

What is the GENI Transformation Factory?

The **GENI Transformation Factory** is Appvance's intelligent document transformation engine that automates the **entire QA artifact chain**. Unlike traditional tools that create artifacts in isolation, GENI generates, transforms, and regenerates *every* QA artifact — **both downstream and upstream** — creating a living, bi-directional system of record.

In short: any QA artifact can now be used as input to generate any of the others, instantly. Test cases can become user stories, business requirements can become scripts, and scripts can regenerate their own documentation.

Even Shorter (GTF): the GENI Transformation Factory ingests documentation in **Word (.docx)** format and automatically generates **Epics, Business Requirements, Product Requirements, and User Stories** in a standardized **Markdown (.MD)** format. It also produces **Test Data and Test Case suggestions**, delivered as structured files (**CSV and Excel**) containing recommended test inputs, execution steps, and supporting validation data.

The QA artifact chain

QA has long relied on a chain of artifacts:

1. Business requirements
2. Epics
3. User stories
4. Gherkin scenarios
5. Test case summaries
6. Step-by-step test cases
7. Executable test scripts

Historically, each artifact was created and maintained separately — often inconsistently — leading to coverage gaps, costly rewrites, and fragile connections between requirements and tests. The GENI Transformation Factory keeps everything synchronized.

Key numbers

85-93%

reduction in human labor vs creating artifacts from scratch (early trials)

7

QA artifact types in the chain

2-way

downstream & upstream generation

Built on proven foundations

The GENI Transformation Factory builds on Appvance's **patented Digital Twin technology** and its proven **AI Script Generation (AISG)** and **GENI** engines — the same technology that converts English test cases into executable scripts.

The “Empty Canvas” feeling

One of the most complicated parts of QA testing is defining the **starting point** — much like an artist deciding on the first brushstroke of a new painting. GTF eliminates that challenge: **the user only needs to create a document explaining the testing conditions.**

Source: [appvance.ai — GENI Transformation Factory](#) · Appvance training unit 116 — “GENI Transformation Factory: An Introduction” (© 2026)

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