

# Advanced SCV Tips & Tricks

## Adding Conditional Logic to a Process Flow

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# Adding Conditional Logic to a Process Flow

- Objective:
  - Add conditional logic to a process flow so that different activities are executed based on the return code of a preceding activity
- Execute one activity if a Spectrum job returns a return code of 1 (failure) and another activity if a job returns a return code of 0 (success)
- Steps
  - Double-click the transition between two activities of the flow in ED
  - Select the type of transition you wish to add
    - Simple: Select this option if you always want this path in the process flow to execute.
    - Conditional: Select this option if you only want this path in the process flow to execute if the upstream activity returns a specific return code or return codes, or a range of return codes.
    - Otherwise: Select this option if you want this path in the process flow to execute only if the conditions in the other transitions leading from the activity are not met

## Adding Conditional Logic to a Process Flow: 'Run Program' activity

- Spectrum Process Flows 'Run Program' activities, that call an external program, can't access any return code provided by that program
- The external program can write return code (e.g. 0 = success or 1 = failure) to a control table/file that a Spectrum job can read in order to implement Conditional Logic following a 'Run Program' activity

# Adding Conditional Logic to a Process Flow: Example

Inspection Results x ER\_PF\_Party\_DQ\_Consolidation (Process Flow) x

```
graph LR; RunProgram[Run Program] --> CustFile[ER_DF_CustFile CopyStatus]; CustFile --> PartyDI[ER_DF_Party_DI]; PartyDI --> PartyDC[ER_DF_Party_D C]; PartyDC --> PartyIn[ER_DF_Party_In putBatchConsolid ation]; PartyIn --> PartyRepos[ER_DF_Party_R epositoryConsoli dation]; PartyRepos --> PartyUpdate[ER_DF_Party_U pdatePartySearch hIndex]; PartyUpdate --> PartyLoad[ER_DF_Party_Lo adHub]; PartyLoad --> Success[Success];
```

Transition Options

Please indicate what type of transition this is:

- ☐ Simple  
This transition will always be taken.
- ☒ Conditional
- ☐ Otherwise  
This transition will be taken when all other conditional transitions fail.

Valid values include a number, a range in the form "n..m" where n is less than m, a range in the form "..n" which signifies any return code up to and including n, or "n.." which signifies any return code n or greater.

OK Cancel Help

# Adding Conditional Logic to a Process Flow: Run Program

EditPlus - [C:\JP\Single View Training\SCV\_Exercise\_Data\CustFileCopyForProcessing.bat]

File Edit View Search Document Project Tools Browser Window Help

Directory Cliptext

[C:] OSDisk

- C:\
  - Program Files
  - Pitney Bowes
    - Spectrum
      - server
        - app
          - repository
          - logs

```
1
2 set /p Date=<E:\SCV_Exercise_Data\InputDate.txt
3 if %ERRORLEVEL% NEQ 0 goto ERROR
4
5
6 copy "E:\SCV_Exercise_Data\customermain%Date%.txt" "C:\SCV_Exercise_Data\customermain.txt"
7 if %ERRORLEVEL% NEQ 0 goto ERROR
8
9 copy "E:\SCV_Exercise_Data\customeraddress%Date%.txt" "C:\SCV_Exercise_Data\customeraddress.txt"
10 if %ERRORLEVEL% NEQ 0 goto ERROR
11
12 copy "E:\SCV_Exercise_Data\customermail%Date%.txt" "C:\SCV_Exercise_Data\customeremail.txt"
13 if %ERRORLEVEL% NEQ 0 goto ERROR
14
15 copy "E:\SCV_Exercise_Data\customerphone%Date%.txt" "C:\SCV_Exercise_Data\customerphone.txt"
16 if %ERRORLEVEL% NEQ 0 goto ERROR
17 if %ERRORLEVEL% EQU 0 goto SUCCESS
18
19
20 :ERROR
21 ECHO WBSTATUS > C:\SCV_Exercise_Data\CustFileCopyStatus.txt
22 ECHO 1 >> C:\SCV_Exercise_Data\CustFileCopyStatus.txt
23 exit /b
24
25
26 :SUCCESS
27 ECHO WBSTATUS > C:\SCV_Exercise_Data\CustFileCopyStatus.txt
28 ECHO 0 >> C:\SCV_Exercise_Data\CustFileCopyStatus.txt
```

# Adding Conditional Logic to a Process Flow: ER\_DF\_CustFileCopyStatus

Inspection Results x ER\_DF\_CustFileCopyStatus (Job) x

```
graph LR; A[Read from File] --> B[Conditional Router]; B --> C[Write to Null]; B --> D[Transformer]; D --> E[Write to Null 2]
```

Read from File Options

File Properties Fields Sort Fields Runtime

Server name: My Computer

File name: C:/JP/Single View Training/SCV\_Exercise\_Data/CustFileCopyStatus.txt

Record type: Delimited

Character encoding: UTF-8

Field separator: Pipe (|)

Text qualifier: <none>

Record separator: Use default EOL

☒ First row is header record

☒ Treat records with fewer fields than defined as malformed

Import... Export...

Preview

WBSTATUS
0

Conditional Router Options

Please specify condition/expression for each port.

Port ID	Condition/Expression
port	default
port 2	WBSTATUS is equal to 0

Custom

Custom transform name: Custom Transform

Custom script:

```
data['WBSTATUS'] "1"
```

Script Editor

Input fields:

\* Select a field name and press enter to add