

# How Quinnox's Holistic Solutions Can Help Overcome Application Testing Challenges and Drive Success

White paper



# Introduction

In today's rapidly changing world, enterprises are having two major challenges to address. Firstly, to improve business by keeping up pace with technological advancements and secondly to improve operational efficiencies across value chains. Moreover, adoption of business-IT calls for a huge QA effort, if not well-organized, eventually leads to delays in the adoption resulting in adversely impacting organizational growth.

Furthermore, most of today's business-IT operates on hybrid platforms which makes Enterprise-Application-Testing (EA-Testing)

a tough job for the business QA, placing product and services into a vulnerable juncture. As a result, it becomes imperative for organization QA's to redefine EA-Test strategies, adopt new age Testing tools and upskill QA practice.

In this whitepaper, we discuss the "Enterprise-application-testing" concerns in detail and how SAP-Solution Group Architects at Quinnox can help address them holistically.

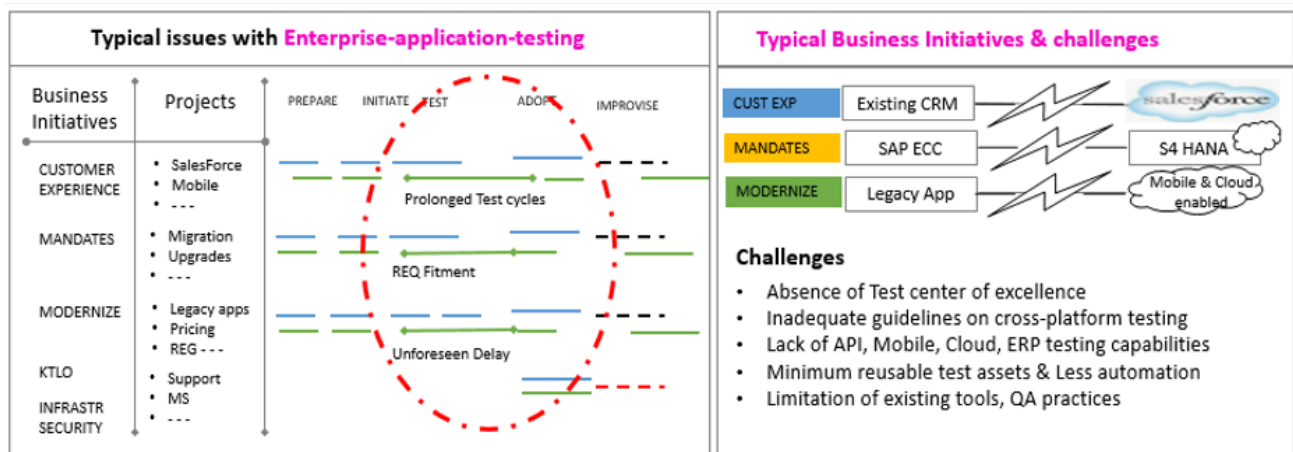








# What are the challenges of Enterprise Application Testing?

Enterprise application testing is a crucial stage in the software development lifecycle as it ensures that applications meet the quality standards and perform as intended. However, this process can be complicated and challenging due to several factors:

- Organization-QA lacks control over today's business-IT initiatives as "Adoption" of Enterprise-applications (EA) spans **across platforms** (like on-Prem, public-cloud, private-cloud, hosted-services etc.).
- **Adoption of new-age enterprise applications** take more time than planned. It is observed that **"Enterprise-Application-Testing"** (EA-Test) is prolonged across initiatives. Existing Tools and QA practices are inadequate to handle new-age Enterprise-Application requirements which are combination of "API", "Cloud", "Web", "Mobile", "ERP" based application testing.



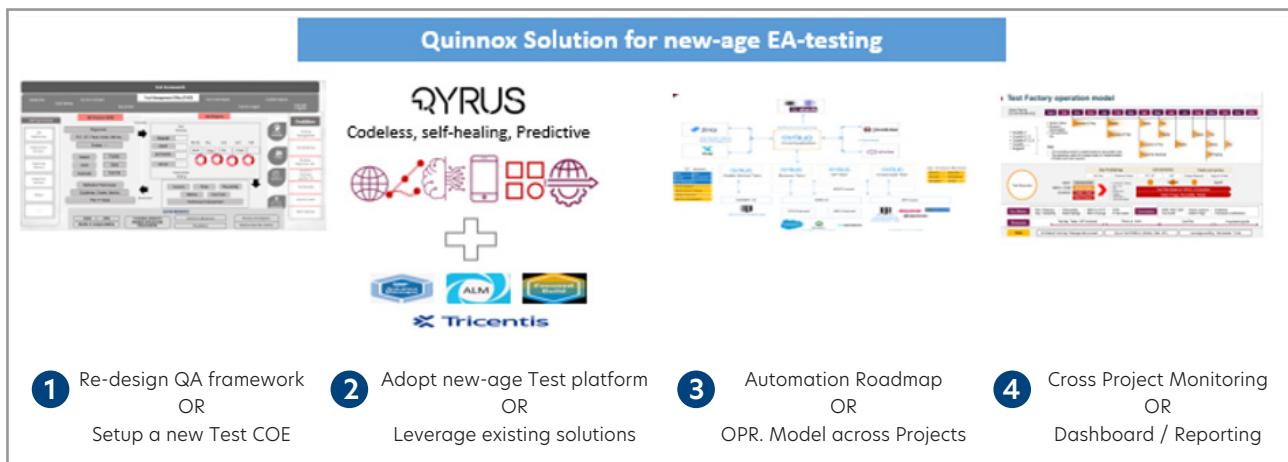
As a result, these challenges lead to the following adverse impacts:

- 
 Prolonged test cycles causing delay in adoption adversely impacting org-growth.
- 
 Dip in quality of product/services due to increase defects across project initiatives.
- 
 Increase in SMEs/Users time spent in testing, causing delay in regular operations.
- 
 Increase in project cost with compromised quality, timeline, product/service features.





# How Can Quinnox's SAP-Solution Group Architects Help?

Challenges mentioned above can be treated as opportunity to re-design Org-QA and establish thorough QA practices. Re-design of Org-QA will help in Adopt solutions and enhance QA practice to improve efficiency of "Enterprise-Application-Testing" as a whole.

SAP-Solution Group Architects at Quinnox, has designed a solution for the "EA-testing" as depicted in the diagram below.



**There are 4 quintessential factors to be considered for new-age EA testing which helps in addressing the challenges mentioned in the problem statement above. Those factors are**

-  A comprehensive framework or Test COE which imbibes new-age requirement and inherits existing QA practice from organization.
-  **Setup a New Test-Platform or leverage existing one:** It is important to assess and identify Tools and assets which can be repurposed for better use.
-  **Define a roadmap and operating model:** New perspective also requires buy-in from the stakeholders, hence operating model is important to unify and stage ORG-QA objectives.
-  **Deploy across project and centralize monitoring and control:** Monitoring and control paves future path and helps in improving overall QC&A.

# Business Outcomes Achieved



Reduction of delay due to EA-Testing



Gradual increase in reusable assets



**20-30%** reduction in testing efforts



**40-50%** reduction in the test-execution time



**20-50%** increase in automation assets



**40%** reduction of SMEs/Users in testing



KPI's help to measure and improve project outcome

Achieve 1 hours of Smoke-test

Achieve 2-3 hours of Integration testing

Reduction in overall bug/defect density

Reduction in defect leakage

\*\*Note: Benefits above is referred from existing EA-Testing projects \*\*

## Conclusion

With Quinnox's solutions, enterprises can overcome application testing challenges, streamline their testing processes, and ensure high-quality software that meets user expectations. Our EA-Test framework helps in various ways saving time and dollar for the business. Efficient EA-Testing also complements:

- Cross-project utilization of re-usable assets, lessons learnt
- Pre-project assessment to determine number of "CRs" or "to quantify test efforts"
- Helps in vendor negotiations, business has clear call out of reusable test-assets



## About Quinnox

Quinnox is your agile, business-results-driven digital technology partner. With the power of human and applied intelligence, we simplify business processes, improve customer experiences, and create exceptional business value for forward-thinking enterprises. With the combination of cognitive vsolutions, conversational platforms, SaaS solutions, human and applied intelligence, we capitalize on new technologies to accelerate growth, innovation, efficiency, and resilience. Our data-driven digital solutions unlock the hidden potential of your business across your digital value chain, helping to accelerate success, today and tomorrow.

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