

Resource Request from Native Windows 10 Applications

- Download MobileFirst project (<https://github.com/MobileFirst-Platform-Developer-Center/InvokingAdapterProcedures>)
- Download Native project (<https://github.com/MobileFirst-Platform-Developer-Center/InvokingAdapterProceduresWP8>)

Overview

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

```
[code lang="csharp"]
WLClient client = WLClient.getInstance();
[/code]
```

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

```
[code lang="csharp"]
client.connect(new MyConnectResponseListener(this));
[/code]
```

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.

```
[code lang="csharp"]
public class MyConnectResponseListener : WLResponseListener
[/code]
```

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 `WLClient` instance to invoke adapter procedures.

1. Create a `WLProcedureInvocationData` object with the adapter and procedure names.
2. Add the required parameters as an object array and set request options (for example: `InvocationContext`).
3. Get the existing `WLClient` instance and use it to invoke an adapter procedure.
4. Specify the `MyInvokeListener` class instance as a parameter.

```
[code lang="csharp"]
```

```
WLProcedureInvocationData invocationData = new WLProcedureInvocationData("RSSReader",  
"getFeed");
```

```
invocationData.setParameters(new Object[]{});
```

```
String myContextObject = "InvokingAdapterProceduresWP8";
```

```
WLRequestOptions options = new WLRequestOptions();
```

```
options.setInvocationContext(myContextObject);
```

```
WLClient.getInstance().invokeProcedure(invocationData, new MyInvokeListener(this), options);
```

```
[/code]
```

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.

```
[code lang="csharp"]
```

```
using IBM.Worklight;
```

```
namespace InvokingAdapterProceduresWP8{
```

```
public class MyInvokeListener : WLResponseListener
```

```
{ }
```

```
{
```

```
[/code]
```

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

```
[code lang="csharp"]
```

```
public void onSuccess(WLResponse response)
```

```
{
```

```
WLProcedureInvocationResult invocationResponse = ((WLProcedureInvocationResult) response);
```

```
JsonObject items;
```

```
try
```

```
{
```

```
items = invocationResponse.getResponseJSON();
```

```
Deployment.Current.Dispatcher.BeginInvoke(() =>
```

```
{
```

```
myMainPage.AddTextToReceivedTextBlock("Response Success: " + items.ToString());
```

```
});
```

```
}
```

```
catch (JsonReaderException e)
```

```
{
```

```
Deployment.Current.Dispatcher.BeginInvoke(() =>
```

```
{
myMainPage.AddTextToReceivedTextBlock("JSONException : " + e.Message);
});
}
}

public void onFailure(WLFailResponse response)
{
Deployment.Current.Dispatcher.BeginInvoke(() =>
{
myMainPage.AddTextToReceivedTextBlock("Response failed: " + response.ToString());
});
}
}
[/code]
```

Sample application

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

Click to download (<https://github.com/MobileFirst-Platform-Developer-Center/InvokingAdapterProceduresWP8>) the Native project.

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

Make sure to update the `wlclient.properties` file in `NativeWP8Invoking` with the relevant server settings.



(http://developer.ibm.com/mobilefirstplatform/wp-content/uploads/sites/32/2014/07/04_10_results.jpg)