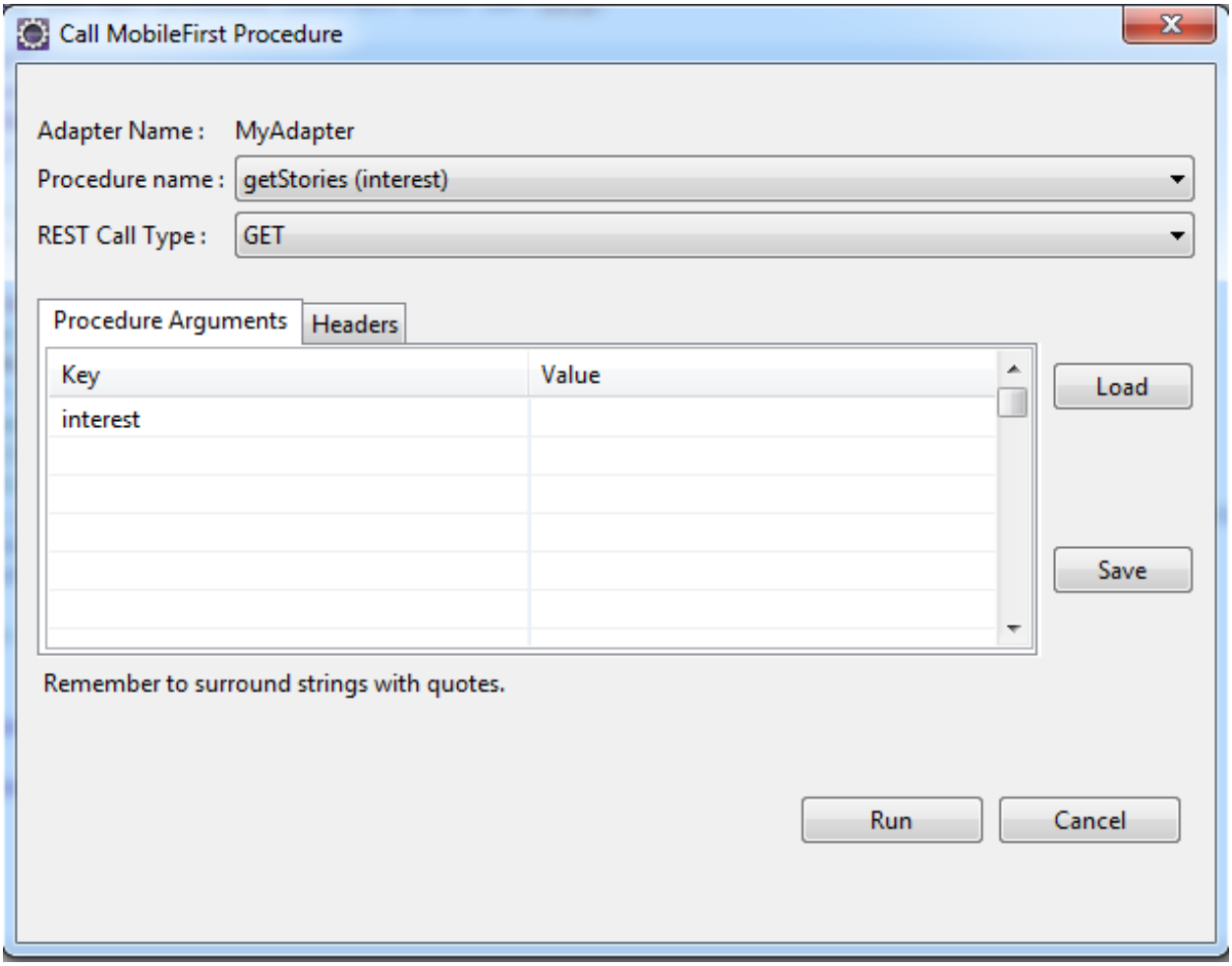
In the terminal, within your project, use `$ mfp adapter call` and follow the interactive menu to test an adapter. Make sure the adapter is built and deployed before you try.

Studio

It is possible to test adapter procedures by using MobileFirst Studio.
Testing a procedure is done by right-clicking an adapter folder and selecting **Run As > Call MobileFirst Adapter**.



After selecting to call the adapter, you can select the procedure you wish to run. you can also enter comma-separated parameters if the selected procedure requires that.



Adapter invocation result:

Invocation Result of procedure: 'getStories' from the MobileFirst Server:


```
{
  "errors": [
  ],
  "info": [
  ],
  "isSuccessful": true,
  "responseHeaders": {
    "Alternate-Protocol": "80:quic,p=0.01,80:quic,p=0.01",
    "Cache-Control": "private, max-age=0",
    "Content-Type": "textVxml; charset=UTF-8",
    "Date": "Tue, 28 Oct 2014 12:44:22 GMT",
    "ETag": "X8aekjl3CvT45xpcepn6EK2pDJw",
    "Expires": "Tue, 28 Oct 2014 12:44:22 GMT",
    "Last-Modified": "Tue, 28 Oct 2014 12:44:19 GMT",
    "Server": "GSE",
    "Transfer-Encoding": "chunked",
    "X-Content-Type-Options": "nosniff",
    "X-XSS-Protection": "1; mode=block"
  },
  "responseTime": 299,
  "rss": {
    "channel": {
      "copyright": "Copyright 2014 Cable News Network LP, LLLP.",
      "description": "CNN.com delivers up-to-the-minute news and information on the latest top stories, weather, entertainment, politics and more.",
      "image": {
        "description": "CNN.com delivers up-to-the-minute news and information on the latest top stories, weather, entertainment, politics and more.",
        "height": "33",
        "link": "http:VVedition.cnn.comVindex.html?eref=edition",
        "title": "CNN.com - Top Stories",
        "url": "http:VVi.cdn.turner.comVcnnV.eVimgV1.0VlogoVcnn.logo.rss.gif",
        "width": "144"
      },
      "info": {
        "feedburner": "http:VVrssnamespace.orgVfeedburnerVextV1.0",
        "uri": "rssVedition"
      },
      "item": [
        {
          "description": "The South African state is to appeal both judgment and sentence after athlete Oscar Pistorius was jailed for five years for shooting his girlfriend.",
          "guid": "http:VVedition.cnn.comV2014V10V27VjusticeVsouth-africa-oscar-pistorius-appealVindex.html",
```

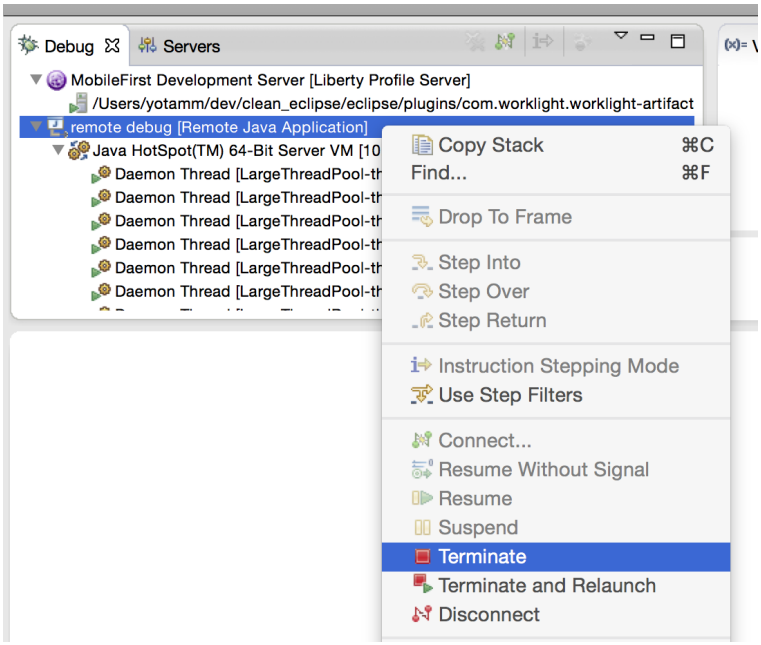
Debugging Java Adapters

To debug Java adapter code, you must use Eclipse in debug mode. This required the MobileFirst Studio (you can import you CLI project if needed).

Starting debug mode

1. Right-click a Java adapter, then select **Debug As -> Debug MobileFirst Java Adapters**.
2. Optional: Open the debug perspective in MobileFirst Studio.

After you entered debug mode, you can debug the Java code normally, as you would do a standard Java application. You might need to issue a request to the adapter to make its code run and hit the breakpoints.

Stopping debug mode

1. Open the debug perspective in MobileFirst Studio.
2. On the **Debug** tab, right-click the item **remote debug [Remote Java Application] -> Terminate**.