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# Integrating DataPower with Websphere Service Registry and Repository

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WebSphere<sup>®</sup> Support Technical Exchange





### **Objectives**

- This session discusses configuring DataPower with WebSphere® Registry and Repository (here after called WSRR) to achieve dynamic service integration. It shows the configuration steps required for integrating DataPower with WSRR, and discusses the error handling and trouble shooting functionality.
- Basic knowledge of DataPower and WSRR is assumed.





### Agenda

- Common Usage Pattern
- Configuration
- Error handling
- Troubleshooting
- Summary



### **Common Usage Pattern**

- ESB Gateway Pattern
  - Controlling point to provide access to services
  - Map service end points
  - May provide security, logging and audit capabilities
  - Incorporate mediation logic ?





### Common Usage Pattern

Decoupling service requestors and service providers



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### WebSphere Service Registry and Repository



Govern services throughout the service lifecycle



#### **Enhance Connectivity**

Enable dynamic and efficient interactions between services at runtime.



#### Help optimize service performance Enable impact analysis Enable policy enforcement Collect performance & availability data



- Load the web service to WSRR
  - Use WSRR UI
- Subscribe to the service from DataPower
  - Create WSRR Object
  - Create Web Service Proxy using WSRR subscription
  - Create Local Endpoint (HTTP Front side handler)
  - Create Service Level Monitoring (SLM)



= Home	Welcome to IBM WebSpbe	
Go	Repository	
Business Metadata	WebSphere Service Registry and Re	epository provides clear visibility of service
Load Documents	best practices and policies in your	SOA deployment.
<ul> <li>Document Groups</li> <li>WSDL Documents</li> </ul>	Business Objects	? 💐 Saved Searches
= XSD Documents = XML Documents	EnterpriseApplication EnterpriseModule Manual Client ChannelTable MQ	
<ul> <li>Policy Documents</li> <li>Other Documents</li> <li>B SCA Integration Modules</li> </ul>	Endpoint Manual Client MQ Endpoint Manual MQ Endpoint Manual SOAP Address Message Schema	
+ Service Metadata	Service Documents	? Service Metadata
My Service Registry	Document Groups WSDL Documents	WSDL Messages WSDL Operations
] Administration	XML Documents Policy Documents Other Documents SCA Integration Modules SCA Module Documents	WSDL Port Types WSDL Bindings WSDL Ports WSDL Services XML Schema Complex Types XML Schema Simple Types
	This facility enables you to load one or m group. Specify a file to load, select a doc and a version.	nore documents, with the option to save them as a cument type and, optionally, enter a description
	Path to the Document	
WSBB	<ul> <li>Local file system</li> <li>Specify path</li> </ul>	
VVOITT	C:\usr\work\WSTC-2008\OrderServic	ce.wsd Browse
Web UI	Specify URL	
	Document type WSDL Enter document description: Order Service Enter document version:	

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### Configuration

.oad Documents This facility enables you to load one or more documents, with the option to save them as a group. load, select a document type and, optionally, enter a description and a version.	?
Path to the Document	Load the
Local file system     Specify path     C:\usr\WSTC2008\OrderService.wsdl     Browse	web service
Remote file location     Specify URL	into WSRR
Document type WSDL Enter document description: Ordering Service Enter document version: 1.1	
ОК	

	Documents to be Loaded When all required documents are listed below select either 'Finish' to complete the load or 'Save as a group' if you want to refer to these documents as a document group.
Load	Add Another Document       Finish       Save as a Group       Cancel         OrderService.wsdl (ready to load)   Remove   Replace           Order.xsd (in repository)   Replace
dependencies	Add Another Document Finish Save as a Group Cancel



prasad @RTP DataPower 7

### Configuration

#### DataPower configuration





#### CLI-based commands



#### Configure WSRR server object OBJECTS/Configuration/WSRR Server

Configuration						
Application Domain	C' <u>Refresh List</u>					
Import Configuration File	Name	Status	Op-State	Logs	Admin State	Comments
Include Configuration File	chin-wstc2008 SKILLSWSRR wstc-wsrr61-service	saved saved saved	up up up		enabled enabled enabled	Chin's Test WSRR Prasad Imandi's WSRR Server http://skills.raleigh.ibm.com:9087/WSRRCoreSDO/services/WSRRCoreSDOP
Shell Alias	Add					
UDDI Registry			WSRR	Ser	ver : wsto	c-wsrr61-service [up]
WSRR Server						
			Admir	n Stat nents	e	enabled      disabled      Test WSRR Server
			SOAP	URL		http://skills.raleigh.ibm.com:908 *
			SSL F	roxy	Profile	
			Userr	aper		





# Configure WSRR subscription object Describes target resource to retrieve from WSRR e.g., WSDL OBJECTS/Services/WSRR Subscription





### Configure Web Service Proxy

	Contro	l Panel	/Web	Service	Proxy
--	--------	---------	------	---------	-------



Control Panel

Services

Add









Web Application

(XSL)

Web Service Proxy

Multi-Protocol Gateway

ocol XML Firewall Y

Firewall



Create Web Service Proxy









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Create a New

**Close menu** 

- Create local endpoint handler
  - HTTP front side handler
  - Provide the Local IP address
  - Port number must be

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💽 from WSDL

HTTPS (SSL) Front Side Handler

**FTP Server Front Side Handler** 

TIBCO EMS Front Side Handler

NFS Poller Front Side Handler

**FTP Poller Front Side Handler** 

WebSphere JMS Front Side Handler

**HTTP Front Side Handler** 

MQ Front Side Handler Stateful Raw XML Handler Stateless Raw XML Handler

**IMS Connect Handler** 





### Save Web Service Proxy configuration

Configure Web Service	Proxy		
WSDLs <u>SLM</u> <u>Services</u>	Policy Proxy Settings	Advanced Proxy Settings	Headers/Params 📀
Web Service Proxy Name [up] WSTC-2008-Example-WS-proxy *			
Apply Cancel Delete Refresh	<u>View Log   View Status   !</u>	<u>View Operations   Show Probe   V</u>	/alidate Conformance   Help
Web Service Proxy WSDLs			
<ul> <li>Edit WSDL/Subscription</li> <li>Add WSDL</li> <li>Add UDDI Subscription</li> </ul>			
🔿 Add WSRR Subscription			
WSDL Source Location	Endpoint Handler Summary	WSDL Status WS-I BP	Status Action
WSTC-2008-WSRR-Subscription	1 up / 1 configured	Okay	Remove





#### Subscription Status

STATUS/Web Service/WSRR Subscription Status

Web Service



Refresh Status

WSRR Subscription Status

UDDI Subscription Key Status

UDDI Subscription Service Status

UDDI Subscription Status

Web Services Operation Metrics

Web Services Operations

Web Services WSDLs

WSM Agent Status

WSM Agent Subscribers

WSRR Subscription Service

WSRR Subscription Status

Subscription	Status	Last Refresh	Synchronization Method	Refresh Interval (sec)	WSDLs	
Census-Info-service	Okay	Fri Apr 11 00:54:45 2008	poll	600	1	Synchronize
holiday-service	Okay	Fri Apr 11 00:54:45 2008	poll	600	1	Synchronize
WSTC-2008-WSRR-Subscription	Okay	Fri Apr 11 00:54:45 2008	poll	120	1	Synchronize

Help

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- Subscription Status
- Subscription Name
- Status

Error – local resource may be out of synch with WSRR Okay

Synchronizing

- Synchronization Method Poll vs. Manual
- Refresh Interval
- WSDLs Number of WSDLs related to this subscription



#### □ Subscription Service Status

STATUS/Web Service/WSRR Subscription Service Status

Web Service	Refresh Status				
UDDI Subscription Key Status	Subscription	bsrURI	WSDL Name	Location	Description
UDDI Subscription Service Status					Provides Demographic
UDDI Subscription Status	Census-Info-service	43007a43-1a11-417d.a10c.f3b56ff30cd4	demografix.wsdl	demografix.wsdl	info 0 WSTC
Web Services Operation					Demo
Metrics					Provides US
web Services Operations	holiday-service	4ba28c4b-0a4a-4a64.bf44.20005c2044e6	holidays.wsdl	holidays.wsdl	Holidays -
Web Services WSDLs					WSIC demo
WSM Agent Status	WSTC-2008-WSRR-Subscription	50a89450-6399-4912.8200.814df98100a4	OrderService.wsdl	OrderService.wsdl	Ordering Service
WSM Agent Subscribers					Service
WSRR Subscription Service Status					
WSM Agent Subscribers WSRR Subscription Service Status WSRR Subscription Status	WSIC-2008-WSKK-Subscription	50884450-6399-4912.8200.814079810084	UrderService.wsdl	UrgerService.wsgl	Service





- □ Subscription Service Status
- Subscription Name
- bsrURI specific URI assigned to each WSDL doc
- WSDL Name logical WSDL name as stored in WSRR
- Location File name
- Description





### Testing the Web Service Proxy:

Input: curl.exe -v --data-binary @wstc-input2.xml -i http://dp7:5090/services/OrderService -H "Content-Type: text/xml"

Output:

HTTP/1.1 200 OK X-Backside-Transport: OK OK Connection: Keep-Alive Transfer-Encoding: chunked Content-Type: text/xml Content-Language: en-US Date: Wed, 16 Apr 2008 12:43:58 GMT Server: WebSphere Application Server/6.1 X-Client-IP: 9.67.168.116

<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Header/><soapenv:Body><p618:placeOrderResponse xmlns:p618="http://wsrr.integration/orderservice">
</orderID>ID\_123456</orderID></p618:placeOrderResponse></soapenv:Body></soapenv:Envelope>

_	
_	

- WS-Proxy supports error handling at all levels
- May differentiate Error Handling by Level
- User can control Error Messages returned by Service, Operation or Port
- Two Methods of Error Handling
  - On-error action is used to catch errors in standard processing rule (request or response)
  - Error rule is used to catch errors when error is encountered by the service





#### Configuring Error rule:

- Click the Policy Tab on the WS-Proxy
- Select "Add rule" button from the WS-Proxy level

Configure Web Service Proxy  $\bigcirc$ WSDLs <u>SLM</u> Services Policy Proxy Settings Advanced Proxy Settings Headers/Params :(-) Web Service Proxy Name [up] View Log | View Status | View Operations | Show Probe | Validate Conformance | Help Apply Cancel Delete Refresh Web Service Proxy Policy Open tree to: Proxy | WSDLs | Services | Ports | Operations **proxy:** WSTC-2008-Example-WS-proxy WS-Policy: (default) WS-I Conformance: (none) Priority: Normal 🗱 WSTC-2008-Example-WS-proxy\_defau... (request-rule) ~~ + • WSTC-2008-Example-WS-proxy\_defau... (response-rule) 👄 -👍 Add Rule cription: WSTC-2008-WSRR-Subscription 🛛 🗹 🖾 🕼 🕼 🕼 🕼 WS-Policy: (default) WS-I Conformance: (none) Priority: Normal 👍 Add Rule wsdl: 50a89450-6399-4912.8200.814df98100a4 🛛 🗹 🖾 🔀 🔀 🔀 🕁 WS-Policy: (default) WS-I Conformance: (none) Priority: Normal 👍 Add Rule service: OrderService 🛛 🛩 🗗 🖓 🖓 🖓 🖓 🖓 WS-Policy: (default) WS-I Conformance: (none) Priority: Normal 💠 Add Rule port: OrderPort 🛛 🛩 🖾 😺 😺 😺 😺



#### Configuring Error Rule





#### Configure Set Variable Action

Control Panel/Web Service Proxy/Policy/

Basic Advanced Inp Context IN Opt	Configure Set Variable A ut PUT INPUT	Action	
Basic <u>Advanced</u> Inp Context IN Opt	ut PUT INPUT		•
Inp Context			
Context INI		-	
Opt			
	tions		
	Set Variable	der	
	Custom User ¥ariable	CLOSI	
	Service Variables	FIII ast	
V	ar://service/error-protocol-response	Protocol Error Response	
Variable Name	ar://service/error-subcode	Error Subcode	<b>B</b>
V3	ar://service/expiry	MQ Expiry	
	ar://service/format	MQ Format	
	ar://service/lbhealth/	Loadbalancer Group Member State	BL
	Extension Variables		
	System Variables		
Variable Assignment 200	0 Var Buik	der	
Asynchronous 🔘 o	n 💿 off		~
ione			dp7:9090 🚘



### Configure Transform Action

Control Panel/Web Service Proxy/Policy/

https://dp7:9090 - RTP DataPower 7 - Configure Transform Action - Mozilla Firefox	
Configure Transform Action	
Basic Advanced	۲
h Innut	
Options	
🍪 Transform	
Use Document Processing          OUse XSLT specified in this action          Ouse XSLT specified in XML document processing instructions, if available         Outer XSLT specified in this action on a non-XML message	
Processing Control File local:///soapfault.xsl * local:/// Soapfault.xsl Vupload Fetch *	
URL Rewrite Policy (none) V +	
Asynchronous On 💿 off	
Output	
OUTPUT OUTPUT	
Delete Done Cancel	
Done	dp7:9090 🔗 🔐



#### □ The contents of the "**soap-fault.xsl**" file.

File name: local:/soapfault.xsl		Mode: Edit	
<pre>(?xml version="1.0" encoding="utf-8"?</pre>	>		
xsl:stylesheet xmlns:xsl="http://www	.w3.org/1999/XSL/Transform"		
xmlns:dp="http://www.datapower.com/	extensions"		
extension-element-prefixes="dp"			
exclude-result-prefixes="dp" versio	n="1.0">		
<xsl:template match="/"></xsl:template>			
<pre><xsl:variable <="" name="tranID" pre=""></xsl:variable></pre>	<pre>select="dp:variable('var://service/transaction-id')"/&gt;</pre>		
<xsl:variable <="" name="errorCode" td=""><td><pre>select="dp:variable('var://service/error-code')"/&gt;</pre></td><td></td></xsl:variable>	<pre>select="dp:variable('var://service/error-code')"/&gt;</pre>		
<xsl:variable <="" name="errorMsg" td=""><td><pre>select="dp:variable('var://service/error-message')"/&gt;</pre></td><td></td></xsl:variable>	<pre>select="dp:variable('var://service/error-message')"/&gt;</pre>		
<xsl:variable name="soapFault"></xsl:variable>			
<env:envelope xmlns:env="ht&lt;/th&gt;&lt;th&gt;tp://schemas.xmlsoap.org/soap/envelope/"></env:envelope>			
<env:body></env:body>			
<env:fault></env:fault>			
<env:faultcode>&lt;</env:faultcode>	xsl:value-of select="concat('ERROR CODE : ',		
errorCode)"/>			
<env:faultstring< th=""><th>&gt;<xsl:copy-of select="concat('ERROR MESSAGE : ',&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;errorMsg)"></xsl:copy-of></th><th></th><th></th></env:faultstring<>	> <xsl:copy-of select="concat('ERROR MESSAGE : ',&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;errorMsg)"></xsl:copy-of>		
<env:detail></env:detail>			
<xsl:value-< td=""><td>of select="concat('TRANSACTION ID : ', \$tranID)"/&gt;</td><td></td></xsl:value-<>	of select="concat('TRANSACTION ID : ', \$tranID)"/>		
<xsl:copy-of select="\$soapFault&lt;/td&gt;&lt;td&gt;"></xsl:copy-of>			
<pre>(/xsl:stylesheet&gt;</pre>			



- Change the Rule Type to Error rule.
- Drag the Advanced action icon and select set variable to assign "200" for the DataPower's built-in variable "var://service/error-response-protocol."
- Double-click the Match action, select matching type as "errorcode", Error-codes as "\*" for the Matching rule and save the changes.
- Drag the transform action icon to the processing line.



- Double-click the highlighted Transform icon.
- Upload the processing control file soap-fault.xsl.
- Set *INPUT* in the input context and *OUTPUT* as the output context.
- Click Done. The Transform configuration window closes.
- Click Apply to save the changes.
- Return to Policy Page to verify change.
- Submit faulty request to get the custom error message.



#### Output from the custom error rule.

curl.exe --data-binary Cerr-in1.xml -i "http://dp7:5090/services/OrderService" -H "Content-Type: text/xml"

HTTP/1.0 200 Internal Server Error Content-Type: text/xml X-Backside-Transport: FAIL FAIL Connection: close



Trouble Shooting

Control Panel/Troubleshooting/....

- DataPower System Log
- DataPower Probe
- DataPower File Captures
- DataPower Statistics
- Sanity Checks for WS-Proxy logs



#### Set log level to debug

Troubleshooting Enabled (The performance of the device may be impacted!)



**Troubleshooting Panel** 

Ping Remote Remote Host *	TCP Connection Test Remote Host Remote Port TCP Connection Test
naina	
-999	
Set Log Level	Generate Log Event
View System Logs 🔎	Log Type (none) 💌 +
Log Level debug 💌 🧍	Log Level notice 💌
Set Log Level	Log Message
	Generate Log Event
eporting	
Generate Error Report	Send Error Report
No Error Report Available for Viewing	SMTP Server
Include Internal State 🔿 on 📀 off	Location
Generate Error Report	Email Address



- Check default system log messages
- Enable probe

TATUS	LQ.
Logging	
System Logs	
Audit Lou	

Troubleshooting Enabled (The performance of the device may be impacted!)



Troubleshooting Panel

Main Probe			
Web Service Name	Proxy Op-State	Probe	Disable Probe
ServiceOrderP	roxyWS 💌 🛛 🗛 🗛	Probe	





### Probe Output

🙂 http	os://dp7:9090	Transaction Lis	t for WSTC-2008-	WS-Proxy - N	lozilla Firefox		
	DATAPOW	ER.					
Refre	sh Flush	Disable Probe	Export Capture	View Log	Send Message	Close	
vid go	trans# type	inbound-url			outbound-url		
± 🎤	6802 request	: http://9.42.119	6.49:5090/services,	OrderService	http://SKILLS.raleig	1h.ibm.com:9087/O	rderServiceProject/
	8465 request	: http://9.42.115	.49:5090/services,	/OrderService	http://SKILLS.raleig	1h.ibm.com:9087/0	rderServiceProject/
	8465 respon:	se http://9.42.115	5.49:5090/services,	/OrderService	http://SKILLS.raleig	1h.ibm.com:9087/0	rderServiceProject/
<					12		>
Done							dp7:9090 🚘
ebSph	ere <sup>®</sup> Suppor	t Technical E	xchange				



#### Probe Data from the INPUT context

	vovo mansacrion					
DATAF	POWER					
efrech Flue		Export Capt		Send Message		
				haved wel		
view traits# t	type mound-t	1F1		Doulla-ari		
🔑 6802 r	request http://9.42	.115.49:5090/servi	ces/OrderService http	://SKILLS.raleigh.ibm.co	m:9087/OrderServiceF	rojec
🔎 8465 r	request http://9.42	.115.49:5090/servi	ces/OrderService http	://SKILLS.raleigh.ibm.co	m:9087/OrderServiceF	rojec
🔎 8465 r	response http://9.42	.115.49:5090/servi	ces/OrderService http	://SKILLS.raleigh.ibm.co	m:9087/OrderServiceF	rojec
https://dp7	:9090 - Transactio	n 8465 Context O	- Mozilla Firefox			
Previous		Ĭ	input Context 'INPU	T' of Step 1	2	ext (
			o, 🗠 💿 🛃 🗴	0		
			/			
Step MPolicy=WST	1: SLM Rule Action: FC-2008-WS-Proxy, RetryCount=0, F	Input=INPUT, Outp SOAPValidation=bo RetryInterval=1000	out=Ignore, NamedIn( ody, SQLSourceType= ), MultipleOutputs=off,	OutLocationType=default static, Asynchronous=off IteratorType=XPATH, Ti	, Transactional=off, , ResultsMode=first-av. meout=0	ailab
		Attachments	Local Variables	Context Variables	Clobal Variables	
Conten	T Headers			Concert Cariables		
ntent of con	ntext 'INPUT': OAP-ENV : Envelop					I
ntent of con	OAP-ENV:Envelop mins:xsi="http mlns:xsd="http mlns:q0="http: mlns:SOAP-ENV=		/2001/XMLSchema /2001/XMLSchema ation/orderservi as.xmlsoap.org/s	-instance" .ce" :coap/envelope/"		
Conten	A Headers A Headers A Headers OAP-ENV: Envelop xmlns: xsi="http xmlns: xsi="http xmlns: q0="http: xmlns: SOAP-ENV=		/2001/XMLSchema /2001/XMLSchema ation/orderservi as.xmlsoap.org/s	-instance" .ce" soap/envelope/"		
Conten	CAP-ENV: Envelop mlns: xsi = "http mlns: xsd = "http mlns: q0 = "http xmlns: GOAP-ENV <soap-env: body:<="" td=""><td></td><td>/2001/XMLSchema- /2001/XMLSchema' ation/orderserv' as.xmlsoap.org/s</td><td>-instance" .ce" map/envelope/"</td><td></td><td></td></soap-env:>		/2001/XMLSchema- /2001/XMLSchema' ation/orderserv' as.xmlsoap.org/s	-instance" .ce" map/envelope/"		
Conten	A Headers OAP-ENV:Envelop xmlns:xsd="http xmlns:q0="http: xmlns:SOAP-ENV: SOAP-ENV:Body: SOAP-ENV:Body:		/2001/XMLSchema /2001/XMLSchema ation/orderservi as.xmlsoap.org/s	-instance" .ce" soap/envelope/"		
Conten	<pre>Meaders Meaders M</pre>		/2001/XMLSchema /2001/XMLSchema ation/orderservi as.xmlsoap.org/s	-instance" .ce" soap/envelope/"		
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WebSphere® Support Technical Exchange

- Martin



#### Probe Data from the OUTPUT context

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20	<pre><orderid>ID_123456</orderid></pre>		
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WebSphere® Support Technical Exchange

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 If problem still persists, switch to default domain and enable File Capture

📄 IBM Learning   E-Learning Selection of 🔝 🛛 💵 WebSphere Message Broker	×	🚺 DataPower XI50	
DATAPOWER XI50	(	Domain: default	prasad @ (datapower6.rtp.ral)

- Control Panel/Troubleshooting/Advanced
- Change mode to "All", click on XML File Capture to enable
- Save config

Advanced	
XML File Capture	
View File Capture 🔎	
Mode	
XML File Capture	

 Submit request to generate traffic and examine the input and output contents.



### Sanity Check

- WS-Proxy Active and Listening on Port
- Local endpoint URI Correct
- WS-Proxy Service Received Request
- SOAPAction and Operation Agreement
- Passed Automatic Schema Validation
- Backend Service Active and Available
- Request Transmitted to Correct Back End URL
- Response Received
- Response Passed Automatic Schema Validation
- Response Transmitted Completely to Client



### Summary

- Service virtualization
- WSSR configuration
- DataPower configuration
  - WebGUI based
  - CLI based
- Error Handling
- Troubleshooting





### References

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http://www.ibm.com/developerworks/websphere/techjournal/0805\_peterson/08 05\_peterson.html?ca=drs-

IBM WebSphere DataPower SOA Appliances Part IV: Management and Governance:

http://www.redbooks.ibm.com/redpieces/abstracts/REDP4366.html?Open

WebSphere Service Registry and Repository Handbook

http://www.redbooks.ibm.com/abstracts/SG247386.html?Open





# **Questions and Answers**







### **Configuration - CLI**

- Create WSRR server object
- Establish Configuration Mode for that object
- Provide URL to access remote WSRR Server

#### Example:

```
xi50(config)# wsrr-server wstc-wsrr61-service
New WSRR Server configuration
xi50(config wsrr-server businessRegistry-1)# soap-url
http://<WSRR Server hostname>:9080/WSRRCoreSDO/
services/WSRRCoreSDOPort
xi50(config wsrr-server businessRegistry-1)# exit
xi50(config)#
```





### **Configuration - CLI**

- Create WSRR subscription object
- Establish Subscription Configuration Mode for that object
- Identify remote WSRR Server by its object name
- Specify subscribed Object Type (e.g., WSDL file)
- Identify subscribed Object Name and Namespace
- Specify Synchronization Method
- Exit WSRR Subscription Configuration Mode
- Enter Web Service Proxy Configuration Mode
- Specify the previously created subscription as the source of configuration data for the Web Service Proxy



# **Configuration - CLI**

#### Subscription Example

xi50(config)# wsrr-subscription WSTC-2008-WSRR-Subscription

New WSRR Subscription configuration

xi50(config wsrr-subscription update-WS-Proxy-1)# server wstc-wsrr61-service

xi50(config wsrr-subscription update-WS-Proxy-1)# object-type wsdl

xi50(config wsrr-subscription update-WS-Proxy-1)# object-name OrderService.wsdl

xi50(config wsrr-subscription update-WS-Proxy-1)# namespace http://wsrr.integration/orderservice

xi50(config wsrr-subscription update-WS-Proxy-1)# method poll

xi50(config wsrr-subscription update-WS-Proxy-1)# refresh-interval 3600

xi50(config wsrr-subscription update-WS-Proxy-1# exit

xi50(config) # wsgw WSTC-2008-WS-Proxy

New Web Service Proxy configuration

•••

xi50(config wsgw WS-Proxy-1)# wsrr-subscription WSTC-2008-WSRR-Subscription...

```
...
xi50(config wsgw WS-Proxy-1)# exit
xi50[chin-test](config)# write mem
Overwrite previously saved configuration [y/n]? y
```



### Additional WebSphere Product Resources

- Discover the latest trends in WebSphere Technology and implementation, participate in technically-focused briefings, webcasts and podcasts at: <u>http://www.ibm.com/developerworks/websphere/community/</u>
- Learn about other upcoming webcasts, conferences and events: <u>http://www.ibm.com/software/websphere/events\_1.html</u>
- Join the Global WebSphere User Group Community: <u>http://www.websphere.org</u>
- Access key product show-me demos and tutorials by visiting IBM<sub>®</sub> Education Assistant: <u>http://www.ibm.com/software/info/education/assistant</u>
- View a Flash replay with step-by-step instructions for using the Electronic Service Request (ESR) tool for submitting problems electronically: <u>http://www.ibm.com/software/websphere/support/d2w.html</u>
- Sign up to receive weekly technical My support emails: <u>http://www.ibm.com/software/support/einfo.html</u>