



How To...

Use Business Objects Planning and Consolidation (version for the Microsoft platform) BPF services in Xcelsius

SAP Product Name:	SAP Business Planning and Consolidation , version for Microsoft
Applicable Product Versions:	7.0, 5.1 SP3 and above
Version Number	1.2
Last Updated:	Feb 2009

Enterprise Performance Management

www.sdn.sap.com/irj/sdn/bpx-epm

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1 Scenario

In this scenario we will install the web services (DashboardServices) needed to communicate to BPC that will return Business Process Flows (BPFs) in the format necessary to be displayed in Xcelsius.

2 Introduction

This whitepaper provides the steps on how to install the web service and also the steps on how to use the web service with Xcelsius. This web service will work **SAP Business Planning and Consolidation 7.0 Version for Microsoft SP0 & higher and SAP Business Planning and Consolidation 5.1 Version for Microsoft SP3 & higher.**

This how to guide walks through step-by-step example to pull data from an ApShell Finance cube.

3 Prerequisites

- An installed & implemented SAP Business Planning and Consolidation 7.0, Version for Microsoft SP0 & higher or SAP Business Planning and Consolidation 5.1 Version for Microsoft SP3 & higher.
- SAP BusinessObjects Xcelsius Designer 2008 SP01 or higher
- Adobe Flash Player version 9 or higher
- Minimal debugging skill around server/web authorization (If you are a decent internet searcher, that may suffice too).

4 Security

Since the provided BPC Services for Xcelsius Integration (SXI) components live within the BPC environment, all of the standard BPC security is inherited. If a user adds a component that attempts to access data values which the user is not privileged to see, those results are filtered out within BPC before the data is returned to the component. This maintains the same high level of security which is present throughout the BPC system.

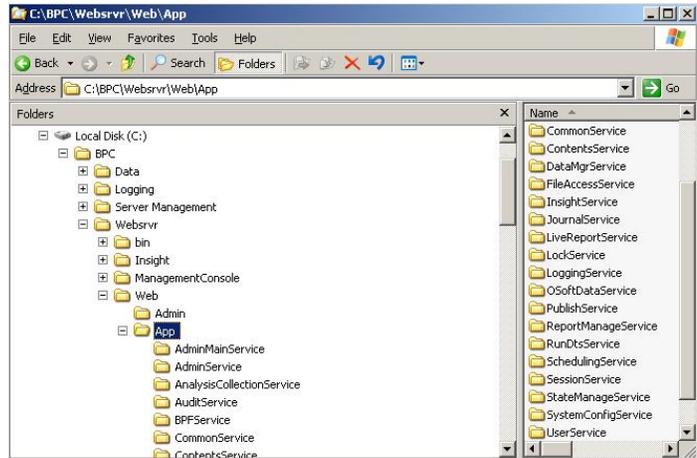
The web service provided will work only within Active library session of BPC. Hence, once the Xcelsius dashboard is built, it needs to be published inside BPC Web. Users will be able to access only through BPC Web session.

5 Installation

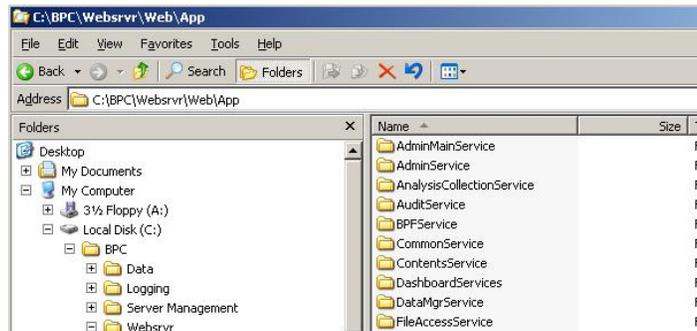
5.1 The Step By Step Solution - Web Service Installation

In this section, we will place the provided web service files in the appropriate directories of the BPC Server. This example shows how to do this on a single server installation. If multiple application servers are used, the web service will need to be installed on all application servers.

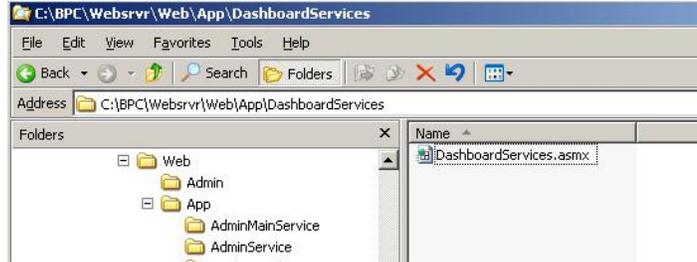
1. Access your BPC server and locate “<BPC_INSTALLDIR>\Websrvr\Web\App” folder.



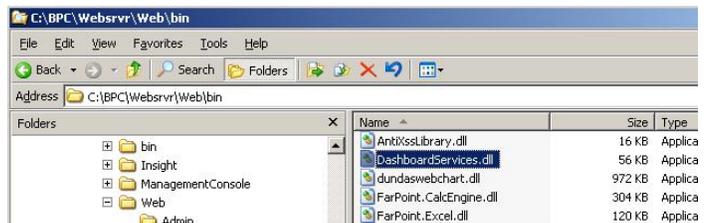
2. Create a new folder called “DashboardServices” under App folder.



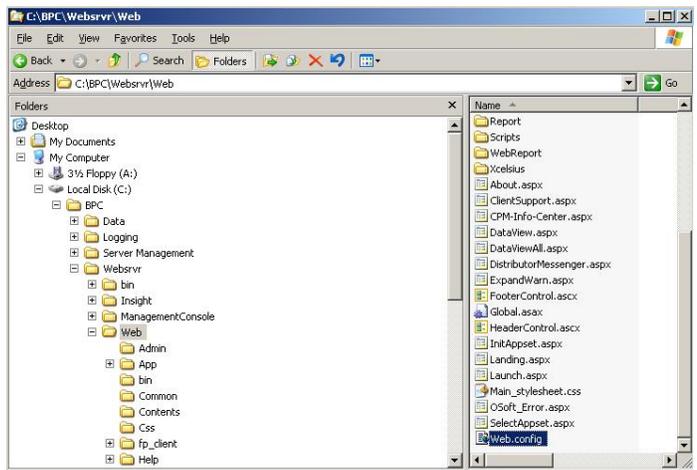
- Place "DashboardServices.asmx" file in the DashboardServices folder. These files are provided along with this guide.



- Navigate to ...\BPC\Web\srv\Web\bin folder and place "DashboardServices.dll" file. This file is also provided in the zip.



- Open the <BPC>\Web\srv\Web\Web.config file in notepad (or your favorite text editor)



6. Ensure that this line is commented out (meaning, add “<!--” at the beginning & “-->” at the end of the line). This will ensure WSDL access to the web service.

```
<globalization requestEncoding="utf-8" responseEncoding="utf-8"/>
<webServices>
  <protocols>
    <add name="HttpSoap" />
    <add name="HttpGet" />
    <add name="HttpPost" />
    <!-- <remove name="Documentation" /> -->
  </protocols>
</webServices>
</system.web>
```

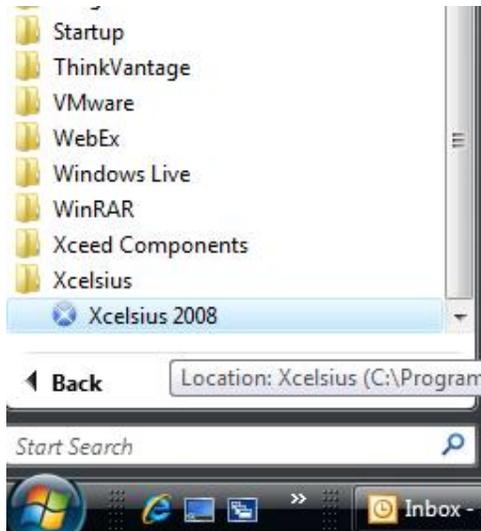
6 The Step By Step Solution – Building an Xcelsius Dashboard

6.1 Xcelsius Dashboard Creation – Part 1 – Using the GetBPF Service

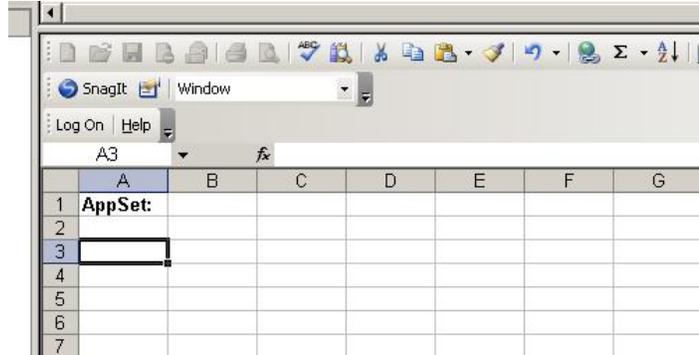
In this step, we will use the GETBPF web service to create a connection inside Xcelsius and build an Xcelsius dashboard that shows some BPF related metadata.

NOTE: A pre-requisite to this step is that a BPF exists under your AppSet. In this example, we’re going to use the “Budgeting Process” BPF under the ApShell application set. You must also have security assigned to your user for this BPF and a BPF instance must have been started.

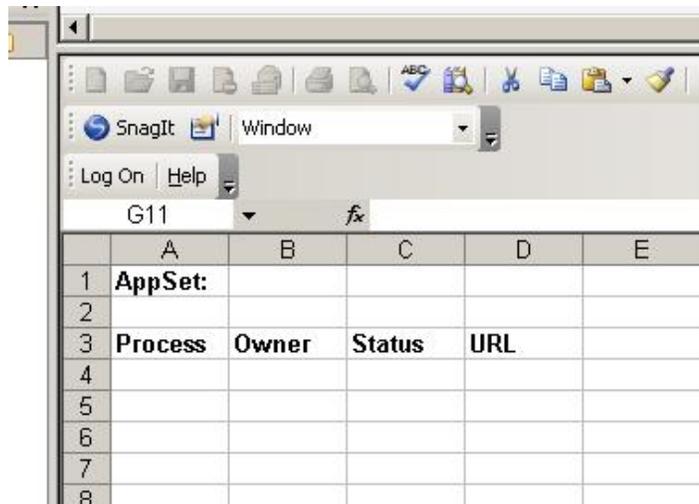
1. Launch Xcelsius (Windows → Programs → Xcelsius → Xcelsius 2008).



2. Within cell "A1", type in "AppSet:"



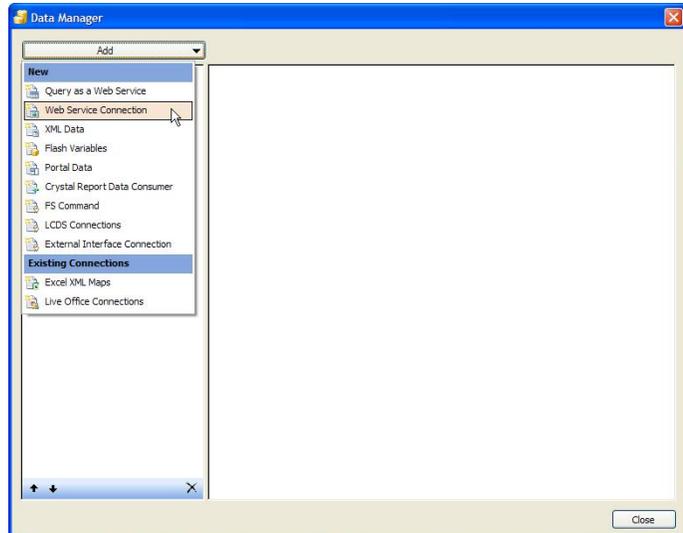
3. In cells A3 thru D3, type in "Process, Owner, Status, and URL" respectively.



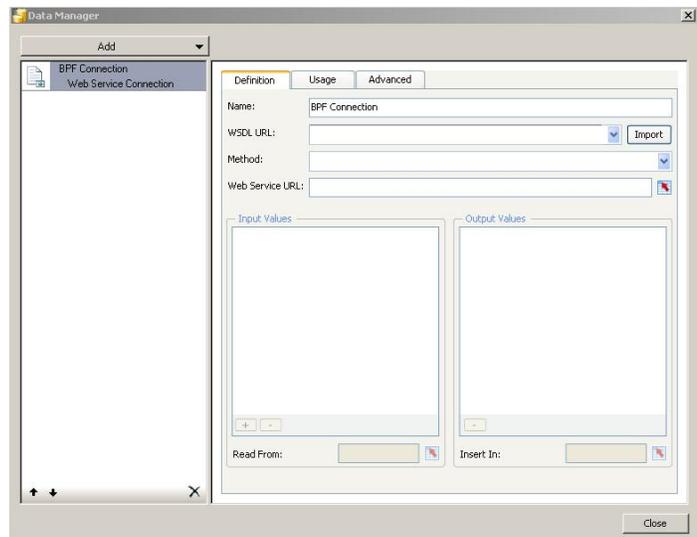
4. From the Data menu select Connections



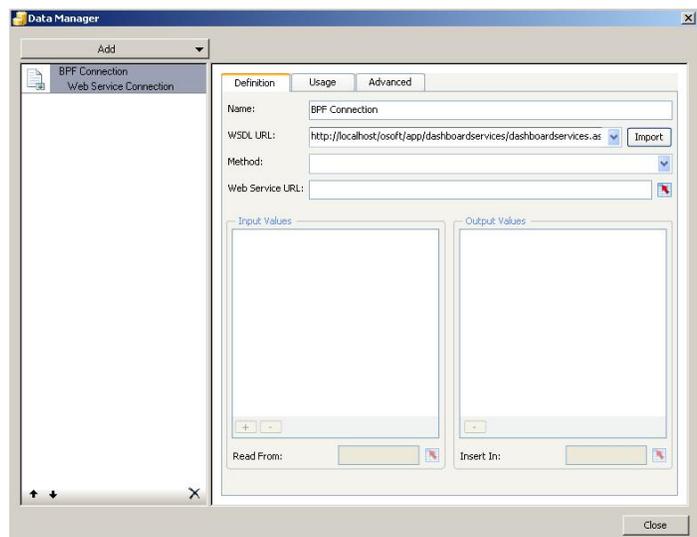
5. When the Data Manager screen loads click the Add button and select Web Service Connection



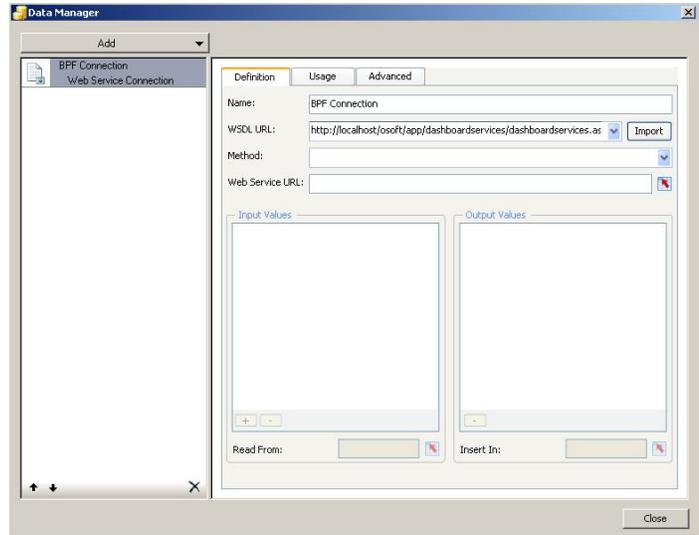
6. Under Name, type "BPF Connection"



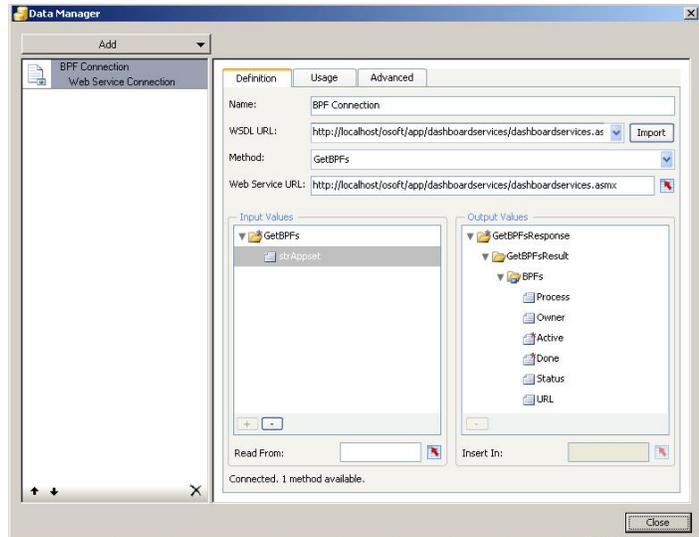
7. Enter the URL of the DashboardService (example: <http://<hostname:port>/osoft/app/dashboardservices/dashboardservices.asmx?wsdl>).



8. Click the Import button



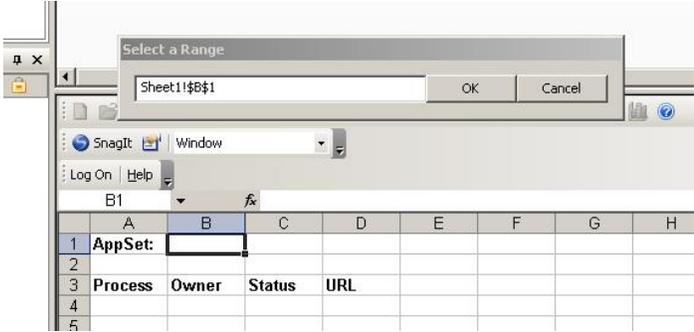
9. Click on "strAppset" under "Input Values"



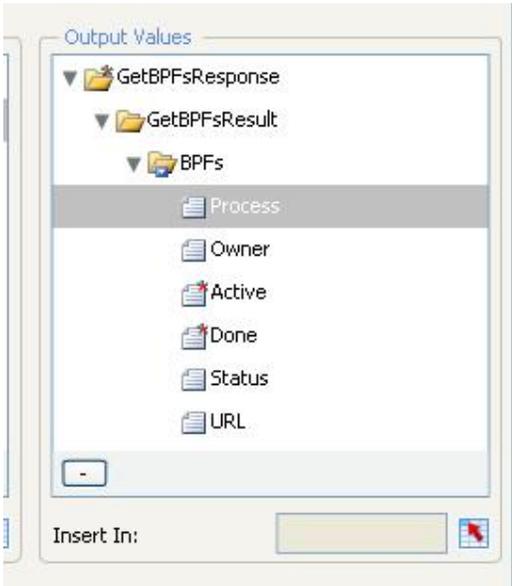
10. Click on the  icon.



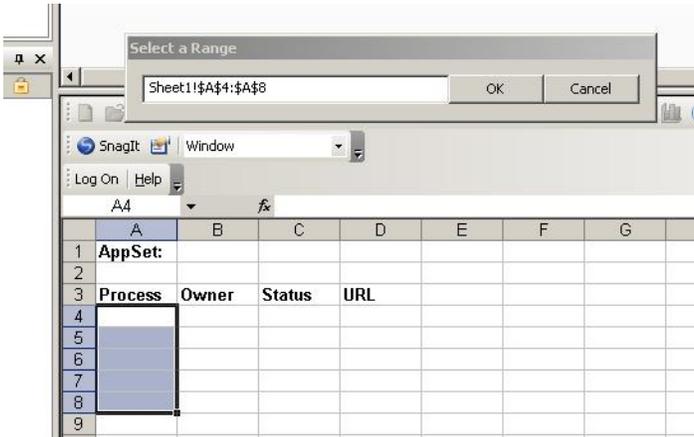
11. Choose cell "B1" and click OK.



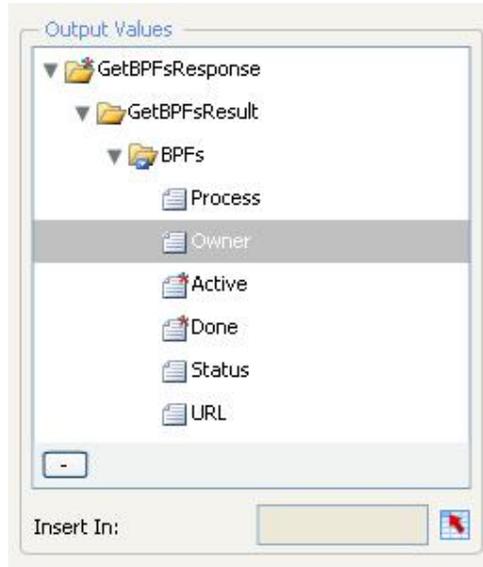
12. In the Output Values, choose "Process" and then click the icon.



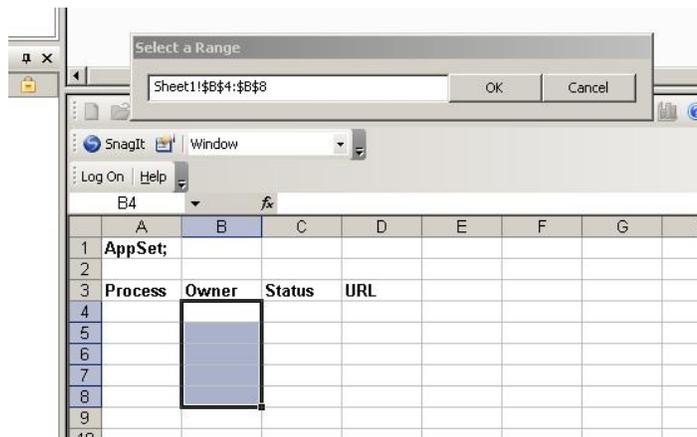
13. Choose cells "A4" thru "A8" and click OK.



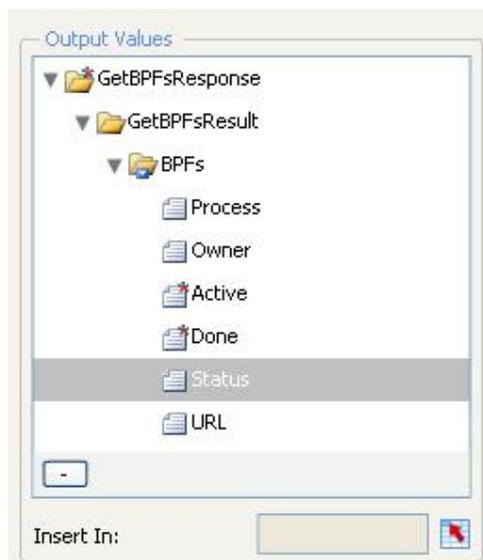
14. In the “Output Values”, choose “Owner” and then click the  icon.



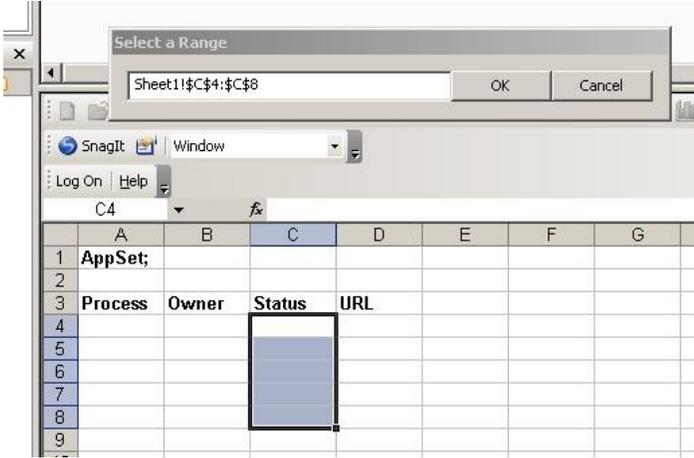
15. Choose cells “B4” thru “B8” and click OK.



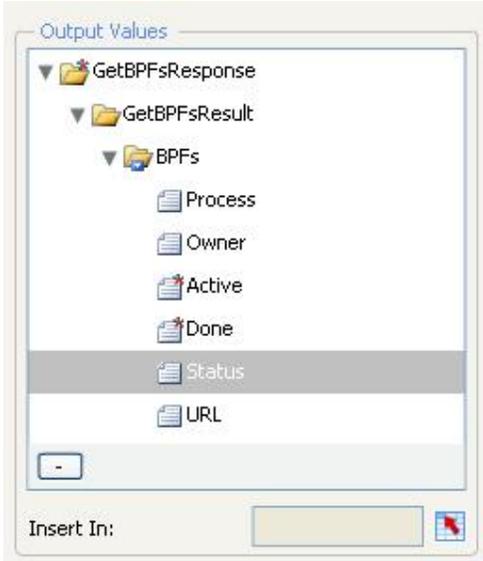
16. Within the “Output Values” section, choose the “Status” field and then click the  icon.



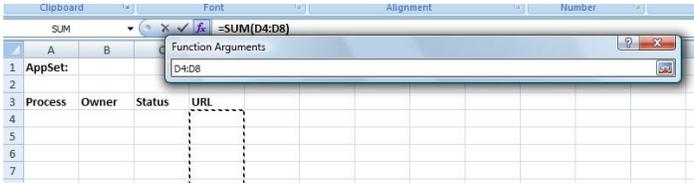
17. Choose cells "C4" thru "C8" and click OK.



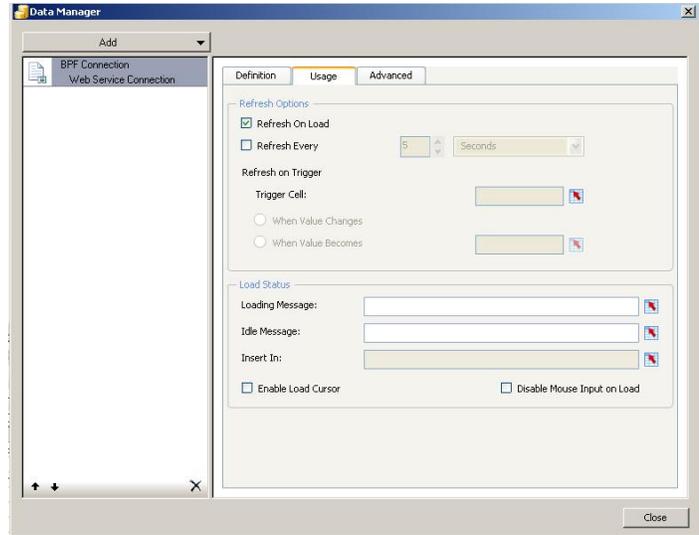
18. Within the "Output Values" section, choose the "URL" field and then click the  icon.



19. Choose cells "D4" thru "D8" and click OK.

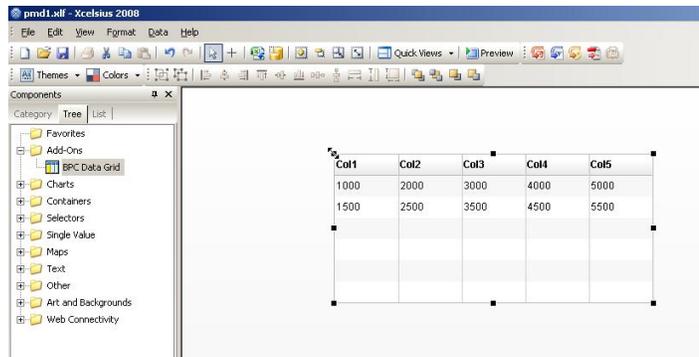


20. Click on the Usage Tab and then make sure “Refresh On Load” is checked. Then click the “Close” button.

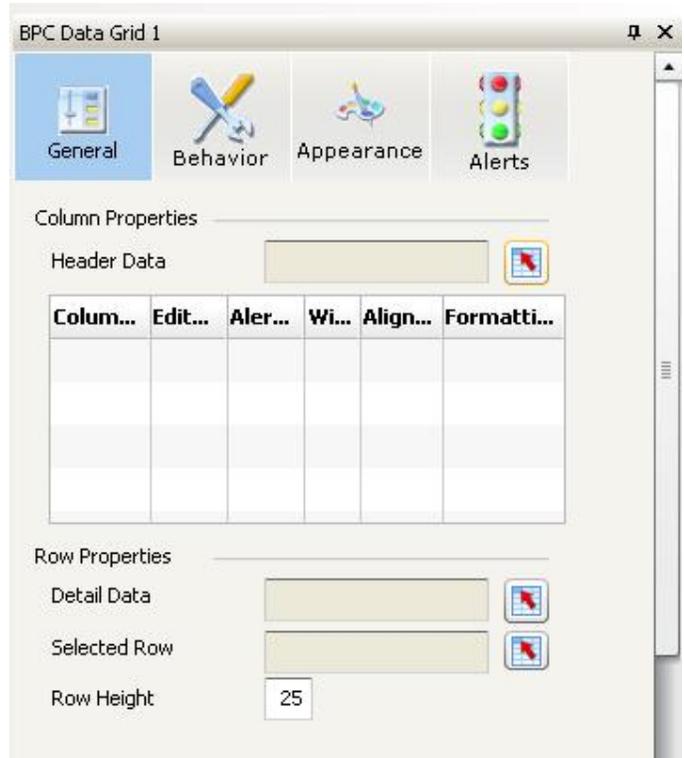


21. Choose the “BPC Data Grid” and add it to the canvas.

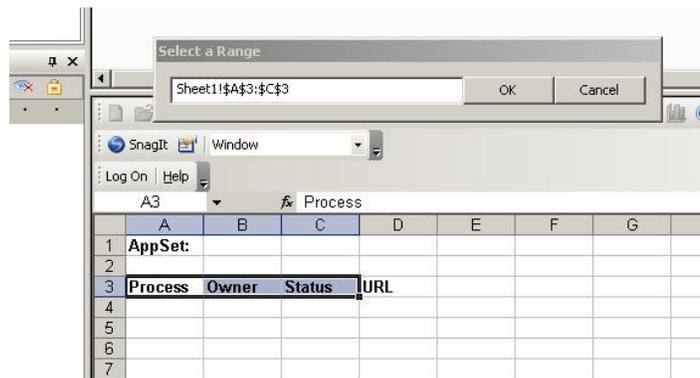
NOTE: The BPC Data Grid Add-on was delivered along with "How to use BPC data in Xcelsius" guide.



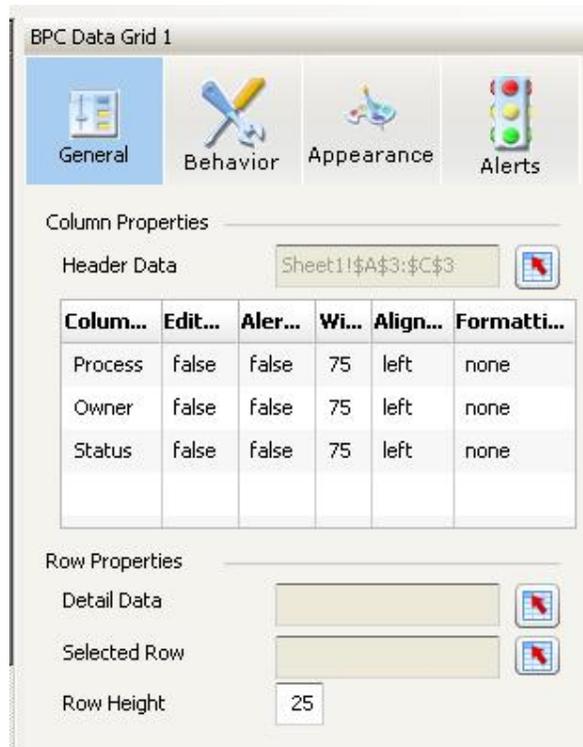
22. For the BPC Data Grid, under the general tab, choose Range Selector for Header Data.



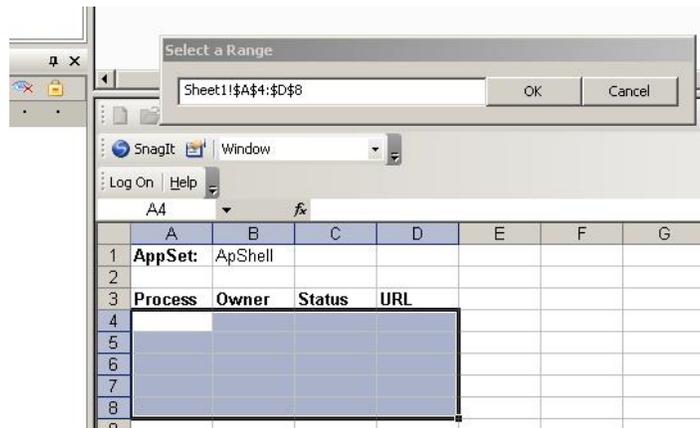
23. Choose cells "A3" thru "C3" and click OK.



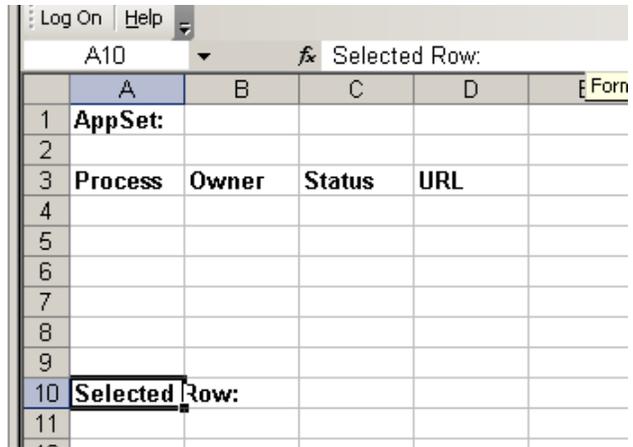
24. Choose the Range Selector for "Detail Data"



25. Choose Range "A4:D8" and click OK.



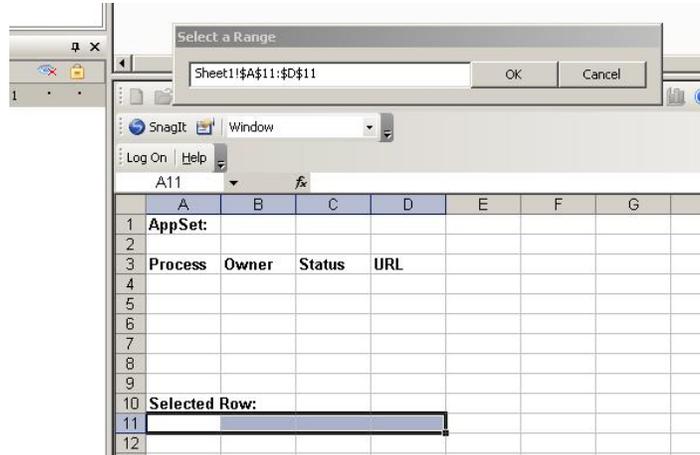
26. Type "Selected Row" in cell A10.



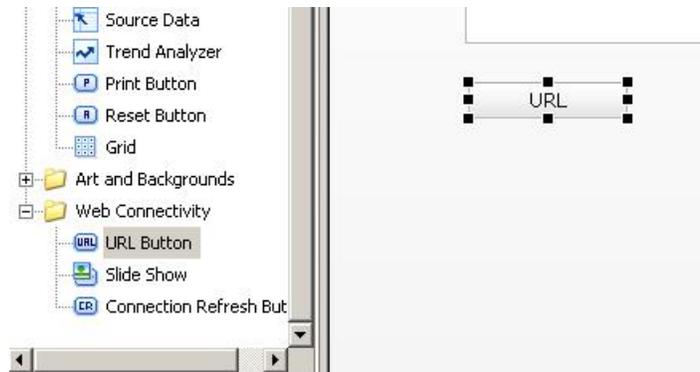
27. From the BPC Data Grid, choose the Range Selector for "Selected Row".



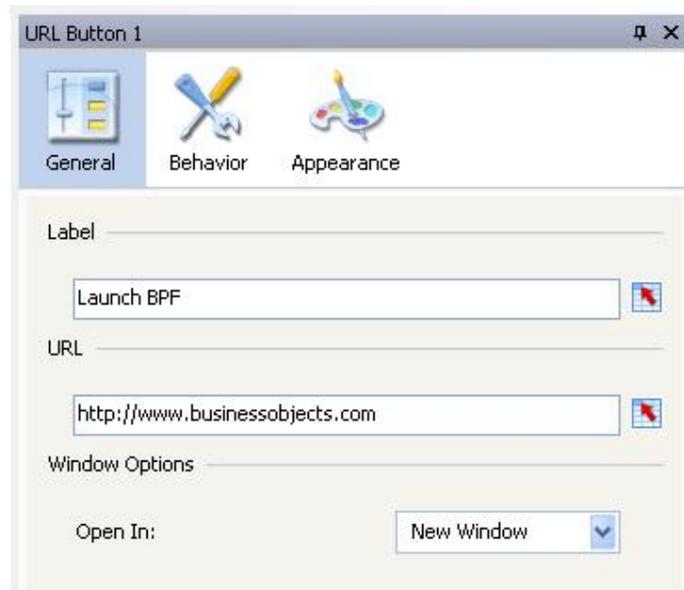
28. Choose "A11" to "D11" and click OK.



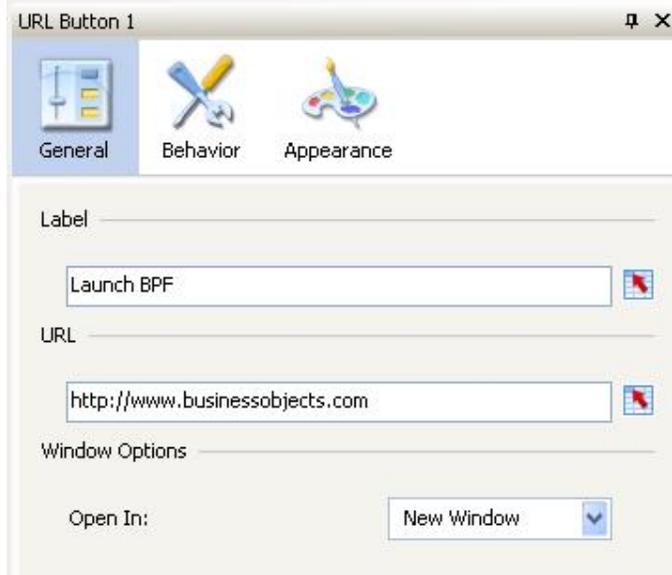
29. Insert the "URL" button within your model.



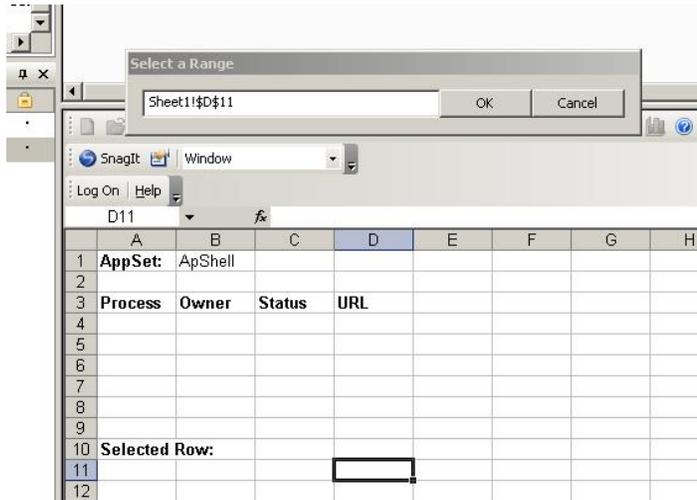
30. Rename the button "Launch BPF".



31. Choose the “Range Selector” for the URL field.



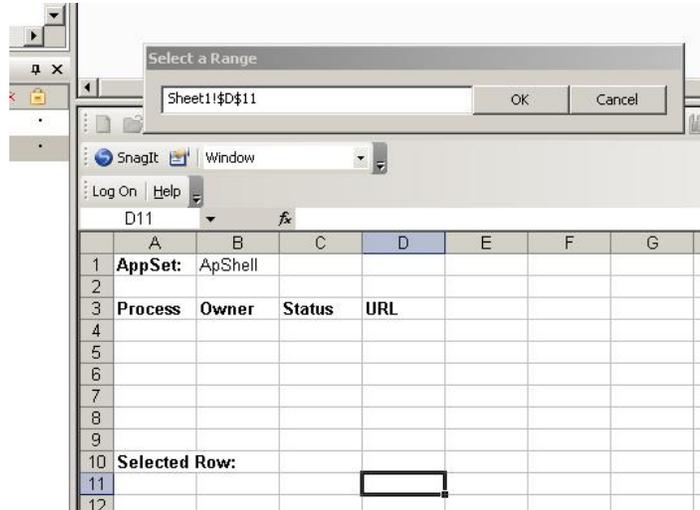
32. Choose cell “D11” and click OK.



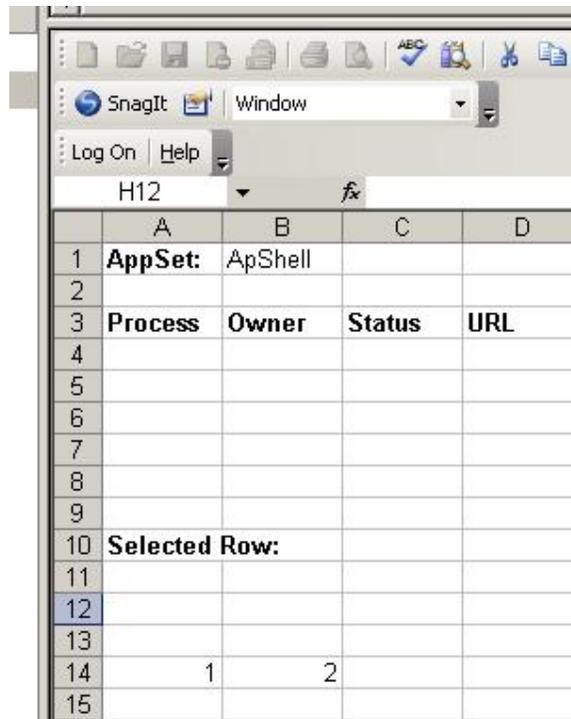
33. Click the behavior tab, and choose the range selector for the “Trigger Cell”



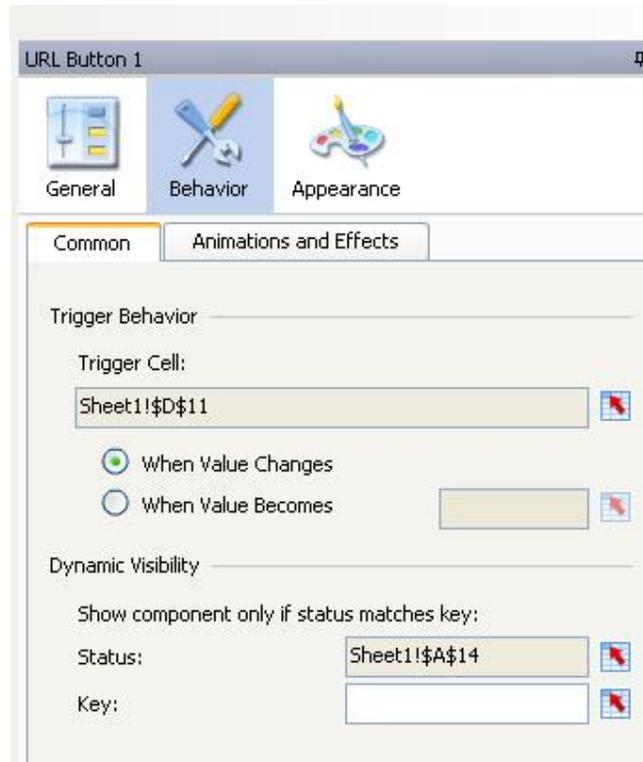
34. Choose cell "D11" and click OK.



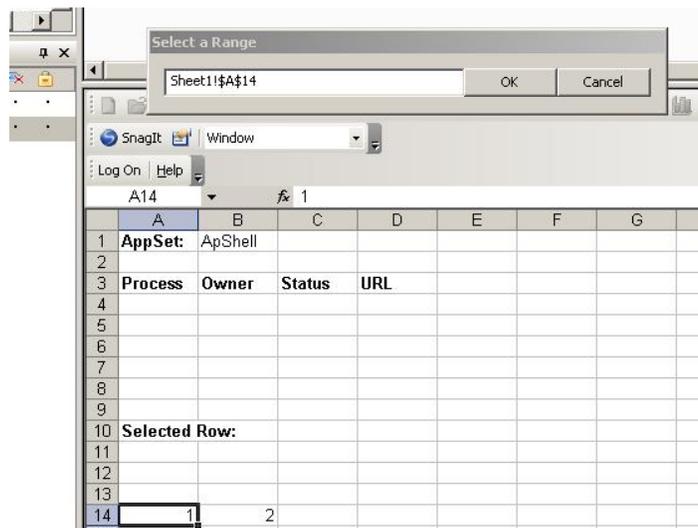
35. In cell "A14" type the number 1 and in cell "A15", type the number 2.



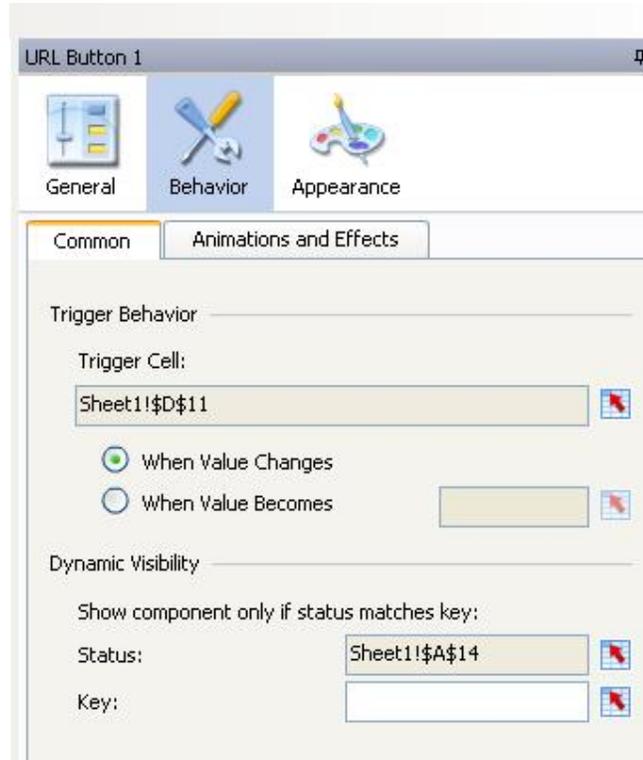
36. Under dynamic visibility, choose the range selector for "Status"



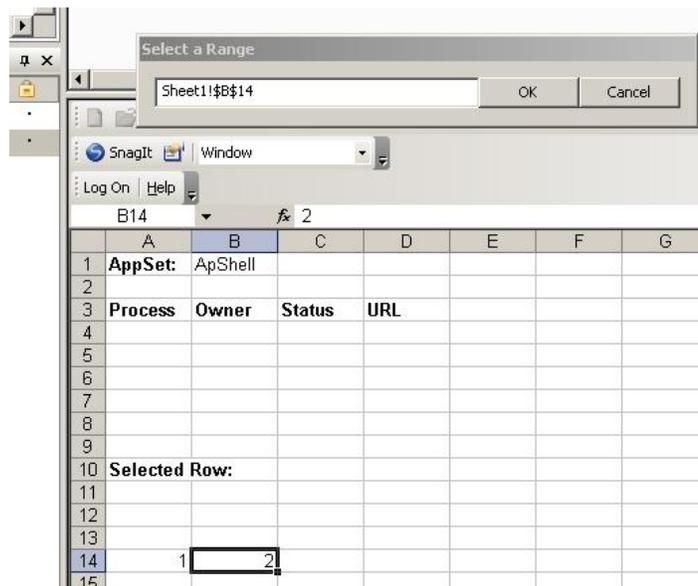
37. Choose "A14" and click OK.



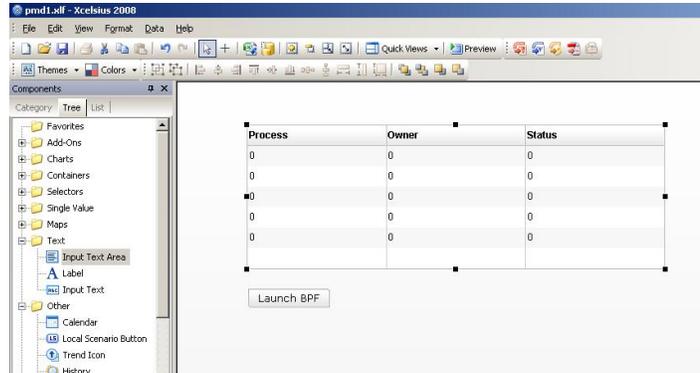
38. Under dynamic visibility, choose the range selector for "Key"



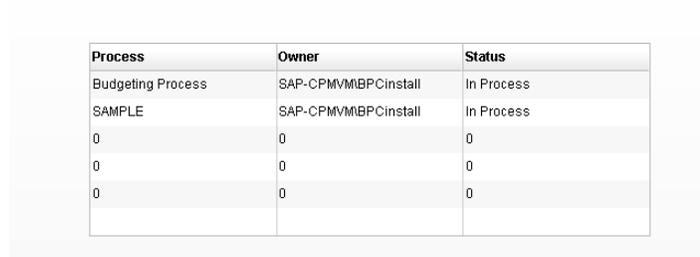
39. Choose cell "A14" and click OK.



40. Make sure you've specified the AppSet in cell "B1" (in this case ApShell), and then click Preview.



41. You will see the BPFs for this AppSet as well as their status. You can click on any BPF to launch that BPF.



6.2 Publish the dashboard in BPC Content Library

For information on how to publish Xcelsius models to the BPC Content Library, see this how-to guide.

<https://www.sdn.sap.com/irj/scn/go/portal/prtroot/docs/library/uuid/70905ce0-26c5-2b10-32bc-d60ee40127a8>