



GLOSSARY OF SAP AUTOMATION WITH UiPATH RPA

**A Quick Reference Guide to
SAP Terminologies**

Concept/Term	Definition
UiPath	A leading Robotic Process Automation (RPA) platform. Enables automation of repetitive, rule-based tasks.
SAP GUI	Graphical interface for accessing SAP systems. Used as the front-end for most SAP automations.
RPA (Robotic Process Automation)	Technology that mimics human interactions with software. Automates manual and repetitive tasks.
SAP Automation	Use of RPA tools like UiPath to interact with SAP systems. Speeds up data entry, extraction, and transactions.
UiPath Studio	Development environment for building RPA workflows. Offers drag-and-drop tools and scripting support.

Concept/Term	Definition
Selectors	XML tags that identify UI elements on a screen. Essential for interacting with SAP elements via UiPath.
SAP Scripting	SAP feature that enables automation via scripting interfaces. Must be enabled for UiPath to interact.
Attended Bot	A bot triggered manually by a human. Often used for partial automation or support tasks.
Unattended Bot	A fully automated bot running without user input. Ideal for back-office and scheduled tasks.
Orchestrator	UiPath's web platform for managing bots, jobs, and schedules. Central hub for enterprise automation.

Concept/Term	Definition
SAP BAPI	Business Application Programming Interface in SAP. Used for programmatic integration and automation.
Transaction Code (T-Code)	A shortcut command in SAP to access specific screens. UiPath bots often start with a T-Code.
Recording	Captures user actions for automation in UiPath. Helps generate workflows for SAP processes quickly.
Desktop Recording	Records actions on desktop applications like SAP GUI. Useful for attended and legacy apps.
UI Automation	Interacts with the front-end UI elements like buttons or fields. Core method in UiPath for SAP tasks.

Concept/Term	Definition
Invoke SAP BAPI	UiPath activity to call SAP BAPIs directly. Enables API-based automation for faster processing.
Data Scraping	Extracts structured data from SAP tables or reports. Used in bots to collect information efficiently.
Object Repository	Central place to manage UI elements in UiPath. Encourages reusable, maintainable selectors.
Queue	A UiPath Orchestrator component to manage transactional data. Used in high-volume SAP processing.
Dispatcher	A bot that populates data into a queue. Prepares input for further processing by another bot.

Concept/Term	Definition
Get Text Activity	Reads visible text from UI elements. Useful for extracting status messages or values from SAP.
Exception Handling	Captures and handles errors during bot execution. Prevents crashes and allows recovery actions.
Retry Scope	A UiPath activity to repeat actions until success. Useful for handling SAP UI load delays.
Conditional Logic	Uses IF/ELSE or SWITCH activities to control flow. Makes automation more dynamic and responsive.
Flowchart	A visual modeling option in UiPath. Ideal for complex branching SAP automation scenarios.

Concept/Term	Definition
SAP Logon Pad	Entry point to access different SAP systems. Bots use it to initiate SAP GUI sessions.
Clipboard Operations	Involves copying data from/to the clipboard. Sometimes used when UI interaction fails.
Parallel Execution	Running multiple activities or bots simultaneously. Used to improve SAP processing speed.
Excel Automation	Automating Excel for data input/output. Common in SAP data uploads and reporting.
String Manipulation	Used to clean or format data for SAP entry. Involves trimming, splitting, or replacing values.

Concept/Term	Definition
Credential Store	Secure storage for user credentials in Orchestrator. Used for SAP logins.
SAP Login Workflow	A reusable login process in UiPath. Automates entering credentials and launching the system.
Transaction Automation	Automating SAP transaction execution like VA01 or ME21N. Reduces manual effort and errors.
Test Automation	Using RPA to test SAP processes or configurations. Validates outcomes across test scenarios.
Credential Asset	Stores login info securely in Orchestrator. Retrieved at runtime to access SAP.

Concept/Term	Definition
Hotkey Commands	Keyboard shortcuts used for faster SAP navigation. UiPath can simulate these keys.
SAP Table Navigation	Bot reads or enters values into SAP ALV or standard tables. Often requires looping logic.
Looping	Repeats actions until a condition is met. Used to process multiple SAP rows or items.
SAP Fiori Automation	Automating SAP Fiori UI using selectors and activities. Requires different strategy from SAP GUI.
API Automation	Using APIs instead of UI to automate SAP tasks. More stable and faster but requires SAP integration setup.

Concept/Term	Definition
SAP RFC	Remote Function Call in SAP for integration. Can be triggered by bots for backend automation.
Log Message	Logs custom messages in bot execution. Helps in debugging and tracking SAP automation steps.
Workflow Analyzer	Checks best practices in UiPath workflows. Ensures SAP automation code quality.
Debugging	Running workflows step-by-step to find issues. Essential during SAP automation development.
Breakpoints	Used to pause execution at specific points. Helps troubleshoot SAP automation failures.

Concept/Term	Definition
Exception Screenshots	Captures SAP screen on error. Aids in issue resolution and documentation.
Orchestrator Logs	Central repository of logs from all bots. Used to monitor SAP automation success or failure.
Job Trigger	Schedules unattended bot execution. Automates SAP workflows at defined times.
Reusable Component	A generic automation block used across workflows. Helps standardize SAP automation.
Sequence	A linear workflow container in UiPath. Best for step-by-step SAP transactions.