Companies attempting to ride the wave of artificial intelligence (AI) powered apps have benefited greatly from robotic process automation (RPA). One of the most extensively used RPA tools is UiPath. UiPath Orchestrator is an UiPath component that acts as a hub for all bots and software management. You will have a better knowledge of the UiPath Orchestrator by the end of this session.

What is the purpose of an UiPath Orchestrator?

The UiPath Orchestrator is a web application that lets you manage UiPath Robots to perform repeated business activities.

- Orchestrator is a tool that allows you to create, monitor, schedule, and control automated bots and processes.
- It's a single location where all software bots may be managed and controlled. It's capable of handling the complete fleet of robots.
- Third-party solutions and applications can be integrated using it.

Capabilities of the Orchestrator:

- **Provisioning-** The link between the robots and the web application is established and maintained.
- **Deployment-** Ensures that the appropriate package versions are delivered to the designated robots for execution.
- **Configuration-** Responsible for the upkeep and supply of robot environments as well as process configuration.
- **Queues-** Ensures that the task is automatically distributed across robots.
- **Monitoring-** Keeps track of Robot recognition details and manages user permissions.
- **Logging-** An SQL database is used to store and index logs.
- **Inter-connectivity-** Serves as a single point of contact for third-party solutions or apps.

Use Cases for Orchestrators:

The Orchestrator of UiPath's strength is its capacity to control the whole robot fleet. The many sorts of use cases are attended, unattended, non-production, studio, and studioX robots. They may all be controlled from a single location.

Attended- This type of robot is activated by user events and works at the same workstation as a human. Orchestrator is a centralised process deployment and logging medium that is utilised with attended robots.

Unattended- Robots can run unsupervised in virtual environments and automate a range of operations. In addition to the Attended Robot features, the Orchestrator is in charge of remote execution, control, scheduling, and support for task queues.

Studio/StudioX- Although it has unattended robot capabilities, it should only be used to connect your Studio or StudioX to Orchestrator for creation.

Non Production- Robots are identical to unattended robots, except that they can only be used for research and development.

Advantage of UiPath Orchestrator

Rich, strong orchestration is required for true enterprise-grade automation. UiPath Orchestrator gives you the power to provision, deploy, trigger, monitor, measure, and track the performance of both attended and unattended robots, ensuring the security and productivity of your whole digital workforce.

- **Reduce the Total Cost of Ownership (TCO):**

Scaling automation won't stress your operations—or your operational budget—with zero-touch provisioning, pluggable enterprise credential stores, OAuth 2.0 authorization for third-party apps, and the ability to deploy processes simply by adding users to Active Directory groups.

- **Maintain compliance with a thorough audit trail.**

Orchestrator keeps track of everything a robot does, as well as what people do with robots, so you can stay compliant and secure. UiPath Insights and drill-down dashboards give you complete visibility from deployment through ROI.

- **Make fantastic connections:**

Orchestrator allows you to link with software and third-party products, provides a variety of deployment choices, and connects you to the UiPath Marketplace and a large global RPA community.

- **All of your enterprise automation is at your fingertips:**

The new Orchestrator user interface is smaller, more contextual, and easier to use. Get more done in less time—and give your mouse a break.

- **Flexibility in cloud native deployment:**

UiPath Orchestrator is available immediately as a SaaS from the UiPath Automation CloudTM, or on-premises, in virtual machines, in private or public cloud, Linux VM, or as a cloud native single containerized suite via UiPath Automation Suite.

- **On the go orchestration:**

Orchestrator Mobile for iOS and Android allows you to securely monitor your robot workforce, receive notifications, and take action from anywhere.

Why is an upgrade necessary?

If you don't upgrade to the latest version, eventually, it will start impacting your process automations. Your automation bots will start to malfunction and ultimately it will stop your business processes.

Upgrade Related Details:

Upgrade hassle-free with AiRo's Quick Upgrade Framework

As a trusted UiPath Gold Partner, AiRo brings you accelerated intelligent automation solutions and a demonstrated track record on UiPath.

AiRo Digital Labs is an award-winning, global leader in AI and Hyper Automation led innovation for the healthcare ecosystem. We partner with Fortune 500 clients in the Healthcare, Pharma and Life Sciences industry to address the challenge of applying AI technologies to augment and enable the human effort, and to remove the inefficiencies in the care spectrum.

We specialize in the emerging technology fields of Artificial Intelligence, Machine learning, Robotic process automation, chatbots and conversational AI, Natural Language Processing, data analytics, premium cloud services, Industrial IOT, and other AI technologies.

The AiRo Edge :

- Hassle-free experience with AiRo's Quick Upgrade Framework/Solution
- Peace of mind with 1-Click upgrade
- Lowest migration time
- Seamless upgrade in just 1 week
- Dedicated team of experts to ensure error-free migration & end-to-end hand holding

Proposed Approach:

AiRo will perform a detailed study of the environment and ensure everything is working fine in the Dev environment; a version upgrade will be carried out in Dev first.

Before performing the upgrade AiRo will prepare a test case the same will execute in Dev and production both to determine the success criteria.

AiRo will analyze and further provide suggestions on activities and dependencies should be upgraded for better stability. AiRo will ensure an image of the Orchestrator Windows server will be created by the IT admin of the company before version upgrade to enable the rollback plan in case required.

AiRo will finally upgrade the version of production post validating the upgrade (fixing bug if any) in UAT. For code performance improvement basis, the analysis, we will submit a separate proposal for code refactoring.
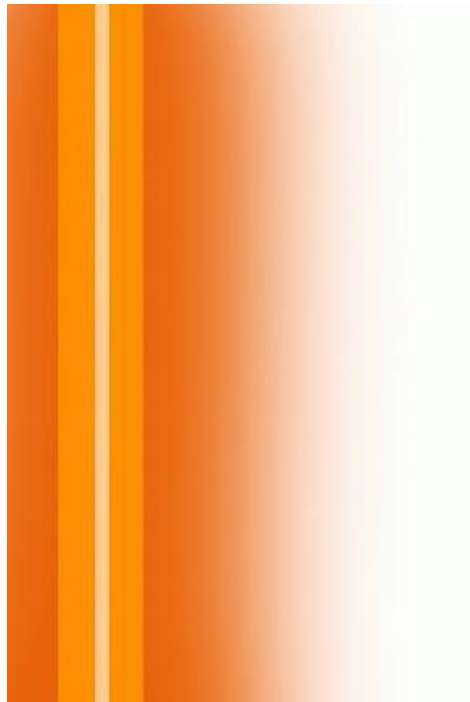
Major Activities – Version Upgrade

S. No.	Environment	Activities
1	Dev/UAT Orchestrator	Study the Environment (Ensure it fulfills the recommended requirements and keep everything ready according to upgrade checklist) Check if the development team is available.
2	Dev/UAT Orchestrator	Execute the Process. To check if it is working fine before Orchestrator Upgrade. (Black Box testing, which will be assisted by Iffco Tokio Developer)
3	Dev/UAT Orchestrator	Upgrade the Orchestrator (by following the upgrade checklist). Ensure the Assets/Credentials/Queues are maintained
4	Dev/UAT Orchestrator	Upgrade the Studio and Non-Production Robots
5	Dev/UAT Orchestrator	Execute the Process. To check if it is working fine after Orchestrator Upgrade
6	Dev/UAT Orchestrator	Update the Project features/activities which are not working after upgrade & Create a new Package
7	Dev/UAT Orchestrator	Document all the challenges which are faced during the Upgrade of Dev/UAT Orchestrator
8	Production Orchestrator	Study the Environment (Ensure it fulfills the recommended requirements and keep everything ready according to upgrade checklist)
9	Production Orchestrator	Execute the Process. To check if it is working fine before Orchestrator Upgrade
10	Production Orchestrator	Upgrade the Orchestrator (by following the upgrade checklist). Ensure the Assets/Credentials/Queues are maintained
11	Production Orchestrator	Upgrade the Unattended Robots
12	Production Orchestrator	Execute the Process. To check if it is working fine after Orchestrator Upgrade

Dedicated Team of Experts by AiRo

 AiRo believes in providing unmatched customer experience and to ensure a seamless end-to-end migration, a team of experts would be designated depending upon the scope of

work. This team, as mentioned below, may have either all or some specific experts to take care of error free upgrades and the last level handholding.

	Roles	Responsibilities
1	**Engagement Success Manager**	Person who will be acting as a champion from our side for ensuring stakeholders engagement and success of initiative.
2	**Project Manager**	Single point of contact, make key decisions and drive the project towards efficiency. Review project advancement against objective course direction.
3	**Solution Architect**	Delivers business and technical value, contributes to the development of innovative principles and ideas.
5	**RPA Developer**	Hands-on experience in UiPath and multiple automation platforms for Process optimization, Workflow creation, etc.

AiRO
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**Thank You
for choosing
AiRo Digital Labs**

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