Comparison of function list between UiPath & Office Robot

Function Comparison

Function List	UiPath	Office Robot
RPA Type	Hybrid Automation	Hybrid Automation
Monitor RPA environment*	Application, Browser, Mobile	Application
Control Room & Dashboard*	UiPath Orchestrator	Win Director
Permission Control*	UiPath Orchestrator	Win Director
Concurrent Operation*	Able to run multiple robots at same time by Orchestrator	Able to run multiple robots at same time by Windirector
Stand alone execution	Yes	Yes
Run in Background	Has activity and unattended robot for run job in background	Run Script
Automate an application when accessing it remotely (Remote Execution)	Yes	Yes
Additional development	Can create custom activities and release it by yourself	Additional library Released by NTT
Built in Library	Yes	Yes
Programming language for additional component	Vb.net	VBScript

Function List	UiPath	Office Robot
Support Browser	IE, Firefox, Edge, Chrome	IE, Firefox, Edge, Chrome
Usability	Drag & Drop, Macro Recording on desktop , web and RDP environment	Drag & Drop, Macro Recording on desktop , web, RDP Environment
Image matching	Yes	Yes
Screen Scraping	Yes	No
Web integration	API,XML,SOPA,JSON,REST	API
Database Connection	Yes, can execute with query	Yes
OCR	Two Built-in OCRs : - Microsoft OCR - Google OCR (OCR is not limited to only these two types of OCR. You are free to use another type of OCR.)	No Built-in OCR (can use other vendor's OCR)
Able to install and setup on cloud environment	Yes, and it has API for support cloud service such as Google G Suite etc.	No

License & Price Comparison

License Type	UiPath	Office Robot
Develop Robot	Studio License (Named User/Node Locked/Concurrent)	Full License
Execute Robot	Robot License (Named User/Node Locked/Concurrent)	Replay License
(depends on process Type)	Attend, Unattended	
Control Room	Orchestrator	Win-Director
Price Structure	Annual Fee per client	Annual Fee per client

License Type Comparison

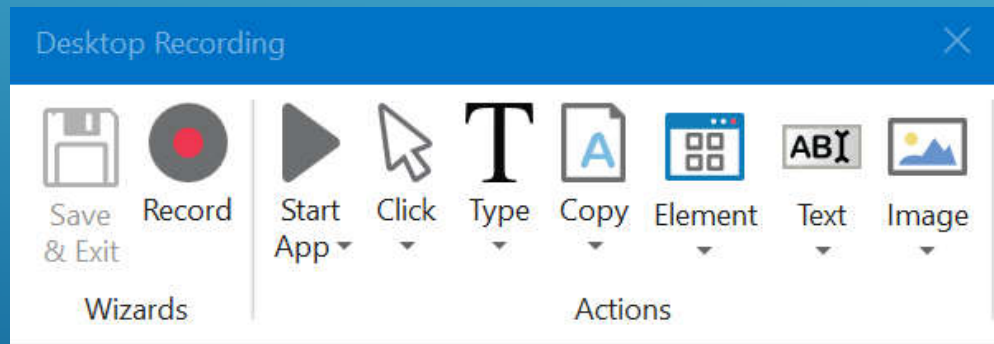| Function	UiPath		WinActor
	Platform Component	License Type	License
Control Room	Orchestrator	Server	Win-Director
Develop Robot	Studio	Multiuser	Full License
		Named User	
Execute Robot	Attended Robot	Multiuser	Replay License
		Named User	
	Unattended Robot	Concurrent Runtime	

APPENDIX : OVERVIEW FUNCTION

Recorders (Macro Recording)

Recorder allows you to record mouse events and keyboard activities to generate automation scripts.
The activities are arranged based on the sequence of actions being performed in the screen.
This sequence are saved in your workflow which you can use later to playback the recorded actions.

Desktop Recording ✕

Save & Exit	Record	Start App ▾	Click ▾	Type ▾	Copy ▾	Element ▾	Text ▾	Image ▾

Wizards   Actions

Screen Scraping

Screen scraping is a function of extracting screen display data from application(documents, websites , etc.).
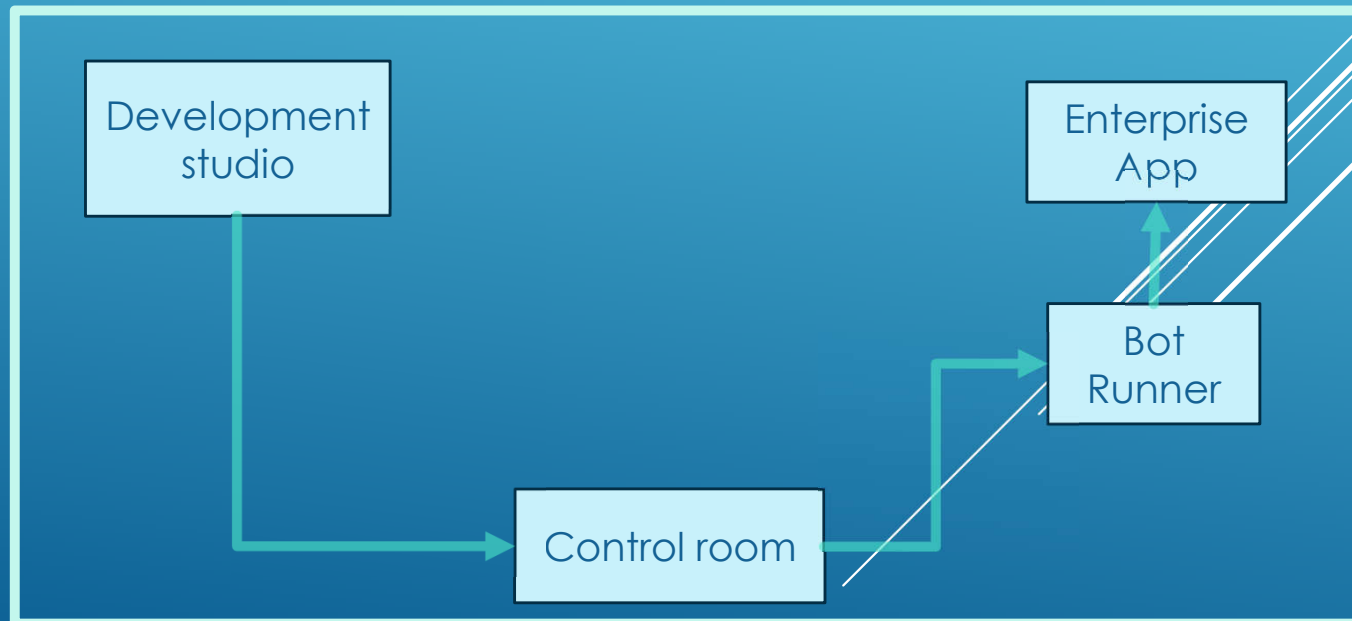
Image matching

Image matching is function for recognize image on screen. RPA use this function when cannot get UI elements directly.

Control Room

Control room is robot management program. It monitors and controls a Robot's operation in a network. It can be used to start/stop Robots, make schedules for them, maintain and publish code, redeploy Robots to different tasks, and manage licenses and credentials.

```
Development
studio ──────────┐
                 │
                 │            Enterprise
                 │               App
                 │                ▲
                 │                │
                 │              Bot
                 │             Runner
                 │                ▲
                 └──► Control room ┘
```

Development studio → Control room → Bot Runner → Enterprise App

*Orchestrator

Web integration

RPA provide the methodologies that are used for integrating with the web project such as a company's website, B2B portal, or e-commerce website.

RPA

API
XML   SOPA
REST
JSON

Web project
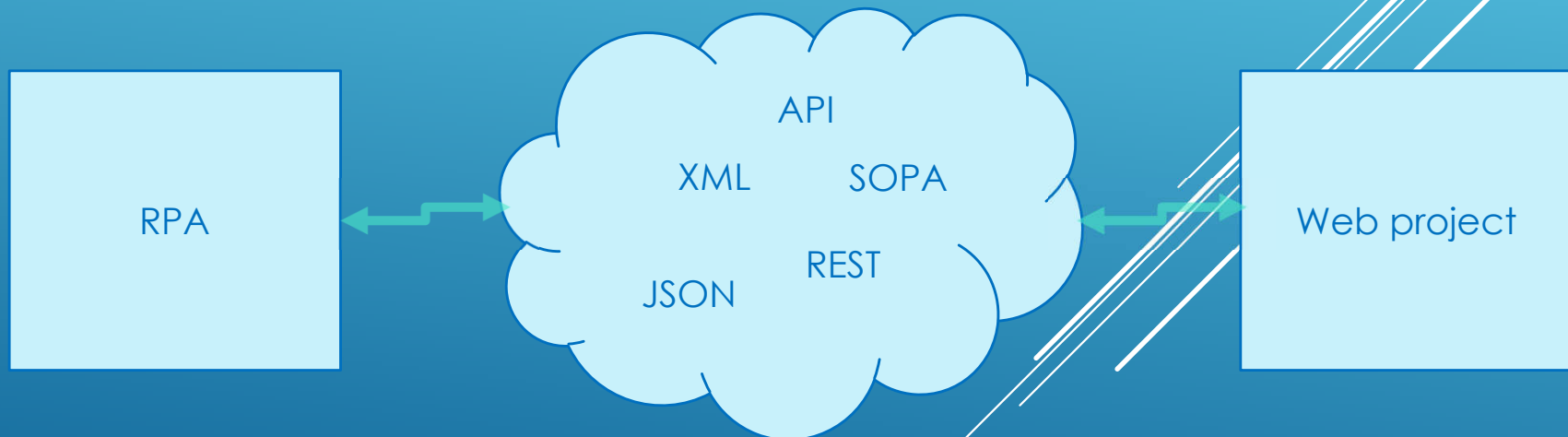
OCR (Optical Character Recognition)

OCR stands for Optical Character Recognition. It is a text recognition technique that transforms printed documents that are scanned into electronic formats.

RPA Process type

- Attended Automation
  - It operates on the same workstation as a human to help the user accomplish daily tasks. It is usually triggered by user events.

- Unattended Automation
  - It can run unattended in virtual environments and can automate any number of processes.
  - It can run without human interaction.

- Hybrid Automation
  - Combining functions of Attended and Unattended automation.

UiPath license

UiPath license

UiPath has 3 main license as following:

- ➢ Development license for Studio to build automation project
- ➢ Robot license for Robots execute automation job
- ➢ Server license for Orchestrator
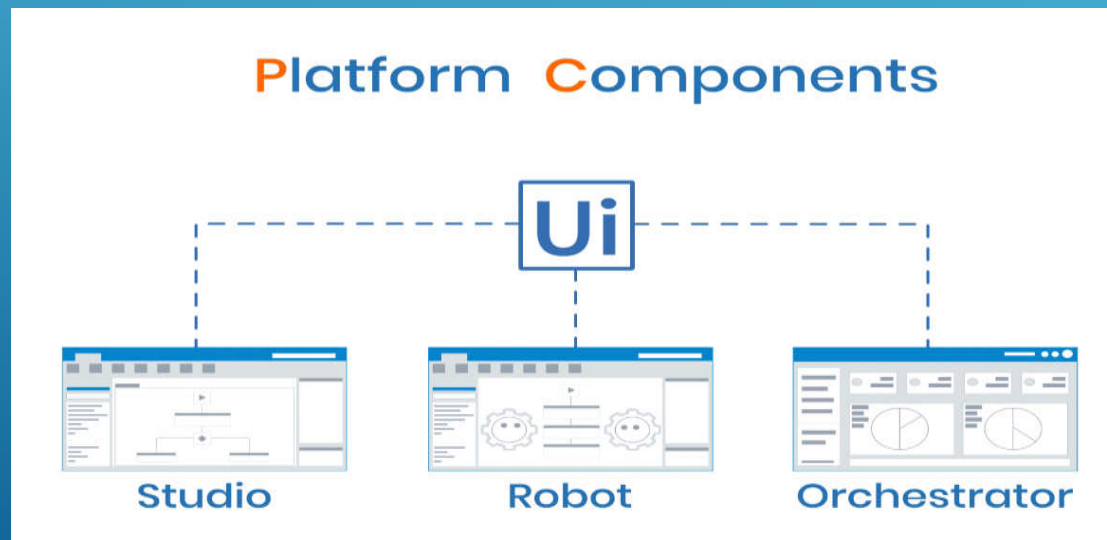
Development license for Studio

➢ **Named User License**

A license is dedicated to a single specific user. Named user license enable user to access the software at any time, on any machine

➢ **Concurrent User License**

A license is not assigned to a particular user. Instead, the number of purchased licenses indicates how many users can access the software simultaneously
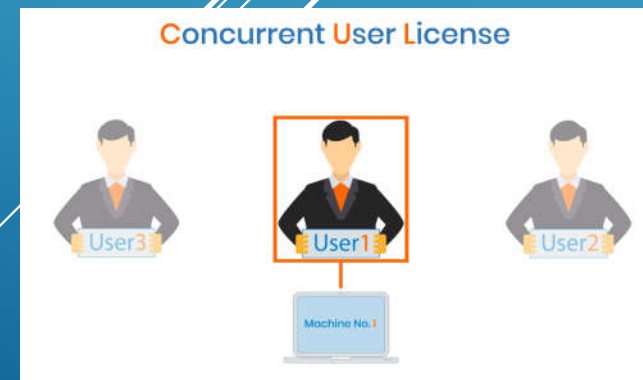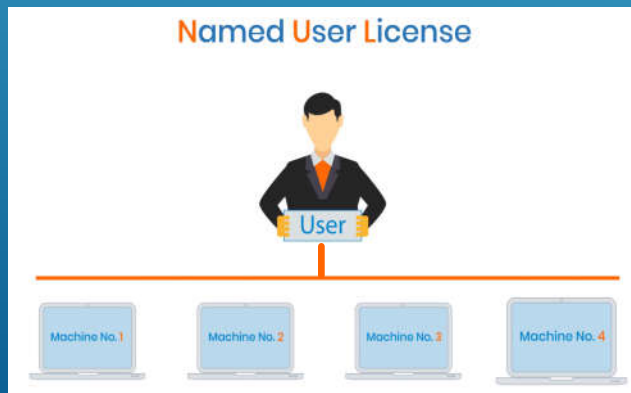
Robot license Type

➤ **Attended**
  The Attended robots collaborate with the users on business activities the require human intervention, speeding up repetitive front-office tasks

➤ **Unattended**
  The Unattended robots operate without human intervention, maximizing the cost and performance benefits for any variety of back-office activity

➤ **Nonproduction**
  The Nonproduction robots are used in UAT or similar Pre-Production environment to test the automation workflows before promoting them into Production

Server license for Orchestrator

The Orchestrator is a web-based management platform which provides remote control and monitoring capabilities for the digital workforce.
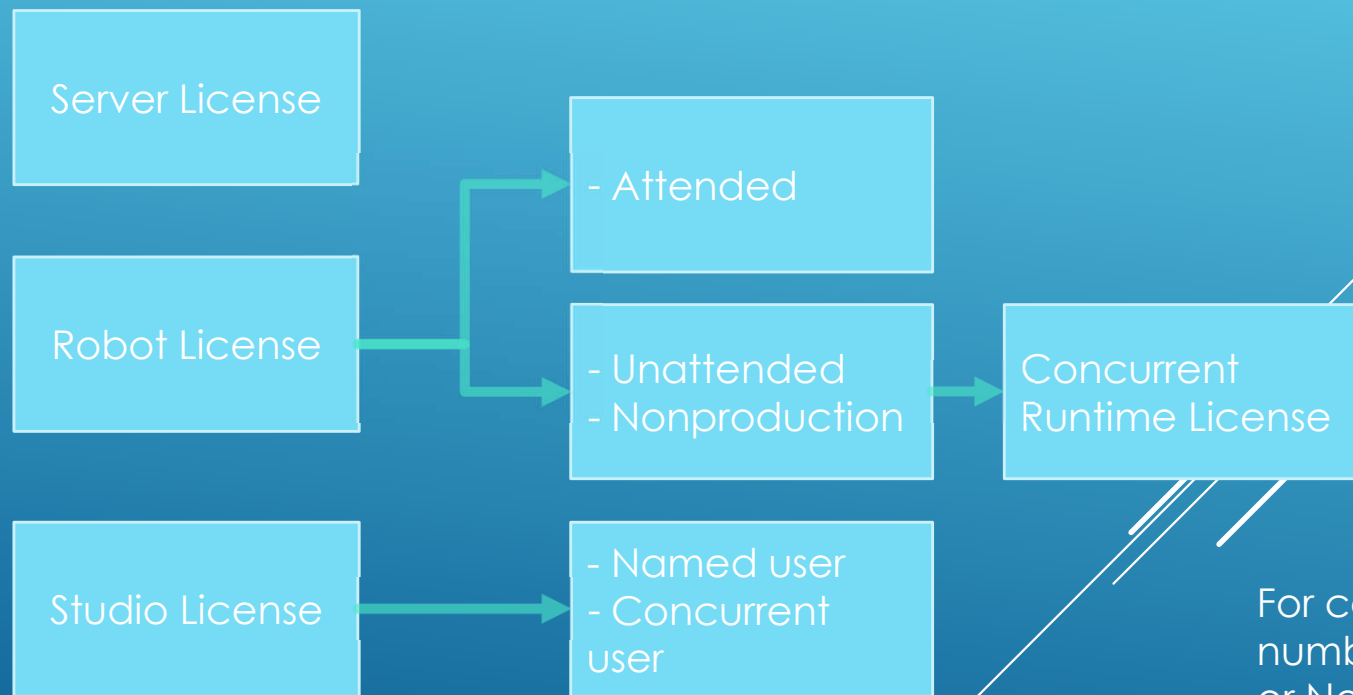
➢ **Host**
  For centralized license distribution and management across all the tenants

➢ **Tenant**
  On a specific tenant, it is possible to have only one type of Development license: Named User or Concurrent user.

License implementation example

Standard

Server License

Robot License → - Attended

- Unattended
- Nonproduction → Concurrent Runtime License

Studio License → - Named user
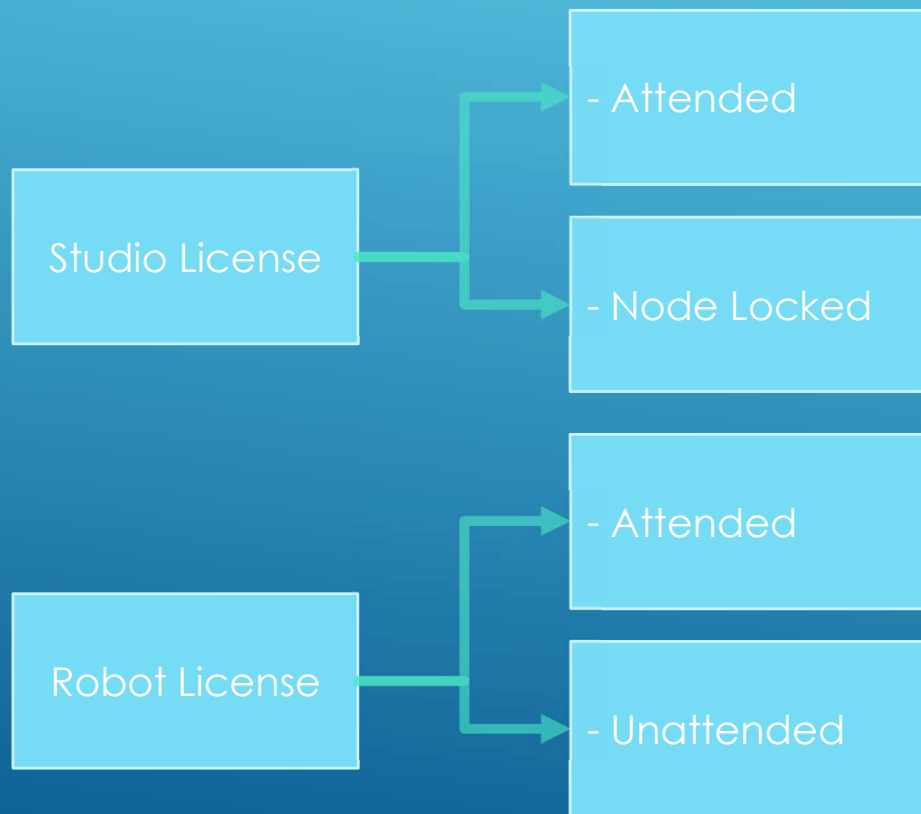- Concurrent user

For concurrent runtime is maximum number of Unattended or Non-Production Robots that are able to execute processes simultaneously.

License implementation example

Standalone (used for single machine and running without Orchestrator)

```
Studio License ──┬──▶ - Attended
                 └──▶ - Node Locked

Robot License ──┬──▶ - Attended
                └──▶ - Unattended
```

UiPath official is not recommend to usage of Unattended Robots without Orchestrator because as some of main functionalities will not be available

Office Robot

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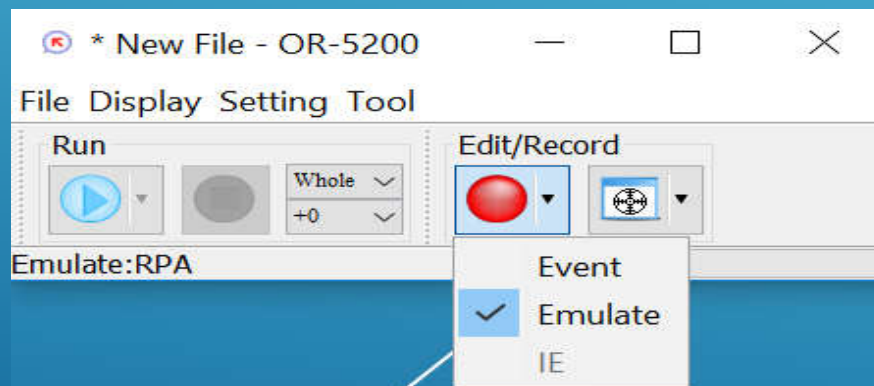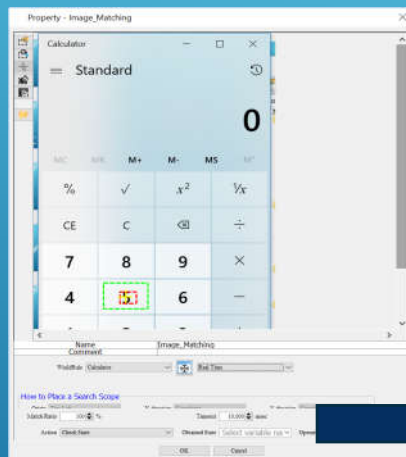
Image matching

Image matching is function for recognize image on screen.
RPA use this function to matches the identical image as condition to process the logic
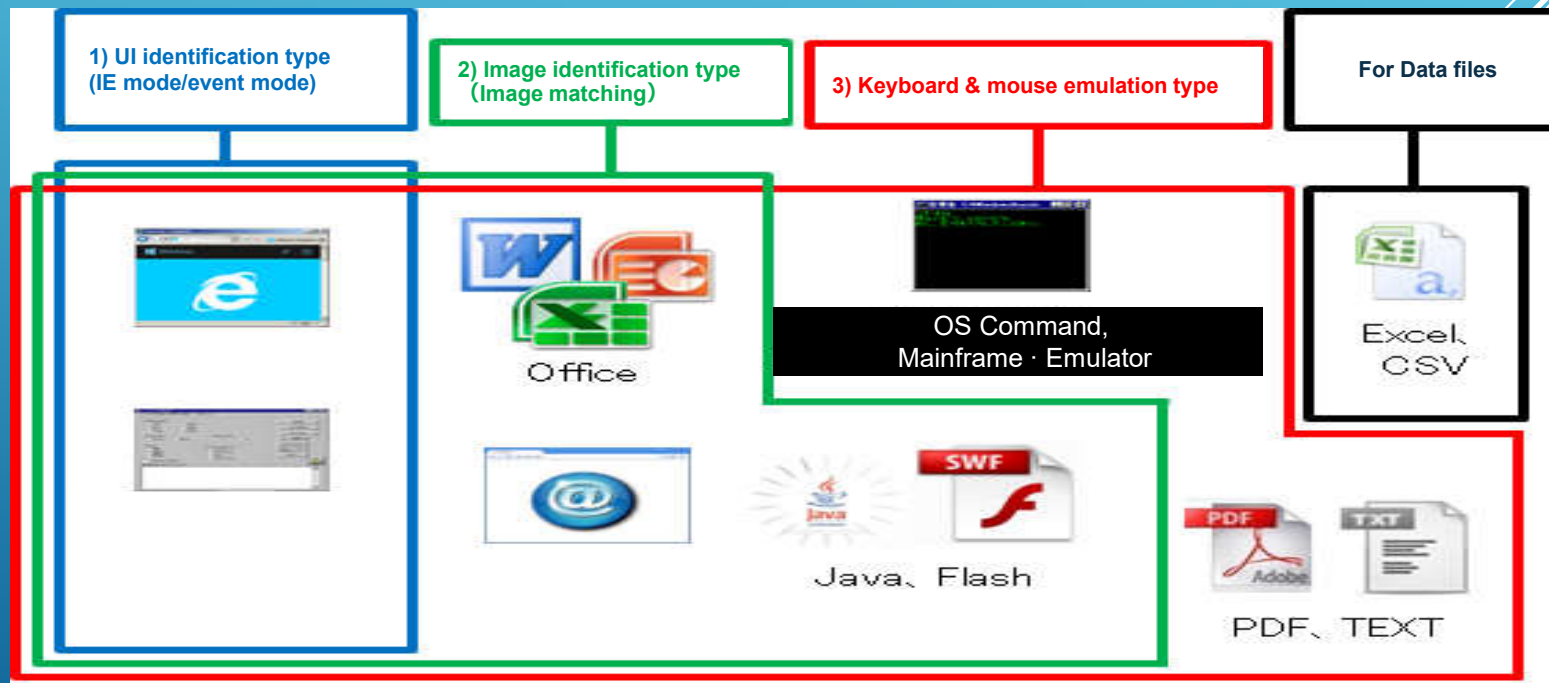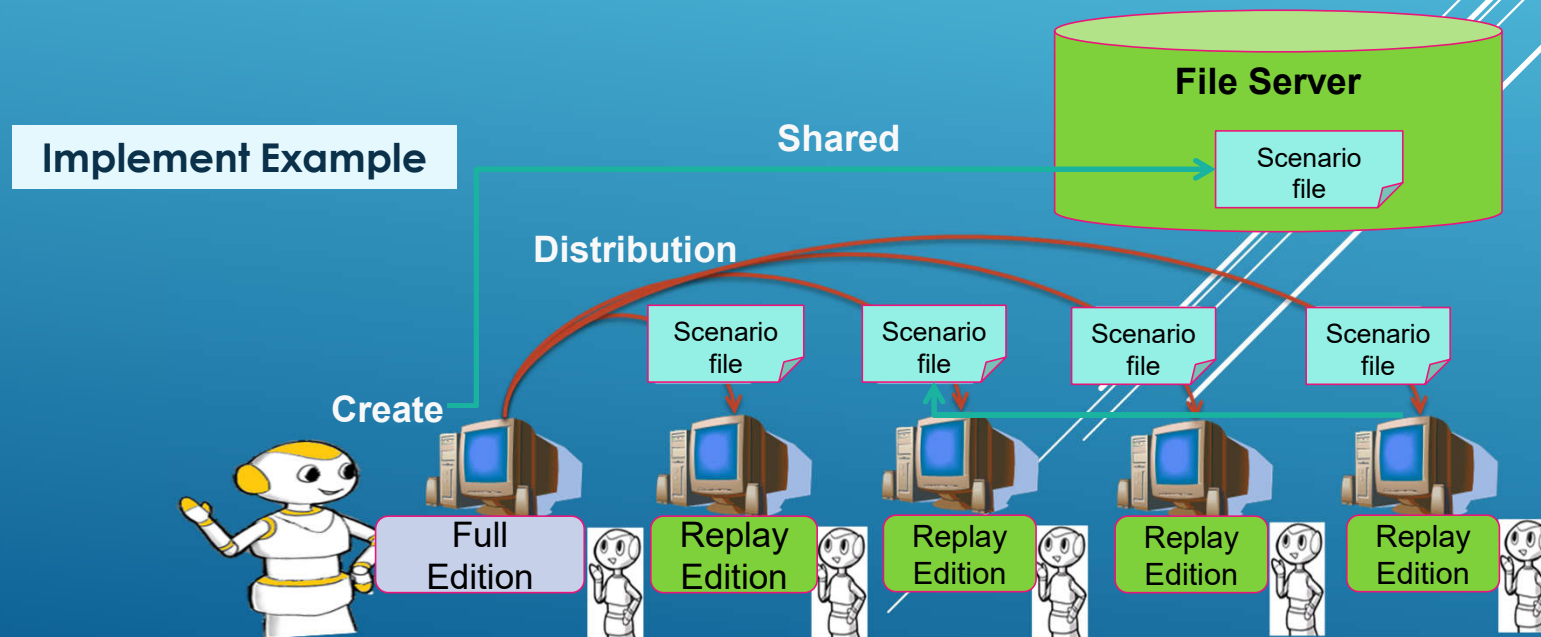

To find the image that matches

Recording Types

Office Robot can control any Windows Software using 3 record types depends on User Interfaces

1) UI identification type (IE mode/event mode)

2) Image identification type （Image matching）

3) Keyboard & mouse emulation type

For Data files

Office

OS Command, Mainframe · Emulator

Excel. CSV

Java、 Flash

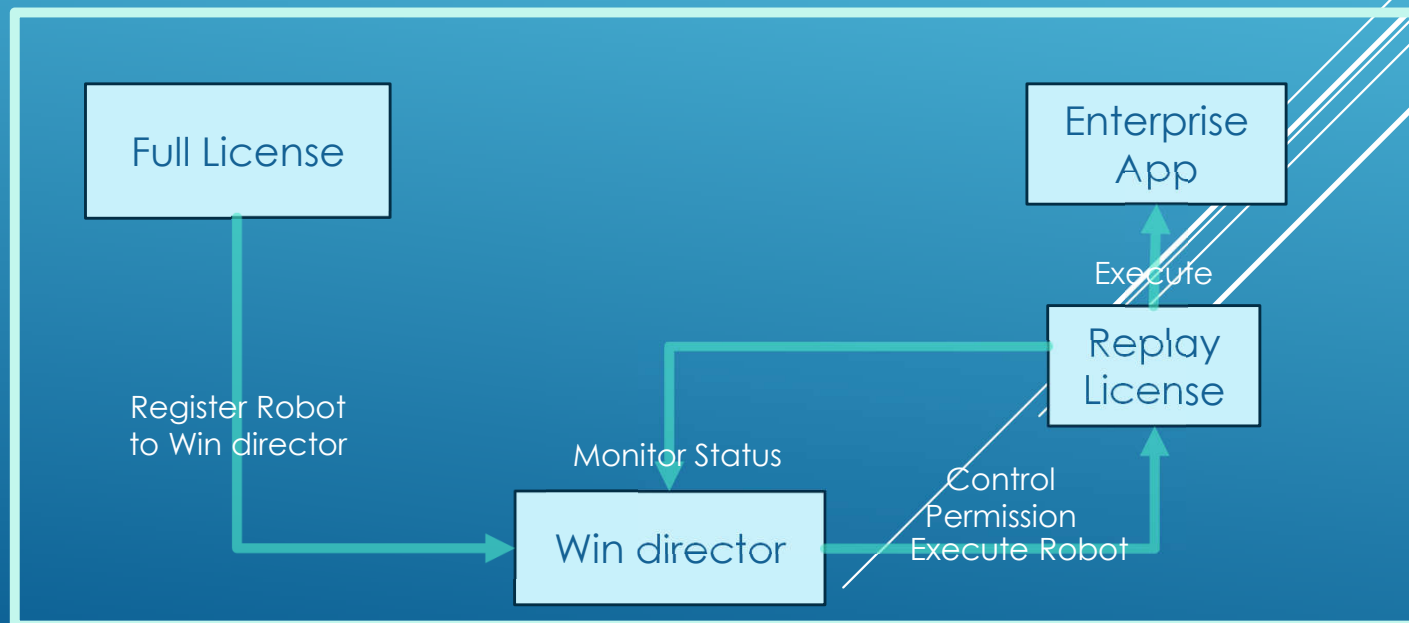PDF、TEXT

Office Robot License Type

Office Robot has 3 main license as following:

- ➢ Development license called : Full License
- ➢ Execution license called: Replay License
- ➢ Server license for control room called: Win Director

Implement Example

File Server

Scenario file

Shared

Distribution

Scenario file

Scenario file

Scenario file

Scenario file

Create

Full Edition

Replay Edition

Replay Edition

Replay Edition

Replay Edition

Control Room

Control room is robot management program. It monitors and controls a Robot's operation in a network. It can be used to start/stop Robots, make schedules for them, maintain and publish code, redeploy Robots to different tasks, and manage licenses and credentials.

Full License

Enterprise App

Execute

Replay License

Register Robot to Win director

Monitor Status

Control Permission Execute Robot

Win director

*Win-director