

Mensaje de error que muestra IBM DataPower

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Body>
    <env:Fault>
      <faultcode>env:Client</faultcode>
      <faultstring>Internal Error</faultstring>
    </env:Fault>
  </env:Body>
</env:Envelope>
```

Uno de los primeros reclamos de los desarrolladores cuando comienzan a utilizar servicios sobre Datapower es los mensajes de error poco explícitos y en siempre con la misma información.

En general la política que aplica el appliance es divulgar la menor información posible hacia el exterior, pero a nivel de administración o logs la información tiene un nivel de detalle adecuado.

Existe una forma muy simple de personalizar los mensajes de error en un servicio XML Firewall en Datapower para obtener respuestas más amigables o que cumplan un determinado formato.

Lo que se debe hacer es agregar una regla de Error a la Política y utilizar una plantilla para obtener el formato deseado.

Paso 1: Crear una Regla de Error

Policy:
 Policy Name: XMLFw_RecSobre *
 Apply Policy Cancel Export View Log View Status Close Window

Rule:
 Rule Name: XMLFw_RecSobre_rule_3 Rule Direction: Error
 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

ORIGIN SERVER CLIENT

Create Reusable Rule

Paso 2:

a - Asignar una plantilla de transformación con el mensaje deseado.

Rule:
 Rule Name: XMLFw_RecSobre_rule_2 Rule Direction: Error
 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

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Create Reusable Rule

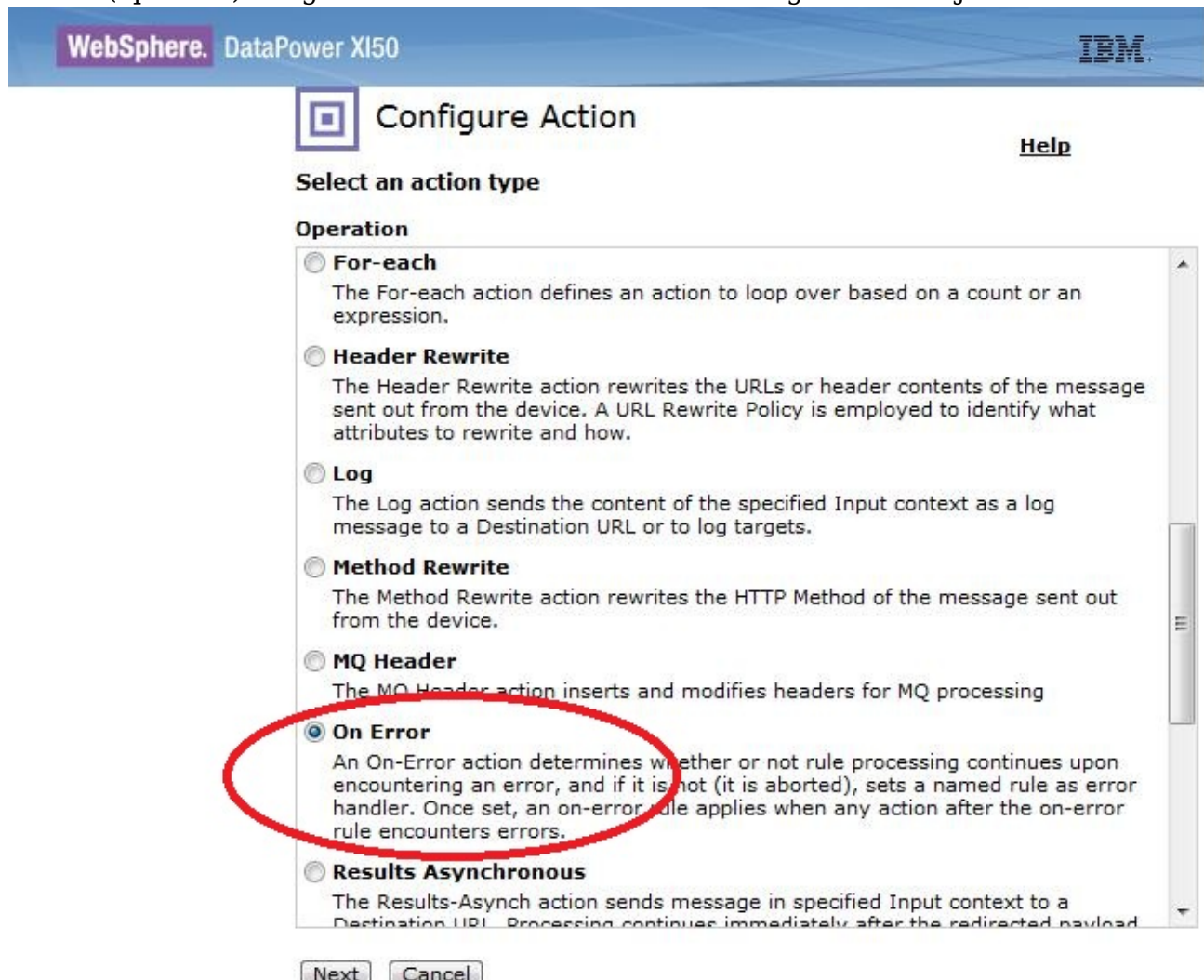
Action: Transform
 XMLFw_RecSobre_rule_2_xform_2
 Action Type: xform
 Input : INPUT
 Transform : local:///Demo/MsgErrorEsquema.xsl
 Output : OUTPUT
 URL Rewrite Policy :
 Dynamic Stylesheet :
 Output Type : default
 Asynchronous : off

Order	Rule Name	Direction	Actions	
↑↓	XMLFw_RecSobre_request	Client to Server	Filter, Sign, Verify, Validate, Encrypt, Decrypt, Transform, Route, AAA, Results, Advanced	delete rule
↑↓	XMLFw_RecSobre_rule_2	Error	Transform	delete rule

b - asignar información de detalle al error

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:fo="http://www.w3.org/1999/XSL/Format"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:fn="http://www.w3.org/2005/xpath-functions"
xmlns:dp="http://www.datapower.com/extensions"
extension-element-prefixes="dp"
exclude-result-prefixes="dp">
  <xsl:templatematch="/">
    <Respuesta>
      <codigo>-99999</codigo>
      <descripcion>No se ha podido procesar el archivo correctamente</descripcion>
      <detalle>
        <xsl:value-of select="dp:variable('var://service/error-message')"/>
        <xsl:value-of select="dp:variable('var://service/error-code')"/>
        <xsl:value-of select="dp:variable('var://service/error-subcode')"/>
      </detalle>
    </Respuesta>
  </xsl:templatematch>
</xsl:stylesheet>
```

Paso 3 (opcional): Asignar una acción de OnError a la relga base de ejecución



The screenshot shows the 'Configure Action' dialog box in the WebSphere DataPower XI50 interface. The 'Operation' section lists several action types, with 'On Error' selected and circled in red. The 'On Error' description reads: 'An On-Error action determines whether or not rule processing continues upon encountering an error, and if it is not (it is aborted), sets a named rule as error handler. Once set, an on-error rule applies when any action after the on-error rule encounters errors.'

WebSphere. DataPower XI50

Configure Action

[Help](#)

Select an action type

Operation

- For-each**
The For-each action defines an action to loop over based on a count or an expression.
- Header Rewrite**
The Header Rewrite action rewrites the URLs or header contents of the message sent out from the device. A URL Rewrite Policy is employed to identify what attributes to rewrite and how.
- Log**
The Log action sends the content of the specified Input context as a log message to a Destination URL or to log targets.
- Method Rewrite**
The Method Rewrite action rewrites the HTTP Method of the message sent out from the device.
- MQ Header**
The MQ Header action inserts and modifies headers for MQ processing
- On Error**
An On-Error action determines whether or not rule processing continues upon encountering an error, and if it is not (it is aborted), sets a named rule as error handler. Once set, an on-error rule applies when any action after the on-error rule encounters errors.
- Results Asynchronous**
The Results-Asynch action sends message in specified Input context to a Destination URL. Processing continues immediately after the redirected payload.

The image shows two screenshots from the IBM DataPower configuration console. The left screenshot displays the 'Policy' configuration page for 'XMLFw_RecSobre'. It shows a rule named 'XMLFw_RecSobre_request' with a direction of 'Client to Server'. Below the rule name, there is a visual representation of the rule flow starting from a 'CLIENT' icon and passing through several action icons: Filter, Sign, Verify, Validate, Encrypt, Decrypt, Transform, Route, AAA, Results, and Advance. The right screenshot shows the 'Configure On Error Action' dialog box. The 'On Error' section is highlighted with a red circle, showing the 'Error Mode' set to 'Cancel' and the 'Processing Rule' set to 'XMLFw_RecSobre_rule_2'. Other fields include 'Error Input' and 'Error Output', both set to '(none)', and an 'Asynchronous' checkbox which is currently unchecked. Buttons for 'Delete', 'Done', and 'Cancel' are visible at the bottom of the dialog.

De esta forma muy simple se puede lograr una respuesta mas adecuada al desarrollador o al programa que consume los servicios expuestos en Datapower.

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Si te ha interesado este artículo y deseas un apoyo o asesoría en algún requerimiento, envíame un mensaje a: (info@juliopari.com) o sino a través de LinkedIn: <https://www.linkedin.com/in/juliopari/>