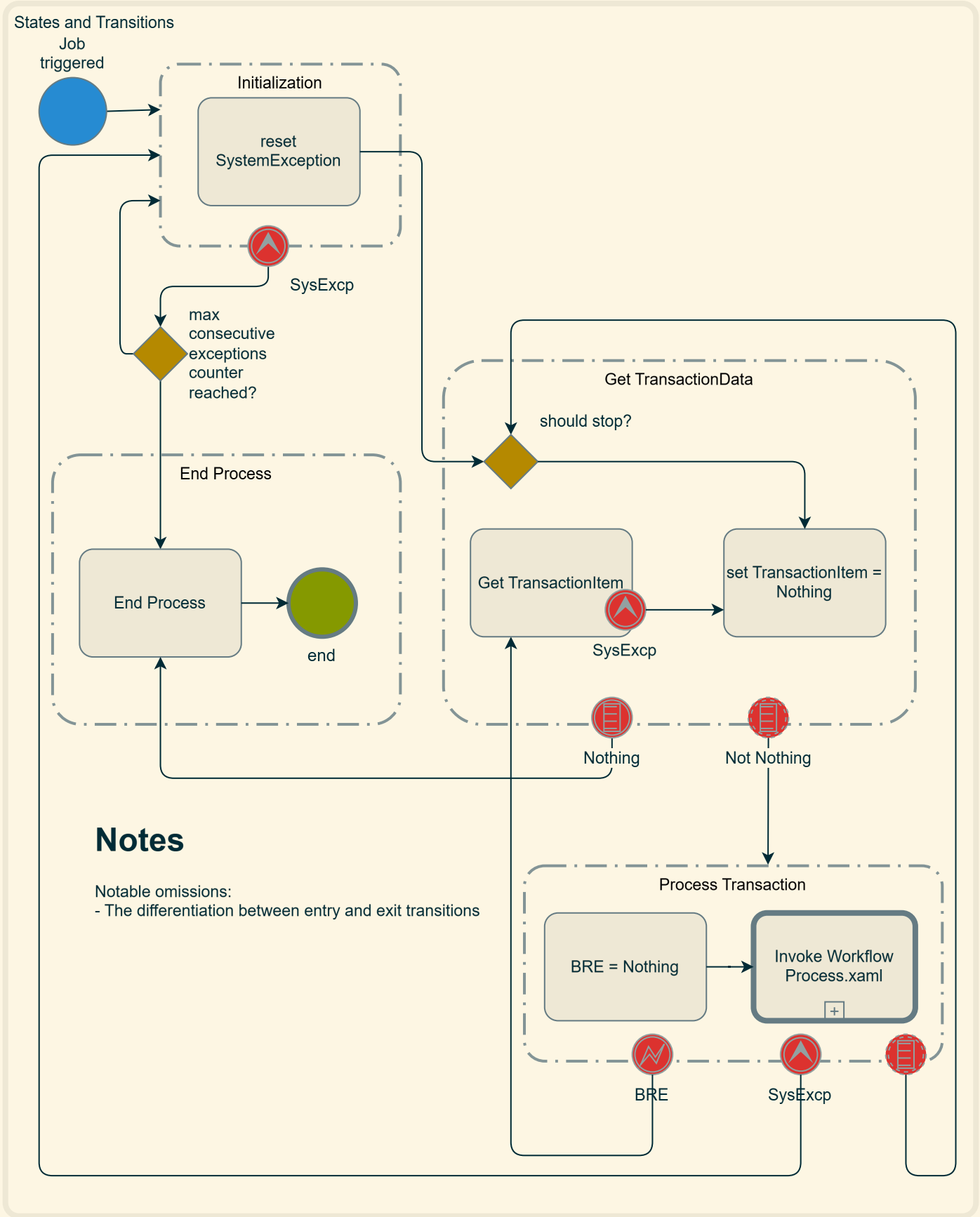


# RPA UiPath Core 301

UiPath REFramework demystified  
States and Transitions  
Retry Behaviour  
Adaptions  
InProcessQueue

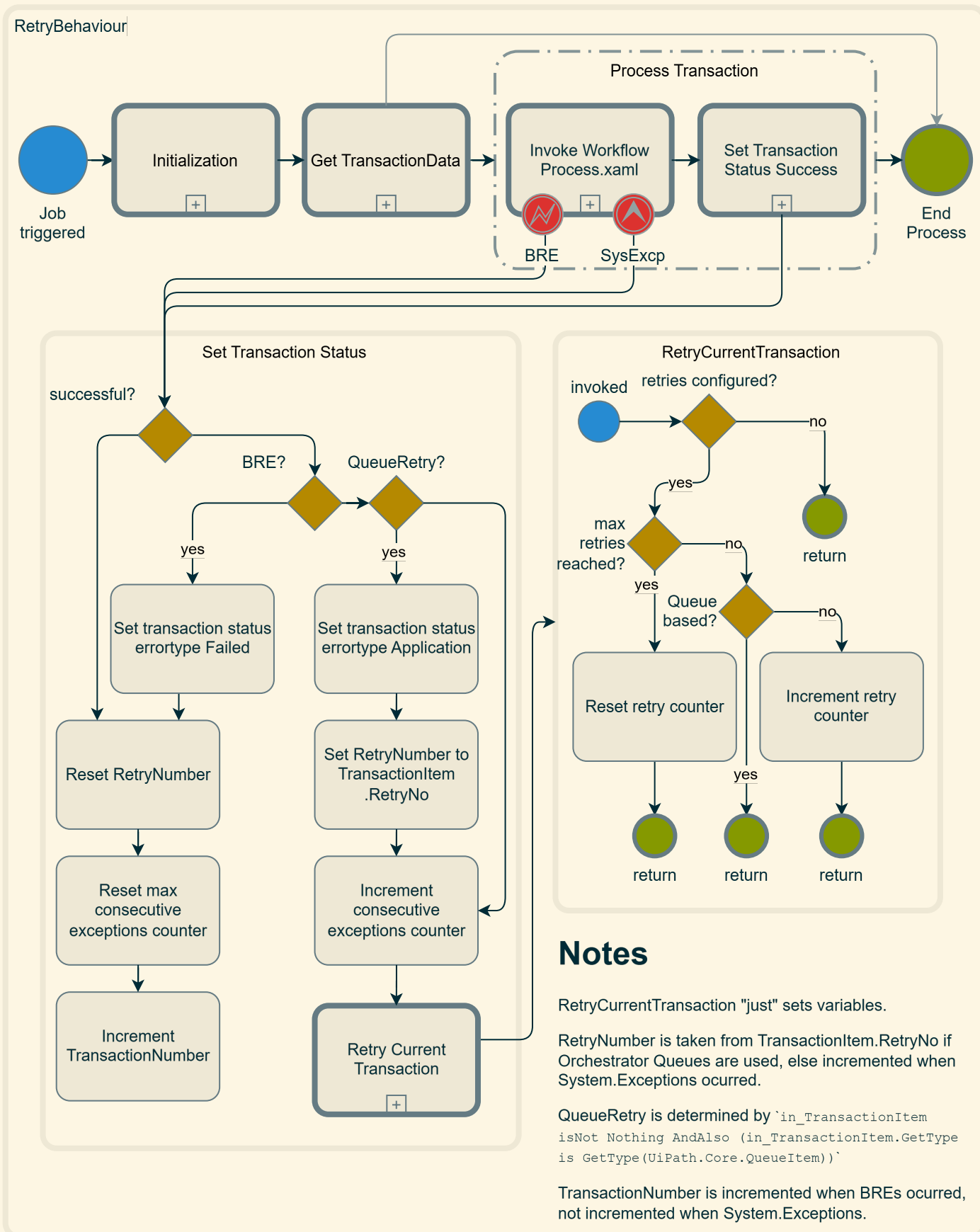
RPA UiPath REFramework

The vendor-provided REFramework project template is feature-rich and inherently complex. While UiPath Studio's graphical editor offers a flowchart-like representation of the program structure, creating simplified, targeted diagrams can significantly enhance understanding by focusing on specific aspects of the workflow. The transitions between the states are based on TransactionItem being Nothing or not, and variables holding a UiPath.Core.BusinessRuleException or System.Exception. The file Main.xaml contains the state machine and is also defined as the main entrypoint. It implements the Performer functionality of the Dispatcher-Performer model for scaling automations. Other entrypoints could be added and triggered from UiPath Orchestrator, e.g. to implement the Dispatcher.

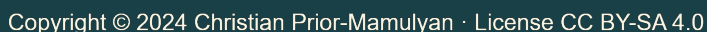


## RPA UiPath REFramework

The vendor-provided REFramework project template is feature-rich and inherently complex. While UiPath Studio's graphical editor offers a flowchart-like representation of the program structure, creating simplified, targeted diagrams can significantly enhance understanding by focusing on specific aspects of the workflow. The retry behavior is based on config items from the Config.xlsx, variables and exceptions. Retries can happen at runtime within the project code or as a result of the setup of a project-external UiPath Orchestrator Queue. The major distinction is that UiPath.Core.BusinessRuleExceptions are not retried, all other exceptions conditionally as depicted in the diagram.



The vendor-provided REFramework project template is feature-rich and inherently complex. While UiPath Studio's graphical editor offers a flowchart-like representation of the program structure, creating simplified, targeted diagrams can significantly enhance understanding by focusing on specific aspects of the workflow. The overall control flow of the REFramework has remained stable since its inception, but its documentation has evolved considerably. Recent updates provide detailed guidance on adapting the REFramework to handle rows in an Excel sheet or MailMessage objects instead of the default QueueItem. These modifications, while powerful, necessitate careful updates across many parts of the framework, as changes to the data type propagate through various interconnected components, including activities, variables, and arguments.



to be continued

Corrections? Ideas?



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to start a discussion with your colleagues

