**Unit Test case for Bug #25466**

**Before Fix:**

**When you try to activate with the following settings:**

string url = "https:// localhost/CHOIVR/SmartIVRV2Post.aspx";

string post = "txtActivationID= K7HMJ-4GQ8W-K38V7-P2TR7-RFQ8B &txtProductType=MSDN&txtMethod=Activate";

**the response you receive is:**

<?xml version="1.0" ?>

- <ActivationResponse>

<Status>ActivationException</Status>

<RequestID>0</RequestID>

<SubsystemID>-2147483648</SubsystemID>

- <ActivationException>

<RejectReasonCode>45112</RejectReasonCode>

<ProductDescription />

<Message>Invalid IID</Message>

</ActivationException>

- <![CDATA[ The Activation ID is : K7HMJ-4GQ8W-K38V7-P2TR7-RFQ8B<BR>The Activation ID is invalid.<BR> ]]>

</ActivationResponse>

**Change the activation id as follows**: K7HMJ-4GQ8W-K38V7-P2TR7-RFQ8B’) alert(‘Test XSS’);

**the response you receive is:**

  <?xml version="1.0" ?>

[-](https://10.251.5.21/CHOIVR/SmartIVRV2Post.aspx) <ActivationResponse>

  <Status>ActivationException</Status>

  <RequestID>0</RequestID>

  <SubsystemID>-2147483648</SubsystemID>

[-](https://10.251.5.21/CHOIVR/SmartIVRV2Post.aspx) <ActivationException>

  <RejectReasonCode>45112</RejectReasonCode>

  <ProductDescription />

  <Message>Invalid IID</Message>

  </ActivationException>

- <![CDATA[

The Activation ID is : K7HMJ-4GQ8W-K38V7-P2TR7-RFQ8B') alert(Test XSS);<BR>The Activation ID is invalid.<BR>

  ]]>

  </ActivationResponse>

**After Fix:**

Test 1:

Testing Search method

**https:// localhost/CHOIVR/SmartIVRV2Post.aspx**

Called the above page with the following parameters:

ActivationID= K7HMJ-4GQ8W-K38V7-P2TR7-RFQ8B

ProductType=MSDN

Method=Search

Output:

  <?xml version="1.0" ?>

- <SearchResponse>

<Status>Exception</Status>

<SubsystemID>-2147483648</SubsystemID>

<ActivationID>K7HMJ-4GQ8W-K38V7-P2TR7-RFQ8B') alert(Test XSS);<</ActivationID>

- <Exception>

<RejectReasonCode>45112</RejectReasonCode>

<Message>Invalid IID.</Message>

</Exception>

</SearchResponse>

Test 2:

Testing Activate method

**https:// localhost/CHOIVR/SmartIVRV2Post.aspx**

Called the above page with the following parameters:

ActivationID= K7HMJ-4GQ8W-K38V7-P2TR7-RFQ8B

ProductType=MSDN

Method=Activate

Output:

  <?xml version="1.0" ?>

- <ActivationResponse>

<Status>ActivationException</Status>

<RequestID>0</RequestID>

<SubsystemID>-2147483648</SubsystemID>

- <ActivationException>

<RejectReasonCode>45112</RejectReasonCode>

<ProductDescription />

<Message>Invalid IID</Message>

</ActivationException>

- <![CDATA[ The Activation ID is : K7HMJ-4GQ8W-K38V7-P2TR7-RFQ8B&#41; alert&#40;Test XSS&#41;&#59;<BR>The Activation ID is invalid.<BR>

]]>

</ActivationResponse>

Test 3:

Testing with IIDs

**https:// localhost/CHOIVR/SmartIVRV2Post.aspx**

Called the above page with the following parameters:

ActivationID=15704188861345236060751317889695152405242113754022

CountryCode=IND

Output:

<?xml version="1.0" ?>

- <ActivationResponse>

<Status>ActivationException</Status>

<RequestID>0</RequestID>

<SubsystemID>-2147483648</SubsystemID>

- <ActivationException>

<RejectReasonCode>45112</RejectReasonCode>

<ProductDescription />

<Message>Invalid IID</Message>

</ActivationException>

- <![CDATA[ The Activation ID is : 15704188861345236060751317889695152405242113754022<BR>The Activation ID is invalid.<BR>

]]>

</ActivationResponse>

Test 4:

To test the Activation ID, Product Type, Method parameters passed in clear text as query string should not make available the parameters passed, from the request object.

**https://localhost/CHOIVR/SmartIVRV2Post.aspx?ActivationID=K7HMJ-4GQ8W-K38V7-P2TR7-RFQ8B&ProductType=MSDN&Method=Search**

Output: The highlighted message below tells that the query string parameters did not reach the post url.

 <?xml version="1.0" ?>

- <ActivationResponse>

<Status>Exception</Status>

<RequestID>0</RequestID>

<SubsystemID>-2147483648</SubsystemID>

- <Exception>

<Message>Key cannot be null. Parameter name: key</Message>

</Exception>

- <![CDATA[ The Activation ID is : <BR>The Activation ID is invalid.<BR>

]]>

</ActivationResponse>

Test 5:

To test the Activation ID and CountryCode parameters passed.

**Also to test the malicious scripts entered are output encoded.**

ActivationID=15704188861345236060751317889695152405242113754022

CountryCode=IND

Output:

<?xml version="1.0" ?>

- <ActivationResponse>

<Status>ActivationException</Status>

<RequestID>0</RequestID>

<SubsystemID>-2147483648</SubsystemID>

- <ActivationException>

<RejectReasonCode>45112</RejectReasonCode>

<Message>Invalid IID</Message>

</ActivationException>

- <![CDATA[ The Activation ID is : 15704188861345236060751317889695152405242113754022<BR>The Activation ID is invalid.<BR>

]]>

</ActivationResponse>

**Change the below activation id as follows:**

ActivationID=15704188861345236060751317889695152405242113754022

**alert('AntiXSS');15704188861345236060751317889695152405242113754022**

CountryCode=IND

**Output is as follows:**

<?xml version="1.0" ?>

- <ActivationResponse>

<Status>ActivationException</Status>

<RequestID>0</RequestID>

<SubsystemID>-2147483648</SubsystemID>

- <ActivationException>

<RejectReasonCode>45112</RejectReasonCode>

<Message>Invalid IID</Message>

</ActivationException>

- <![CDATA[ The Activation ID is : alert&#40;&#39;AntiXSS&#39;&#41;&#59;15704188861345236060751317889695152405242113754022<BR>The Activation ID is invalid.<BR>

]]>

</ActivationResponse>

**Rollback:**

Same as before fix.

**Note:**

At the developer’s end these changes have been tested with the help of two test html forms. These pages are also attached along with this unit test document.

These html pages are currently pointing to localhost.

If need be pointed to dev environment use the below urls replacing the local host url in html page. Both point to dev environment.

**<!-- https://10.251.5.21/CHOIVR/SmartIVRV2Post.aspx -->**

**<!-- https://paivrdev.parttest.extranettest.microsoft.com/CHOIVR/smartivrv2post.aspx -->**

For test env **– https://ivrtst.ectest.one.microsoft.com/choivr/smartivrV2post.aspx**