

Release 5.2.0

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The Appvance IQ (AIQ) 5.0 release includes a significant leap forward in the world of AI-native

This document contains information on the following functional enhancements and functional changes.

Depending on what AIQ release you are upgrading from to AIQ 5.2.0, there may be additional functional changes.

Accessing AIQ 5.2.0

Appvance customers can access the 5.2.0 release page. The release page includes a link to the AIQ 5.2.0 release page.

See the "Upgrading your Controller and Test Nodes" section of the 5.2.0 release page for upgrade instructions.

See About Appvance for contact information.

Release 5.2.0 Notes

See the 5.2.0 release page for general notes.

Firefox Version 130.0

The recent update of Firefox version 130.0 has removed some functionality that impacts AIQ.

The following features are impacted:

Running AI Script Generation executions

Visual Accessors

Take Snapshot/Take Screenshots

setText()

closeWindow()

grantPermission()

Recommendations:

Use Firefox ESR 45..4.0 / 128.2.0esr

Downgrade to Firefox 127.0

Use Google Chrome or Microsoft Edge

Enhancements in AIQ 5.2.0

AIQ 5.2.0 contains the following functional enhancements.

AI Script Generation and Autonomous Testing Enhancements

AIQ 5.2.0 contains improvements to the AI Script Generation process for users as well as under-the-hood

Upgrade Considerations for AISG

For the new features introduced in AIQ 5.2.0 such as the new Coverage Map types and Visual Access, see [Updating 5.0.x AISG Files to AIQ 5.2.0](#) for more information.

User Interface and Terminology Changes

The menu option [Blueprint Designer](#) (AIQ 5.0.x) has been renamed to [AI Script Generation](#) in AIQ 5.2.0. In addition to this change, the terms "AI Exploratory Testing" and "AI Blueprinting" are no longer used. The term [Blueprint](#) is still used to refer to the [Blueprint \(.abpt\)](#) file that is created during a test run.

New Coverage Map Types

AIQ 5.2.0 contains significant improvements in the AISG Coverage Maps. You can now select from three different Coverage Map types. The Coverage Map types available in AIQ 5.2.0 are:

Actual Path - Shows the actual path the AI took while executing on your application.

Extended Potential Path - An expanded version of the original coverage map, which will show you all possible paths between page states.

Original - Shows the shortest possible path between page states, regardless of the steps it took to get there.

You can use these Coverage Map types to effortlessly track the AISG execution's journey through your application.

Actual Path Coverage Map

Extended Potential Coverage Map

See [Coverage Map Types](#) for more information on each type and how they differ from each other.

Search and Filtering Improvements on the Coverage Map

Improvements have been made in the Coverage Map to allow you to search and filter the results so you can find what you need more easily.

Searchable Coverage Map

The Coverage Map is now searchable to allow you to filter through and explore the data more easily.

See [Exploring the Coverage Map](#) for more information on interacting with the Coverage Map.

Filtering Out Requests on the Coverage Map

You can now filter out specific requests or errors from the Coverage Map. This action will be saved to the Coverage Map.

To hide a request, right click on it from the list and select [Hide URL](#). The request is filtered out of the Coverage Map.

You can also view all hidden requests from the [Requests](#) page which is linked from the [Overview](#) page.

See the ["Filtering Requests"](#) section of [Exploring the Coverage Map](#) for more information.

Visual Accessor Support Added

AIQ 5.2.0 has significant improvements in element-bounds for visual hints and the addition of Visual Accessors. Visual Accessors are automatically added to the AI Script Generation configuration.

Visual Accessors must be enabled in the Advanced Setup options in the AI Script Generation configuration. Visual Accessors will be automatically captured when elements have fewer than four fallback accessors. This example shows a situation where only three fallback accessors were identified, so a Visual Accessor was added. See Visual Accessors in AISG for more information.

Manually Adding Visual Accessors

In addition to the automatically captured Visual Accessors you have the option to manually create Visual Accessors. If the AISG identified at least one accessor, it will give you the option to manually add a Visual Accessor.

AI Training Enhancements

Many enhancements have been made to the AISG user interface to allow you to easily add additional resources. Try All Option added to Custom Actions

The option to Try All has been added to Custom Actions. Custom Action can be created to resolve the issue. See Creating Custom Actions for more information.

Add Additional Resources

You can add additional resources to be used by the AI during the AISG execution. For example, you can add resource files. Resource files can be added in the Advanced Setup options in the AI Script Generation configuration. See the Advanced Setup options section in the documentation.

Support for Multiple Data Sets

You can add multiple data sets. There is a drop down where you can select the type of DPL you are using. See Add an Execution for more information.

SmartTag Visual Details

You can now view details about the SmartTags that were found during the AISG execution. If you click the SmartTags button from the Blueprint Overview, you can see details of the SmartTags. Select an element and the Click Thumbnail Image to see Details link will show you a visual representation of the SmartTag. See Exploring SmartTags for more information.

AWS Instance Test Node

The Add Execution window has a new test node option in AIQ 5.2.0. You can select an AWS instance .

When you select AWS Instance you must select a cloud configuration file that contains a link to Desktop Application Testing

The new Desktop Designer is a new testing interface that takes advantage of AIQ's Mobile Designer. Here is a brief introductory video on the features and benefit of Desktop Designer.

Benefits and Highlights

You can your test scripts as a Scenarios and view the results on the Dashboard.

Record a video of the test script execution.

Easy access to all Windows keys and actions.

Point and shoot to record your script or add the logic you need with the use of Javascript commands.

Detachable preview mode allows you to work on two monitors. You can view your test script on one monitor and the results on another.

Desktop Designer currently supports Windows applications and mainframe systems. Support for Desktop Designer will be added in the future.

API Designer

API Designer has been revamped with powerful validations, DPL support, and more. This allows you to create and execute API tests more efficiently. Enhancements include:

Enhanced OCR Text Recognition: An advanced feature to get text from an image. This is not available in the previous version.

Support for Data Files: Added data file support (aka DPL) is available in API Designer like it is in the previous version.

Global Header Section: This helps when the headers are repeated, but only need to be specified once.

Multiple Edit Features added: You can now copy and paste API requests or import API Designer scripts into a new test case.

Locker Functionality: Allows you to use values in subsequent test cases or iterations.

Basic Certificate Support: Now you can use Certificates for authorization purposes.

New API Building Blocks

As part of the enhancements there are five new API testing building blocks.

New Building Blocks

Optical Character Recognition (OCR)

Global Parameters

Include

Locker

JavaScript

See [API Testing Building Blocks](#) for more information.

Reporting

The Dashboard now shows detailed reports for API scenarios similar to DS and JS scenarios.

Postman Conversion

AIQ introduces the ability to read Postman JSON files and convert them into Service Workbench API Files.

Highlights

New interface: New Interface to visualize imported API Scripts

Import Feature to convert from Postman Scripts into SWAPI scripts

Implemented the most common Postman commands. Other commands could be added quickly fast, in the future. Added the ability to import SWAPI files into the AIQ interface. Playback of SWAPI files to execute them. get them executed.

Support for Scenarios, which means that you can add the SWAPI files into Scenarios and save results.

Converting Postman Files

Opening a Postman file from Services Workbench initiates the conversion process. The conversion process is asynchronous and the user is notified when the conversion is complete.

HTTP methods

Headers

Body parameters

URL parameters

Authentication details

Test scripts

Once the Postman file is converted, you can edit the generated .swapi files within Services Workbench.

Mobile Testing

There are major changes and enhancements to the user interface for creating, maintaining and executing mobile tests.

New Mobile Designer Interface

The new Mobil Designer interface aligns perfectly with modern editor capabilities offering a more

See an introductory video showing the new Mobile Designer interface in use.

You will see this new user interface available in the AIQ menus.

Mobile Designer (the new interface)

Mobile Designer (Classic) (was known as Mobile Designer in previous AIQ releases)

Going forward the Mobile Designer (Classic) user interface is frozen. All new features and funct

See Mobile Designer - New User Interface Overview for the related documentation on the new inter

Geo Location

You can now Geo Location for iOS and Android phones with Browser Stack, SauceLabs, and OnPremise

See Geo Location for more information.

Image Injection

The Set Camera Image function allows you to set an image to be used when triggering the camera c

See Image Injection for information on compatibility, configuration and supported APIs.

Landscape Mode

The new Landscape testing mode allows you to test using tablet/iPads.

Functional Changes

These are the various small changes to functionality that were made in the 5.2.0 release of AIQ.

CICD Git Dashboard Housekeeping

Implemented a parameter to determine the maximum number of days that builds are retained. The pa

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```
<taskdef name="historyManager" classname="com.appvance.ci.git.HistoryManager">
    <classpath refid="RestClientLibPath" />
</taskdef>
<historyManager
    folder="${localEmptyFolder}"
    product="${product}"
    environment="${environment}"
    executionType="scenarios"
    maxDays="10" <<<< days to keep entries
    buildVersion="${buildVersion}"
/>
```

Removed Support for SoapUI

Support for SoapUI was removed in the 5.2.0 release of AIQ.

AISG - Creating Custom Actions

When you click on an unknown input on the actionable elements list from a state page, a custom action is created.

User Management - Teams

An enhancement has been made to user management so that you can now assign users to teams.

This function is only available to the Owner (appvance user).

Navigate to Global Options > Admin Options > Teams (tab).

Available functions:

Add a team

Delete a team

Assign users to teams

Remove users from teams

Export teams

Import teams

The import CSV file must contain the following five column: User Name, Role, Team, Password, Correlation ID

Delete Execution Reports

From the Reports screen you can now delete an execution report that you decide is not relevant.

Some situations where this could be useful is to delete empty reports that clutter up the database.

API Testing Reporting

The Dashboard now shows detailed reports for API scenarios similar to DS and JS scenarios.

Time Stamp Displays

The Star Session time stamp is now in human readable format. Also, a note was added to clarify the time stamp.

Iteration Summary Reports Optional

A new CI/CD parameter controls whether the Iteration Summary Report is generated and attached to the build.

This option allows users who are only interested in the Functional Reports of their pipelines to skip the Iteration Summary Report.

The parameter is `includeSummaryReports`. The default value is `true`, which means the reports will be generated.

The following functional changes in the Scenario Editor were added in AIQ release 5.2.0:

Added option for API tests in the Script Type for Bulk Performance tests.

DataDog APM Integration

When setting up integration with DataDog the parameter `live=true` must be replaced with `live=false`.

See [Integration with Datadog \(APM\)](#) for more information on the integration,

Fixes

See the [5.2.0 release page](#) for a list of fixes contained in AIQ 5.2.0.

Last updated: April 01, 2025

If you have any feedback on this topic, please contact us at documentation@appvance.ai

Revision #6

Created 2026-07-23 14:09:53 UTC by Admin

Updated 2026-10-13 20:35:15 UTC by mmora