

Name of Solution:

Mapping: Parameter Scope in Parameter File

Business Requirement:

Demonstrate the levels of specifications possible within a parameter file providing ways to define values as Global level and override them if necessary.

Solution URL:

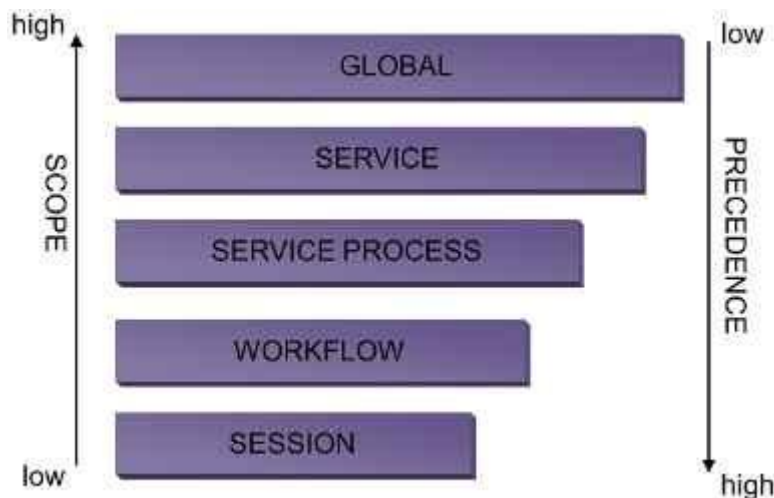
<https://community.informatica.com/solutions/1725>

Supported Versions:

PowerCenter 9.1 and 9.5

Description:

Informatica PowerCenter parameter file allow different levels of specifications in the parameter files.



This will allow the user to specify variables that will have a range of applicability such as all workflows in a repository to a single specific workflow / session. For example in a scenario where you would like to use some timestamp variable for all workflows /sessions, instead of having to specify this for each workflow/session, they can specify this at a global level. Please note that however, these variables still need to be defined at each workflow and mapping level during development.

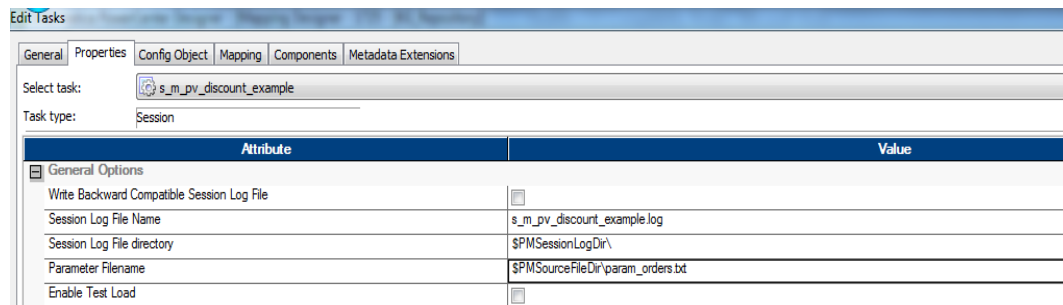
The download will demonstrate the functionality of how using the same parameters file you can use the scope of the different sections to control passing of the values to variables.

Download file contents:

1. Workflow
2. Source File
3. Parameter File

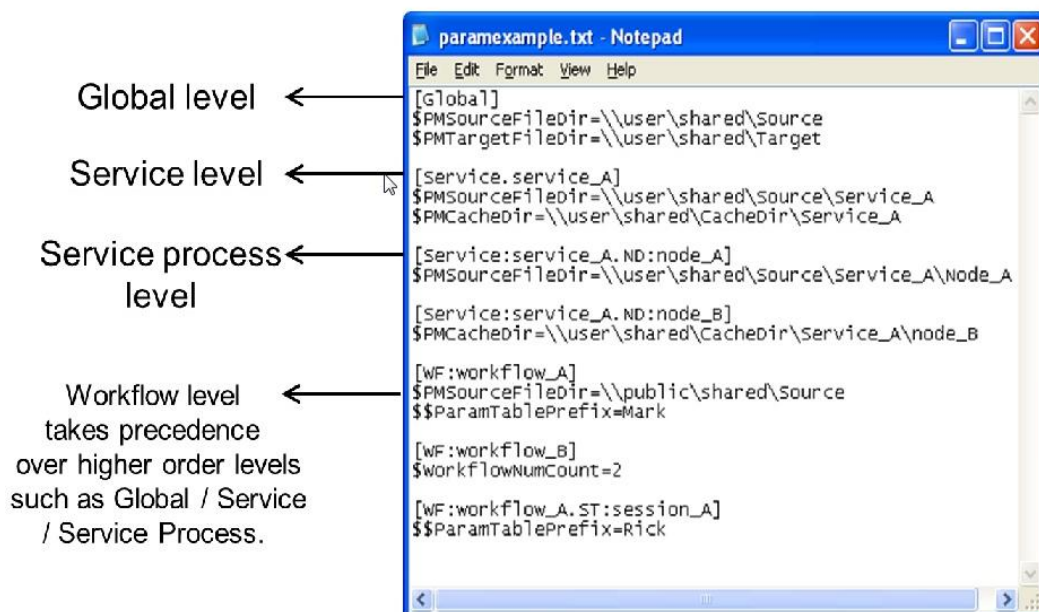
Steps to implement the solution:

1. Place the source files into \$PMSourceFileDir folder. Please replace <Folder Name> with working folder of repository in parameter file.
2. Import workflow using Repository Manager. Select the appropriate folder from repository and resolve the conflicts by choosing suitable option.
3. Open the workflow in Workflow Manager. Assign the integration service in Workflow - > Edit -> Integration Service
4. Edit session and assign valid connection object for the source and target.
5. Observe the parameter filename attributes in session properties.



Attribute	Value
Write Backward Compatible Session Log File	<input type="checkbox"/>
Session Log File Name	s_m_pv_discount_example.log
Session Log File directory	\$PMSessionLogDir\
Parameter Filename	\$PMSourceFileDir\param_orders.txt
Enable Test Load	<input type="checkbox"/>

Observe the parameter file as follows.



Global level ←

Service level ←

Service process level ←

Workflow level takes precedence over higher order levels such as Global / Service / Service Process.

```
[global]
$PMSourceFileDir=\\user\shared\Source
$PMTargetFileDir=\\user\shared\Target

[service.service_A]
$PMSourceFileDir=\\user\shared\Source\Service_A
$PMTargetFileDir=\\user\shared\Target\Service_A

[service:service_A.ND:node_A]
$PMSourceFileDir=\\user\shared\Source\Service_A\Node_A
$PMTargetFileDir=\\user\shared\Target\Service_A\Node_A

[service:service_A.ND:node_B]
$PMSourceFileDir=\\user\shared\Source\Service_A\Node_B
$PMTargetFileDir=\\user\shared\Target\Service_A\Node_B

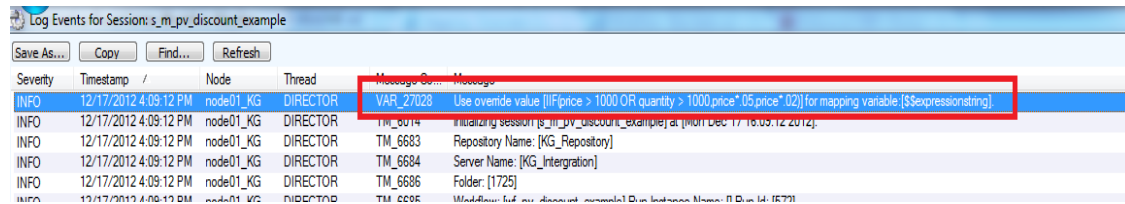
[wf:workflow_A]
$PMSourceFileDir=\\public\shared\Source
$PMTargetFileDir=\\public\shared\Target
$ParamTablePrefix=Mark

[wf:workflow_B]
$PMSourceFileDir=\\public\shared\Source
$PMTargetFileDir=\\public\shared\Target
$workflowNumCount=2

[wf:workflow_A.ST:session_A]
$PMSourceFileDir=\\public\shared\Source
$PMTargetFileDir=\\public\shared\Target
$ParamTablePrefix=Rick
```

6. For more details for importing object please visit our [YouTube](#) link.

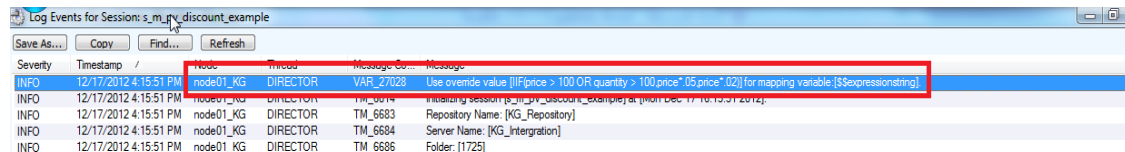
- Run workflow without making any change to the parameter file. You can note in the first line of the session log, that the session level override taking precedence



The screenshot shows a log window titled "Log Events for Session: s_m_pv_discount_example". The first line of the log is highlighted with a red box and contains the message: "Use override value [IF(price > 1000 OR quantity > 1000.price*0.05.price*0.02)] for mapping variable [\$\$expressionstring]". This indicates that the session level override is taking precedence.

Severity	Timestamp	Node	Thread	Message Co.	Message
INFO	12/17/2012 4:09:12 PM	node01_KG	DIRECTOR	VAR_27028	Use override value [IF(price > 1000 OR quantity > 1000.price*0.05.price*0.02)] for mapping variable [\$\$expressionstring].
INFO	12/17/2012 4:09:12 PM	node01_KG	DIRECTOR	TM_6014	Initializing session [s_m_pv_discount_example] at [Fri Dec 17 16:09:12 2012].
INFO	12/17/2012 4:09:12 PM	node01_KG	DIRECTOR	TM_6683	Repository Name: [KG_Repository]
INFO	12/17/2012 4:09:12 PM	node01_KG	DIRECTOR	TM_6684	Server Name: [KG_Integration]
INFO	12/17/2012 4:09:12 PM	node01_KG	DIRECTOR	TM_6686	Folder: [1725]

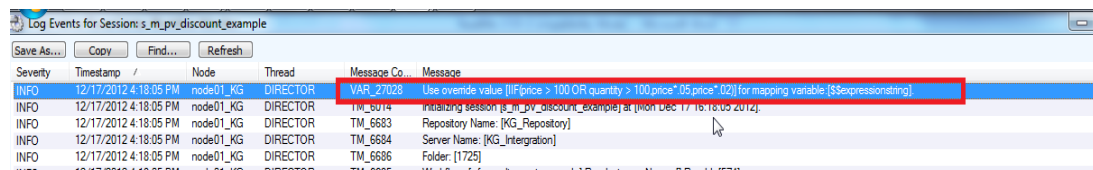
- Run workflow after removing the "session" section from the parameter file. You can note in the first line of the session log, that the workflow level override taking precedence.



The screenshot shows a log window titled "Log Events for Session: s_m_pv_discount_example". The first line of the log is highlighted with a red box and contains the message: "Use override value [IF(price > 100 OR quantity > 100.price*0.05.price*0.02)] for mapping variable [\$\$expressionstring]". This indicates that the workflow level override is taking precedence.

Severity	Timestamp	Node	Thread	Message Co.	Message
INFO	12/17/2012 4:15:51 PM	node01_KG	DIRECTOR	VAR_27028	Use override value [IF(price > 100 OR quantity > 100.price*0.05.price*0.02)] for mapping variable [\$\$expressionstring].
INFO	12/17/2012 4:15:51 PM	node01_KG	DIRECTOR	TM_6014	Initializing session [s_m_pv_discount_example] at [Fri Dec 17 16:15:51 2012].
INFO	12/17/2012 4:15:51 PM	node01_KG	DIRECTOR	TM_6683	Repository Name: [KG_Repository]
INFO	12/17/2012 4:15:51 PM	node01_KG	DIRECTOR	TM_6684	Server Name: [KG_Integration]
INFO	12/17/2012 4:15:51 PM	node01_KG	DIRECTOR	TM_6686	Folder: [1725]

- Run workflow with only [GLOBAL] section in the parameter file. You can note in the first line of the session log, that the GLOBAL assignment taking effect.



The screenshot shows a log window titled "Log Events for Session: s_m_pv_discount_example". The first line of the log is highlighted with a red box and contains the message: "Use override value [IF(price > 100 OR quantity > 100.price*0.05.price*0.02)] for mapping variable [\$\$expressionstring]". This indicates that the GLOBAL assignment is taking effect.

Severity	Timestamp	Node	Thread	Message Co.	Message
INFO	12/17/2012 4:18:05 PM	node01_KG	DIRECTOR	VAR_27028	Use override value [IF(price > 100 OR quantity > 100.price*0.05.price*0.02)] for mapping variable [\$\$expressionstring].
INFO	12/17/2012 4:18:05 PM	node01_KG	DIRECTOR	TM_6014	Initializing session [s_m_pv_discount_example] at [Fri Dec 17 16:18:05 2012].
INFO	12/17/2012 4:18:05 PM	node01_KG	DIRECTOR	TM_6683	Repository Name: [KG_Repository]
INFO	12/17/2012 4:18:05 PM	node01_KG	DIRECTOR	TM_6684	Server Name: [KG_Integration]
INFO	12/17/2012 4:18:05 PM	node01_KG	DIRECTOR	TM_6686	Folder: [1725]

- Observe the target file after every run.

<http://www.youtube.com/playlist?list=PLLrReK2jjgWBQ4NPfp0QWTxYDvInEqSJ>

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