

Resource request from native Windows 8 Universal applications

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Overview

To create and configure a Windows 8 (Universal) native project, first follow the [Configuring a native Windows 8 application with the MobileFirst Platform SDK \(../../hello-world/configuring-a-native-windows-8-application-with-the-mfp-sdk/\)](#) tutorial.

MobileFirst applications can access resources using the `WLResourceRequest` REST API. This tutorial explains how to use the `WLResourceRequest` API with an HTTP adapter.

Initializing WLClient

```
WLClient client = WLClient.getInstance();
```

1. To establish a connection to MobileFirst Server, use the `connect` method by specifying the `MyConnectResponseListener` class instance as a parameter.

```
client.connect(new MyConnectResponseListener(this));
```

The `WLClient` instance tries to connect to the MobileFirst Server instance according to the properties of the `wlclient.properties` file.

After the connection is established, it invokes one of the methods of the `MyConnectResponseListener` class.

2. Specify that the `MyConnectResponseListener` class implements the `WLResponseListener` interface.

```
public class MyConnectResponseListener : WLResponseListener
```

The `WLResponseListener` interface defines two methods:

- `public void onSuccess (WLResponse response) { }`
- `public void onFailure (WLFailResponse response) { }`

3. Use the previous methods to process connection success or connection failure.

Invoking an adapter procedure

After the connection is established with a MobileFirst Server instance, you can use the `WLResourceRequest` class to invoke adapter procedures or call any REST resources.

1. Define the URI of the resource. For a JavaScript HTTP adapter:

```
/adapters/{AdapterName}/{ProcedureName}
```

```
URI adapterPath = new URI("/adapters/RSSReader/getFeed");
```

2. Create a `WLResourceRequest` object and choose the HTTP Method (GET, POST, etc).

```
WLResourceRequest request = new WLResourceRequest(adapterPath,WLResourceRequest.GET);
```

3. Add the required parameters.

- For JavaScript-based adapters, use the `params` parameter name to set an array of parameters.

```
request.setQueryParameter("params",["MobileFirst_Platform"]);
```

- For Java adapters or other resources, you can use `setQueryParameter` for each parameter.

```
request.setQueryParameter("param1","value1");  
request.setQueryParameter("param2","value2");
```

- Trigger the request with `.send()`.

Specify a `MyInvokeListener` class instance as a parameter.

You learn how to define this class instance in the next section.

```
request.send(new MyInvokeListener());
```

Receiving a procedure response

After the procedure invocation is completed, the `WLClient` instance calls one of the methods of the `MyInvokeListener` class.

As before, you must specify that the `MyInvokeListener` class implements the `WLResponseListener` interface.

```
using IBM.Worklight;  
namespace InvokingAdapterProceduresWin8{  
    public class MyInvokeListener : WLResponseListene  
r  
    {  
    {  
    {
```

The `onSuccess` and `onFailure` methods are invoked by the `WLClient` instance. The response object contains the response data. You can use its methods and properties to retrieve the required information.

```

public void onSuccess(WLResponse response)
{
    WLProcedureInvocationResult invocationResponse = ((WLProcedureInvocationResult) response)
;
    JObject items;
    try
    {
        items = invocationResponse.getResponseJSON();
        await dispatcher.RunAsync(CoreDispatcherPriority.Normal, () =>
        {
            myMainPage.AddTextToReceivedTextBlock("Response Success: " + items.ToString());
        });
    }
    catch (JsonReaderException e)
    {
        Debug.WriteLine("JSONException : " + e.Message);
    }
}

public void onFailure(WLFailResponse response)
{
    await dispatcher.RunAsync(CoreDispatcherPriority.Normal, () =>
    {
        myMainPage.AddTextToReceivedTextBlock("Response failed: " + response.ToString());
    });
}

```

Sample application

Click to download (<https://github.com/MobileFirst-Platform-Developer-Center/InvokingAdapterProcedures/tree/release71>) the MobileFirst project.

Click to download (<https://github.com/MobileFirst-Platform-Developer-Center/InvokingAdapterProceduresWin8/tree/release71>) the Native project.

- The `InvokingAdapterProcedures` project contains a **MobileFirst Native API** to deploy to MobileFirst Server.
- The `InvokingAdapterProceduresWin8` project contains a **native Windows 8 Universal application** that uses a MobileFirst native API library to communicate with a MobileFirst Server instance.

Make sure to update the `wlclient.properties` file in **InvokingAdapterProceduresWin8** with the relevant server settings.

Invoke Adapter Procedures

Connect Server

Invoke Procedure



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