# Form-based authentication in native Windows 8 applications

#### **Overview**

This tutorial illustrates the native Windows 8 client-side authentication components for form-based authentication. **Prerequisite:** Make sure that you read Form-based authentication (../) first.

This tutorial covers the following topics:

- Creating the client-side authentication components
- Sample application

### Creating the client-side authentication components

Create a native Windows 8 application and add the MobileFirst native APIs as explained in the documentation.

#### FormChallengeHandler

```
Create a FormChallengeHandler class as a subclass of ChallengeHandler.

Your FormChallengeHandler class must implement the isCustomResponse and handleChallenge methods.
```

The isCustomResponse method checks every custom response received from MobileFirst Server to verify whether this is the expected challenge.

```
public override bool isCustomResponse(WLResponse response)
{
    if (response == null || response.getResponseText() == null || !response.getResponseText().Contains("j_secur ity_check"))
    {
        return false;
    }
    else
    {
        return true;
    }
}
```

The handleChallenge method is called after the isCustomResponse method returns true. Within this method, present your login form. Different approaches are available.

```
public override void handleChallenge(JObject response)
{
   CoreApplication.MainView.CoreWindow.Dispatcher.RunAsync(CoreDispatcherPriority.Normal
,
   async () =>
   {
      MainPage._this.LoginGrid.Visibility = Visibility.Visible;
   });
}
```

From the login form, credentials are passed to the FormChallengeHandler class. Use the submitLoginForm() method to send input data to the authenticator.

#### MainPage

Within the MainPage class, connect to MobileFirst Server, register your challengeHandler and invoke the protected adapter procedure.

The procedure invocation triggers MobileFirst Server to send a challenge that will trigger our challenge handler.

```
WLClient wlClient = WLClient.getInstance();
FormChallengeHandler ch = new FormChallengeHandler();
wlClient.registerChallengeHandler((BaseChallengeHandler<JObject>)ch);
MyResponseListener mylistener = new MyResponseListener(this);
wlClient.connect(mylistener);
```

Because the native API not protected by a defined security test, no login form is presented during server connection. Invoke the protected adapter procedure. The login form is presented by the challengeHandler.

```
WLProcedureInvocationData invocationData = new WLProcedureInvocationData("DummyAdapter", "getSecretD ata");
Object[] parameters = { 0 };
invocationData.setParameters(parameters);
MyInvokeListener listener = new MyInvokeListener(this);
WLClient.getInstance().invokeProcedure(invocationData, listener, new WLRequestOptions());
```

## Sample application

Click to download

(http://public.dhe.ibm.com/software/products/en/MobileFirstPlatform/docs/v700/NativeFormBasedAuthProject.zip) the Studio project.

Click to download

(http://public.dhe.ibm.com/software/products/en/MobileFirstPlatform/docs/v700/Win8NativeFormBasedAuthProject.zip) the Native project.

