

Business process automation for optimized WMS implementations

Leveraging supply chain solutions with
HCLTech and ADvantage



Introduction

A supply chain process solution specifically focusing on warehousing operations have pre-defined standard operational procedure depending on site specific requirements. These standard operational procedures are broadly categorized into inbound, outbound, inventory management along with extended MHE /WCS systems integration.



Vendor based WMS solutions, which are executed either as on-premise solutions or on the cloud solutions, follow a specific implementation lifecycle model. Along with all the configuration activities like system testing and system integration testing for the WMS categorised processes, the inbound, outbound, inventory management and MHE become key exit points for a successful WMS solution live.

HCL Technologies has been one of the leading SI partners for WMS solutions over the years. Through the standardised WMS process across multi-site specific implementations, we have eliminated the recurring manual effort required by a WMS tester for validation and verification activities.

Native process of WMS functional testing

Test design

Repeatable manual effort to redesign WMS test cases for standard WMS processes.



Test execution

Manual effort and time consumption in test case execution



Test log repository

Tracking and re-updating the logs based on multiple execution runs increase in manual effort and intervention.







Customer focused business challenges – requirement of a reusable test framework

The requirement was to have a solution which could be an automated standard approach for software test lifecycle. It needed to be able to cover the pre-defined, ready to deploy and execute test scripts focussing on the standard WMS process – inbound, outbound, inventory management and MHE integrations.

These pre-designed and ready to execute automated test scripts will be agnostic to any WMS site specific implementation with an easily extensible framework to add more test scripts identified as a ready-to-use key WMS scenarios for other implementations.



 Requirement	 Challenges	 HCL Technologies proposition	 Gain for business
<p>Multiple applications getting implemented/integrated/upgraded</p> <p>Testing is a fundamental requirement for any business transformation programme at various stages of different phases</p>	<p>Creating a repository of the manual test cases</p> <p>Creating automation scripts to execute them multiple times</p> <p>Executing a large number test cases in defined period</p> <p>Creating the automation scripts for every manual test case individually</p> <p>Manually managing the execution</p>	<p>HCL Technologies own proprietary automation tool</p> <p>Defining and coding the common business functions one time for all the test cases and re-using them</p>	<p>HCL Technologies own proprietary automation tool</p> <p>Defining and coding the common business functions one time for all the test cases and re-using them</p>

What HCLTech brings

- # **HCL Technologies** already has a repository of standard test cases on by WMS
- # This repository has both manual and automated test cases ready
- # Has highly skilled and experienced resources on automation and by WMS

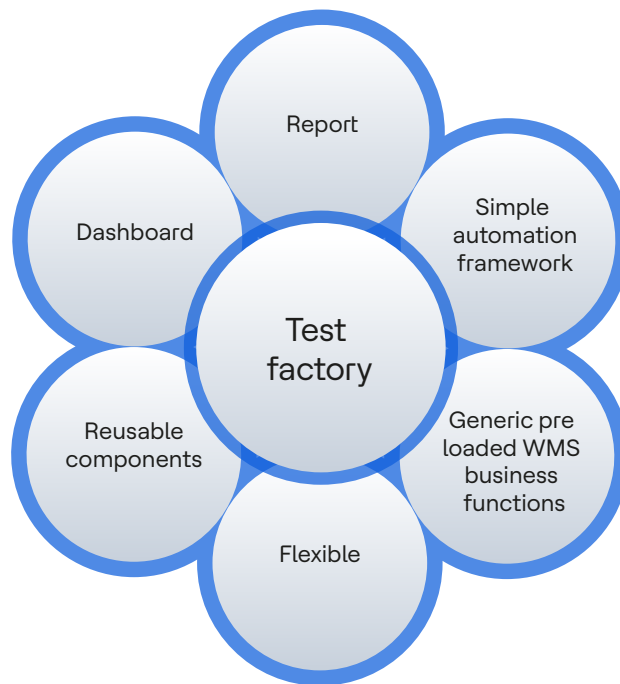
Solution highlights

- Pre-designed and ready to rollout reusable automated test cases.
- Simple ready to learn user friendly tech stack framework using UFT automation tool.
- Testers do not need any prior functional knowledge of WMS as the testing life cycle is automated to execute and log test cases without any manual intervention.
- Enables parallel test runs for multiple parallel WMS implementations
- Robust and flexible solution to add more testing scenario.



Challenges


- Lack of testing time
- Lack of test report support
- Impact on test coverage
- Time taken to create framework
- Lack of skilled resources
- Cost of running frequent env. changes




Benefits

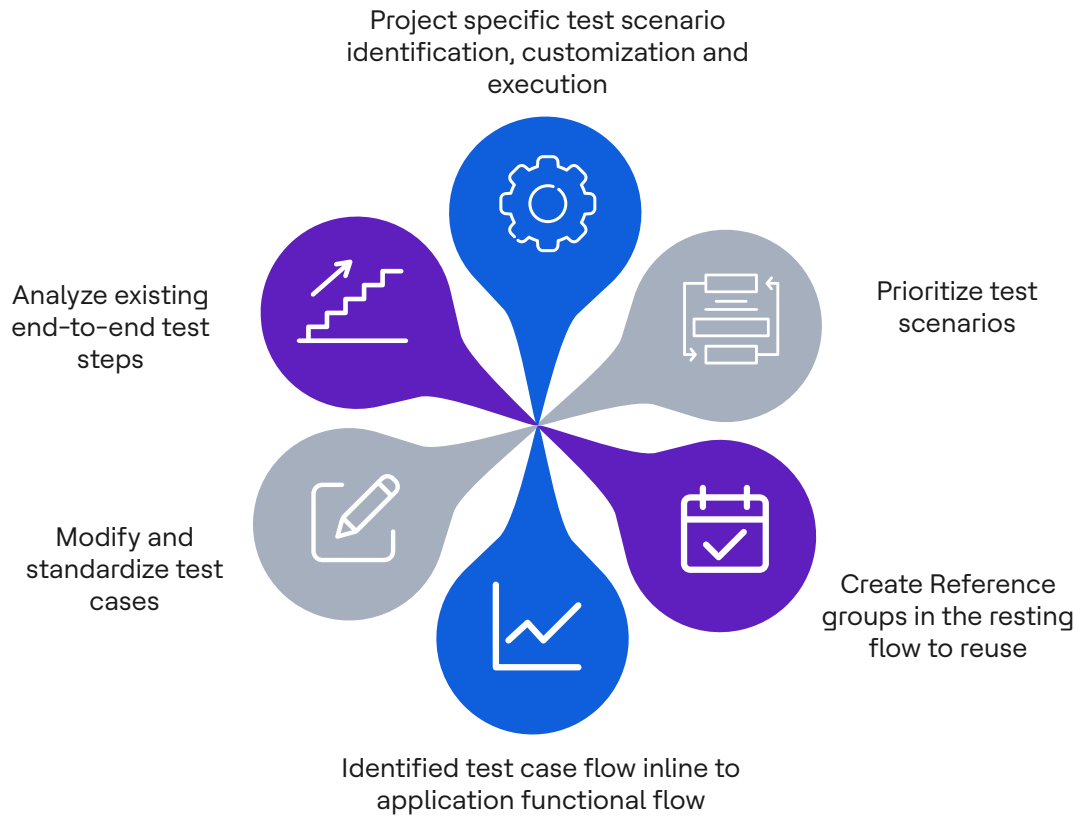
 Reduction in testing time

 Faster time to market

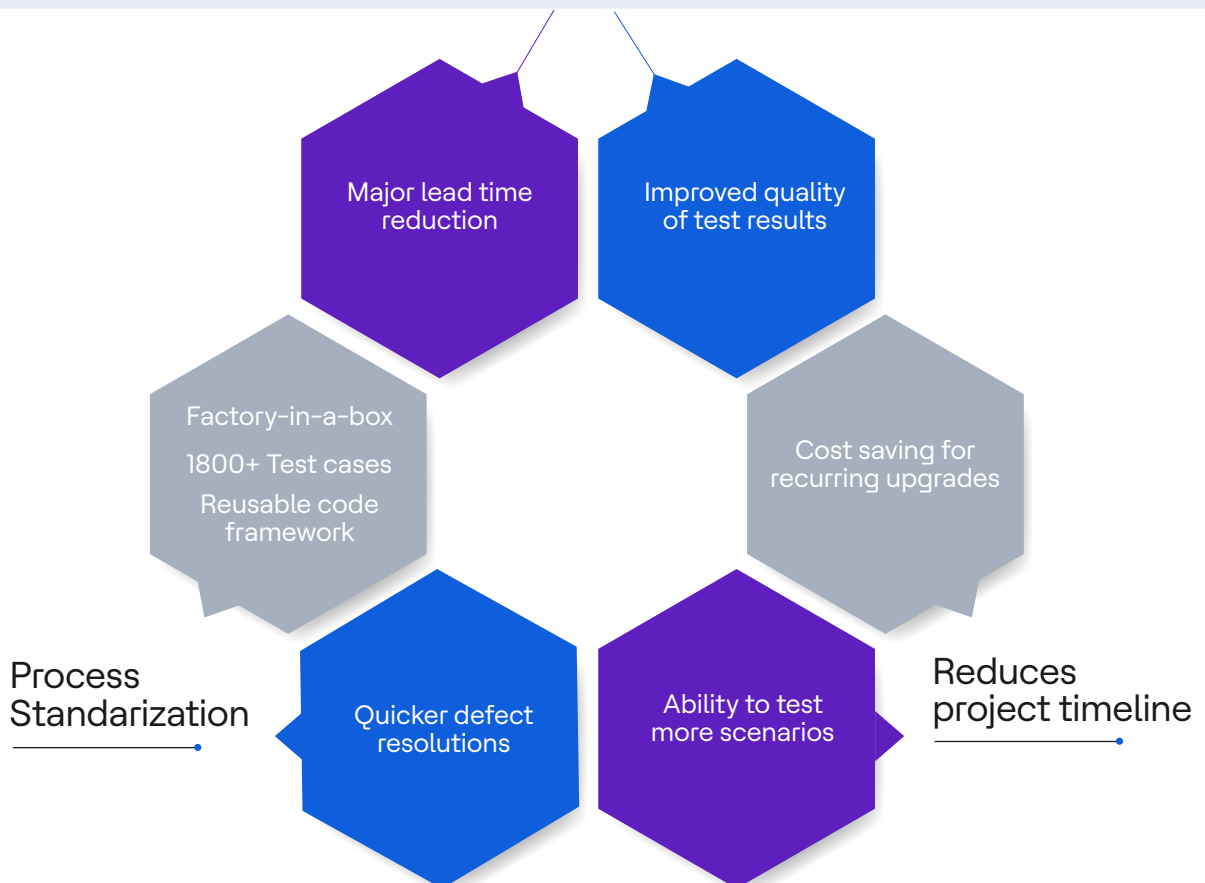
 Effective utilization of available resources leads to reduced operational cost

 Effective test coverage with minimal test scripts

Business test automation



Early realization



HCLTech | Supercharging Progress™

HCLTech is a global technology company, home to 219,000+ people across 54 countries, delivering industry-leading capabilities centered around digital, engineering and cloud, powered by a broad portfolio of technology services and products. We work with clients across all major verticals, providing industry solutions for Financial Services, Manufacturing, Life Sciences and Healthcare, Technology and Services, Telecom and Media, Retail and CPG, and Public Services. Consolidated revenues as of 12 months ending September 2022 totaled \$12.1 billion. To learn how we can supercharge progress for you, visit hcltech.com.

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