



Data Core DATA-CORE SYSTEMS

TESTING PRACTICE

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Varieties of Customers

Delivering Quality Engineering Services to Varieties of clients across globe including Global **Fortune 500** Customers



Multiple Tools Expertise

TestComplete, Selenium, Robotium, CODED UI, JMeter, Blazemeter, SoapUI, VSTS, AWS, LoadUIWeb, SOAPUI, Jenkins, Emulator(Genemotion) etc.



50+ Testing Professionals 40%+ Certified Resources

Multi skilled and domain expert testing professional with industry leading certifications – ISTQB



Innovative Pricing Model

Healthcare value based solution, Hospital Management System (Ex-US), Port Management System (Ex-US)



Testing Services

- ✓ Functional testing
- ✓ Automation services
- ✓ Enterprise application testing
- ✓ Non functional testing
- ✓ Usability testing
- ✓ Mobile application testing



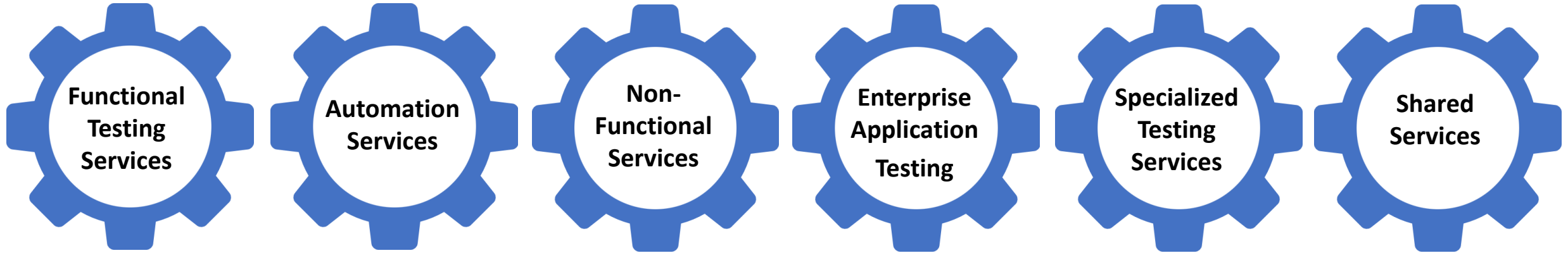
Domain Expertise

- ✓ Banking
- ✓ Education
- ✓ Retail
- ✓ HealthCare

Partnerships



TESTING SERVICES



Functional Testing Services

- Understand the Software Engineering Requirements.
- Identify test input (test data)
- Compute the expected outcomes with the selected test input values.
- Execute test cases.

Automation Services

Test Automation Consulting & Enterprise Strategy & Roadmap.

- Agile / DevOps / CI
- Automation Factory

Non-Functional Services

Testing for Nonfunctional requirements like

- Performance
- Security
- Compliance
- Compatibility Testing

Enterprise Application Testing

EA software is a critical component of any computer-based information system. It ultimately enhances efficiency and productivity through business level support functionality. Testing is a critical aspect and we understand the criticality and importance of testing Enterprise applications, which run as backbones to many profitable business organizations across many industries.

Specialized Testing Services

- ETL Testing
- AI Testing
- BI Testing/Data Visualization Testing

Shared Services

- Shared Licenses & resource
- On-demand execution

AUTOMATION TESTING SERVICES



Automated Unit Testing

These tests are run during the development phase itself, ideally by the dev after the completion of development and before handing over the system to the testers for testing.

Some of the most popular tools present in the market include NUnit and JUnit. Microsoft also provides its own framework for unit testing called MSTest.



Automated GUI Tests

This test the functionality and business logic of the application from the front end of the application. These tests target testing the functionality or simply test the UI elements of an application.

The GUI testing tools used include Selenium, Test Complete and Microsoft Coded UI



Automated Web Services / API Tests

Applications built on the API architecture can perform this testing. In API testing, the testers validate the business layer of the application by checking the request-response combinations for the various API's on which the application is built. API Tests can also be done as a part of the integration tests SOAP UI is the tool used for webservice and API testing

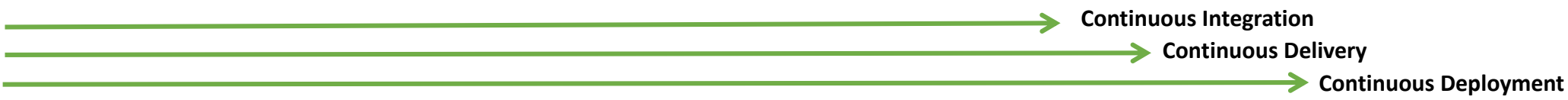
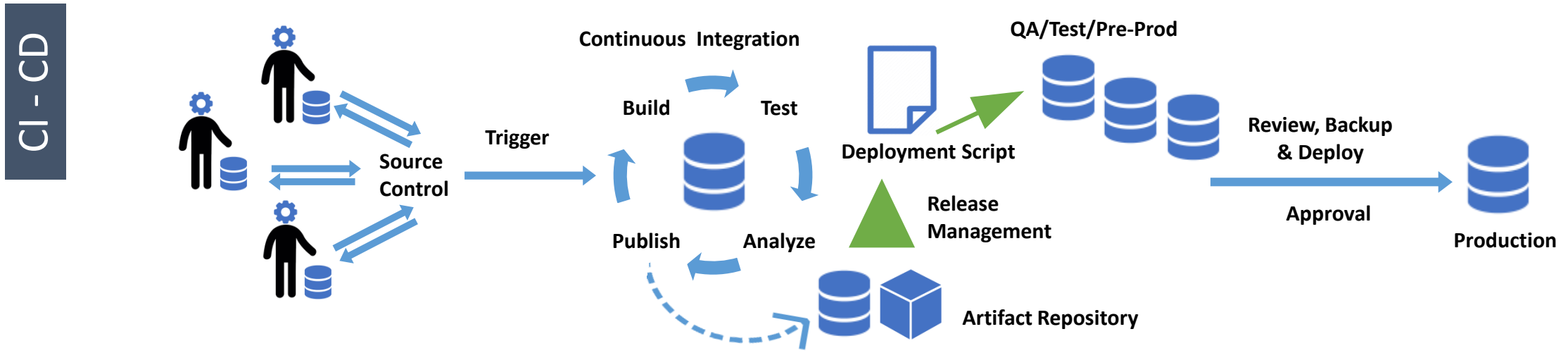
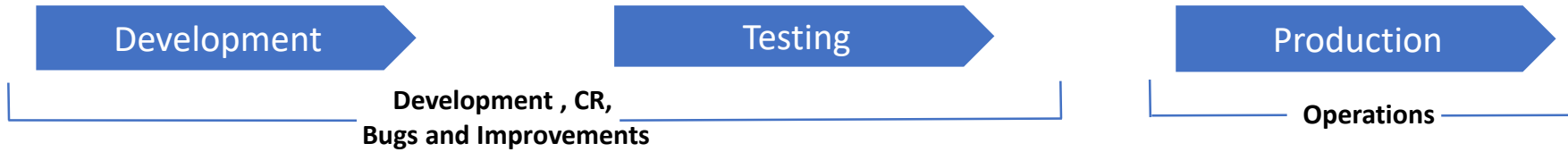


Auxiliary Services

Automation Design Reviews, Cloud Readiness Testing , AI / RPA based automation.

UI path is used for RPA and AI Testing is done using Python

Stages of Azure Devops CI/CD



AZURE DEVOPS CI/CD

Azure Devops/ Test Pipeline



Web Automation Testing



Non Functional Testing



Device/Browser Platforms



CI/CT Tools



ALM/Test Mgmt. Tools



AUTOMATION TEST SOLUTION FOR ONE OF OUR KEY CUSTOMERS



This Client is a North American distributor of European Rail products, representing over 50 Railways throughout Europe. This Client's history of doing business in North America dates back to the 1930s. In 1959, the Company introduced Eurail Pass to the North American market.

Challenge

- Multiple regression cycles
- Multiple browser testing
- Multiple number of test iterations
- Parallel execution in different browsers
- Version control of the test scripts

Solution

- Automated test cases using Selenium WebDriver, JAVA, TestNg. Implemented Page Objects framework, Hybrid framework and Page classes from scratch to represent web pages.
- Multiple browsers and versions tested – IE, Firefox, Chrome
- GitHub used as version control & repository of automation code of the project. Used Selenium Grid to execute Selenium automation suite on different platforms and browser combinations in parallel.
- Built continuous integration continuous development (CI/CD) process using Jenkins (execution & reporting)

Benefits

- Frequent regression testing
- Rapid feedback to developers
- Virtually unlimited iterations of test case execution
- Support for Agile and Extreme Development methodologies
- Disciplined documentation of test cases
- Customized defect reporting
- Finding defects missed by manual testing



Thank you.
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