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- **Documentation drift:** requirements docs are out of date?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.

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