

AI Asserts

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What is AI ASSERT?

AI ASSERT is Appvance's no-code validation capability that lets QA teams validate anything they can describe in natural language — without writing a line of code and without defining locators. Testers verify images, text, layouts, tables, animations, motion graphics and more through simple, human-like assertions.

Traditional UI assertions have always been rigid: they check static text or the presence of an element, and nothing more. AI ASSERT extends validation to rich, dynamic experiences — animations, medical visualizations, 3D models — by letting the tester simply tell the AI what to check.

In short: if you can describe the expected outcome in a sentence, AI ASSERT can verify it — against images, screen recordings, or live UI elements.

No Code. No Locators. Just Natural Language.

An assertion no longer has to be expressed as a technical condition. The requirement itself becomes the test:

Area	Example assertion written in plain language
Medical	“The heart is beating” in a 3D cardiology visualization; “the lungs inflate” in a simulation.
E-commerce	“The product image spins 360 degrees”; “the color changes to blue when selected.”
Gaming	“The character jumps when the button is pressed”; “the treasure chest opens after the key is used.”
Smart home / IoT	“The door opens”; “the light turns red” in an IoT dashboard.
Education / Training	“The planet rotates” in a 3D learning module; “the screen shows a chemical reaction.”

Key benefits

Benefit	What it means
Natural language validation	Describe any expected outcome and let AI validate it automatically — no custom assertions.
Visual & motion-aware	Works across images, animations, videos and 3D models, not just text and element presence.
Cross-platform	Supports both web and mobile UI testing.
Frictionless	Eliminates custom assertions and scripting; validation becomes conversational. It is simple enough that virtually anyone can learn it in 5 minutes.

How it fits into Appvance IQ

AI ASSERT builds on Appvance's patented **AI Script Generation** and **Digital Twin** technologies, which already deliver up to **100X** productivity improvements in test creation and coverage. With AI ASSERT, Appvance IQ becomes the first platform capable of validating not only workflows and data, but also complex visual experiences at scale.

“User experience is the brand. With AI ASSERT, enterprises can now test and validate that their applications don’t just function — they perform.” — Kevin Surace, CEO, Appvance

Availability

AI ASSERT was announced on **October 14, 2025** and is introduced in **AIQ 5.3.0**. It is available in **Web Designer** to start, with cross-platform support for web and mobile UI testing. See **AI ASSERT Release History** for the version-by-version detail.

Sources

- Appvance press release, “Appvance Expands AIQ With AI ASSERT for Next-Generation UI Testing” — PRNewswire, October 14, 2025.
- Appvance IQ (AIQ) 5.3.0 Release Notes — AI ASSERT feature description.

AI ASSERT Release History

AI ASSERT is tracked across the AIQ 5.3.x line. This page records what each release introduced or changed for the feature.

Release	What changed for AI ASSERT
AIQ 5.3.0	AI ASSERT introduced: a no-code validation feature that validates anything describable in natural language, with no code and no locators. Verifies images, text, layouts, tables, animations and motion graphics. <i>Universal validation</i> across UI elements, media and visuals; available in Web Designer to start; intended for QA, design and product teams.
AIQ 5.3.2	FFMPEG integrated into AIQ (Controller and TestNode) to enhance media handling capabilities for AI Assert.
AIQ 5.3.5	Stability work: resolved AI assertion failures, and AI assertion and SmartTag timeout issues.

Reading this table: an entry means the release notes name AI ASSERT explicitly. Releases not listed made no AI ASSERT-specific change.

Related changes in the same releases

- **5.3.0** — AI Script Generation (AISG) improvements: “Blueprints” evolved into **Digital Twins**, with better coverage mapping, autosave controls and CI/CD log integration. Mobile & API testing enhancements: new Appium support, Perfecto Cloud integration, SOAP auto-suggestions and request body validation.
- **5.3.0** — **Web Designer (Classic)** and **Mobile Designer (Classic)** were officially retired. All future enhancements go to the new designers.

Sources

- Appvance IQ (AIQ) 5.3.0, 5.3.2 and 5.3.5 Release Notes (as published in this documentation set).
- Appvance press release, October 14, 2025.

AI ASSERT vs. Traditional Assertions

For more than 30 years, assertions in UI testing have been rigid and limited to static text or element presence. AI ASSERT changes the unit of validation from a technical locator to a described outcome.

Aspect	Traditional assertions	AI ASSERT
How the check is expressed	Code plus a locator or accessor	One sentence in plain language
What can be validated	Static text, element presence, element attributes	Images, text, layouts, tables, animations, motion graphics, video, 3D models
Dynamic experiences	Not practical — animations and motion cannot be expressed as element presence	Validated directly by description
Who can author it	Automation engineers	QA, design and product teams
Setup effort	Custom assertion code per case	No code, no locators

The trade-off in plain terms: a traditional assertion is precise and cheap but blind to anything visual; an AI assertion can describe almost anything a human can see, so it is suited to validating the experience rather than only the DOM.

When to use which

- **Traditional assertions** — exact string checks, field values, element existence, and anything where a hard equality test is the requirement.
- **AI ASSERT** — visual outcomes, motion, layout, rendered media, and requirements that come from the business in sentence form (“the door opens”, “the product image rotates”).

Sources

- Appvance press release, October 14, 2025 (including the statement by CEO Kevin Surace on the limits of traditional UI assertions).

- Appvance IQ (AIQ) 5.3.0 Release Notes.