

Platform - Using Report Parameters

Overview

This document will describe how to customize report parameters in the Connect5 runtime environment.

In the ReadyToRun configuration the console will be running at:

http://localhost:8080/connect5

Also, in the web/WEB-INF/properties/dev/pilotfish.properties please comment out the first instance of com.pilotfish.eip.configDirectory and uncomment the second.

Background

Report parameters are specified in an xml structure like the one shown below:

```
<Config>
  <Params>
    ...
    <Param>
      <ParamName>LOB</ParamName>
      <ParamAttribute>com.agencyport.lob</ParamAttribute>
      <ColumnLabel>LOB</ColumnLabel>
      <ColumnType>message</ColumnType>
      <FieldLabel>LOB</FieldLabel>
      <FieldType>checkbox</FieldType>
      <FieldStyle>triple</FieldStyle>
    </Param>
    ...
  </Params>
</Config>
```

Logging

Report

Search

At runtime the values from the specified attribute ('ParamAttribute') are extracted and stored into the following database table:

PF_EIP_PARAMLOG		
ID	INTEGER	NOT NULL
MESSAGEID	INTEGER	NOT NULL
TRANSACTIONID	INTEGER	NOT NULL
NAME	VARCHAR(10)	NOT NULL
VALUE	VARCHAR(10)	

This table combined with the column configuration ('ColumnLabel' and 'ColumnType') above will dynamically add the column to the 'Messages' screen as shown below:

Advanced Search Previous | Rows: 0 to 50 | Next

Msg ID	Interface	Work Item	LOB	Vendor	Biz. Proc.	File Type	Request Time	Response Time	Duration	Complete	Errors
e1aafd26-8cbf-455c-9e6e-ddc48fd5474e	ROOT	7895	CGL	Hawsoft	Upload Bridging	AL3	04/17/2013 02:53:24 PM	04/17/2013 02:54:32 PM	68	Yes	No
c1ad5a20-c7d9-4a20-9ff9-694c277c8c71	ROOT	7895	CGL	Hawsoft	Upload Bridging	AL3	04/17/2013 02:51:49 PM	04/17/2013 02:52:01 PM	11	Yes	No
33874868-30b0-4f9a-9efd-1bbb48763d34	ROOT	1234	CGL	Hawsoft	Upload Bridging	PDF	04/17/2013 02:50:02 PM	04/17/2013 02:50:15 PM	12	Yes	No
669af173-4177-4d99-bcfb-3553604b1cd7	ROOT		CGL	Hawsoft	Upload Bridging	PDF	04/16/2013 03:24:33 PM	04/16/2013 03:25:08 PM	34	Yes	No
083e4ea1-394c-46cf-b2a0-9692ae59463a	ROOT		CGL	Hawsoft	Upload Bridging	AL3	04/16/2013 03:24:32 PM	04/16/2013 03:25:06 PM	33	Yes	No
62297d49-08e5-45d9-9fbb-9654b7cb0538	ROOT		AUTOB	Applied	Upload Bridging	XML	04/16/2013 03:24:26 PM	04/16/2013 03:24:55 PM	28	Yes	No
ae5f8ba9-c7a0-410c-9e87-d3d293d52fb8	ROOT		CGL	Hawsoft	Upload Bridging	AL3	04/16/2013 03:23:22 PM	04/16/2013 03:23:45 PM	23	Yes	No
1d1fa1d5-4411-4528-b15a-3dbdf27fe465	ROOT		AUTOB	Applied	Upload Bridging	XML	04/16/2013 03:23:15 PM	04/16/2013 03:23:39 PM	23	Yes	No
67b154c5-1c38-45a0-88b7-d542ac50a02c	ROOT		CGL	Hawsoft	Upload Bridging	PDF	04/16/2013 03:23:11 PM	04/16/2013 03:23:33 PM	21	Yes	No
11664c00-9692-453e-84c8-19f9d59caf01	ROOT		CGL	Hawsoft	Upload Bridging	AL3	04/16/2013 03:22:55 PM	04/16/2013 03:23:06 PM	10	Yes	No

Report Parameters

The database table is also used to populate the available values when the field configuration ('FieldLabel', 'FieldType' and 'FieldStyle') is set to "checkbox" as shown below:

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Msg ID Contains: Report Parameters

Work Item:

LOB:

☐ AUTOP ☐ AUTOB ☐ BOP

☐ CGL ☐ CPKG ☐ HOME

Vendor:

☐ AMS360 ☐ Hawsoft ☐ Applied

Business Process:

☐ Upload Bridging ☐ Real Time Rating

☐ Service Call

File Type:

☐ AL3 ☐ PDF ☐ XML

Request Date Between:

Response Date Between:

☐ Completed ☐ Incomplete

☐ Errors ☐ No Errors

LOB	Vendor	Biz. Proc.	File Type	Request Time
CGL	Hawsoft	Upload Bridging	AL3	04/17/2013 02:53:24 PM
CGL	Hawsoft	Upload Bridging	AL3	04/17/2013 02:51:49 PM
CGL	Hawsoft	Upload Bridging	PDF	04/17/2013 02:50:02 PM
CGL	Hawsoft	Upload Bridging	PDF	04/16/2013 03:24:33 PM
CGL	Hawsoft	Upload Bridging	AL3	04/16/2013 03:24:32 PM
AUTOB	Applied	Upload Bridging	XML	04/16/2013 03:24:26 PM
CGL	Hawsoft	Upload Bridging	AL3	04/16/2013 03:23:22 PM
AUTOB	Applied	Upload Bridging	XML	04/16/2013 03:23:15 PM
CGL	Hawsoft	Upload Bridging	PDF	04/16/2013 03:23:11 PM
CGL	Hawsoft	Upload Bridging	AL3	04/16/2013 03:22:55 PM

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Configuration

We are going to create a new report parameter. However since the attributes available in the Eclipse code aren't especially meaningful we'll create a fake attribute as well.

Start by creating a configuration file called 'report_param.xml' and place it in the following folder '/WEB-INF/report/'. This is the default location, but it can be configured using the 'report_param.definition_location' property.

The contents of the file will look like this:

```
<Config>
  <Params>
    <Param>
      <ParamName>FILETYPE</ParamName>
      <ParamAttribute>com.pilotfish.FileExtension</ParamAttribute>
      <ColumnLabel>File Type</ColumnLabel>
      <ColumnType>message</ColumnType>
      <FieldLabel>File Type</FieldLabel>
      <FieldType>checkbox</FieldType>
      <FieldStyle>triple</FieldStyle>
    </Param>
  </Params>
</Config>
```

This will create a transaction parameter when the 'com.pilotfish.FileExtension' attribute is populated.

When you start you Server you should now see a new "File Type" column on the Message Log screen:

Messages							
Advanced Search		New Parameter	1 to 7 of 7			Refresh	
Msg ID	Interface	File Type	Request	Response	Duration	Complete	Errors
89dd492a-09bf-4a95-ae3c-1914fdee233c	ROOT	XML	05/15/2013 01:59:30 PM	05/15/2013 01:59:45 PM	13	Yes	No
091e9124-6c2a-49dc-a183-a39da32737d1	ROOT	PDF	05/15/2013 01:59:29 PM	05/15/2013 01:59:44 PM	14	Yes	No
399234d4-a14a-48ba-bb62-f2c55e57265	ROOT	AL3	05/15/2013 01:59:26 PM	05/15/2013 01:59:44 PM	17	Yes	No
f5ec458b-532c-4e41-9e44-b63afb544df7	ROOT	XML	05/15/2013 01:59:22 PM	05/15/2013 01:59:28 PM	6	Yes	No
bd07f96-f81f-4544-b35e-69e931012212	ROOT	AL3	05/15/2013 01:59:10 PM	05/15/2013 01:59:16 PM	5	Yes	No
cb55b8a3-41b0-47e0-a544-ee01de6ba967	ROOT	PDF	05/15/2013 01:58:48 PM	05/15/2013 01:58:54 PM	5	Yes	No
a3e0d60e-0154-4c4e-adaf-92f9993ff3e2	ROOT	PDF	05/15/2013 01:58:33 PM	05/15/2013 01:58:40 PM	7	Yes	No
1 to 7 of 7							

You will also see a new search field:

Let's add a processor to the interface-root/interfaces/stub/routes/service/route.xml file to put a hard coded value into that attribute:

```
<Processor class="com.agencyport.substrate.module.APMessageAttributePopulator"
name="Faux Attrib Populator">
  <ModuleConfig>
    <ExecuteProcessor>true</ExecuteProcessor>
    <AttributeScope>Transaction</AttributeScope>
    <Attribute>[eip_pair:com.pilotfish.FileExtension:eip_name:txt:eip_value]</Attribute>
  </ModuleConfig>
</Processor>
```

Stop/Start the server and observe the Admin Console. Post to the stub again and refresh. Use the search tool. Bask in the warm glow of success.

Bonus

Create a new report parameter that stores the locale preferences of the client. Hint: The HTTP Post Listener automatically creates an attribute called 'com.pilotfish.Locale' with this information.