Adapter-based authentication in native Windows Phone 8 applications

Overview

This tutorial illustrates the native Windows Phone 8 client-side authentication components for adapter-based authentication.

Prerequisite: Make sure that you read Adapter-based authentication (../) first.

Creating the client-side authentication components

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

CustomAdapterChallengeHandler

Create a CustomAdapterChallengeHandler class as a subclass of ChallengeHandler.

Your CustomAdapterChallengeHandler 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.

```
1
     public override bool isCustomResponse(WLResponse response) {
 2
       if (response == null ||
          response.getResponseJSON() == null ||
 3
          response.getResponseText() == null ||
          response.getResponseJSON()["authRequired"] == null ||
 5
 6
          String. Compare(response.getResponseJSON()["authRequired"]. ToString(), "false", StringComparison. Ordinallgi
 7
 8
          return false;
 9
10
       return true:
11
```

• The handleChallenge method is called after the isCustomResponse method returns true. Use this method to present the login form. Different approaches are available.

```
public override void handleChallenge(JObject challenge)

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

MainPage._this.NavigationService.Navigate(new Uri("/LoginPage.xaml", UriKind.Relative));
};

}
```

From the login form, credentials are passed to the CustomAdapterChallengeHandler class. The submitAdapterAuthentication() method is used 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 the challenge handler.

```
WLClient client;
client = WLClient.getInstance();
challengeHandler = new WindowsChallengeHandler();
client.registerChallengeHandler((BaseChallengeHandler<JObject>)challengeHandler);
client.connect(new MyConnectResponseListener(this))
```

Because the native API is 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 invokeData = new WLProcedureInvocationData("NativeAdapterBasedAdapter", "getSecretData WLRequestOptions options = new WLRequestOptions(); client.invokeProcedure(invokeData, new MyResponseListener(this), options);
```

Sample application

Click to download

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

Click to download

(http://public.dhe.ibm.com/software/products/en/MobileFirstPlatform/docs/v700/WP8NativeAdapterBasedAuthProject.zip) the Native project.

