#### **PUBLIC**

# Deep dive into SAP Business Technology Platform Workflow Management –Modularize Workflow steps using Reference Subflow

**DEV-264** 

Exercises / Solutions Venugopal Chembrakalathil / SAP SE



## **TABLE OF CONTENTS**

Scenario	
Scenario	.3
Prerequisite	
Configure Sample Context	
Build and Deploy	
Execute and Monitor Workflow	
Summary	30

SAP Business Technology Platform Workflow enables developers to modularize and reuse workflows using Reference Sub flow feature. It is a standard concept in BPMN and helps reusability of workflow steps in business process applications.

#### **REFERENCE SUBFLOW**

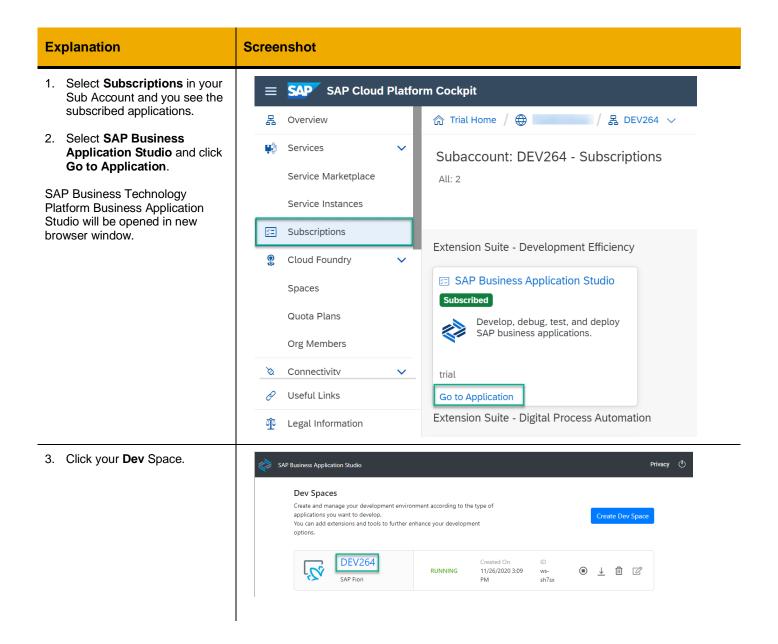
Reference Subflow is a workflow model and it can be referenced from another workflow model. A developer needs to model input and output mapping while adding reference subflow. The parent workflow wait until the Referenced Workflow has completed. Please see <u>SAP Business Technology Platform Workflow</u> help to see more about Reference Subflow.

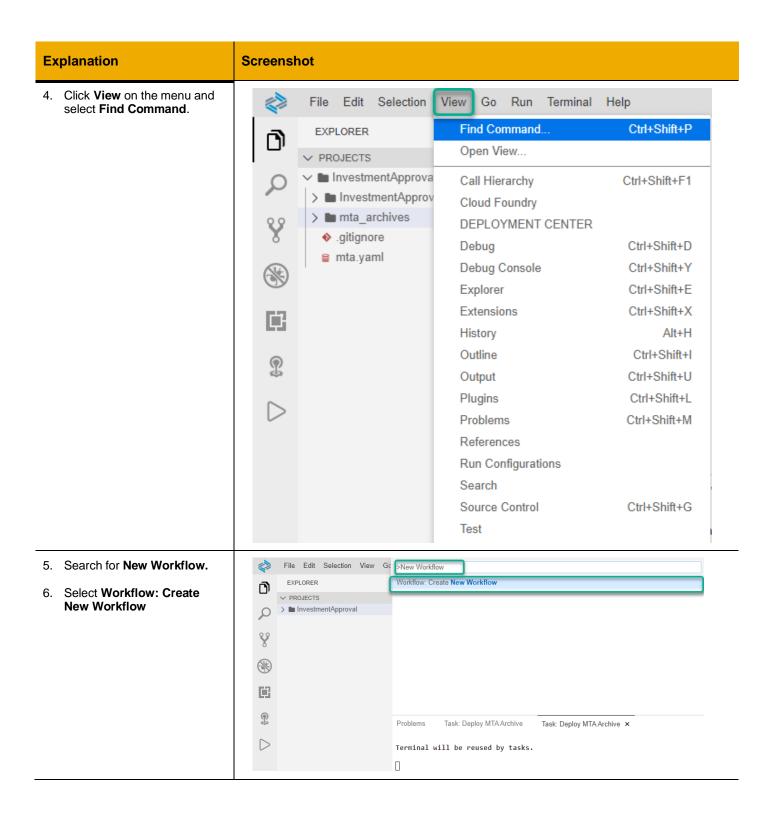
#### Scenario

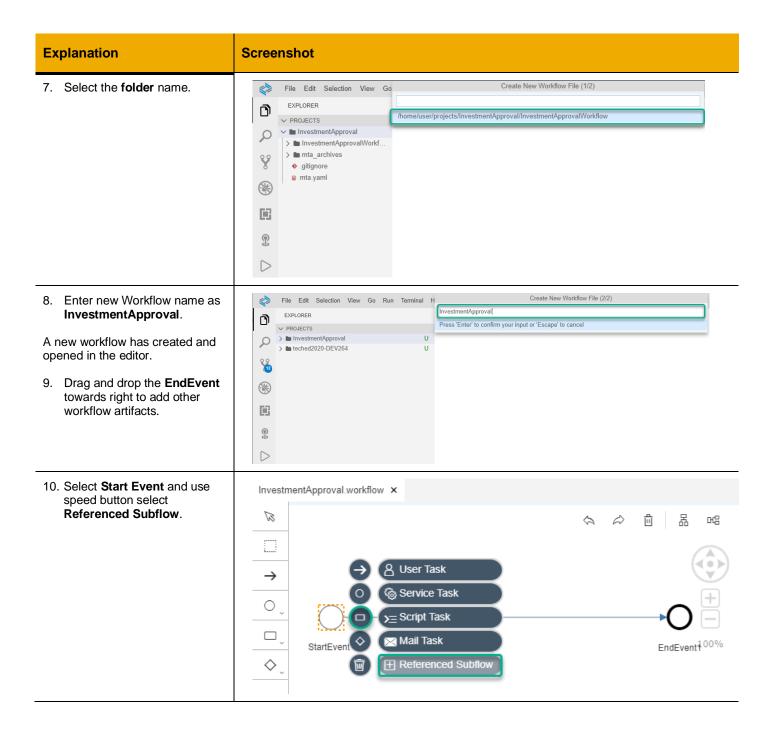
In Exercise 1 you have developed a Cost Center Owner Approval Workflow. You can reuse this model to have multiple cost center owner approvals in an Investment approval use case.

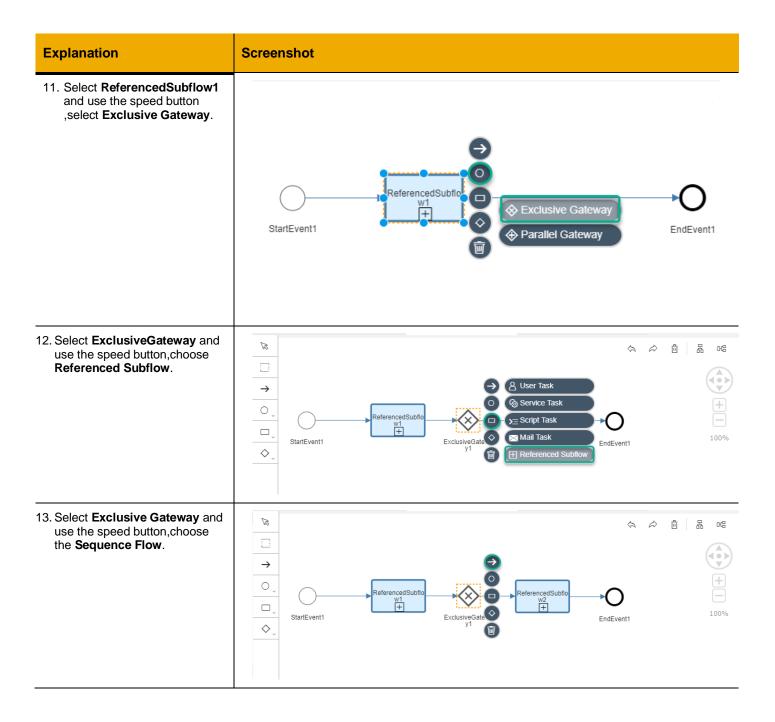
#### **Prerequisite**

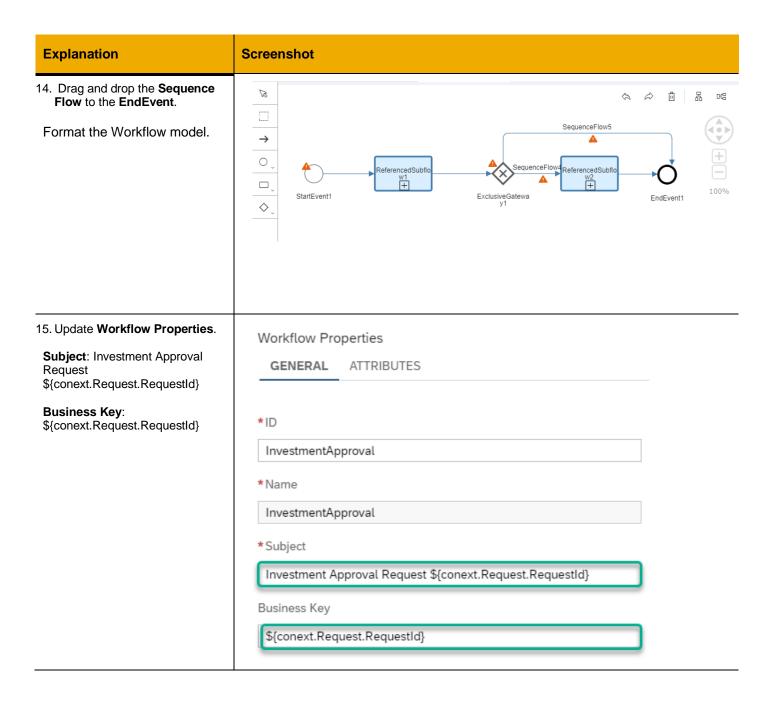
You have completed exercise 1 – Model Investment Approval Workflow

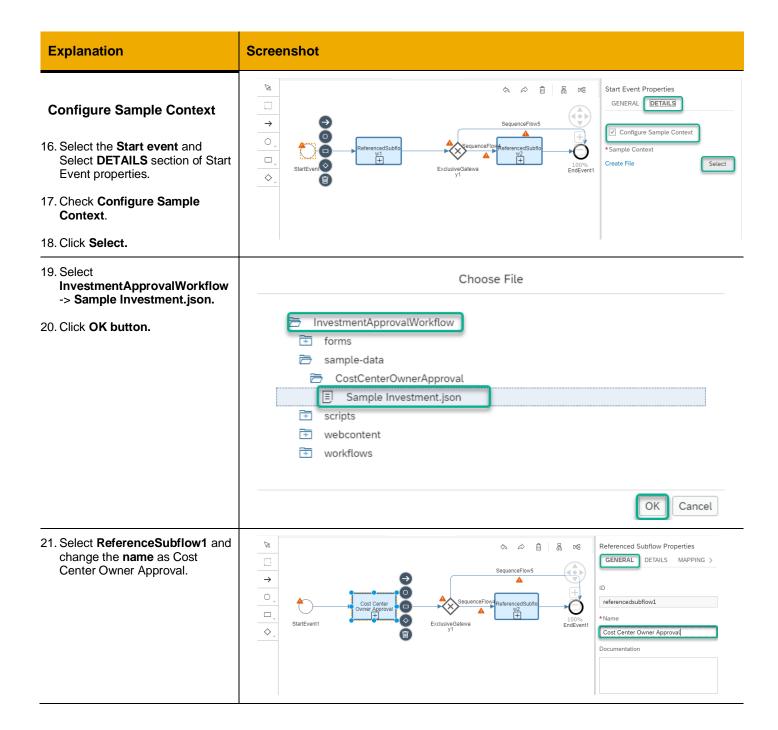


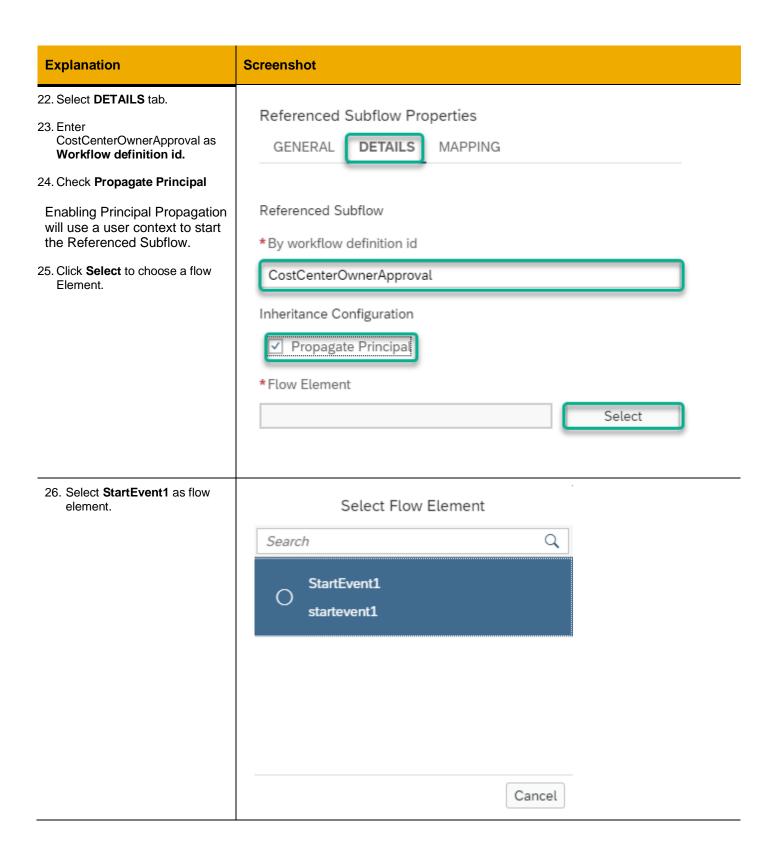




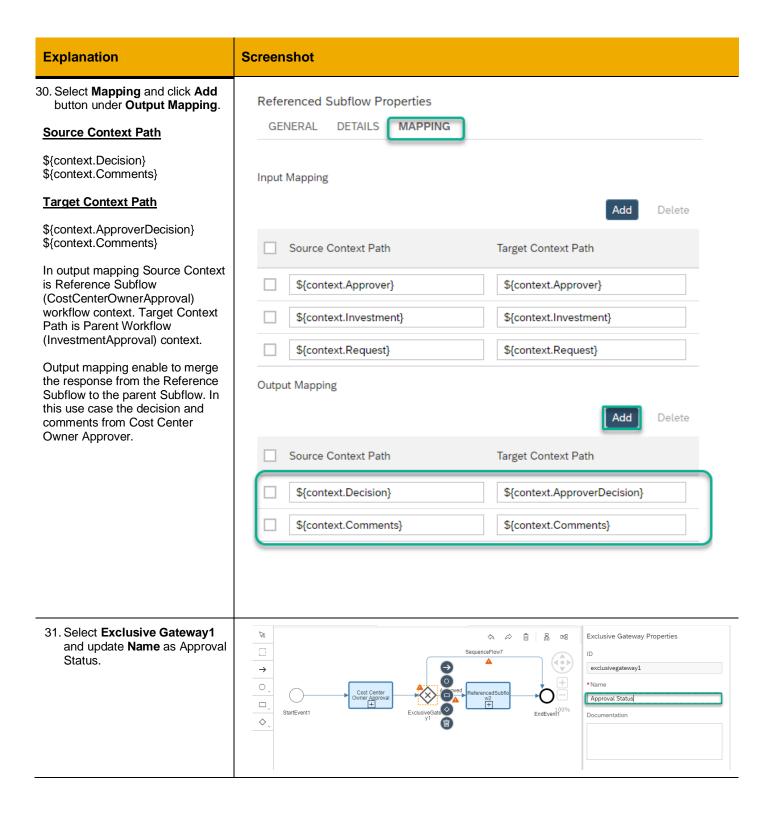


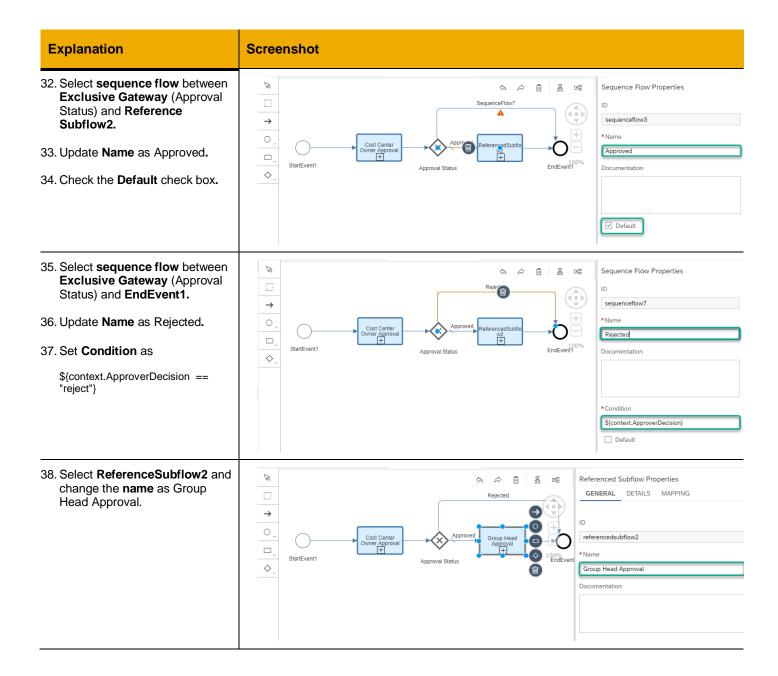


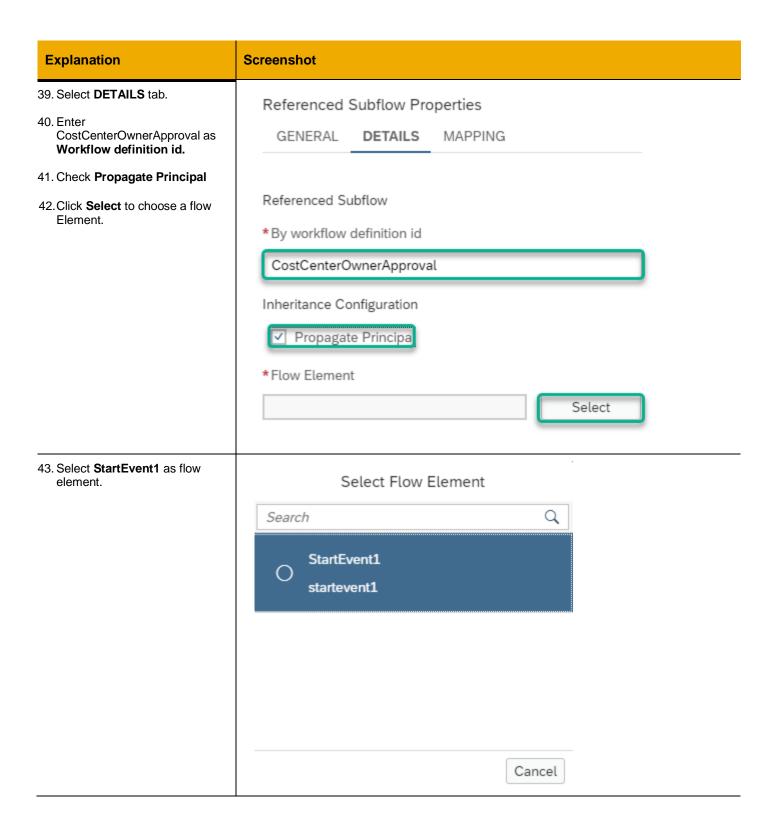


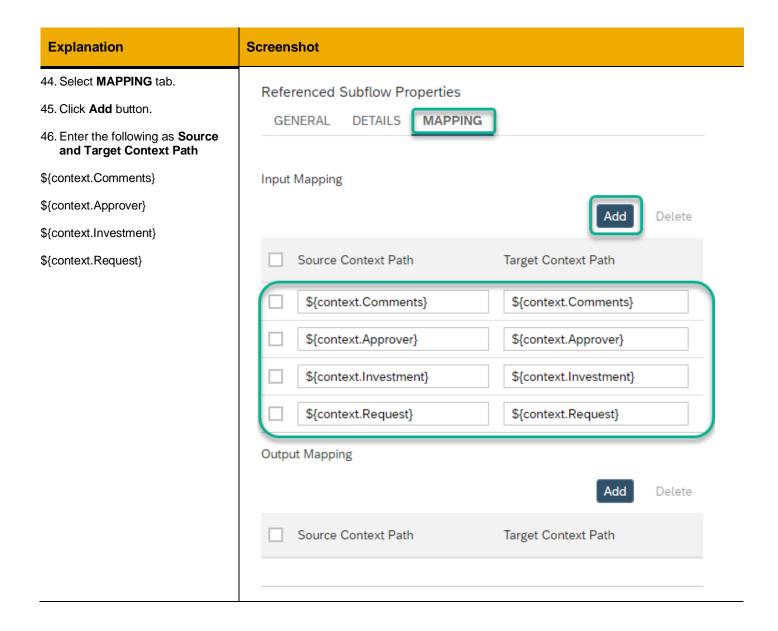


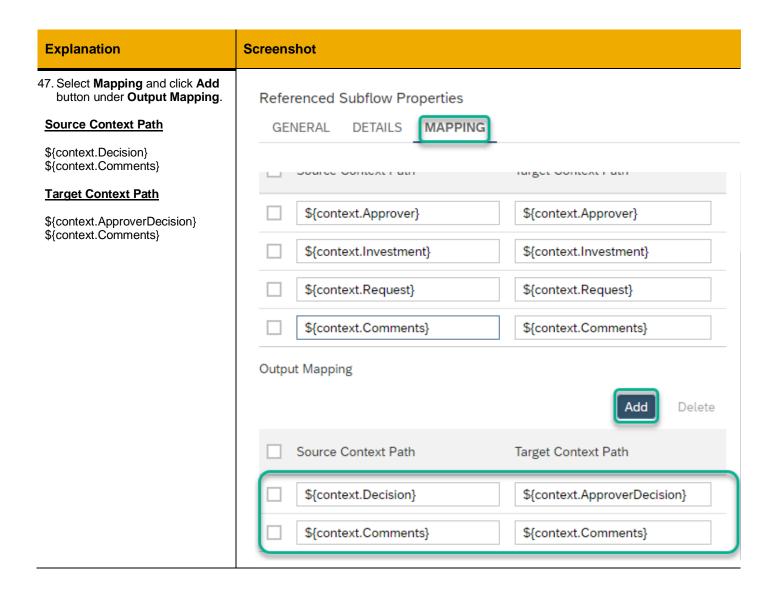
Explanation	Screenshot
<ul><li>27. Select MAPPING tab.</li><li>28. Click Add button.</li><li>29. Enter the following as Source and Target Context Path</li></ul>	Referenced Subflow Properties  GENERAL DETAILS MAPPING
\${context.Approver} \${context.Investment} \${context.Request}	Add   Delete     Source Context Path   Target Context Path     \${context.Approver}   \${context.Approver}     \${context.Investment}   \${context.Investment}     \${context.Request}   \${context.Request}
Input Mapping define the input data structure needs to pass from the parent workflow (InvestmentApproval) context to child or Reference Subflow (CostCenterOwnerApproval) as start payload.	
Both InvestmentApproval and CostCenterOwnerApproval Workflow have the same JSON Elements as workflow context.	
Hence, we use the same in source and target context path. It is possible to have different context elements in source and target context path.	



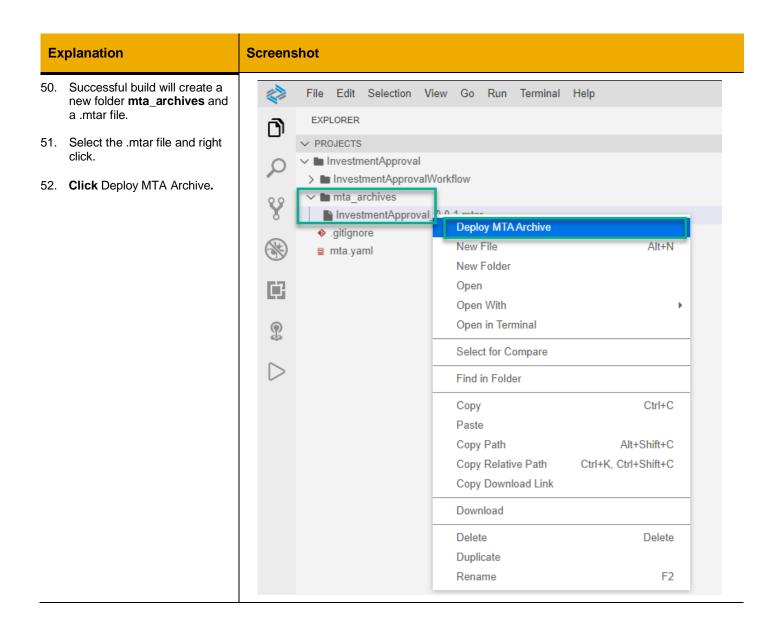


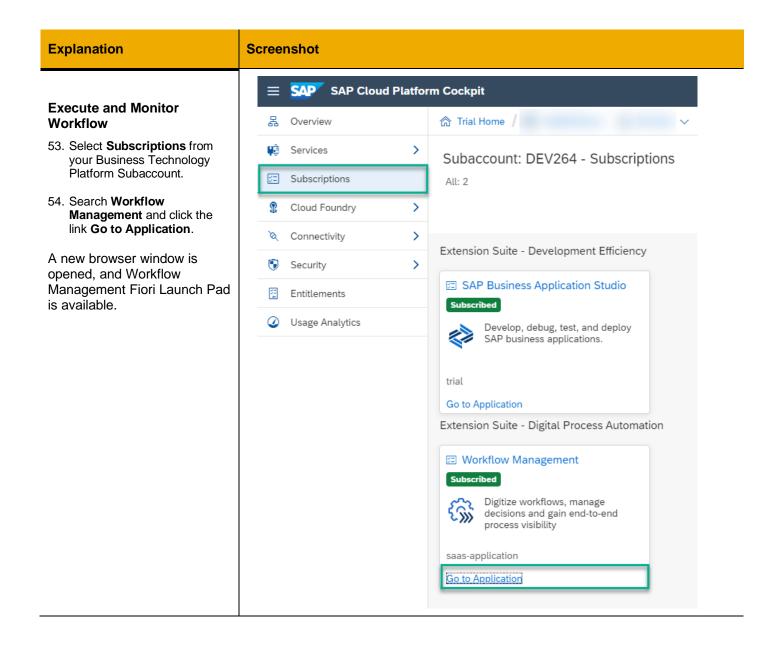


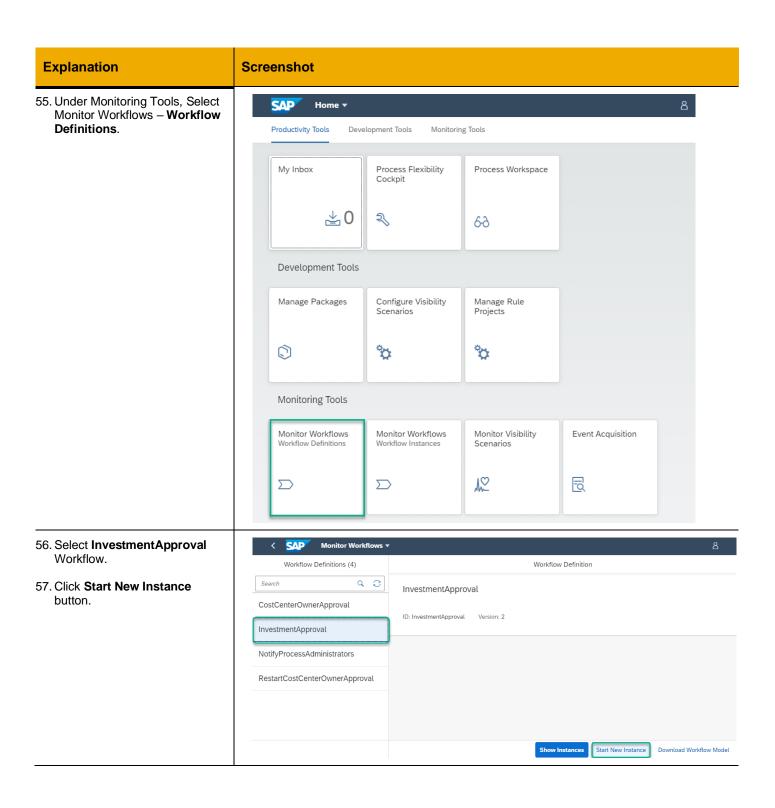


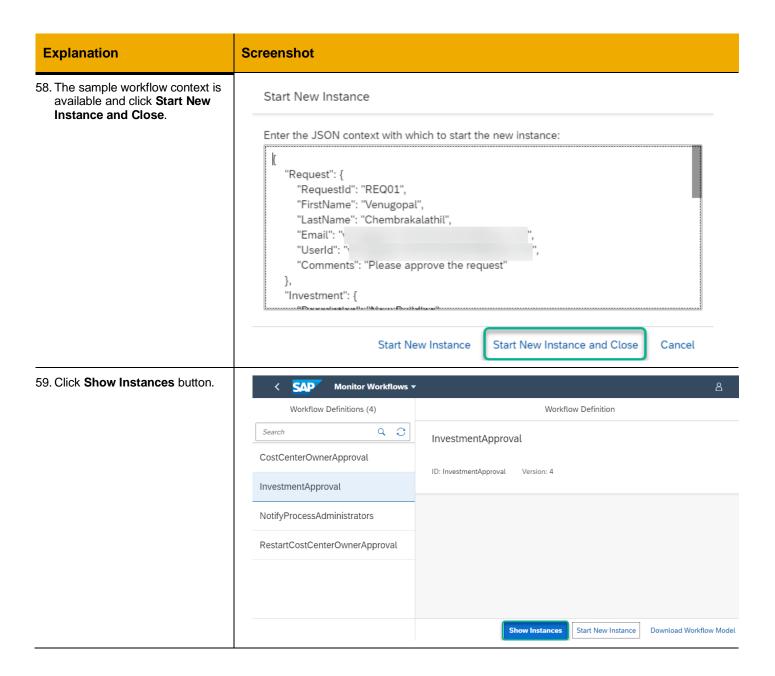


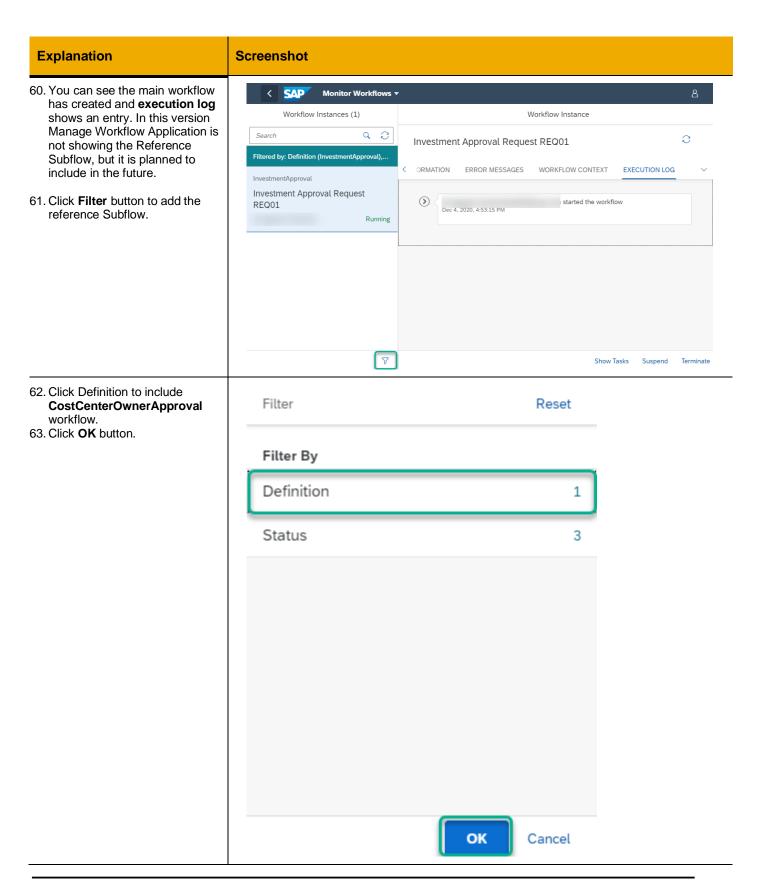
#### **Explanation Screenshot** File Edit Selection View Go Run Terminal Help **Build and Deploy** EXPLORER Create MTA Module from Template 48. Right click on mta.yaml file. ✓ INVESTME **Build MTA** ✓ Investr 49. Select Build MTA. New File Alt+N forms New Folder This will start the MTA build and it V Cos may take a few seconds to create Open Cos the mta archive under the folder Open With > In Noti mta\_archives. > Res Open in Terminal V 🖿 samp Compare With... V 🖿 Cos Select for Compare Sar script Find in Folder V Cos History ೄ ma⊦ Ctrl+C Copy > Res Paste > **m** webc Copy Path Alt+Shift+C workf Cost Copy Relative Path Ctrl+K, Ctrl+Shift+C lnves Copy Download Link Notif Download Rest V 🖿 mta ar Delete Delete Invest Duplicate gitignor F2 mta.yar m ta.yar ta.yar m ta.yar ta.yar

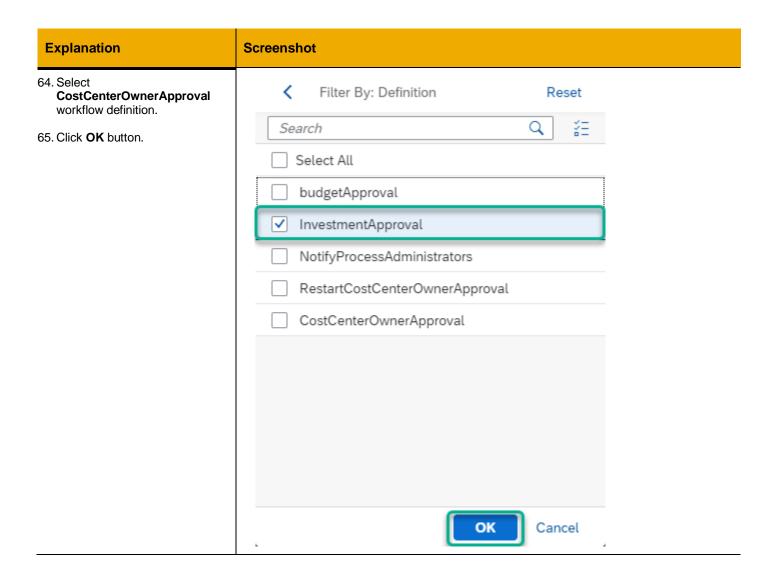


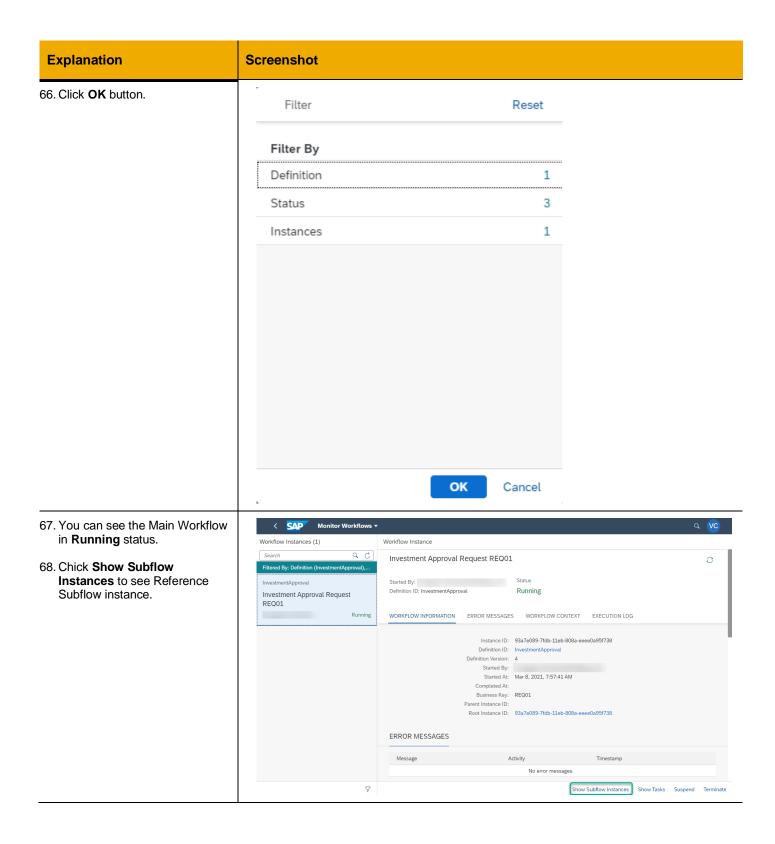


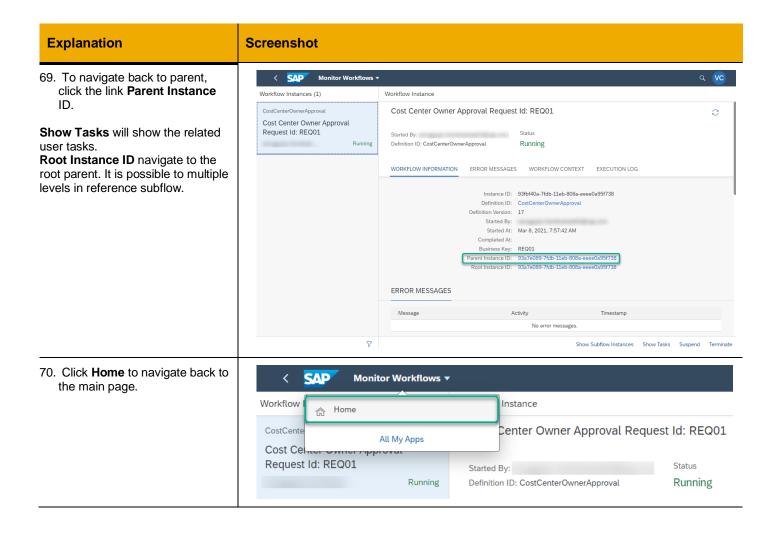


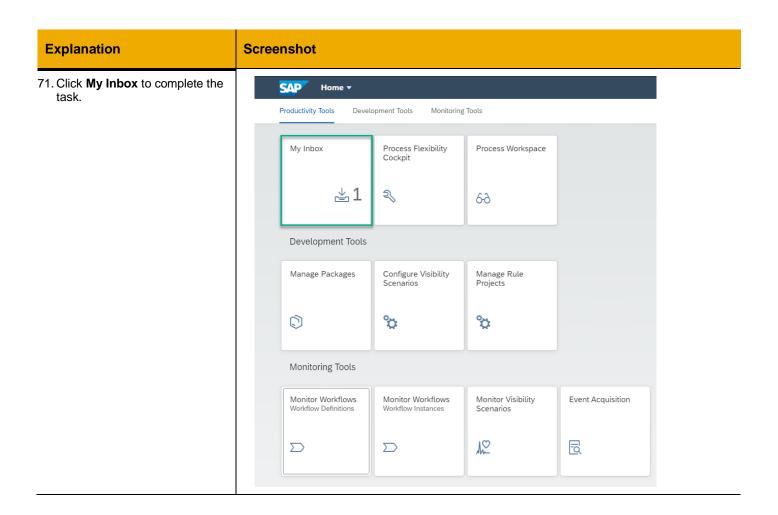


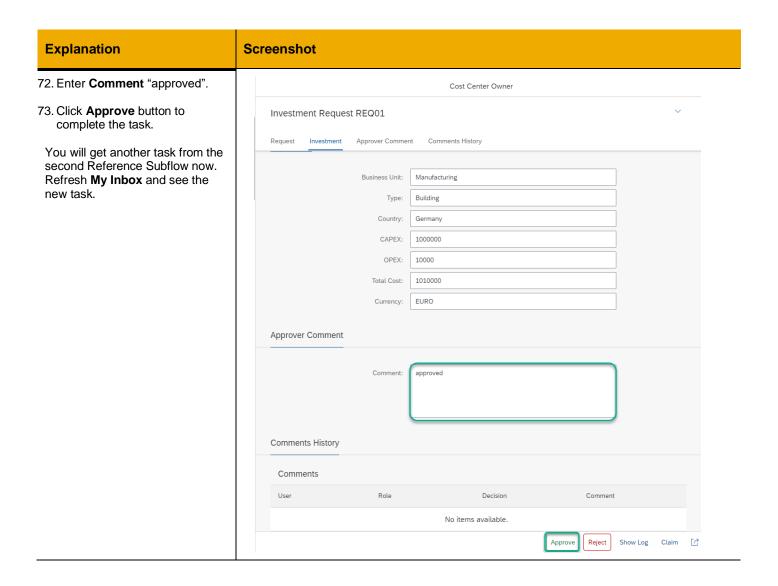


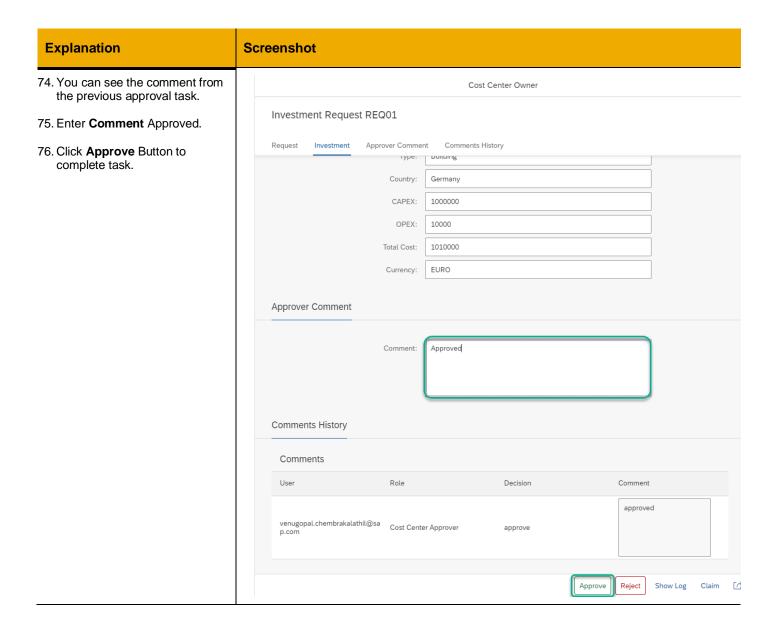


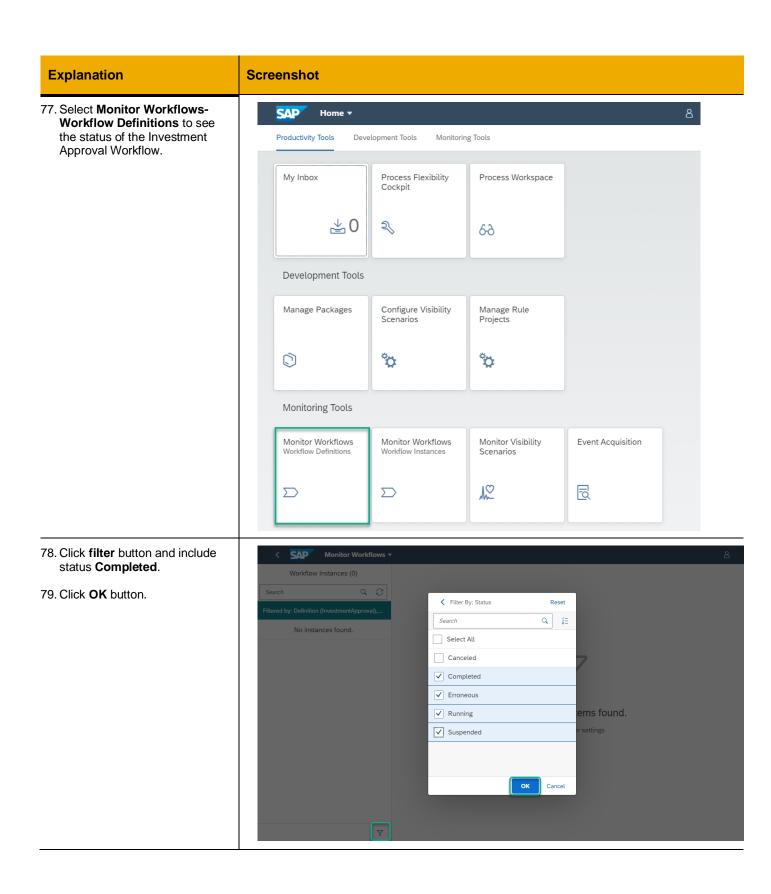


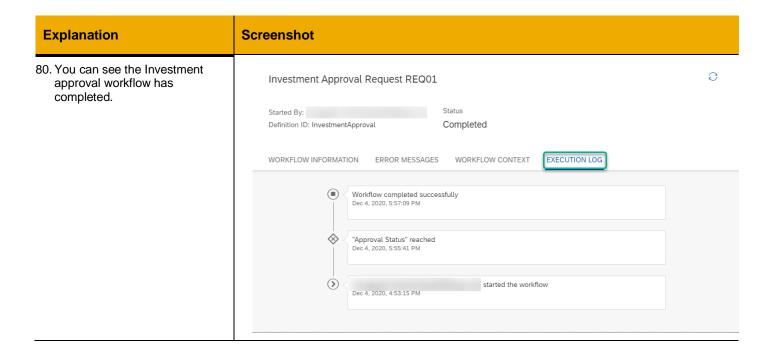












### **Summary**

In this Exercise you have reused a workflow for multiple approvals using Reference Subflow feature. Please see <a href="SAP Business Technology Platform">SAP Business Technology Platform</a> Workflow help to see more about Reference Subflow.

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