

Appvance IQ (AIQ) 5.3.0

Release Notes

We are excited to announce the release of **Appvance IQ version 5.3.0**, a feature-packed update that delivers **new capabilities, performance improvements, and critical fixes** across the platform.

This release focuses on:

- **Repository and Performance Enhancements** – streamlined repository handling, cloud-first design, and faster performance.
 - **Expanded Platform Support** – including full **Kubernetes support** for scalable deployments and enhanced **Azure Active Directory authentication**.
 - **AI Script Generation (AISG) Improvements** – “Blueprints” have 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.
 - **AI ASSERT** is a **no-code validation feature** that allows QA teams to **validate anything they can describe** using **natural language**, without writing a single line of code or defining locators.

With AI ASSERT, testers can now verify **images, text, layouts, tables, animations, motion graphics, and more** — all through simple, human-like assertions.

 - **No Code. No Locators. Just Natural Language.**
 - **Universal Validation:** Works across UI elements, media, and visuals.
 - **Seamless Integration:** Available in **Web Designer** to start.
 - **Empowers Everyone:** QA, design, and product teams can now validate UX/UI effortlessly.
 - **Retired Legacy Components** – Web Designer (Classic) and Mobile Designer (Classic) are officially retired in AIQ 5.3.0. All future enhancements will focus on the new Web and Mobile Designer experience.
 - **Stability and Fixes** – Across Scenario Editor, Desktop Designer, Mobile Testing, API Testing, Reporting, and CI/CD pipelines.
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Release Details

Build: [AIQ-5.3.0-622303](#)

Release Date: 12/17/2025

Build URL: <https://aiqbuilds.s3.us-west-2.amazonaws.com/AIQ-5.3.0/622303/AIQ-5.3.0-622303.zip>

For additional documentation, see: [General Notes](#)

Windows AMIs

Linux (Ubuntu) AMIs

⚠ Security Alert – False Positive

During the installation of **AIQ 5.3.0**, Symantec may flag

ascanrules-release-69.zip

(C:\AIQ\AIQ-5.3.0-615640\aiq_distribution\OWASP\home\plugin\)

as **“Hacktool.”**

This is a **false positive** — the file is a legitimate **OWASP ZAP** plugin required for penetration testing.

☐ **Action:** Whitelist the OWASP directory in Symantec to prevent deletion. If removed, restore the file to enable app penetration scenario execution.

☐ New Features & Enhancements

Global Enhancements

- **Repositories – Functional and Performance Improvements**
 - All changes now push directly to cloud repositories (S3, Git, etc.).
 - Eliminates controller storage bottlenecks.
 - Files now display at the top of folders.
- **Azure Active Directory Authentication** for SQL databases.
- **Direct JSON/XML Editing** inside AIQ.
- **AWS S3 Region Support** for repositories.
- **Kubernetes Support** for containerized deployments.
- **Admin Tools:** Ability to force logout stuck user sessions.
- **Deprecations:**

- Encrypted DPL → migrate to **HashDPL**.
- Web Designer (Classic) retired.
- Mobile Designer (Classic) retired.

AI Script Generation (AISG)

- Terminology update: “Blueprint” → **Digital Twin**.
- Disable the Auto-Save option.
- AI Hints highlighted on Coverage Map.
- AISG results are available in CI/CD logs.

Mobile Testing

- **Mobile AISG** is fully supported.
- Highlight Mode for element discovery during playback.
- Required upgrades: **Appium 2.12.1**, **XCUITest 7.28.3**, **UIAutomator2 3.8.1**.
- Added **Perfecto Cloud** integration.

API Testing

- Auto-validation of request body syntax.
- SOAP response auto-suggestions enabled.
- “Beautify” formatting button for imported files.
- Enable/disable individual blocks in scripts.

Desktop Testing

- Relative path designator updated to `{dds}` (previously `{mds}`).
- Logs aligned with Web Designer logs.
- Updated Windows Appvance Driver.

New Features in AIQ 5.3.0

React UI

- Remove elements from action lists.

- Enhanced file navigation and repository error messages.
- UX refinements, dark mode option, and accessibility improvements.
- Notifications for long-running tasks and enhanced search across repositories.
- Keyboard shortcuts for navigation.

Scenario Editor

- New modular action blocks, validation blocks, and scenario templates.
- Support for conditional workflows, grouped actions, nested loops, and reusable steps.
- Auto-complete for variable references and real-time validation checks.
- Drag-and-drop improvements and better variable scoping.
- Support for execution pause/resume and user-defined macros.
- Performance optimizations for large scenarios.

AI Script Generation (AISG)

- Disable autosave for Digital Twins saved in GitLab.
- Results are displayed in CI/CD logs with filtering options.
- Enhanced Coverage Map navigation and Digital Twin metadata.
- Support for Digital Twin versioning and cleanup of old twins.
- Runtime execution statistics, hint prioritization, and auto-retry for failed scans.
- Optimized creation speed and general performance improvements.

Mobile Testing

- Custom scaling for Highlight actions and OCR highlight support.
- Expanded locator strategy support.
- Support for custom app permissions and biometric authentication testing.
- Enhanced Appium integration and error handling during test runs.
- Parallel device testing support.

API Designer

- Enable/disable SOAP requests individually.
- Block reuse, request chaining, and data-driven API blocks.
- Syntax highlighting for JSON/XML bodies.
- Block-level comments and more auto-complete options.
- Import/export of test collections and REST response reuse across scripts.



Cloud Config

- Improvements to EC2/S3 integration and provisioning logging.
- Support for multiple VPCs and region-specific defaults.
- Enhanced error handling for AWS configurations.
- Validation for S3 bucket access.

☐☐ Reporting

- Enhanced iteration summary export options (CSV/Excel, PDF).
- Filtering and per-user filtering improvements.
- Charting options and trend capabilities.
- Enhanced XML reporting format.

☐☐ CI/CD

- Enhanced AISG compatibility and coverage summaries.
- Retry logic for reporting sync and failed executions.
- Webhook notifications.

☐☐ Desktop Designer

- Updated driver logs, new driver APIs, and compatibility expansions.
- Improved installer and IDE shortcuts.
- Enhanced logging configuration and context menu options.

☐☐ Security

- Migration support from EncryptedDPL → HashDPL (with fallback).
 - Additional audit logs for user actions.
 - SSL authentication support in the SQL client.
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☐☐ Improvements

☐☐ Web & Scenario Testing

- Resolved validation errors when “**All Available Machines**” was selected in Scenario Editor.

- Corrected SQL process file execution issues.
- Eliminated duplicate Scenario paths during execution.
- Restored SmartTags icon visibility after AISG execution.
- Addressed issues with deleting repository folders containing AISG files.
- Corrected child state display for clicked Action elements.

Cloud Config / Infrastructure

- Corrected EC2 startup validation errors (“Please fill all config text fields”).
- Improved handling of region-specific EC2/S3 configurations.
- Resolved repository configuration failures caused by long usernames.
- Enabled SSL authentication in SQL Client.
- Restored proper OpenSearch integration.

Desktop Designer

- Corrected inconsistent step numbering and skipped indices in logs.
- Eliminated duplicate log entries in the Log Viewer.
- Resolved duplicate “Loop started” messages per iteration.
- Corrected context menu truncation when adding “Open in Editor”.
- Addressed flickering issues in the Scenario Editor UI.

Mobile Testing

- Improved Preview screen stability (maximization and assertions).
- Resolved script recording failures in Mobile Designer.
- Corrected playback and element assertion issues.
- Improved reliability when running tests across multiple devices.
- Enhanced error handling in Highlight Mode and OCR scanning.

API Testing

- Addressed runtime errors in email validation scripts.
- Corrected failures when verifying PDF document contents.
- Restored execution for “For Each” blocks with XML input.
- Corrected SOAP responses collapsing into single-line XML.
- Resolved crashes when opening large XML files.
- Improved parsing of array objects in XML API responses.

Reporting & CI/CD

- Addressed scrolling issue in the Iteration Summary HTML report.
- Corrected filters not persisting in location-based reporting.
- Restored XLSX export availability for failed API files.
- Improved iteration summary filters for large test runs.
- Corrected CI/CD dashboard synchronization from S3-hosted clients.

General / Platform

- Resolved server timezone detection issues.
- Corrected user upload problems in the Admin module.
- Restored Modified Time Stamp display in downloaded file paths.
- Addressed UI flickering when switching tabs during save.
- Improved Chrome/Firefox compatibility for Visual Accessors and AISG.

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