

Product Integration Process – Simple Explanation for Reviewer

Purpose:

The main goal of the Product Integration Process is to bring together different parts of a product and make sure everything works as planned – both in terms of functionality and quality.

What We Start With (Inputs):

To begin the integration, we use these key documents:

- **Requirements Document:** Lists what the product should do.
 - **Design Document:** Shows how the system is built and how parts connect.
 - **Release Plan:** Sets the timeline and delivery schedule.
 - **Traceability Matrix:** Ensures every requirement is linked to the design and tests, so nothing is missed.
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What We Do (Activities):

1. Create an Integration Plan and Strategy:

We prepare a document that explains:

- The order in which parts will be integrated.
- The systems and interfaces involved.
- The testing approach and environment setup.

2. Run Integration Testing in Phases:

We test in several steps:

- **Module Testing:** Check if each part works on its own.
 - **Module-to-Module Testing:** Ensure different parts work together correctly.
 - **External Interface Testing:** Test connections with third-party systems.
 - **End-to-End Testing:** Confirm the entire business process works from start to finish.
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Tools We Use:

- **MS Office:** For writing documents and reports.
 - **CI Tools (like Jenkins or GitLab CI):** To automate testing and catch issues early.
 - **Integration Environment:** A special setup that mimics the real-world system for testing.
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What We Deliver (Outputs):

- **Integration Plan and Strategy:** Finalized and ready to follow.
- **Integration Environment:** Set up and tested.
- **Review Sign-Off:** Approval from stakeholders to confirm everything is on track.