NOKIA Developer

Creating APIBridge JavaScript Binding Code

This article shows how to create APIBridge Binding Code in JavaScript, making it possible to access device services in Symbian WebRuntime widgets.

Binding JavaScript™ Code

The binding code for the EchoServlet example can be found in **\bindings\js\sample.js**. This file uses the `APIBridge` class, which is contained in the **apibridge.js** file that ships with APIBridge.

The code for this example is:

```
var Sample = {
  echo: function( msg, err, onSuccess, onError) {
  APIBridge.Internal._sendRequest( "/sample/echo?msg="+encodeURIComponent(msg)
+"&err="+encodeURIComponent(err),
    null,
    function(req){
    if (req.responseText)
      onSuccess (req.responseText);
    else
      onError(500);
    },
  onError );
  }
}
```

Essentially, the binding code translates the parameters passed into a URI-encoded GET string by using the `APIBridge.Internal._sendRequest` function. It then analyses the response from the framework and calls the appropriate callback.

If you dissect the URL portion, you will see two parts:

- **Request**: `/sample/echo`. This request will get routed to your plug-in as specified in the ECOM Plug-in resource file.
- **Parameters**: `?msg="+encodeURIComponent(msg)+"&err="+encodeURIComponent(err)`. The parameters are extracted at the servlet's `ServiceL` function by using the `RQueryParser` class and this function:

  ```
  req-> GetRequest()->GetQuery()
  ```

How it is used

The code below shows how a Web Runtime (WRT) application might use this newly created function:

```
Sample.echo(msg,err, function(text) //OnSuccess callback
  {
  output.innerHTML += "The  APIBridge returned: "+text+"<br/>";
  },
  function(err) //OnError callback
  {
  output.innerHTML += "Error: "+err.status + ". Message: "+err.responseText+"<br/>";
```

JavaScript Binding API

The binding API for JavaScript™ can be found in the **apibridge.js** file that ships with APIBridge.

SendRequest function

```
APIBridge.Internal._sendRequest: function( path, parameters, onSuccess, onError )
```

This function is used to send a raw request to the APIBridge server; it takes care of security and access control for the developer.

Parameter	Description
path	URI path to the plug-in including any GET parameters. The **http://localhost** part should NOT be included here.
parameters	String that will be passed in the body of the HTTP request. If this parameter is not null, the request will be a POST request, otherwise it will be a GET.
onSuccess	Callback function that returns the XMLHttpRequest object as the single parameter. It is called when the server reports a 200 HTTP status code.
onError	Callback function that returns the XMLHttpRequest object as the single parameter. It is called when the server reports an HTTP status code other than 200, the access is not granted, or the path is not associated with any plug-in.