

G Cloud 14 - Framework Service Definition

Infosys Service Offering – ERP On Cloud Testing

May 3, 2024

Proposal No.	
Version No.	1.0
Authorised by	Peter Gill

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Table of Contents

1.	Infosy	s ERP Cloud Test Offering	4
	1.1	Package Testing Service Offering - Salesforce	
	1.2	Oracle Test Service Offering	8
		MS Dynamics ERP Test Service Offering	
	1.4	SAP Test Service Offering	11
2.	Case	Studies	14
	2.1	Oracle	14
		Oracle	
	2.3	SAP references	15
		Salesforce	
	2.5	Oracle – Case study	
	2.6	MS Dynamics	17
3.	Tool S	Solutions	18
	3.1	Infosys Package Test Automation Platform - IPTAP	

1. Infosys ERP Cloud Test Offering

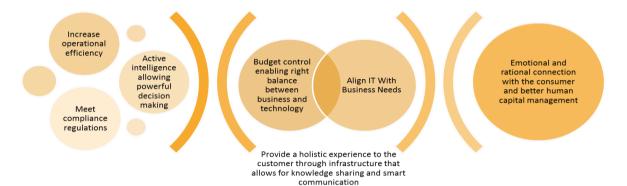
Infosys is a global leader in consulting, technology, and outsourcing and next-generation services.

We enable clients in more than 45+ countries and <u>72 major cities</u> to stay a step ahead of emerging business trends. Our people represent nearly 83 nationalities. This helps in delivering time-to-market solutions, reduce cost of operations and cost of quality. Global development centres across the globe expand the capabilities of Infosys' global delivery model in leveraging talent and infrastructure in different parts of the world.

Our experience gives our clients a distinct advantage. In addition to helping them manage their business, we can power their transforming into a smarter organisation as well. This allows them to focus on their core business priorities.

Infosys has a dedicated practice for Package Testing services which comprises of specialised testing professionals from which we have earmarked our key testing personnel for meeting the validation requirements. Our global skilled resource pool relevant to Oracle Cloud, Salesforce, Microsoft Dynamics, Oracle NetSuite, Kronos, Coupa, Workday, S4 Hana, Siebel on Cloud, PeopleSoft on Cloud, JD Edwards on Cloud experience.

Package implementation initiative is one of the most transformative investments an organisation makes with



below business imperatives met.



Key Focus areas and Best Practices which help us to deliver quality various ERP on Cloud testing services efficiently

QA / Testing Services Domain Knowledge – Infosys has strong QA / Testing Services expertise, domain knowledge and maturity as the result of multiple global and local engagements.

Best in Class – Infosys has best of breed tools, methodologies, assets and skilled resources to deliver and active projects and clients.

Automation First– Bring Infosys philosophy of Automation First thereby driving cost optimisation, reducing cycle time and enhancing quality

Global processes, methodologies and tools / assets – all the Infosys staff follows similar processes, wherever they are located

Strong Partner Ecosystem – To bring in best in class tools and solutions to address the needs of Xerox current and envisioned landscape

CMM/CMMI (Capability Maturity Model)/(Capability Maturity Integration) – rated level 5, we will bring recognised processes, tools and standards to your business units thereby bringing continuous improvement

Scale – We have QA specialised professionals across all geographies

1.1 Package Testing Service Offering - Salesforce

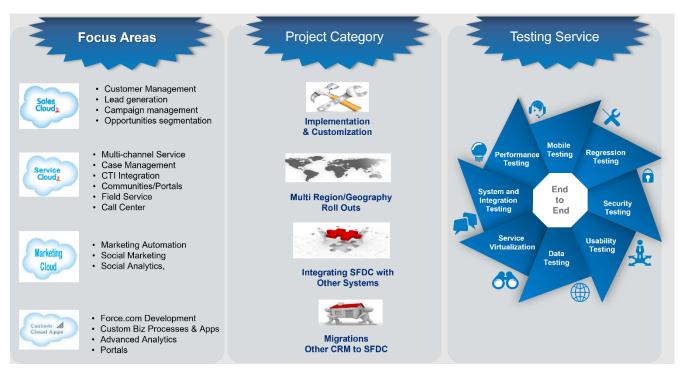
Salesforce Test Service Offering

An integrated set of End-to-End testing capabilities to address your need to improve business relationships with customer.

Infosys Salesforce Testing competency brings a globally integrated Salesforce Testing services focused on Design Thinking, E2E Integration services, Process Engineering & Total Cost of Quality Reduction. Our experiences gained from numerous successful testing engagements enables us to build a continuous improvement framework for our clients.

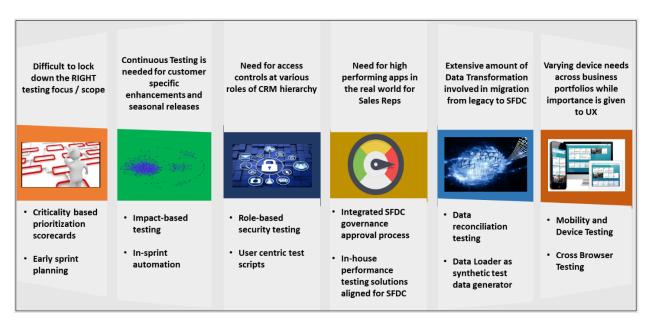
Infosys Salesforce practice started in the year 2006 with a practice size of 50 people and premier alliance with Salesforce. This practice is now 500+ consultants strong of which 150+ consultants are Salesforce certified focused on business value realisation. We are currently engaged with 100+ active client organisations to deliver value in partnership with Salesforce. Infosys Salesforce CoE has developed a number of proprietary assets and methodologies designed to help clients achieve business results faster. Infosys has a platinum partnership with Salesforce and has implementation experiences on Sales Cloud, Service Cloud, Marketing Cloud, Commerce Cloud, Apttus CPQ, Health Cloud and ServiceMax.

High Level Offering



Infosys test approach addresses the technical challenges with a comprehensive testing approach based on learnings from SFDC project experiences.

Infosys Salesforce testing solutions / differentiators to achieve high quality time to market



Key local of multi country rollout engagement types applicable for Salesforce testing are:

- **Migration from CRM/ Legacy to Salesforce**: Infrastructure, database schema enhancement, new UI, new workflows, business rules, and functional implementation
- **New Implementation Project**: New functional implementations (Lightning, Einstein Analytics), such as new and changed business processes, workflows
- Enhancement Release: Infrastructure, UI and functional enhancements.

1.2 Oracle Test Service Offering

Oracle Strategic Partner (Cloud Catalyst)

Infosys and Oracle have the unmatched capability to quickly transform organisations into resilient cloudconnected enterprises by leveraging our award-winning partnership, joint solutions, multi-cloud adoption, and deep domain knowledge across industries. Infosys and Oracle have been consistently recognised year after year as leaders by top analyst and advisory firms such as Gartner, IDC Research, Everest Group and Avasant. This is a true testament of the value we bring to our clients through business, infrastructure, and experiential transformation.

- Over 15+ Years of experience in On-Premises and cloud Application testing.
- 50+ Active clients in Oracle Cloud, EBS, Peoplesoft, JD Edwards & Oracle Retail.
- 500+ Experienced Functional consultants & Testers with Oracle ERP experience.
- 3000+ Manual scenarios and scripts for Finance, HCM, SCM covering all Modules and functions.
- 1000+ pre-automated scenarios for Oracle cloud, EBS, Peoplesoft, JD Edwards and Oracle Retail.
- Pre-built automatic framework and components for automation tools like Work soft, TOSCA, OATS, Selenium.
- User of Infosys IP tool IPAT for E2E automation.
- Domain expert and experienced test consultants AI-led QA.

Why this offering required?

- From quality point of view, testing an application is very important before delivering it to the customer. However, there are certain limitations that can make testing a daunting task. These limitations include:
- Limited Budget for Testing: Many test cases are designed and executed with different tools, incurring
 high costs per test. However, most of the companies have limited budget for internal testing. Also,
 maintenance overhead involved in using different testing tools adds up to the estimated budget. The
 responsibility to test an application is not confined to Test Engineers, developers may also perform
 testing if needed. For example, if any developer wants to test a single module (unit testing) to check if
 it is working fine. So, there is a wide set of audience when it comes to testing and purchasing license
 to cater this audience is not feasible considering limited test budget.
- Reduction in overall cycle time through proven methodology and efficient best practices, leveraging regression automation framework, Infosys Oracle Cloud re-usable test cases and ready to use automated scripts.
- Ensuring stated Business requirements are successfully implemented with minimal production risk using Risk Based Testing
- Comprehensive validation of reports/dashboards. Ensuring effective knowledge retention through effective documentation of test artifacts
- Regression testing through automated scripts will avoid any unforeseen impacts to production Cloud environments and day-to-day business operations
- Reducing timelines of a rollout project in turn results in shorter duration available for testing, Delays in upstream activities absorbing the testing timelines

Key focus areas for Oracle Cloud Testing to support complex programmes

- Configurations and Customisations performed on the cloud modules
- User Roles and profile (security and compliance)
- Business Process Flows, System Validation Rules
- Assignment Rules, Workflows and Approval process
- Inbound, outbound & batch validations

- Request & response validations
- End to End Testing across all systems including SaaS and PaaS components
- Validation of similar process in EBS but executed differently in Oracle cloud
- Validation of new processes in cloud and impact on other processes

1.3 MS Dynamics ERP Test Service Offering

Our robust MSD 365 Quality Engineering service offerings assure consistency in success of various MSD 365 implementations. QE capabilities cater to business processes and functional areas, data migration / BI and resilience of MSD 365 platforms across multi-channel integrations. The key differentiators comprise of pre-built MSD 365 test assets and scalable modernised E2E test automation solutions leading to tangible IT cost savings and business benefits.

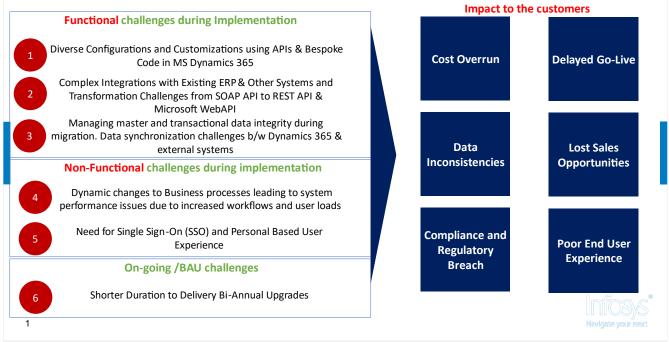
MSD E2E QE Capabilities

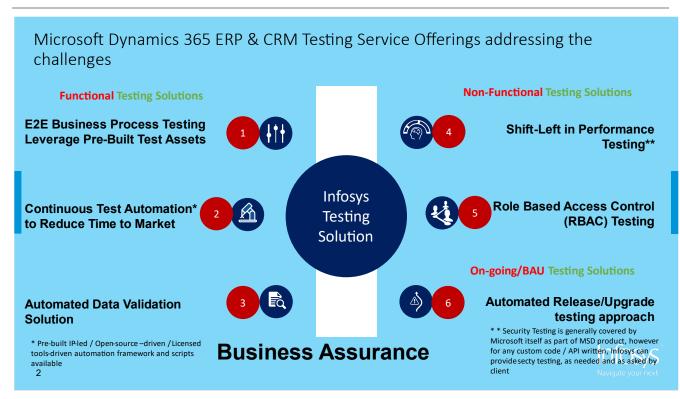
- Domain Assurance (700+ reusable assets)
- Automated API & Microsoft Azure DevOps integration
- IP-led MSD Test Automation Platform solution
- IP-led solution for Data migration / BI validations & NFR testing for resilience.

Value Proposition / Benefits

- Pre-Built Test Assets (25% effort savings)
- Continuous Test Automation (35% execution effort savings)
- Improve End User Experience (0% performance bottlenecks)
- Optimised Test Coverage & Continuous Testing (30% TCO reduction)

Typical Implementation Challenges





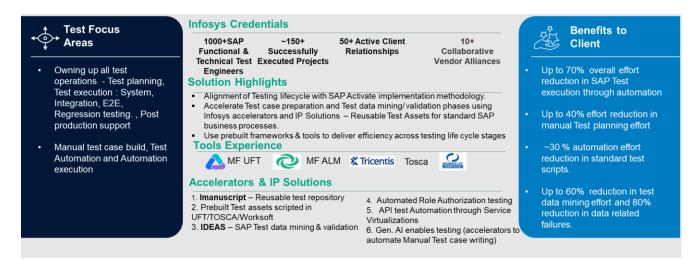
Solution



1.4 SAP Test Service Offering

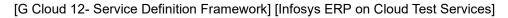
Infosys delivers comprehensive SAP testing solutions with a proven track record of success. Our team of 1000+ highly skilled functional and technical test engineers ensure the quality and reliability of your SAP implementations. Our key strengths:

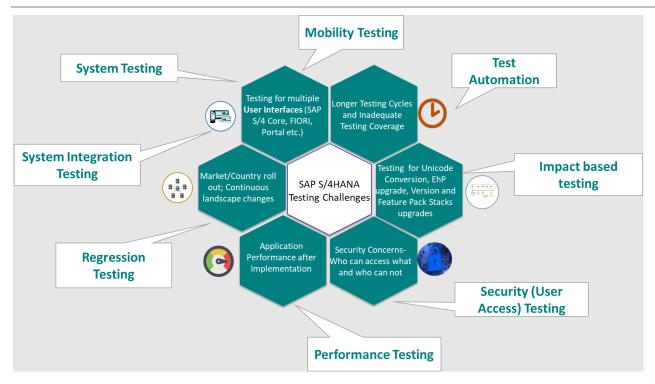
- **Deep SAP Expertise:** Our team possesses extensive knowledge of SAP modules, functionalities, and best practices.
- **Proven Testing Experience:** We have successfully executed over 150 projects, applying rigorous testing methodologies to identify and mitigate risks.
- Strong Client Relationships: We maintain active partnerships with more than 50 clients, fostering a collaborative and successful project environment.
- Vendor Alliances: We leverage strategic relationships with over 10 leading SAP vendors, providing access to cutting-edge testing tools and expertise.



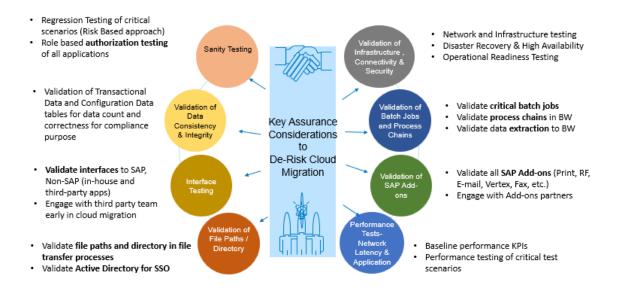
Key Challenges in SAP S/4 HANA migration Testing and our solutions to overcome them.

Infosys has successfully implemented many S/4 migration projects globally. Based on the learnings from multiple large SAP S/4 testing engagements for global customers, Infosys has come up with the list of testing challenges that occurs in such implementation projects. Below are the challenges that we foresee and identified major types of testing needed to overcome the challenges.





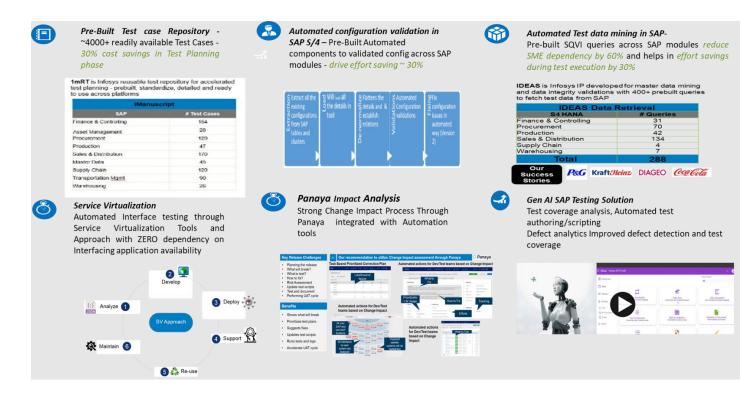
Our SAP cloud migration testing approach employs a multi-layered strategy to ensure a smooth and secure transition



Our S/4HANA QA strategy is supported by award winning solution tools & accelerator-based approach backed by re-existing reusable test artifacts.

iManuScript: Pre-Built test case repository - 4000+ readily available test cases IConfig - Automated Config validator – Validation of config, rules. IDEAS - Automated test data mining in SAP- Pre-built SQVI queries across SAP modules Service Virtualisation -for API Testing and Automation -used to replicate non-available /not connected systems.

Panaya Impact Analysis- to implement Risk Based Test strategy **Gen AI SAP Testing Solution –** Automated test authoring, defect analytics



2. Case Studies

2.1 Oracle

Case Study	Objective & Challenges	Approach Solution	Benefits
Client is one of the largest engineering and professional services firms in the world, providing management and consultancy services.	 Very diverse landscape of applications but equally critical for business. Project scope includes migrating the Legacy systems into Oracle Fusion Cloud across multiple operating companies. The client is looking for a Global Test Strategy and automation framework to streamline their testing needs. 	 The testing team has successfully established and executed Oracle cloud test strategy across various Oracle modules for clients. Automation using in- house-built IP tool iPTAP helped to make testing successful at client. Reusable automation framework registered more than 70% automation resulting in faster time to market for the client. 	 Team created and executed around 8000+ test cases. Automation of 1400+ business critical scenarios 2000+ The reusable function libraries can be leveraged to optimise automation development effort by 40-50% and reduce test cycle time by 60- 65%.

[G Cloud 12- Service Definition Framework] [Infosys ERP on Cloud Test Services]

consolidation, Lack of transparency, Complex systems and manual processes.Proper tracking and review mechanisms implemented.of defects Pre UAT leading to Zero to Minimal Defect
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SAP references

Case Study	Objective & Challenges	Approach Solution	Benefits
Client is a 136+ year-old Manufacturing Company in USA. It provides services in Beverage concentrates, Syrups and Finished Beverages.	 SAP S/4 HANA Finance, master data implementation for 150+ countries Optimal QA cost with complex landscape – 38 interfacing apps 	 E2E Business Process Integration Testing. Alignment of QA phases with DevOps & introduction of String testing phase Early automation of critical business components 	 Successful go-live with 100% schedule adherence. 65% automation resulted into cost saving by 25%. 80% effort saving in dashboard reporting.

Client is a 150+ year-old Banking Financial institute in Australia. It provides services in Banking, Wealth advisory, Insurance, Trading, Ioans and Cards.	 Testing for Migration of Peoplesoft to SAP SuccessFactors (All modules of SuccessFactors) 	 Functional Testing – SIT, Regression Testing Product Testing Automation using Tosca Performance Testing UAT Support MI Reporting Test Data Management 	 Reduction in Cycle time for Integrations by 40% 60% increase in test effectiveness. Automation of critical process areas leading cycle time reduction by 25%.
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Salesforce			
Case Study	Objective & Challenges	Approach Solution	Benefits
Client is a Oil and Gas Company from UK	 In-Adequate Automation Slow deployment cycles leading to higher cost Lack of mobile testing coverage No streamlined E2E execution process 	 Resusable Automation Framework for mobile and Desktop. 100% coverage of E2E testing with coverage of Salesforce, Chatbot, MyHR+ SharePoint, Workday & Genesys Telephony. Leveraged Infosys best practices for mobile / desktop testing. Business friendly framework for future maintenance levering BDD 	 Quality : 100% coverage with 97% deployment in-Sprint Speed: > 20% reduction in cycle time Achieve up to 70% in-Sprint automation Cost: > 15% cost reduction.

2.2 MS Dynamics

Case Study	Objective & Challenges	Approach Solution	Benefits
Client is a Telecommunications and digital services corporation headquartered in Auckland City, New Zealand.	 Migration from ERP SAP to MSD ERP 365 Complex SAP integration systems Multiple testing phases Automation due to complex integrations 	 The MSD ERP system was deployed and integrated with various legacy applications managing the enterprise business processes. 360 testing coverage of E2E workflow on different modules such as HR, IT Billing, Sourcing, Supply Chain management, Warehousing and Finance. Migration Testing from one system to other system. 	 MS ERP 365 with enhanced navigation of Workflow as per the business rules, Audit Functionality Reuse of pre-built ERP test cases and best practices, templates reducing overall test design effort Automated Regression Test suite, reducing overall Regression effort and easy to maintenance and re-run as required.

3. Tool Solutions

3.1 Infosys Package Test Automation Platform - IPTAP

Scalable solution designed to address modern day Package validation challenges onboarded to Azure Cloud

Infosys Package Test Automation Platform is an end-to-end hyper automation and self-healing automation solution that helps streamline and accelerate testing of various business transformations, digital transformations, migrations, upgrades and roll-outs. It is a UI-based tool to perform automation activities in script less approach and accelerate test cycles to perform ST, SIT, E2E, Reg, UAT and BAT. This platform uses pre-built re-usable components created for multiple package applications like Microsoft Dynamics, Salesforce cloud, Pega, various applications on Cloud, Oracle on Cloud and utilise custom built libraries to enhance test quality and speed. The solution helps to accelerate test planning and execution efforts reduced by 50% and ensures 100% test validation coverage.

With rapid and increasing speed of deployments as the organisations are moving to adopt more digital approach, Infosys Package Test Automation platform enable your organisation to strengthen their quality assurance processes to make sure that the tests performed are consistent, relevant and timely. It is a scalable, performance-oriented, and highly secure Package automation solution with below features

- 1. Hyper and End-to-End Automation
- 2. Easy to Maintain
- 3. Workflow Schedule Unattended and scheduled run
- 4. Performs API, UI, DB test automation
- 5. Interactive dashboards with detailed reports
- 6. Data Driven testing Approach
- 7. Multiple framework support Selenium with Java, Python, BDD, and Protractor
- 8. Import Export functionality to download or upload automation scripts
- 9. Multi Browser testing
- 10. Integration to achieve end to end QA Journey.

[G Cloud 12- Service Definition Framework] [Infosys ERP on Cloud Test Services]

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