VALIDATE ACTION

1. Login in to WebGUI
- Log into the DataPower WebGUI with user id and password along with the Domain.

2. Creating a Multi Protocol Gateway service

Configuring the MPG Service
- Click on Multi Protocol Gateway and click on Add button.

- Choose dynamic-backend from **Type** field. In Multi-protocol Gateway Policy click on symbol to add new policy.
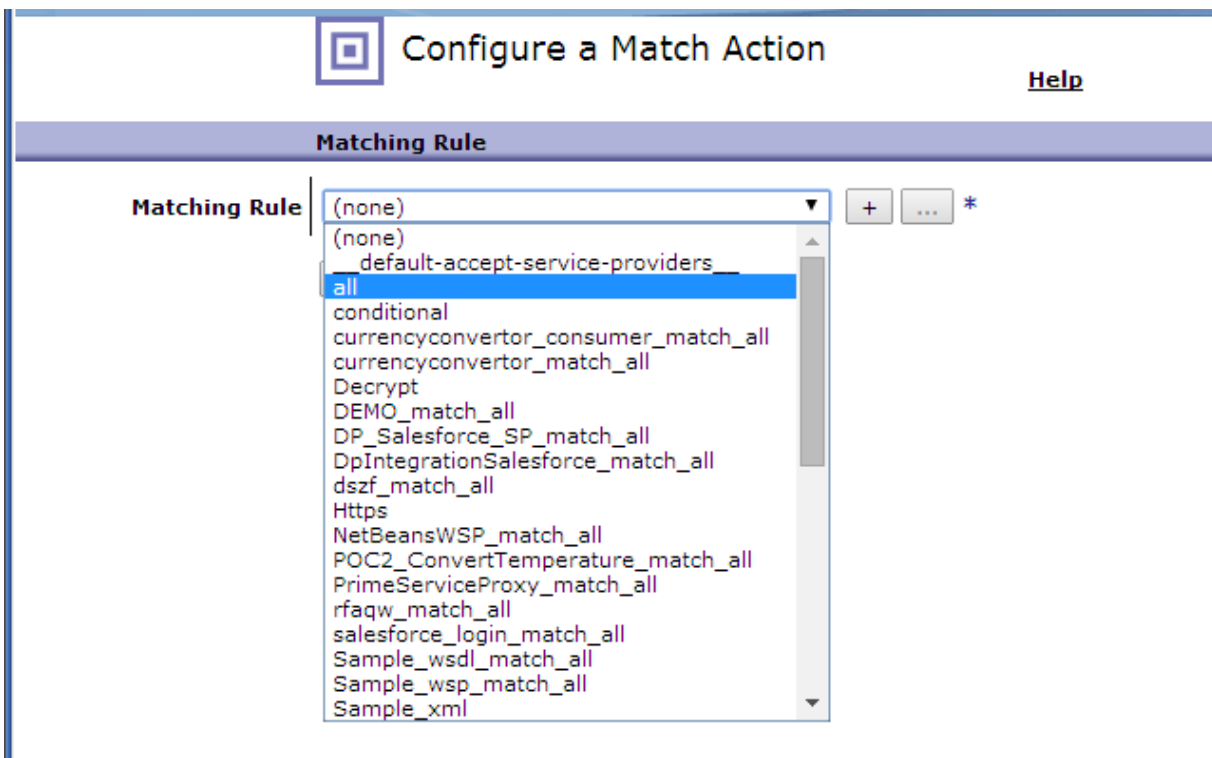
Creation of Policy

- After clicking on you will get policy like this. Assign a name to a policy. Create a new rule, select the rule direction as "Client to Server" and configure the "Match" action as follows.

Creation of Rules

- Double click on match action then "Configure Match Action" window appears.

Configuring Match Action
- Drop down the **Matching Rule,** you will get all the list of already existed **"matching rules"** and pick one **ALL.**

Configure a Match Action

Matching Rule

Matching Rule | (none) ▼ | [+] [...] *

(none)
__default-accept-service-providers__
all
conditional
currencyconvertor_consumer_match_all
currencyconvertor_match_all
Decrypt
DEMO_match_all
DP_Salesforce_SP_match_all
DpIntegrationSalesforce_match_all
dszf_match_all
Https
NetBeansWSP_match_all
POC2_ConvertTemperature_match_all
PrimeServiceProxy_match_all
rfaqw_match_all
salesforce_login_match_all
Sample_wsdl_match_all
Sample_wsp_match_all
Sample_xml

- After selecting Matching Rule click on **done**.

3. Adding Validate Action
Configuring Validation Action

- After double clicking on validation action, it is navigated to "Configure Validation Action" window.
- Click on "Validate Document via Schema URL" radio button.

- Select the "ShipOrder.xsd" file from local folder.

- Now Click on Done

Setting Loopback action

- Drag the **"advanced action"** on to the "client to server rule" and double click it to configure.

- Choose **"Set variable"** method in operation and click on **next**.

- Click on **"var Builder"** in "**service variable**" field.

- In set variable field click on **"service variable" f**rom the list of variables select "**var://service//mpg/skip-backside"**.

- Assign **"1"** in **"variable assignment"** field and click on **done**.

- Drag and drop the **Result Action** on to the "client to server rule"**.**

Configure Multi-Protocol Gateway Style Policy

Policy:

Policy Name: Validate_Policy   *

[Apply Policy] [Cancel]   Export | View Log | View Status | Close Window |

Rule:

Rule Name: Validate_Policy_rule_req   Rule Direction: Client to Server ▾

[New Rule] [Delete Rule]

Create rule: Click New, drag action icons onto line.   Edit rule: Click on rule, double-click on action.

Filter   Sign   Verify   Validate   Encrypt   Decrypt   Transform   Route   AAA   Results   Advanced

CLIENT   ORIGIN SERVER

[Create Reusable Rule]

		Configured Rules		
Order	Rule Name	Direction	Actions	
⇧⇩	Validate_Policy_rule_req	Client to Server	◆ Ⓜ ▲ ◪	delete rule
⇧⇩	Validate_Policy_rule_res	Server to Client	◆ ◪	delete rule

Scroll to top

- Now create the Front Side Protocol in the Front Side Settings i.e., create a new HTTP Front Side Handler.

- Configure "HTTP Front side Handler" page. Assign a name to the handler and specify a unused port in the **PORT Number** field and click on "**Apply**".

HTTP Front Side Handler:Validate_Front_8089 [up]

[Apply] [Cancel] [Undo]

Administrative State	⦿ enabled ◯ disabled
Comments	[ ]
Local IP Address	[0.0.0.0] [Select Alias] *
Port Number	[8089] *
HTTP Version to Client	[HTTP 1.1 ⌄]
Allowed Methods and Versions	☑ HTTP 1.0 ☑ HTTP 1.1 ☑ POST method ☑ GET method ☑ PUT method

- Select the Request and Response as "XML".

- Apply the policy.

- Now your MPG should look as below picture.

Multi-Protocol Gateway Name

Validate_Action *

Summary

Type

- ◉ dynamic-backends
- ○ static-backend *

XML Manager

default ▾ [+] [...] *

Multi-Protocol Gateway Policy

Validate_Policy ▾ [+] [...] *

URL Rewrite Policy

(none) ▾ [+] [...]

Back side settings

With a dynamic proxy back end type, the back end server address and port are determined by a stylesheet in a policy action.

Front side settings

Front Side Protocol

Validate_Front_8089 (HTTP Front Side Handler)

Validate_Front_8089 (HTTP Front Side Handler) ▾ [Add]

*

User Agent settings

Match	Property

Note: To edit the User Agent, please access via the XML Manager above.

SSL Client Crypto Profile

(none) ▾ [+] [...]

Response Type

- ○ JSON
- ○ Non-XML
- ○ Pass through
- ○ SOAP
- ◉ XML

Request Type

- ○ JSON
- ○ Non-XML
- ○ Pass through
- ○ SOAP
- ◉ XML

TEST CASES

ShipOrder.xsd
```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.w3schools.com"
xmlns="http://www.w3schools.com" elementFormDefault="qualified" >
<xs:element name="shiporder">
<xs:complexType>
```

```xml
<xs:sequence>
<xs:element name="orderperson" type="xs:string"/>
<xs:element name="shipto">
<xs:complexType>
<xs:sequence>
<xs:element name="name" type="xs:string"/>
<xs:element name="address" type="xs:string"/>
<xs:element name="city" type="xs:string"/>
<xs:element name="country" type="xs:string"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="item" maxOccurs="unbounded">
<xs:complexType>
<xs:sequence>
<xs:element name="title" type="xs:string"/>
<xs:element name="note" type="xs:string" minOccurs="0"/>
<xs:element name="quantity" type="xs:positiveInteger"/>
<xs:element name="price" type="xs:decimal"/>
</xs:sequence>
</xs:complexType>
</xs:element></xs:sequence>
<xs:attribute name="orderid" type="xs:string" use="required"/>
</xs:complexType>
</xs:element>
</xs:schema>
```

Input File:
ShipOrder.xml

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<shiporder orderid="889923"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://www.w3schools.com"
xsi:schemaLocation="http://www.w3schools.com shiporder.xsd">
<orderperson>John Smith</orderperson>
<shipto>
<name>Ola Nordmann</name>
<address>Langgt 23</address>
<city>4000 Stavanger</city>
<country>Norway</country>
</shipto>
<item>
<title>Empire Burlesque</title>
<note>Special Edition</note>
<quantity>1</quantity>
<price>10.90</price>
</item>
<item>
<title>Hide your heart</title>
<quantity>1</quantity>
<price>9.90</price>
</item>
```

```xml
</shiporder>
```