

17-OCT-2025

Flows for APEX 25.1

Niels de Bruijn

code of change

 Hyand

Our key facts



Germany

- Brunswick
- Ratingen
- Hamburg
- Dortmund
- Cologne
- Frankfurt
- Munich
- Berlin

Poland

- Warsaw

Romania

- Cluj-Napoca

Lithuania

- Vilnius
- Kaunas

India

- Pune

850+

Employees

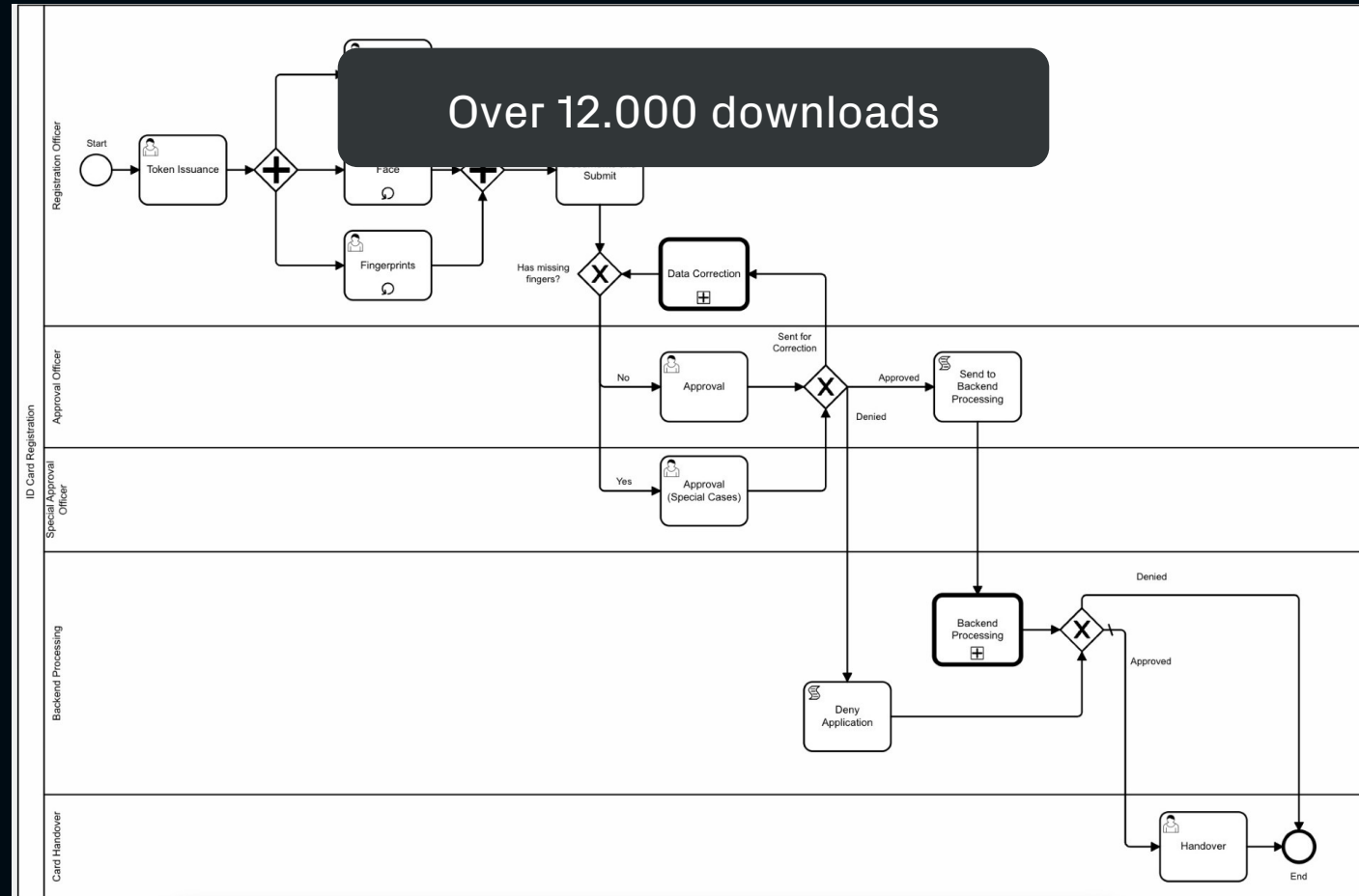
150+

Customers

110+

million €
turnover

Flows for APEX: go with the flow!



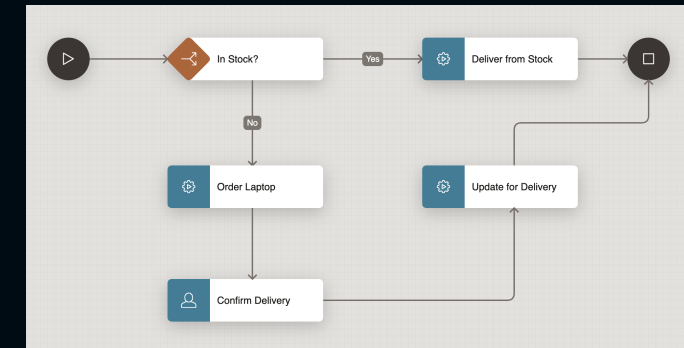
Flows for APEX keeps track of your business processes

Flows for APEX vs. APEX Workflow

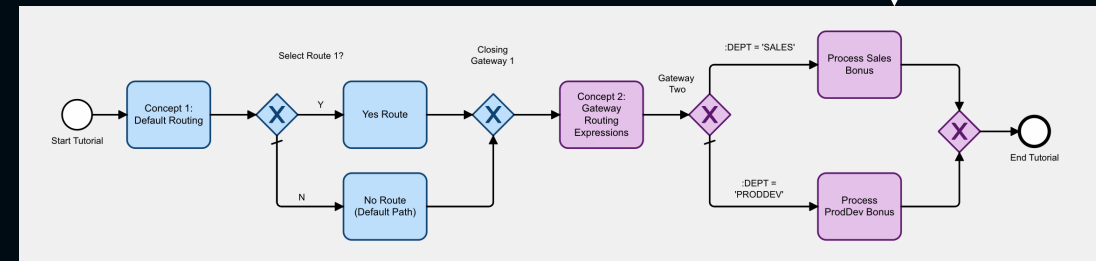


Key differentiators of Flows for APEX

- BPMN 2.0 support
- model first, implement later
- process instance data lies in your schema



APEX Workflow



Flows for APEX

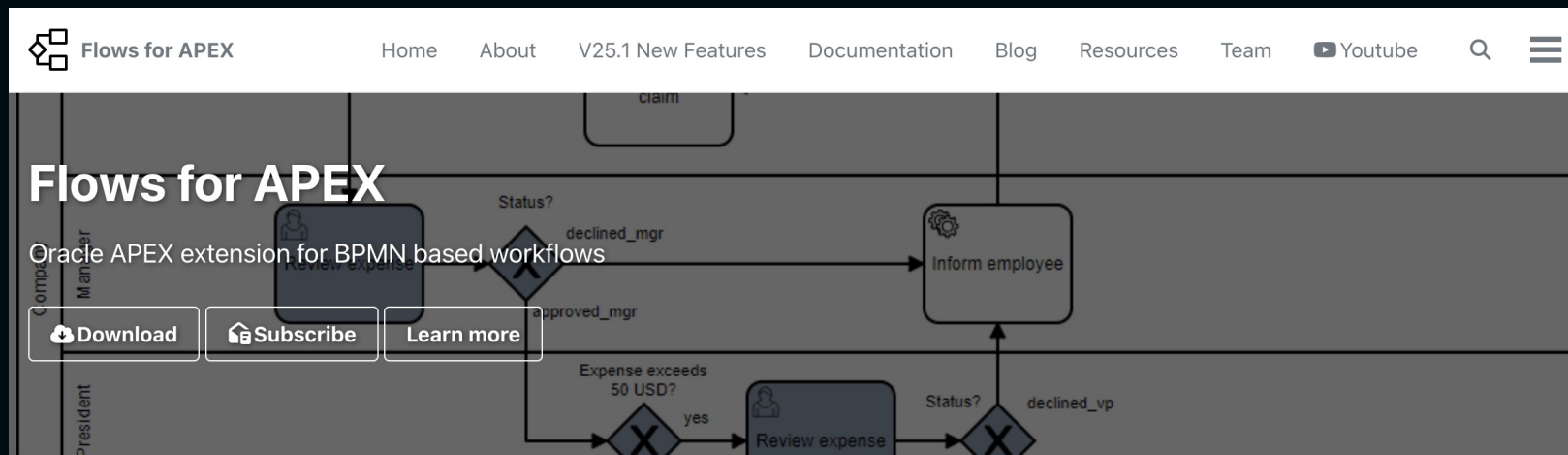
Co-existence is key!

- F4A offers declarative integration of APEX Human Tasks

Flows for APEX 25.1 Community Edition



- Open-source community project initiated in 2020
- Requires Oracle APEX 24.1+ with Oracle DB 19c+
- Download/docs/tutorials on flowsforapex.org



New in F4A 25.1 Community Edition



Instance Timeline

Enhanced logging

Updated Sample Apps

Improved APEX Human Task Integration

AI Agent Service Task

Badges in diagrams

Housekeeping

Usability & Administration Improvements

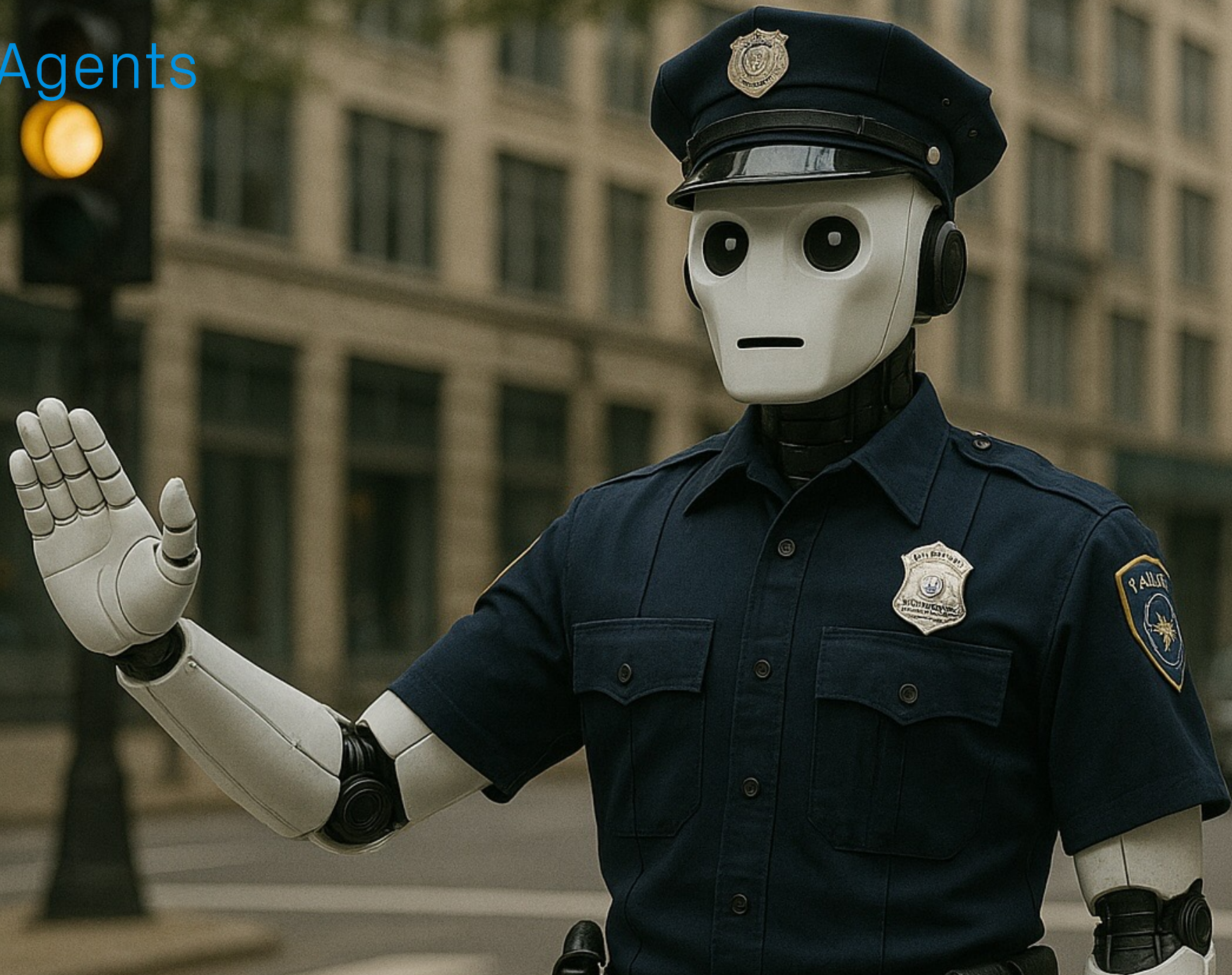
Running Task Status

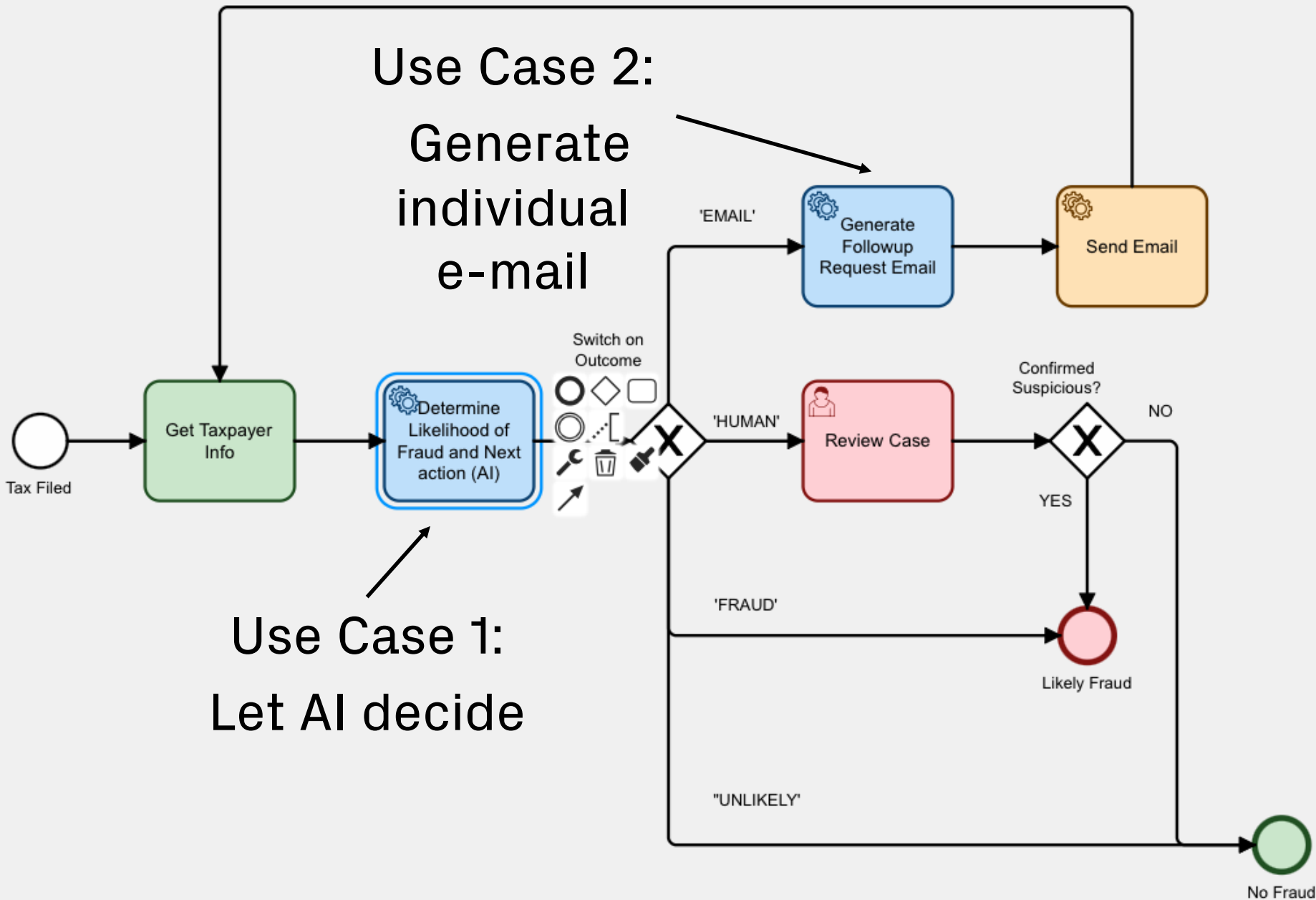
Error boundary event

API enhancements

Usage of APEX component group

AI Agents





SERVICE TASK
Determine Likelihood of Frau...

General

Name

Determine Likelihood of Fraud
and Next action (AI)

ID

Activity_0hgvc4m

Documentation

Task Type

Task Type

APEX AI Generation

APEX AI Generation

- > APEX AI Service
- > AI Temperature
- > AI Prompt

Result Variable

NEXT_ACTION

Name of the variable to return the AI
result into

Variable Expressions

Custom



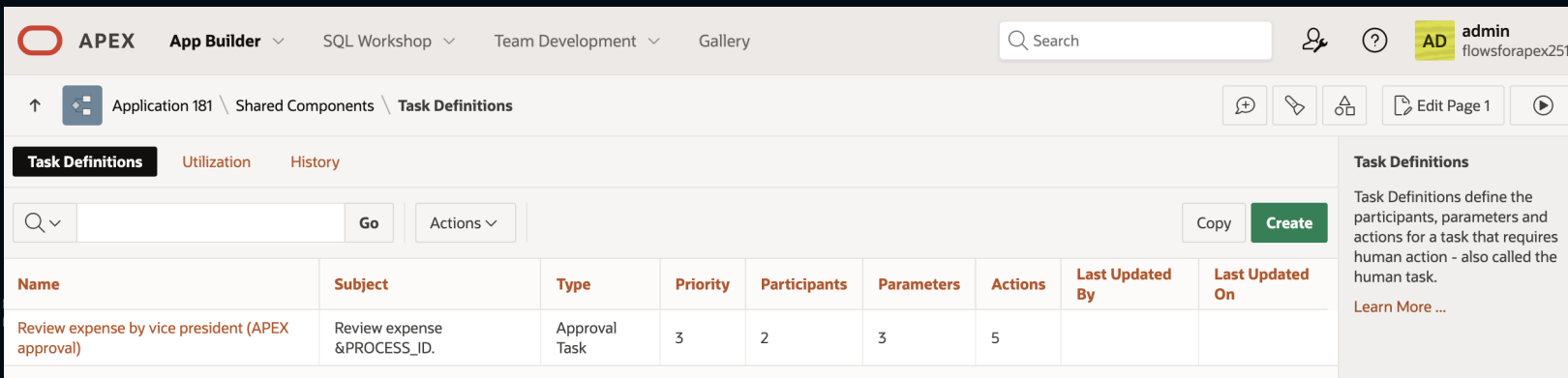
Better coexistence of
Flows for APEX &
APEX Workflow

thanks to an

Improved APEX Human Task
Integration

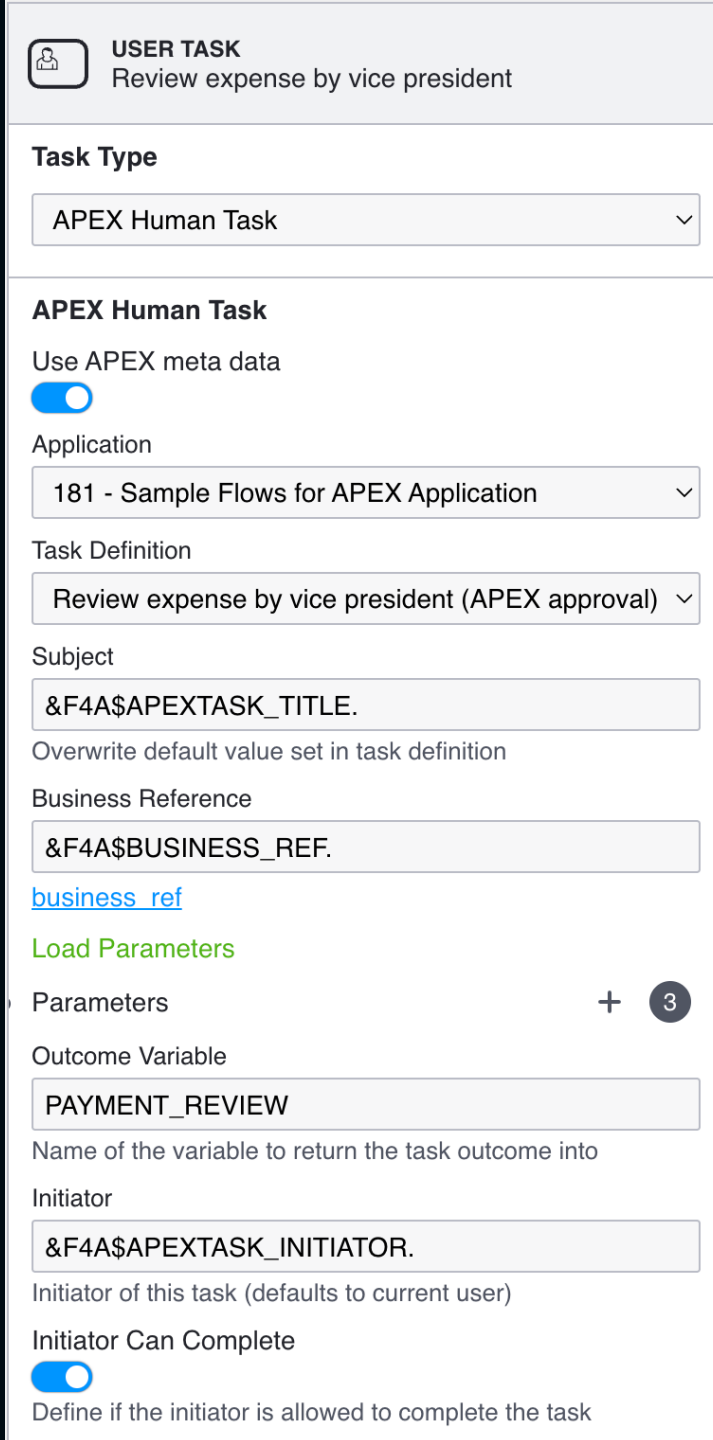
Improved APEX Human Task Integration

- Invoking APEX Human Tasks
 - now includes Potential Owners and Business Admins
- Return from APEX Human Tasks
 - New APEX Workflow Plugin to return task state /outcome
 - Usable on task completion, cancellation and expiry
 - Housekeeping job for orphaned APEX Human Tasks



The screenshot shows the APEX App Builder interface. At the top, there's a navigation bar with 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'admin' are also present. Below the navigation bar, the breadcrumb is 'Application 181 \ Shared Components \ Task Definitions'. The main area has tabs for 'Task Definitions', 'Utilization', and 'History'. The 'Task Definitions' tab is active, showing a table with columns: Name, Subject, Type, Priority, Participants, Parameters, Actions, Last Updated By, and Last Updated On. There is a 'Go' button and an 'Actions' dropdown above the table. A 'Copy' button and a green 'Create' button are on the right. A sidebar on the right contains a 'Task Definitions' section with a description and a 'Learn More ...' link.

Name	Subject	Type	Priority	Participants	Parameters	Actions	Last Updated By	Last Updated On
Review expense by vice president (APEX approval)	Review expense & PROCESS_ID.	Approval Task	3	2	3	5		



The screenshot shows the configuration form for an APEX Human Task. The form is titled 'USER TASK' and 'Review expense by vice president'. It includes sections for 'Task Type' (APEX Human Task), 'APEX Human Task' (Use APEX meta data, Application: 181 - Sample Flows for APEX Application), 'Task Definition' (Review expense by vice president (APEX approval)), 'Subject' (&F4A\$APEXTASK_TITLE.), 'Business Reference' (&F4A\$BUSINESS_REF.), 'Parameters' (3), 'Outcome Variable' (PAYMENT_REVIEW), 'Initiator' (&F4A\$APEXTASK_INITIATOR.), and 'Initiator Can Complete' (checked).

USER TASK
Review expense by vice president

Task Type
APEX Human Task

APEX Human Task
Use APEX meta data
☒
Application
181 - Sample Flows for APEX Application

Task Definition
Review expense by vice president (APEX approval)

Subject
&F4A\$APEXTASK_TITLE.
Overwrite default value set in task definition

Business Reference
&F4A\$BUSINESS_REF.
[business_ref](#)

Parameters + 3

Outcome Variable
PAYMENT_REVIEW
Name of the variable to return the task outcome into

Initiator
&F4A\$APEXTASK_INITIATOR.
Initiator of this task (defaults to current user)

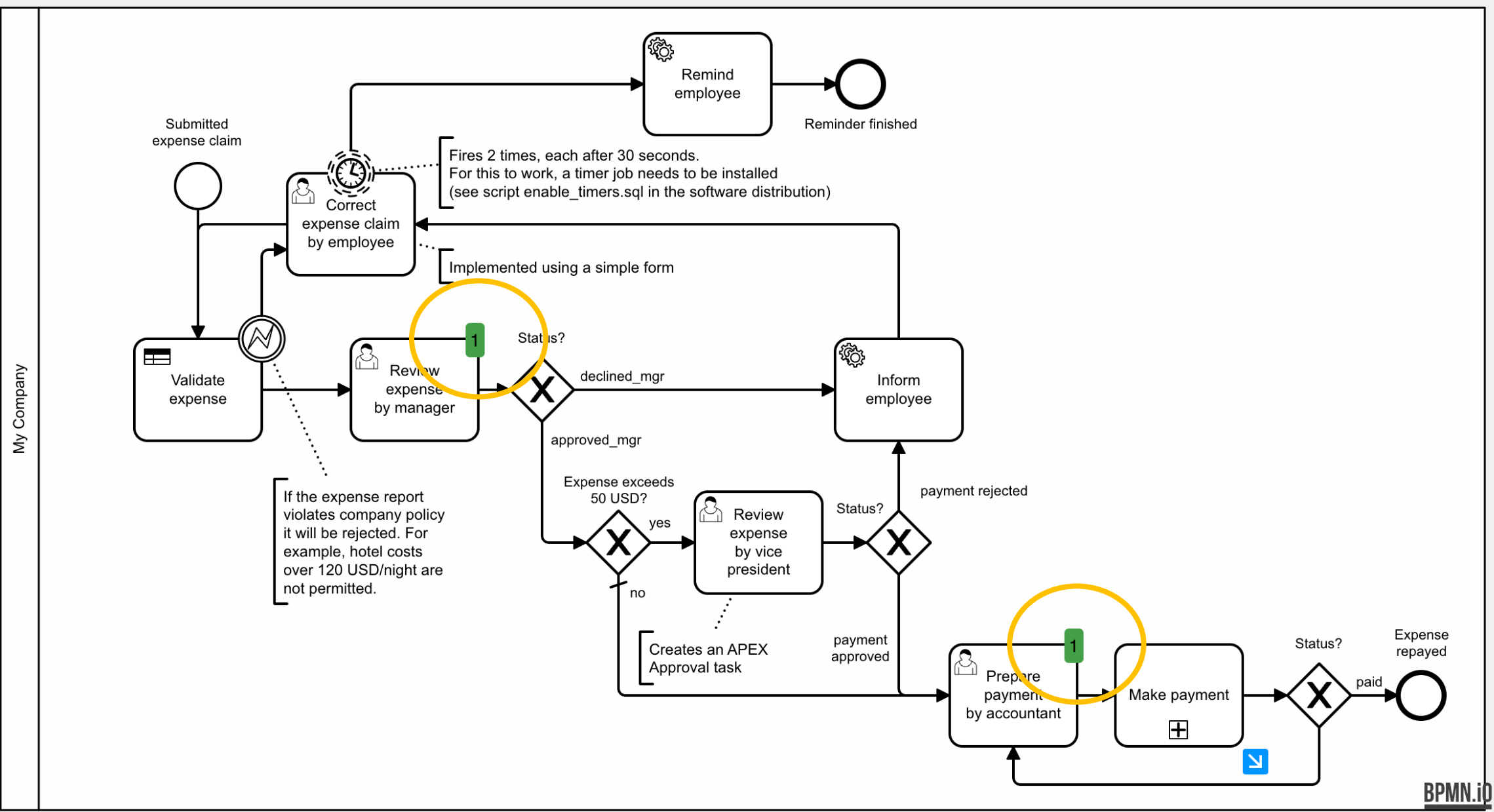
Initiator Can Complete
☒
Define if the initiator is allowed to complete the task

Instance
Time
Line

Flow Monitor \ Customer Purchasing Process - 990 - PO26571 \ Instance Timeline - Customer Purchasing Process - 990 - PO26571

Search	Severity	Performed On	User Name	Object	Event Type	Event Comment
Search...						
Severity Clear Abnormal Events (2) Major Events (13) Routine (3)						
BPMN Step Type Clear collaboration (8) event (8) activity (2)						
Event Type current step (5) step completed (5) message dequeued (3) completed (1) created (1) resumed (1) started (1) suspended (1)						
	2	2025-09-17 15:26:20.429711000 +00:00	rallen2010@gmail.com	Process	created	Instance name set to RA7bThurPM2
	2	2025-09-17 15:26:28.386432000 +00:00	rallen2010@gmail.com	Process	started	
	2	2025-09-17 15:26:28.407931000 +00:00	rallen2010@gmail.com	Need Parts	step completed	
	2	2025-09-17 15:26:28.431213000 +00:00	rallen2010@gmail.com	Event_19wz3hb	current step	
	1	2025-09-17 15:26:37.298024000 +00:00	rallen2010@gmail.com	Process	suspended	
	4	2025-09-17 15:28:42.017160000 +00:00	rallen2010@gmail.com	Process	message dequeued	Message dequeued - salesOrderMSGID:3F01DD95B8934BC5E0630D0
	2	2025-09-17 15:28:42.020548000 +00:00	rallen2010@gmail.com	Event_19wz3hb	step completed	
	2	2025-09-17 15:28:42.021536000 +00:00	rallen2010@gmail.com	Prepare Order	current step	
	1	2025-09-17 15:28:42.022278000 +00:00	rallen2010@gmail.com	Process	resumed	
	2	2025-09-17 15:29:16.246554000 +00:00	rallen2010@gmail.com	Prepare Order	step completed	

Running Task Status



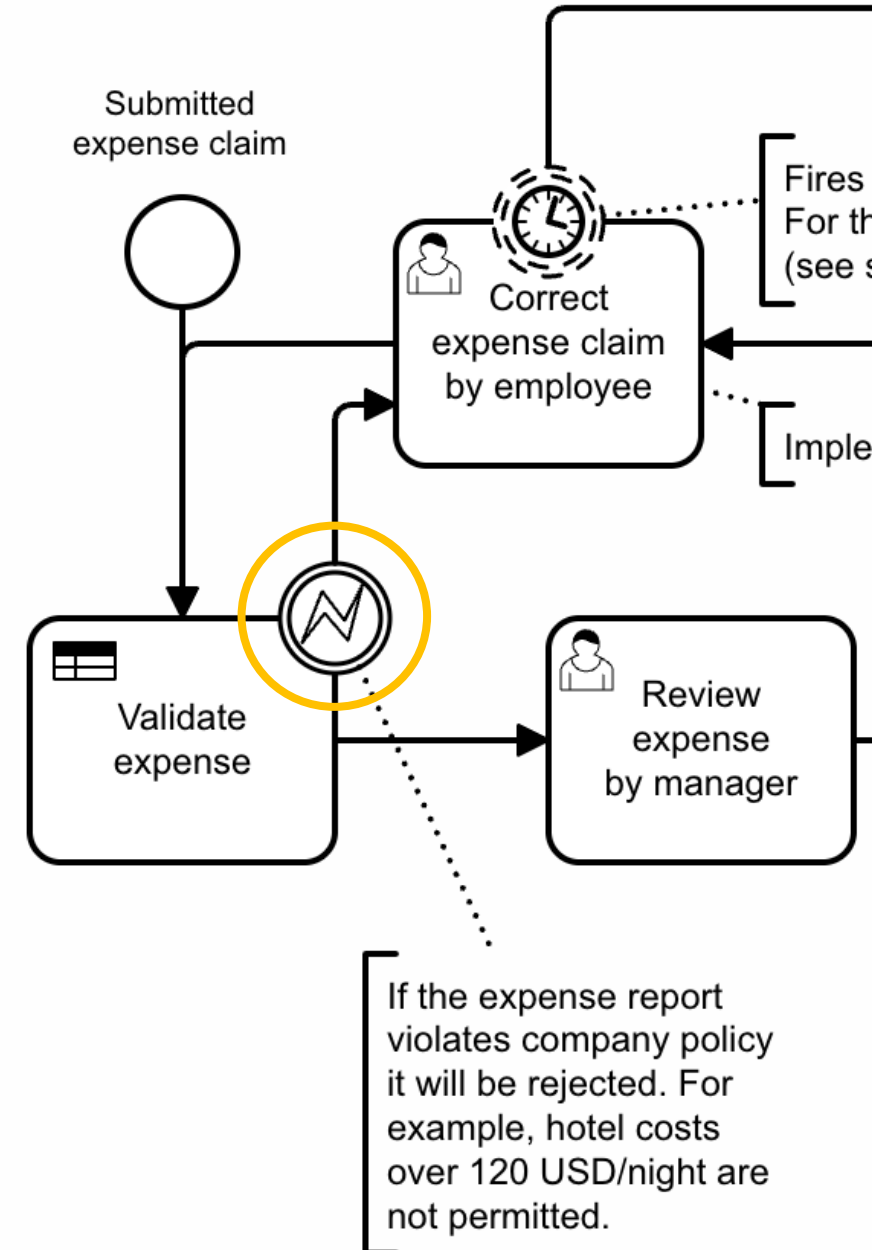
Error Boundary Event

- For handling business errors in BPMN (not technical errors)

raise defined exception

`flow_globals.throw_bpmn_error_event`

in your PL/SQL code for an automated task



Flows for APEX 25.1 Enterprise Edition



- Extends Community Edition
 - Iterations, Messaging, Suspend & Rewind, Chat Assistant, etc.
- Includes Professional Support
- Get it from flowquest.net



Suspend & Rewind

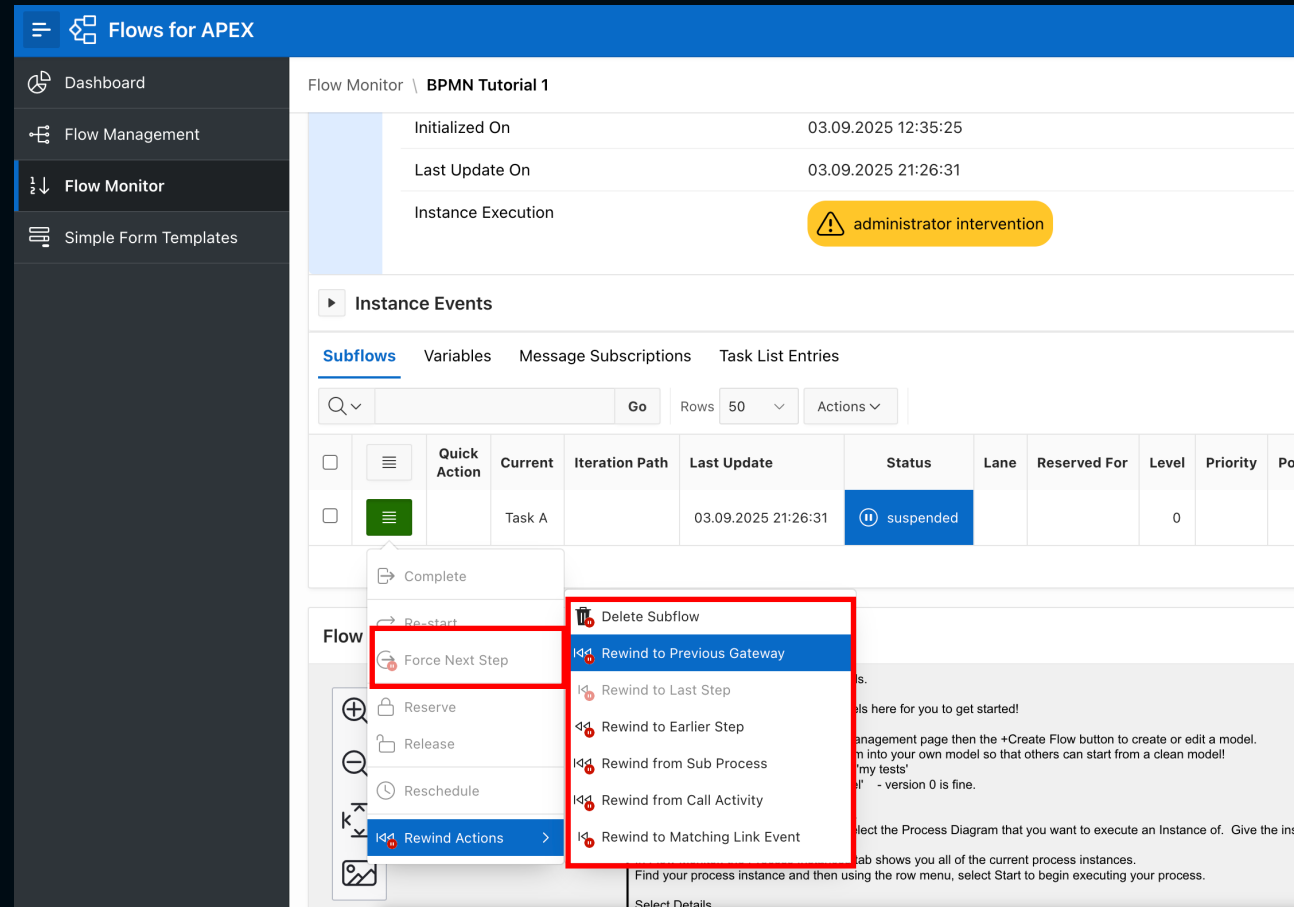


Suspend & Rewind (for admins only)



- Process instance broken? Restarting instance is not an option?
 - Suspend, correct, rewind, resume, done!

BTW: with Force Next Step
we can not only do rewind!



Flows for APEX

Flow Monitor \ BPMN Tutorial 1

Initialized On 03.09.2025 12:35:25

Last Update On 03.09.2025 21:26:31

Instance Execution  administrator intervention

Instance Events

Subflows Variables Message Subscriptions Task List Entries

Quick Action Current Iteration Path Last Update Status Lane Reserved For Level Priority Po

Task A 03.09.2025 21:26:31  suspended

Complete

Re-start

Force Next Step

Reserve

Release

Reschedule

Rewind Actions

Delete Subflow

Rewind to Previous Gateway

Rewind to Last Step

Rewind to Earlier Step

Rewind from Sub Process

Rewind from Call Activity

Rewind to Matching Link Event

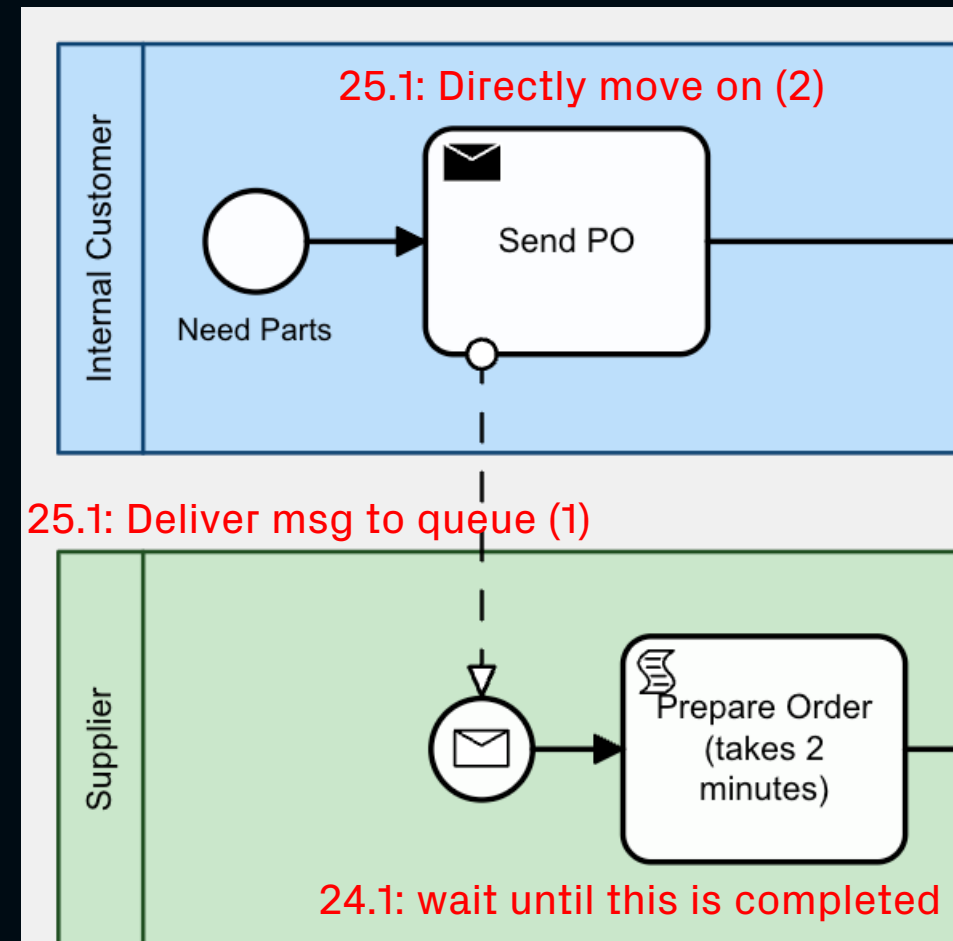
Inbound Message Queuing



Inbound Message Queuing

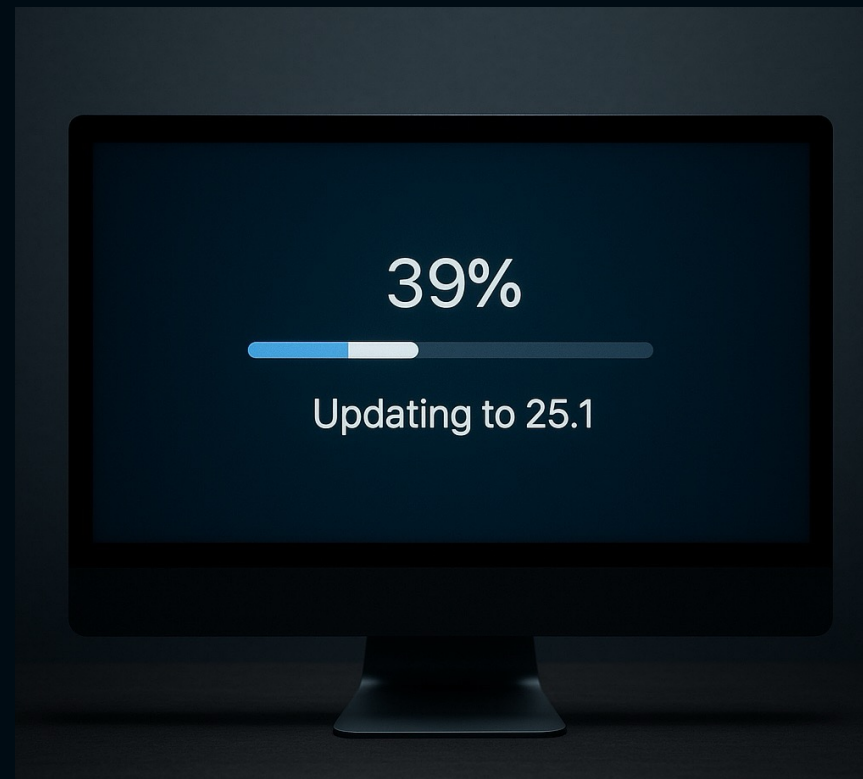


- Decouples sender / receiver process
 - based on Oracle Advanced Queuing (AQ)
- AQ as technical foundation for
 - enabling declarative async tasks in the future



Free 25.1 Update Training 21-OCT

- Learn all about the new features in 25.1
- Free online training over Zoom
- Registration: <https://bit.ly/f4a251updates>



25.1: Deliver msg to AQ (1)

24.1: wait until this is completed

Go get your copy of 25.1 at flowsforapex.org!



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