

GENI Transformation Factory

How GENI automates the entire QA artifact chain — generating and regenerating every artifact from requirements to test scripts, with MCP support for any LLM.

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

The QA Artifact Chain: Downstream & Upstream

The GENI Transformation Factory works in **both directions** along the QA artifact chain, keeping every artifact consistent no matter where the process begins.

↓ Downstream — Requirements to Execution

Input business requirements to generate **epics, stories, scenarios, cases, and scripts**. This is the classic flow: requirements flow down into executable tests.

↑ Upstream — Execution to Requirements

Input test cases or scripts to regenerate upstream artifacts — such as **summaries, user stories, or business requirements**. Perfect when documentation has fallen behind.

Key capabilities

Capability	What it does
End-to-End Coverage	Seamless, bi-directional generation across the entire requirements hierarchy — every document, from high-level strategy to detailed test planning assets, stays connected, consistent, and up to date. Produces Excel outputs with suggested scripts, recommended steps, and relevant test data for review and refinement.
Bi-Directional Transformation	Start with any artifact — business requirement, user story, test case, or script description — and instantly generate the corresponding outputs up or down the chain.
Consistency	Eliminate costly rewrites by keeping every artifact synchronized across the lifecycle.

Requirements-to-Execution	Ingest requirements (business, PRDs, marketing, epics) to automatically generate user stories, scenarios, suggested testing steps, test guides, and suggested test data — delivered in an Excel file with detailed information for review and refinement.
Execution-to-Requirements	Use test cases or scripts to regenerate upstream artifacts such as summaries, user stories, or business requirements.

Example use cases

- **Documentation drift:** requirements docs are out of date? Transform existing test cases back into user stories and business requirements.
 - **Fast delivery:** business requirements flow downstream into scripts with no manual authoring in between.
 - **Audit-ready QA:** scripts regenerate higher-level summaries — the QA chain always tells a consistent story.
- Seamless consistency:** every QA artifact stays synchronized across the chain, eliminating costly rewrites and misalignments between requirements and tests.

What this means for teams

- **QA and development teams** — eliminate manual creation and upkeep of artifacts; focus on strategy and innovation.
- **Enterprises** — release faster with higher quality, with all QA artifacts aligned.
- **Service providers** — deliver client-ready QA automation that adapts to any artifact state, with dramatically reduced labor costs.

Source: [Appvance Unveils GENI Transformation Factory with MCP Support \(Sep 30, 2025\)](#) · Appvance training unit 116 — “GENI Transformation Factory: An Introduction” (© 2026)

MCP Support & LLM Flexibility

The GENI Transformation Factory is built with **Model Context Protocol (MCP) support** — allowing enterprises to power their QA transformations with **any compliant LLM**: open-source, commercial, or homegrown.

What is MCP? The Model Context Protocol is described as a “universal translator” for AI. It standardizes how applications connect to AI models — so models can be swapped in and out without disruption.

Freedom of LLM choice

Enterprises have historically been locked into a single LLM vendor when adopting AI-first testing. With MCP support, Appvance clients can:

- **Swap models in and out** with no disruption to their QA pipeline.
- Choose models based on **security, governance, or strategic priorities**.
- Deploy with any compliant LLM — **on-premises, in a private cloud, or through commercial providers**.

Deployment options

Option	Details
> On-premises	>Keep everything inside your own infrastructure — maximum control and compliance.
> Private cloud	>Run the Transformation Factory in your cloud tenant with your chosen LLM.
> Commercial providers	>Connect any MCP-compliant commercial LLM.

Why MCP matters

- **Future-proofs QA infrastructure** — you are never locked to one AI vendor.
- **CIO/CTO control** — decide which models to deploy based on security, governance, or strategy.
- **Enterprise compliance** — align AI usage with organizational policies.

Source: [Appvance Unveils GENI Transformation Factory with MCP Support \(Sep 30, 2025\)](#)

GENI Transformation Factory: Launch & Availability

Appvance unveiled the **GENI Transformation Factory** on **September 30, 2025**, as a groundbreaking expansion of its AI platform that generates, transforms, and regenerates **every QA artifact across the software development lifecycle**.

Why it matters: QA has long relied on a chain of artifacts created and maintained separately — often inconsistently. The Transformation Factory turns that chain into a living, bi-directional system of record.

What was announced

- **True AI automates the entire QA chain** — generating and regenerating every artifact from requirements to test scripts.
- **MCP support** — enterprises can use any compliant LLM: open-source, commercial, or homegrown.
- Built on Appvance’s **patented Digital Twin** technology and its proven **AI Script Generation (AISG)** and **GENI** engines.

Availability & rollout

Item	Details
Announcement date	September 30, 2025
Availability	Available after Release 5.3.1 of Appvance IQ (per official Appvance training, © 2026)
Early access	Early-access program open for enterprises
Deployment	On-premises and cloud

Item	Details
LLM support	Any MCP-compliant LLM — on-prem, private cloud, or commercial providers

Version note: the official Appvance training unit “GENI Transformation Factory: An Introduction” (© 2026) states GTF is **available after Release 5.3.1** of Appvance IQ.

Early trials: the GENI Transformation Factory reduced human labor by **85-93%** compared to creating or updating QA artifacts from scratch.

GENI base offering (from the March 2025 launch)

- **Per-application licensing** — pricing starts with coverage for as few as **10 applications**.
- Deployable **on-premises or in the cloud**.
- Available to existing Appvance clients through 2025 — with **100,000+ applications** preparing to use GENI at launch.
- New customers join the **waitlist** at appvance.ai/geni.

Sources: Appvance Unveils GENI Transformation Factory with MCP Support (Sep 30, 2025) · Appvance announces GENI (Mar 18, 2025) · Appvance training unit 116 — “GENI Transformation Factory: An Introduction” (© 2026)

Using the GENI Transformation Factory

This page walks through the GENI Transformation Factory (GTF) workflow, based on the official Appvance training unit “GENI Transformation Factory: An Introduction” (© 2026). GTF is **available after Release 5.3.1** of Appvance IQ.

What you need: a document explaining the testing conditions — for example a **BRD (Business Requirements Document)** containing business objectives, a well-defined scope, functional and non-functional requirements, assumptions, and other required parameters.

Step 1 — Start with the source document

Create (or reuse) a **Business Requirements Document (BRD)**. It should contain:

- Business objectives
- A well-defined scope
- Functional and non-functional requirements
- Assumptions and other required parameters

Step 2 — Navigate to the GENI Transformation Factory

In Appvance IQ, go to **Autonomous Testing → GENI Transformation Factory**.

Step 3 — Feed the BRD and start the process

Upload the BRD document and start the process. GTF takes it from there.

Step 4 — Generation settings

- In “**Document Types**”, select what will be generated.
- Name the output (optional, but helpful).
- Select “**Next**”.

Step 5 — Watch the process

The process keeps you updated on **every step** while the artifacts are generated.

Step 6 — Download the result

When the process finishes, you can download a **.ZIP file** that contains the objects you decided to create.

The generated files

Output	Format
Epics	Markdown (.MD)
Business Requirements	Markdown (.MD)
Product Requirements	Markdown (.MD)
User Stories	Markdown (.MD)
Test Data & Test Case suggestions (recommended test inputs, execution steps, supporting validation data)	CSV and Excel

Note: the contents of this unit will be expanded in upcoming Appvance training units.