

What is GENI Script Generation?

GENI Script Generation is the generative-AI engine inside Appvance IQ that converts plain-English, step-by-step test cases into fully executable test scripts. You describe what to test the same way a manual tester documents it — GENI writes the automation.

Scripts are produced in bulk — roughly **100 scripts per hour**, and up to **400x faster** than a human scripter — and they require no ongoing maintenance. When the application under test changes, you regenerate instead of repair.

GENI Script Generation is available from **AIQ 5.3.6 (build 536)** onward, and is accessed from the **GENI** area in AIQ.

In short: describe the test in English, and GENI Script Generation delivers the executable script — at scale.

What you get in the GENI area

Opening the GENI area in AIQ presents three options. **Script Generation** and **Script Generation Import** are enabled by the GENI license; the Transformation Factory is a separate, complementary capability.

- **Script Generation** — converts your Excel- or TMS-based test cases into executable test scripts.
- **Script Generation Import** — imports generated scripts and scenarios back into Appvance IQ, so they run inside the AIQ scenario editor alongside other test types.
- **Transformation Factory** — automates the full QA artifact chain (requirements to scripts and back). See the [GENI Transformation Factory](#) chapter.

Remember: Script Generation is *English test case in, executable script out*. No Blueprint, no Digital Twin, no recorder.

Important — GENI Script Generation is NOT AISG. AISG (AI Script Generation) is the autonomous-testing module inside AIQ that explores applications and builds the **Digital Twin**. GENI Script Generation does not use Blueprint or Digital Twin technology: it converts the English test case directly into a script using specially tuned transformer models and a proprietary code generator. AISG is documented in its own book: [AI Script Generation \(Autonomous Testing\)](#).

Key numbers

100

scripts generated per hour

400x

faster than human scripters

70%

of end-to-end testing is manual today

85%

of QA automation resources go to scripting & maintenance

Batch runtime is roughly constant. Because every test case runs in parallel on its own isolated instance, a batch takes about **2 hours** whether you submit 1 test case or 100 — capacity scales linearly.

GENI Script Generation vs AISG — side by side

GENI Script Generation	AISG (AI Script Generation)
Converts plain-English test cases into executable test scripts	Explores applications autonomously and builds the Digital Twin (<code>.abp</code>)

GENI Script Generation	AISG (AI Script Generation)
100 scripts per hour · 400x faster than human scripters	Formerly “Blueprint Designer” / “AI Blueprinting”; under Autonomous Testing in AIQ 5.2+
Input: an Excel file or a TMS connection. Output: a script you can download and edit	Input: an application and specific flows. Output: the Digital Twin plus coverage insight
No Blueprint, no Digital Twin, no recorder	Uses the Digital Twin as its core artifact

How it works — at a glance

1. **Bring your test cases** — the English, step-by-step scenarios you want to automate, in Excel or from your TMS.
2. **Map and validate the batch** — GENI auto-detects the columns and tells you exactly how many test cases are ready.
3. **Generate** — a single action, *Transform Test Scripts*, converts each test case into a script in parallel.
4. **Run and schedule** — group the scripts into scenarios and run them on demand or in CI/CD, with screenshots and reports for every execution.

Sources: appvance.ai/geni · Appvance announces GENI (Mar 18, 2025) — press release · GENI Script Generation — Technical Overview

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