

# Tools Comparison

Features Category	Features	Appvance IQ	Robot Framework	Selenium	Tosca	UFT One
Basic Details	Tool Available Since	2013	2008	2004	2007	2006
Basic Details	Tool Vendor Name	Appvance	Apache Software Foundation	Apache Software Foundation	Tricentis	MicroFocus
Basic Details	Tool Type	AI driven autonomous continuous testing system	Acceptance testing, keyword-driven testing framework	Web based functional testing tool	Tests GUIs and APIs from a business perspective, Exploratory testing	Functional testing tool to test GUIs and APIs
License and Cost	License Model	Proprietary	Open source	Open source	Proprietary	Proprietary
License and Cost	SaaS support	Yes				
License and Cost	Client install needed	Yes	Yes	Yes	Yes	Yes
License and Cost	Comparative Tool Cost		Free	Free	Highest	Higher
Design and Development	Script Language Support		Python/Java	Java, C#, Perl, Python, JavaScript, Ruby, PHP	C#	VBScript
Design and Development	Object Recognition / Storage		XPath, UI Maps	XPath, UI Maps	Tosca Xscan to Scan Xmodules	Inbuilt Object Repository
Design and Development	Programming skills	Not required.	Advanced skills needed	Advanced skills needed to integrate various tools Record and Play available(Selenim IDE)	Not required.	Advanced skills needed to integrate various tools Record and Play available
Design and Development	No Code/Low Code	Yes	No	No	Yes	Yes, limited
Design and Development	Learning curves	Low	High	High	Medium	Medium
Technology Support	Desktop Automation	No	Yes, limited support	No	Yes	Yes
Technology Support	Browser Support		Chrome, Edge, Firefox	All Browser	Chrome, Edge, IE, Firefox	IE
Technology Support	API Testing Support	Yes, limited	Yes, using RESTinstance lib	No	Yes	Yes
Technology Support	Mobile Testing	Yes	Yes, using AppiumLibrary	No	Yes	Yes
Technology Support	Test Data Management	No	No	No	Yes	No
Technology Support	BDD Support	No	Yes, limited	Yes, need to use other tools	Yes	No
Technology Support	Mainframe	No	Yes, using AppiumLibrary	No	Yes	Yes
Technology Support	Middleware	No	Yes, using AppiumLibrary	No	Yes	Yes

ERP Support	Salesforce	Yes, web app support, do not have plug and play keyword	Yes, web app support, do not have plug and play keyword	Yes, web app support, do not have plug and play keyword	Yes	Yes, web app support, do not have plug and play keyword
ERP Support	Oracle	Yes, web app support, do not have plug and play keyword	Yes, web app support, do not have plug and play keyword	Yes, web app support, do not have plug and play keyword	Yes	Yes, web app support, do not have plug and play keyword
ERP Support	SAP	Yes, web app support, do not have plug and play keyword	Yes, SapGuiLibrary	Yes, web app support, do not have plug and play keyword	Yes	Yes, web app support, do not have plug and play keyword
ERP Support	ServiceNow	Yes, web app support, do not have plug and play keyword	Yes, web app support, do not have plug and play keyword	Yes, web app support, do not have plug and play keyword	Yes, TTA	Yes, web app support, do not have plug and play keyword
ERP Support	Workday	Yes, web app support, do not have plug and play keyword	Yes, web app support, do not have plug and play keyword	Yes, web app support, do not have plug and play keyword	Yes	Yes, web app support, do not have plug and play keyword
Automation Capability	Drag and Drop	Yes	Yes, need to develop code	Yes, need to develop code	Yes	Yes, need to develop code
Automation Capability	PDF file comparison	Yes	Yes, need to develop code	Yes, need to develop code	Yes	Yes, need to develop code
Automation Capability	Image based Testing	Yes	Yes, using Sikiuli	No	Yes	Yes
Configuration/Customization	Code to change configuration	Yes	Yes	Yes	Yes, Limited	Yes
Configuration/Customization	Ease of installation	Yes	No	No	Yes, install client	Yes, install client
Execution and Reporting	In-Sprint Automation Support	Yes	No, by default	No, by default	Yes	No
Execution and Reporting	Parallel Test Execution	Yes	Yes	Yes	Yes	No, by default
Execution and Reporting	In-build cloud execution	Yes	No	No	No, by default	No, by default
Execution and Reporting	Re-execution option of failed Script	Yes	Need to handle through scripting	Need to handle through scripting	using Tosca Commander	Yes, by using ALM feature
Execution and Reporting	Reports	Yes	In-build reporting	No default reporting, third party plug-in to be used	Dashboards, Risk-Weighted Requirement Reporting also available to import risk weighting from third-party tools	default HTML Report which can be imported as in pdf format too

Execution and Reporting	Test Analytics		No, by default	No, by default	Yes	Yes, Limited
AI/ML Feature	AI Powered Testing	Yes	No	No	Yes	Yes, limited on 15.0.2 version onwards
AI/ML Feature	Natural Language Processing(NLP) support	Yes	No	No	No	No
AI/ML Feature	AI Visual based testing	Yes	No	No	Yes	No
AI/ML Feature	Model Based Testing Support		No	No	Yes	No
AI/ML Feature	Self Healing Feature	Yes	No	No	Yes, Limited	No
AI/ML Feature	Auto-Generate Test Script	Yes	No	No	No	No
Tool Integration	Test Management Integration	Yes	No, by default	No, by default	Yes	Yes
Tool Integration	AWS/AZURE/ GCP Support		No, by default	No, by default	Yes	Yes
Tool Integration	Docker Support		Yes	Yes	Yes	Yes
Tool Integration	CI integration	CI tools like Jenkins, Hudson and Bamboo	Various CI tools by customization	Various CI tools by customization	Atlassian Bamboo, Automic, Electric Cloud, Jenkins, Jet brains, Quickbuild	Possible through Quality Center / ALM or Jenkins
Tool in Market	Tool awareness in market	Low	Low	High	High	High
Tool in Market	Customer Review( <a href="#">Gartner peer insight on May 2021</a> )	2/5 - 1 reviews		4.5/5 - 428 reviews	4.5/5 - 123 reviews	3.9/5 - 98 reviews
Tool in Market	Willingness to recommend( <a href="#">Gartner peer insight on May 2021</a> )	0%		89%	84%	72%
Tool in Market	Customer Review( <a href="#">trustradius.com on June 2021</a> )	NA	NA	8.9/10 - 216 reviews	8.5/10 - 21 reviews	6.8/10 - 56 reviews
Tool in Market	Customer Review( <a href="#">itcentralstation.com on May 2021</a> )	NA	NA	NA	8.5/10 - 12 reviews	7.9/10 - 15 reviews
Tool in Market	Ranking( <a href="#">itcentralstation.com on May 2021</a> )	NA	NA	NA	1	2

	Good
	Average
	No/Need to improve
	NA