Solution Architect

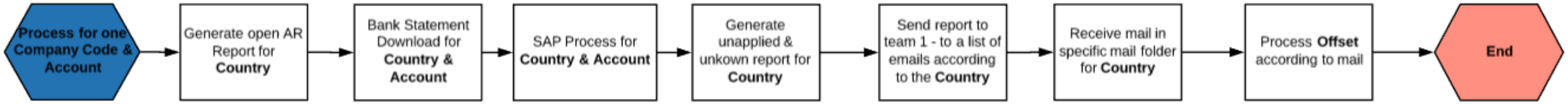
Solution Design

Reusable Components Approach

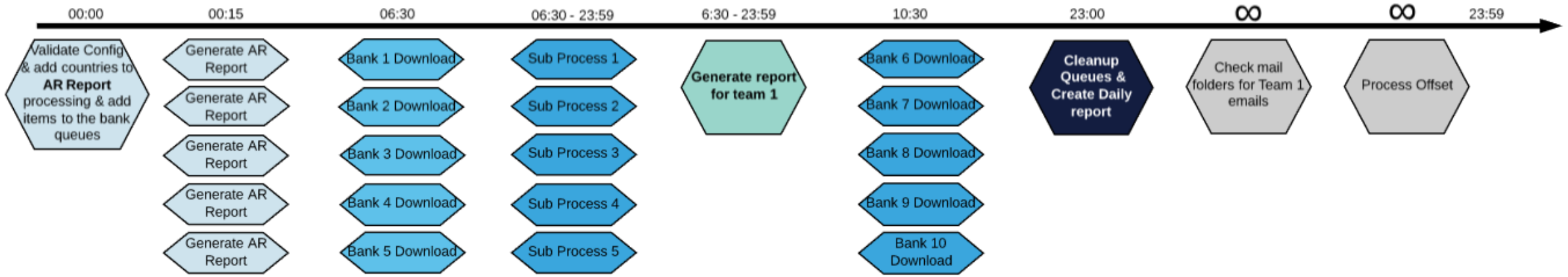
Local File Storage	Shared File Storage	Shared Components Package	Custom Packaging Method
Store the reusable components in the Source Control System. Sync files in shared location. Add the network path to the Library in Studio.(RECOMMENDED).	Use a file share location to store the reusable components and invoke them remotely.	Create one package containing shared components and distribute it using the Orchestrator embedded provisioning mechanism.	Use a third party solution to create packages that also provision the reusable components.
PROS: ✓ Easiest to implement ✓ Most secure **CONS:** ▪ In case a reusable needs to be changed, manual re-publishing and re-deploying are required	**PROS**: ✓ Easy to implement ✓ Calling by reference **CONS:** ▪ In case of network failure, the robots are not able to run ▪ The robots can run more slowly due to network latency (or even trigger exceptions) ▪ Security risk (access to shared folder)	**PROS:** ✓ Calling by reference ✓ Version control **CONS:** ▪ Harder to implement ▪ Project path needs configuration	**PROS:** ✓ An alternative to the Shared Components approach **CONS:** ▪ The most complex approach and the hardest to implement and maintain ▪ Dependent on third party components

Overall Solution Diagram – Example 1

Basic steps for each Application

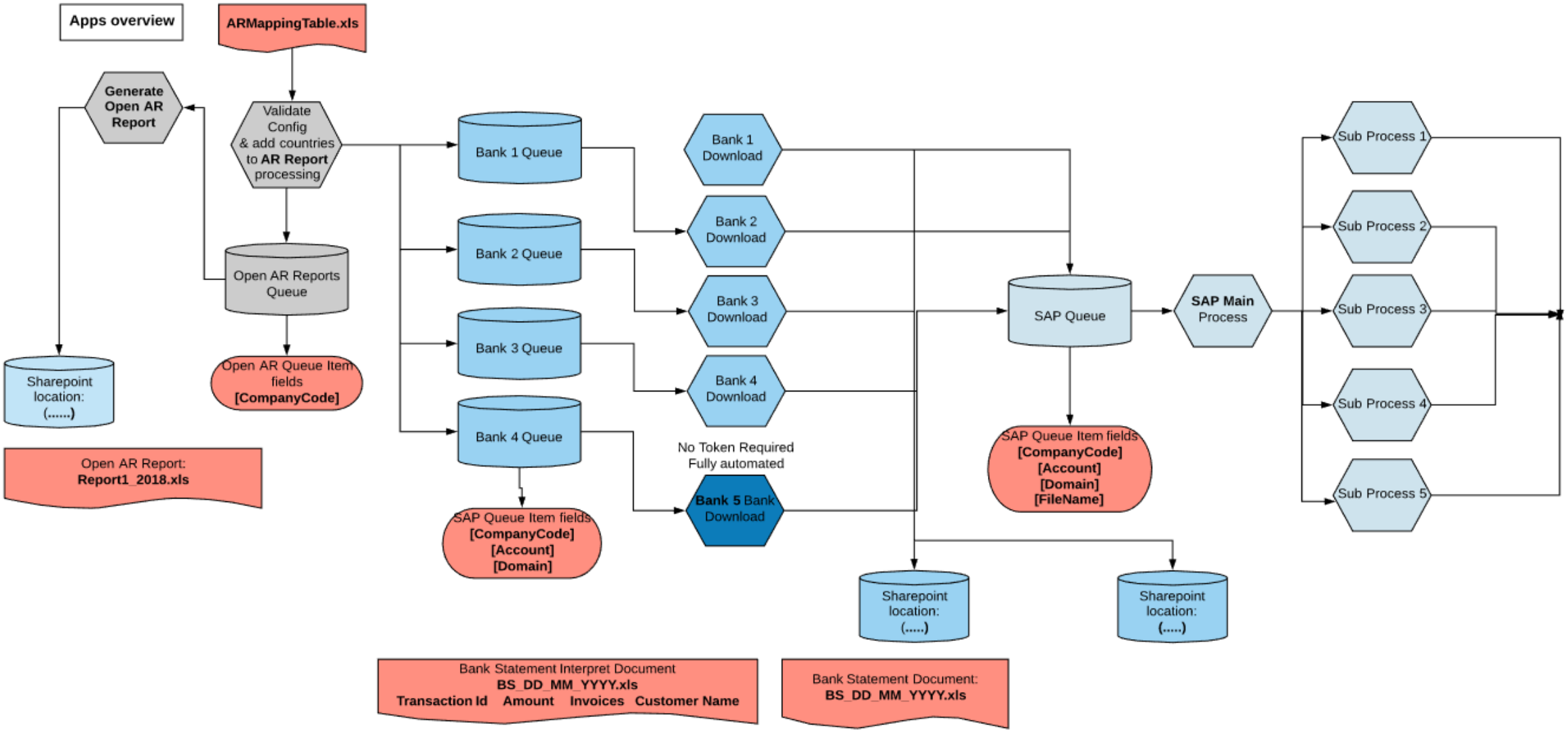


Process Scheduling



Robot 1 Dispatcher	Robot 2,3,4,5,6	Robot 7,8,9,10,11	Robot 2,3,4,5,6 (can be scaled to any multiple of 5)	Robot 1	Robot 7,8,9,10,11	Robot 1	Robot 12	Robot 13 (can be scaled to any number)

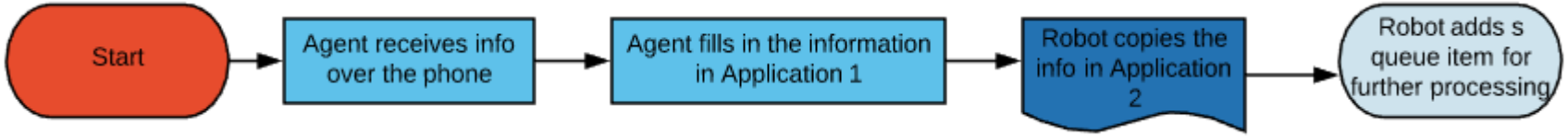
Overall Solution Diagram – Example 2



Attended vs Unattended in solution design

- Front office processes can make use of back office processing
- Data sync between processes using Orchestrator queues

Attended



Unattended

BENEFITS

1. Fast execution for the Attended robot
2. Scalable


UiPath
Thank You!
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