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ADvantage Business process automation

Introduction

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

Vendor based WMS solutions implemented either as on-premises solution or on the cloud solutions follow a specific implementation lifecycle model where along with all the configuration activities – system testing and system integration testing for all the WMS categorized process – inbound, outbound, inventory management and mhe becomes one of the key critical exit points for a successful WMS solution implementation to go live.

HCL Technologies has been one of the prime si partners for WMS implementations over many years has understood the repeated and re-occurring manual effort for a WMS tester to repeat same cycle of verification and validation activities for identified standard wms process across multiple site-specific implementations.

Native process of WMS functional testing

Test design

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

Test log repository

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

Test execute

Manual time-consuming effort for test case execution

Customer focused business challenges – requirement of a reusable test framework

Requirement of a solution which could be an automated standard template based approach for software test lifecyle process covering the pre-defined, ready to deploy and execute test scripts focusing 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
Multiple applications getting implemented/integrated/upgraded

Testing is a fundamental requirement for any business transformation programme at various stages of different phases | Creating a repository of the manual test cases

Creating automation scripts to execute them multiple times

Executing a large number test cases in defined period

Creating the automation scripts for every manual test case individually

Manually managing the execution | HCL Technologies own proprietary automation tool

Defining and coding the common business functions one time for all the test cases and re-using them | HCL Technologies own proprietary automation tool

Defining and coding the common business functions one time for all the test cases and re-using them |
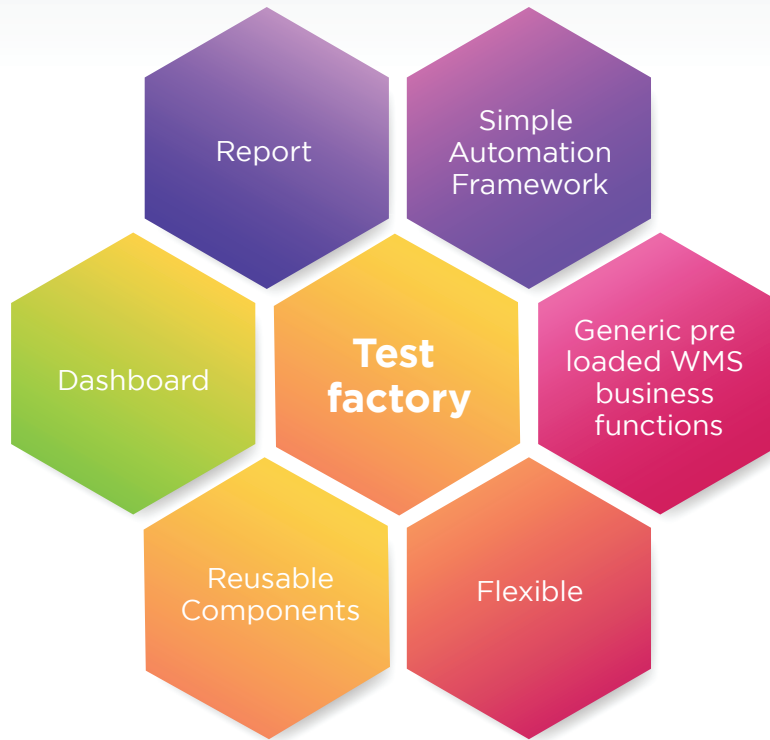
What HCL Technologies Brings	‣ HCL Technologies already has a repository of standard test cases on by WMS ‣ This repository has both manual and automated test cases ready ‣ Has highly skilled and experienced resources on automation and by WMS

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

Report

Simple Automation Framework

Dashboard

Test factory

Generic pre loaded WMS business functions

Reusable Components

Flexible

Benefits
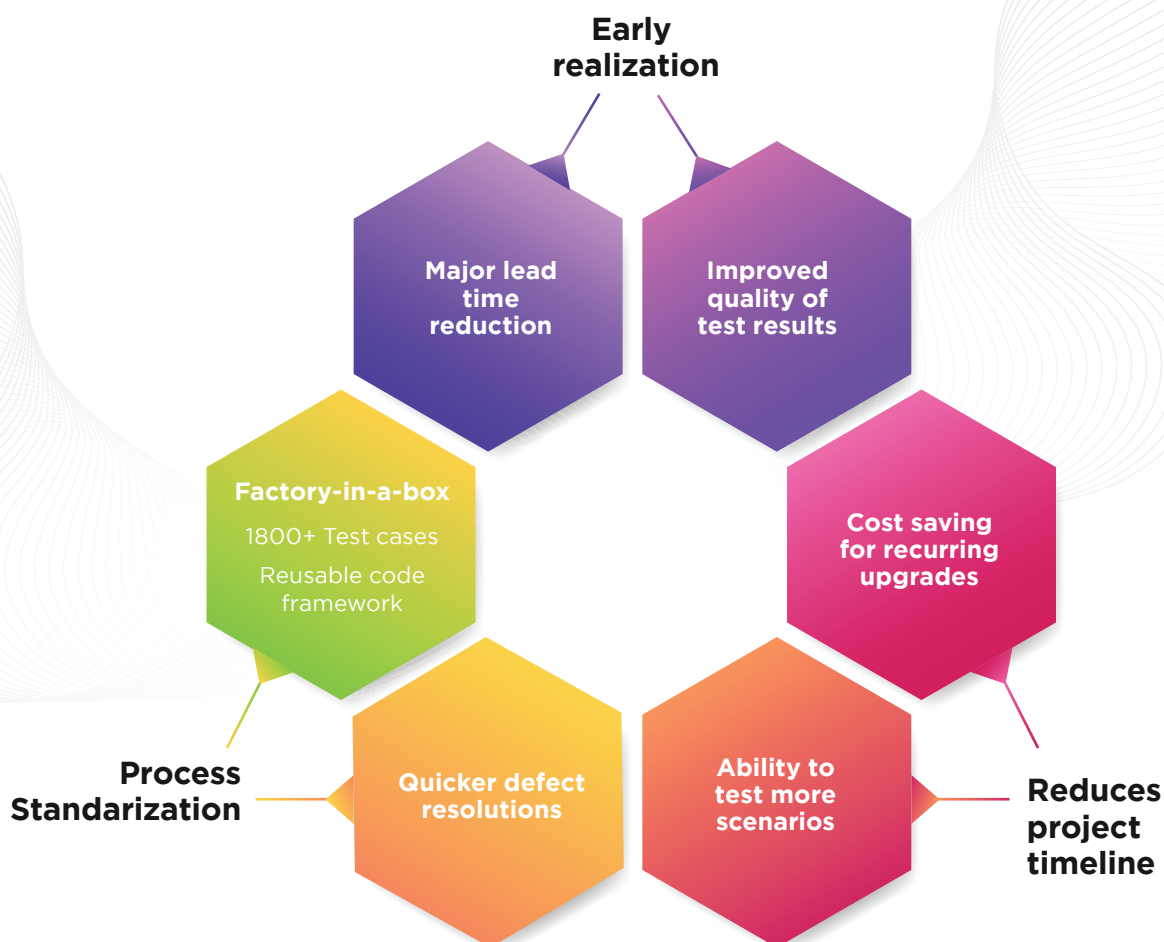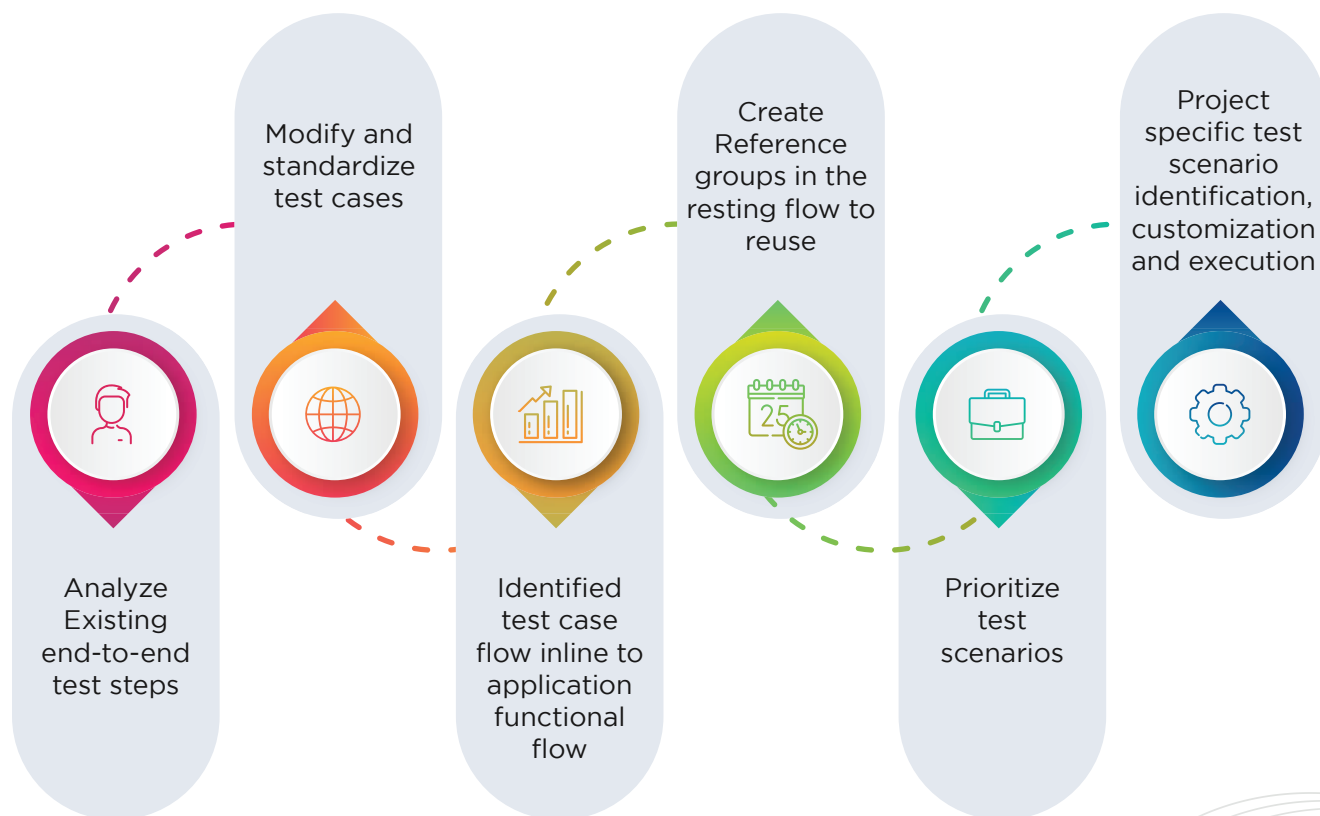
Reduction in testing time

Faster time to market

Effective utilization of availiable resources leads to reduced operational cost

Effective test coverage with minimal test scripts

Business test automation

Modify and standardize test cases

Create Reference groups in the resting flow to reuse

Project specific test scenario identification, customization and execution

Analyze Existing end-to-end test steps

Identified test case flow inline to application functional flow

Prioritize test scenarios

Early realization

Major lead time reduction

Improved quality of test results

Factory-in-a-box
1800+ Test cases
Reusable code framework

Cost saving for recurring upgrades

Process Standarization

Quicker defect resolutions

Ability to test more scenarios

Reduces project timeline

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