



AORTA

AUTOMATION **O**F **R**EAL **T**IME **A**PPPLICATIONS

Introduction

AORTA is an automation tool that can simulate user actions for most repetitive and laborious processes. It can integrate and bridge the gaps of connectivity and interoperability between third party and legacy systems **without any change in the existing systems or workflow.**

A single AORTA server with one or more agents, installed on desktops, can automate various applications. An agent can login, search and read data from the applications, just like any human resource, thus freeing the resource for a more productive task.

Background

Today most corporate companies use multiple internal and external applications to handle their day to day operations. These applications, often acquired in stages, fail to talk to each other. This gap is generally bridged by having an in-house team to handle the heavy maintenance of these applications which mostly constitute fetching data from one system, applying the required business logic and feeding the derived information to the other system. With human resource being a precious commodity, one thing that can free resources from their operational duties is **AUTOMATION.**

Why AORTA?

Automation has four major advantages

1. Accuracy
2. Speed
3. Increased Productivity
4. Frees resources for more critical and intelligence oriented tasks

With a solution like AORTA, processes that are automated are more or less self-maintained with minimal recurring cost, low TCOs and extremely high ROI assuring benefits.

The one most important advantage with AORTA is – automation without any change in the current infrastructure, applications or process.

Technology

Simulation Engine – This is a software robot that can simulate user activities. The engine is capable of handling most kinds of clients; mainframe to thin clients. AORTA uses the engine to automate user activities by simulating applications. Scripts are written for the engine to handle simulations. These scripts are written in Java, making future support activities easy.

Agents – Agents act as clients and use the Simulation Engine to perform the automation. The agents communicate with the server and manage the application screen flows. They also take care of encryption and security.

Controller – This is AORTA's core. It controls the agents, receives and manages data. It manages the workflow by sending instructions to other components. It further analyzes the data and sends out alerts whenever necessary.

Admin and Reports Server – This handles the back end work to prepare and display reports based on the data collected by the controller. It is a comprehensive reporting system where historical and current reports are generated. This also contains the dashboard feature that will show real time workflow and agent status. This module provides admin functionality; user creation, agent creations, application management, scheduling and alerting system.

Applicable Scenarios

Customer/ User creation and modification: Can be deployed in scenarios where bulk customer/ user creation/ modification requests come in, where in most cases an entire team is dedicated to perform this repetitive activity.

Transaction Processing: In cases where information/data is to be extracted from one system (application) and is to be manually fed into another system (application) after applying some standard business logic.

Update HR Details: In most cases, a single system is in place where all the HR information is stored. HR records are often subjected to change and the same has to be reflected in the system. This is again done with a team dedicated for this activity.

Report Generation: Business reports are often generated by compiling information extracted from various applications. Most teams have to generate such reports as a part of daily/weekly/monthly activity.

Automated Testing: Most applications under development are often tested for a standard set of cases. Developers/Testers often do the same process of testing every time there is a change in the code.

In all the above scenarios, AORTA can be customized to perform the laborious activities, thus freeing the resource for a more productive task.

Case Study

Customized variants have been deployed and been running for a year for our customer, a multinational entity in the banking sector. With the bank's presence in over 50 countries, the solution was executed and deployed over global WAN. Existing

architecture and hardware was utilized. Operational errors were reduced to almost nil and they achieved 16 percent of work reduction in work force utilization.

Currently, the bank is using the product for updating HR records, user creation and modification.

Features

- No change in legacy systems or third party software
- Complex workflow automation
- Error detection
- Response time
- Easy maintenance
- Use of Open source servers



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