Automation Edge Introduction

What is Automation?

Ability to perform specific tasks automatically without the need for constant human supervision or intervention.

Robotic Process Automation is-

- A straightforward tool to automate manual, repetitive tasks.
- Set of rules that solves specific problems.
- Software "bots" and plugin into and access existing business system.
- Workflow enabled interaction.

Robotic Process Automation is not-

- A human robot
- Some tool that can replace human entirely.
- Purely used for cost cutting.
- Something that replicates human cognitive functions yet.

Future of automation lies in Industry Specific ready solutions(SOLFLO):-

- SOLFLO are ready to use automation solutions that are essential for Banking, Insurance and healthcare industry.
- SOLFLO are ready to use automation solutions.

Automation Edge Capabilities

- RPA:- Executes after classifying and categorizing the input data.
- DocEdge:- Reads data from diverse sources like image, pdf.
- CogniBot:- Understands the intent/context of the content.

Conversational IT :-

- It is a single pane window for personalize IT support.
- Meet your employees in the channel of their choice
- Your chat channel now becomes your service desk

RPA vs ITPA

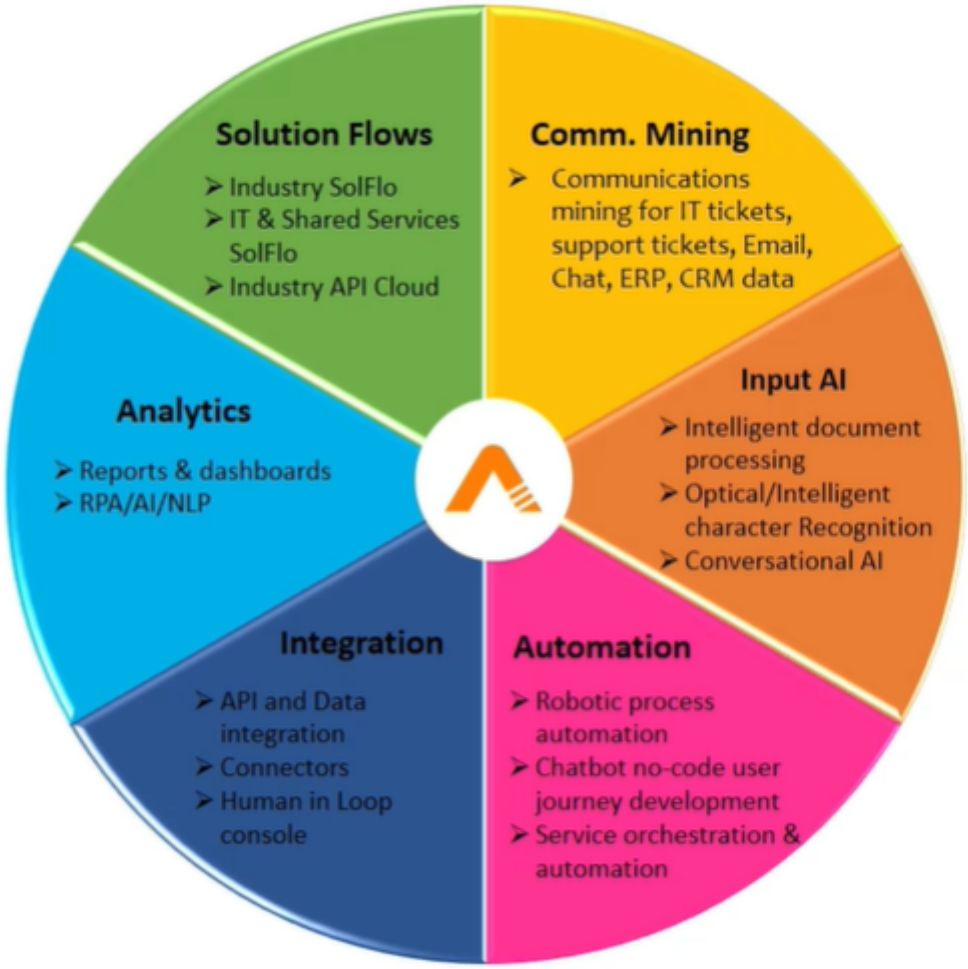
- ITPA is mostly focused on automating IT process including task such as system monitoring. while RPA is mostly focus on routine, repetitive and manual process such as data processing and customer service enquiry.RPA eg.Front-end Screen Automation and ITPA eg. Ready Bot Automation

Advantages of AutomationEdge:

- Boosts capability
- Reduce costs

- Increase customer satisfaction
- Ensures higher accuracy and reliability
- Enhances productivity

AutomationEdge HyperAutomation PLatform and Solution wheels:-

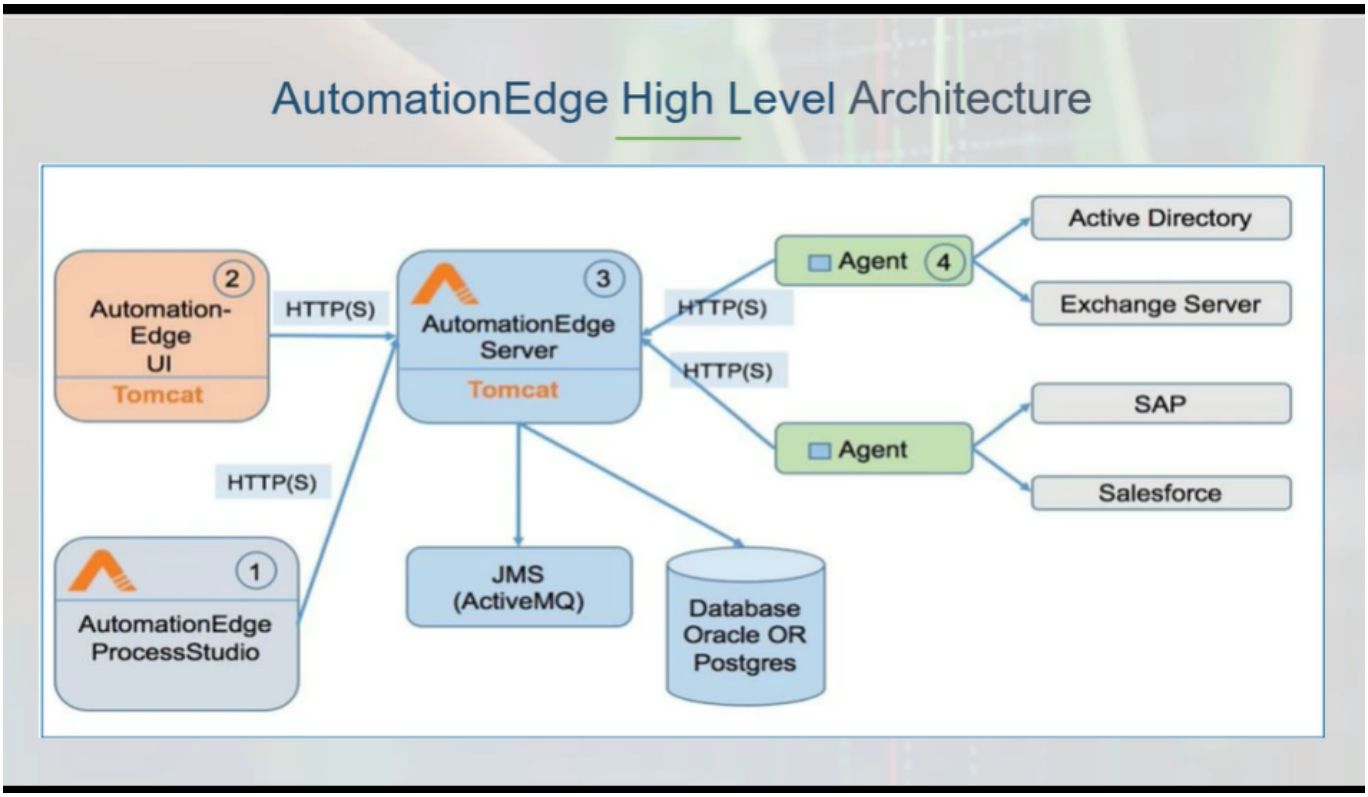


- Communication Mining:- It is initial automation step. It involes analysis of extensive data such as email, chat,ERP, CRM. By engaging in communication mining organizations can idnetify process that are suitable for automation. Communication mining gives potential of data.
- Input AI:- Input AI is second step. It helps us to get useful data outof unstructured and semistructured data.Input is nothing but intelligent document processing. Also contains conversational AI which gives meanings outof conversation. Input AI will help you get the meaningful information from the data.
- Automation:- Its third step.
- Integration:- This is fourth step. It deals with data integration or API integration. In Automation edge it contains connectors. This connectors can connect to the third party application via API. Automation edge provides the feature called ETL(Extract Transform and Load) which enables processing of large volume of data.
- Analytics:- This is fifth step .Use to build the reports and dasahboards.
- Solution Flows:- It's last step. It is readily available solutions.

Major components of Automation Edge

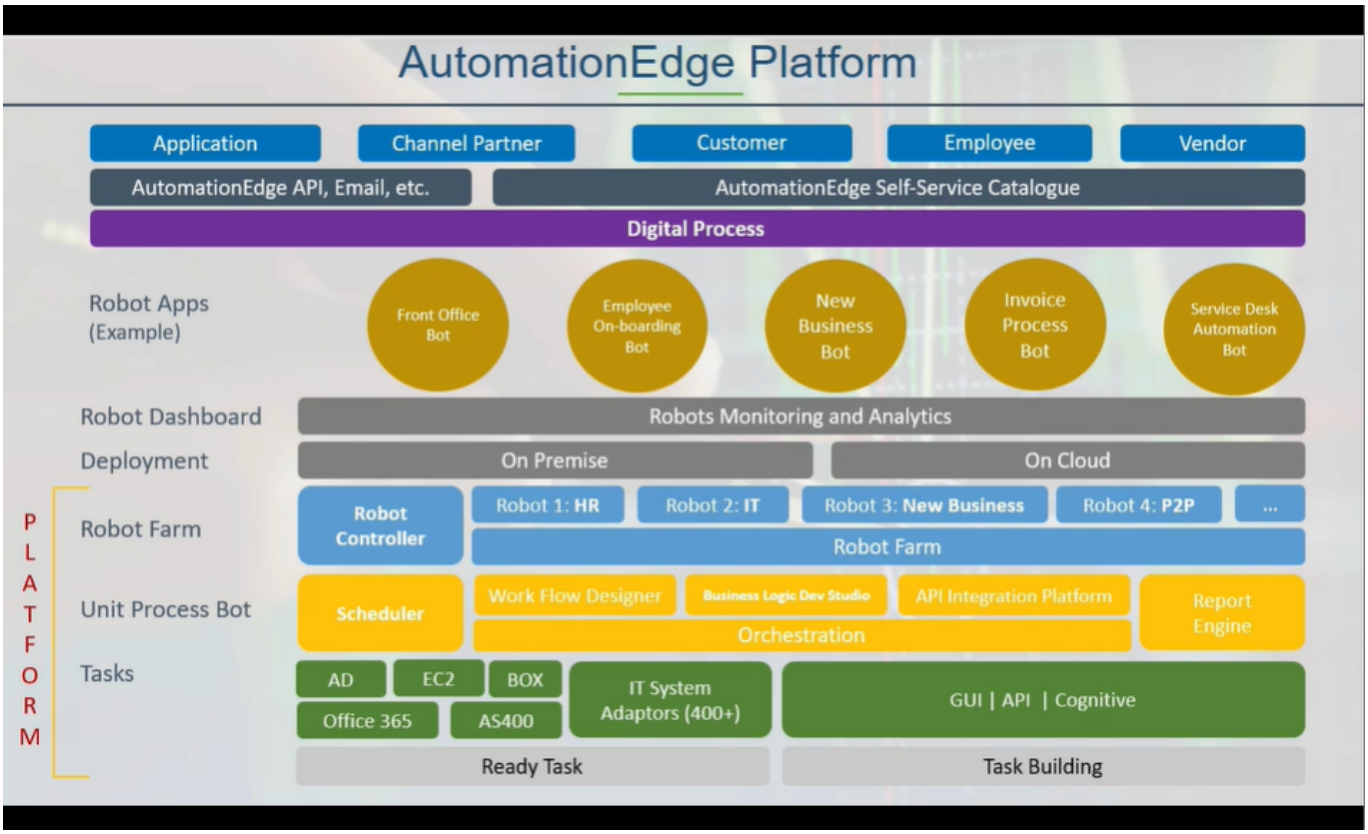
- Automation Edge Process Studio:- use for development
- Automation Edge Server:- use for deployment of process developed
- Automation Edge Agent:- workflows are carried out on agent machine.

AutomationEdge Architecture



AutomationEdge Platform:-

- At the bottom layer we have task. Tasks readily available components known as plugins. This plugins provides means to establish communication over different system.
- Unit process Bot:- After obtaining tasks next steps is to assemble them into coherent flow as there will be sequence of automation to be executed. Uses process studio as a tool.
- Robot Farm:- This contains multiple robots. Which supports automation edge. These robots are also called as Agents and are responsible for executing automatic process. It helps us to assign the robots for different process.
- Deplomen:- It contains two deployment options 'On Premise' and 'Cloud'. In 'On premise' AutomationEdge is install on local machines within the organizations infrastructure. 'On Cloud' here AutomationEdge server is deployed on cloud.
- Robot Dashboard:- Use for Robot monitoring and analytics.
- AutomationEdge Self-Service Catalogue:- It acts as platform to submitting request to execute workflows.



Components of AutomationEdge:-

- AutomationEdge Server
- AutomationEdge Agent
- AutomationEdge Process Studio:- Java based tool used to develope workflow. Workflow and process are two entities use to design automated solution workflow takes the data, process that data and saves the data to the target folder. Stored as XML file with .psw extension. Steps are executed parallel. Workflow gets built using steps.Process:- It is focused on high level control task such as executing workflow.Stored as XML file with .psp extension.Process gets build using entries.

AutomationEdgeAgent

- An agent is a piece of software that works on behalf of the AutomationEdge Engine and execute workflows
- An agent can be installed on physical or virtual machine. Each physical/virtual can have one agent.
- If in case in windows os if there are multiple users operating the same machine then each user can have one agent.
- Multiple agents can be registered to one server
- Agents provide scalability to AutomationEdge as Agents can be deployed on multiple machines and harness the processing power of several machine.
- Agent is java based software which include JRE.

Steps to register AutomationEdge Agent

- Do agent settings to include JRE with agent. Automation Edge Server UI>> Click on Agents>> Click on Agents Settings>> Edit>> on the Include JRE with Agent>> Save.
- Download Agent Automation Edge Server UI>> Click on Agents>> Click on Agents list>> currently there are no agents register>> Click on download agent>> select no proxy and platform as windows.

- Run Aeagent application. bin>>Run aeagent.exe file
- Check the status of aeagent on AutomationEdge server UI.

AutomationEdge Server

- It is AI driven intelligent RPA server where we can deploy business process solutions i.e workflows. We can do it either on premieses and on cloud.
- We can access the server using UI by visiting the website https://t3.automationedge.com

AE Deployment:-

Publishing workflow on AE server

- Use process Studio publish option to directly publish new workflows to AE or
- Use process studio export option to update workflows on AE. steps:-
- 1. Publish workflow on AE server
- 2. Configure the workflow on server
- 3. Assign the workflow to agent
- 4. Execute the wokflow from catalogue
- 5. Finally see the result of execution in request page.

1.Publish workflow on AE server

- Step1:- Select the main process from the project 1.Right click on the project to publish>> select edit project option>>select main process in the edit project window.>>click ok>>click ok.

- Step 2.Right click on the project >> select publish>>select create>> enter password of server>> Select Yes on Publish confirmation window>>workflow details window will appear>> enter the workflow details like name, description, category by default, version as 1 >> click on create button.

- Step 3. Once worklow is publish then next time if changes are made then update it:- Right click on the project >> select publish>>select update>> enter password of server>>Select Yes on Publish confirmation window>>workflow details window will appear>> enter the workflow details like version as 2 >> click on update button.

Status of Agent

- 1.Running:- Status is up and running and ready to execute the requests.
- 2.Stopped:- Agent is turn off/shutdown
- 3.Unknown:- Server is unable to reach agent. Agent goes in this state- When server is not sure about state of agent due to abrupt shutdown or neytwork failure. In this case stop the agent using stop icon present in actions column. once agent is stopped you can start the agent again.
- 4.Updating:- Agent, Workflow and Plugin related changes. In this state, Agent goes in this state:- Older to newer version, workflow assignment, plugin assignment changes, workflow/plugin updated.

Workflow execution states

- 1.New:- Intial state in workflow execution. If new state continues for longer duration then need to check the status of Agent.

- 2.Execution started:-when agent picks up the request excution started.
- 3.Complete:- once the execution of workflow is completed the status occurs
- 4.Failure:- Once if the error occured while the execution the status changes to failure If occured- Click on the plus to see the elaborated description. Then check the reason for failure and accordingly take the action. Failure workflow can be restarted.
- 5.Diverted
- 6.Terminated:- when manually terminated the status
- 7.Expired:- Expired status applies to the request when agent fails to pick up the request. Expired workflow can't be restarted. You need to submit the request again
- 8.Awaiting Input:- when workflow requires manual intervations or input.

Web GUI Automation

- Involves replicating user interactions with web applications in order to automate tasks.
- Process studio GUI spy It is fantasting automation tool present inside process studio helps inextracting the attributes of the web element. It can generate individual steps on the workflow. It provide feaeture of Record and play.