

QMTIA

Quality Manager - TestStand Integration Adapter

ULMA Embedded Solutions's Quality Manager TestStand Integration Adapter provides an integration between IBM RQM, quality management tool, and National Instruments TestStand, test management software, that enhances test engineering teams efficiency by automating National Instruments TestStand sequence execution and reporting from IBM RQM.

Test case traceability

Test engineers can use the integration to link automated tests to test cases and to requirements. NI TestStand applications and parameter files on the test machine are linked to a IBM RQM test case that provides traceability to other project aspects including requirements, overall quality plan, project plan, change-defect management system, etc.

Test automation

The QMTIA provides automated test cases execution that improves testing efficiency. From the web-based interface of IBM RQM, test engineers can invoke the execution of the NI TestStand applications that are linked to the IBM RQM test case. The execution status reported by the NI TestStand sequence is displayed in the IBM RQM web interface as part of the test case execution results.

Test case results management

Upon completion of the NI TestStand sequence, various outputs from the sequence are automatically published to IBM RQM storage and an HTML report is linked to the IBM RQM test case execution result page.



Purchasing information available in www.ulmaembedded.com qmtia_sales@ulmaembedded.com

Pre-packaged services for IBM RQM- NI TestStand integration



Setup	Consultin	g T	raining	Push
• ULMA Setup	package helps you ac	celerate		
 Installation Configuration Small deployment Well suited for 				itact us for quotation
				itional information @ulmaembedded.com
Existing	ects with small budge clients starting new pr ew product or require	rojects,		
 ULMA Team 				
Junior co	nsultant		Silver Business Partner	MATIONAL Alliance Partner
 Delivery way 			Business Partner	
On-site Remote				
 Requires 				
Support	from IT team at custo	mer site		
 Duration 				
1 day				
ΙΕ	Requirements Documents (DOORS, docx, .xlsx,)	National Instruments	National Instruments Test Compon (.seq, .vi, .nivs,)	

Test Integration Adapter for IBM Rational Quality Manager

Test Plans

Test Cases Test Schedules

Documentation

Execution Records, Defect

Management, Test Plan

Execution Records

Requirement Links Quality Dashboards

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440 140 15Ps 534 6000 10s 110 150 10s

(.html, .pdf, .tdms, .jpg, ...)

6.40 9.36 1.03 85.8% 5.0%

Test Results

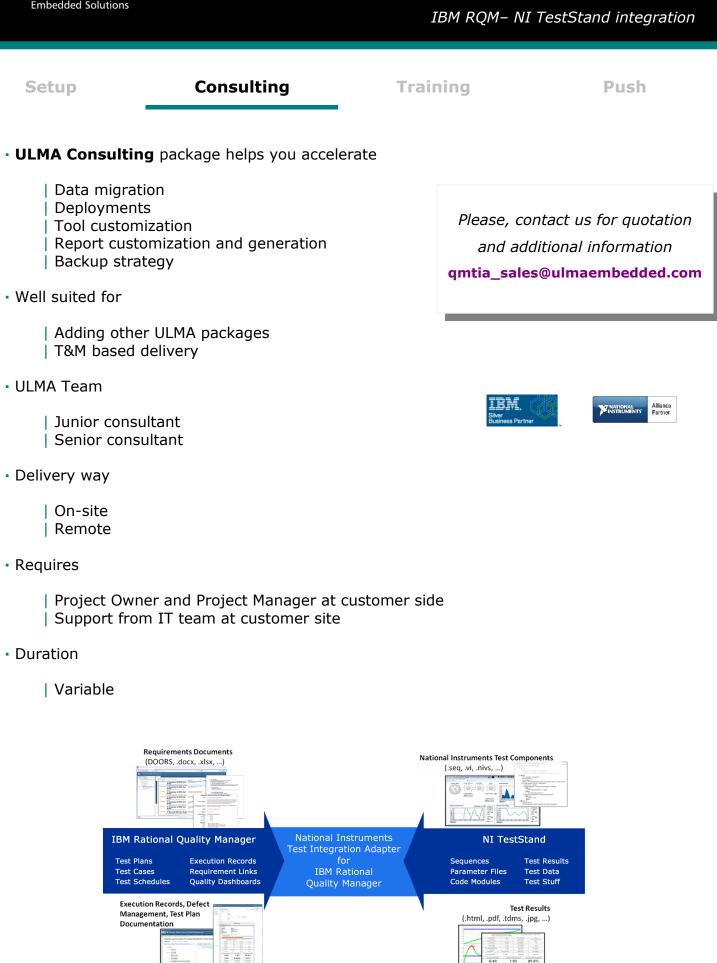
Test Data Test Stuff

Test Results

Sequences

Parameter Files Code Modules

Pre-packaged services for

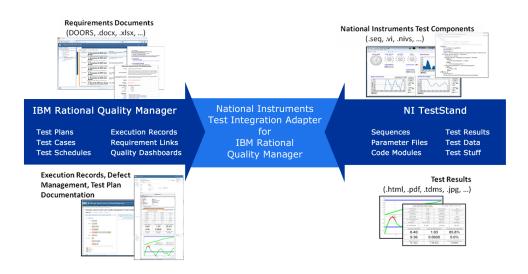


1.03 85.8%



Pre-packaged services for IBM RQM- NI TestStand integration

Setup	Consulting	Traiı	ning	Push	
· ULMA Training	package helps you accelera	ite			
Team enable	ement				
Well suited for			Please, contact us for quotation		
Team tool to Setting the		ons and additional information qmtia_sales@ulmaembedded			
 ULMA Team 					
Junior consu	ultant				
 Delivery way 			 &&		
On-site			Silver Business Partner	PINSTRUMENTS Alliance Partner	
Requires					
Support from	m IT team at customer site	1			
 Duration 					
1 day					



Pre-packaged services for IBM RQM- NI TestStand integration



Setup

Consulting

Training

Push

• ULMA Push package helps you accelerate

- | Setup | Consulting | Training
- Well suited for

Activity roadmappingFast forwarding your projectTight deadlines that require quick take off

ULMA Team

| Junior consultant | Senior consultant

Delivery way

| On-site | Remote

Requires

Project Owner and Project Manager at customer sideSupport from IT team at customer site

Duration

Approx 2-4 days

(DOORS, .c		Na	tional Instruments Test C (.seq, .vi, .nivs,)	
IBM Rational C Test Plans Test Cases Test Schedules	Quality Manager Execution Records Requirement Links Quality Dashboards	National Instruments Test Integration Adapter for IBM Rational Quality Manager	NI Tes Sequences Parameter Files Code Modules	tStand Test Results Test Data Test Stuff
Execution Records, Defect Management, Test Plan Documentation			find (.html, .pdf, .tdr	Non- Non- Non- Non-

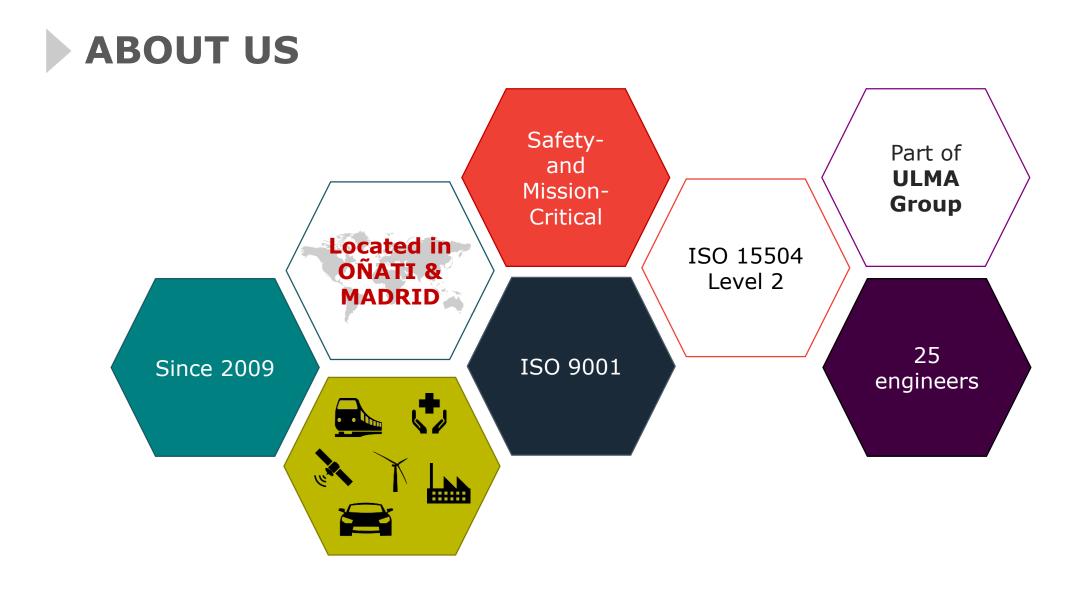
Please, contact us for quotation and additional information qmtia_sales@ulmaembedded.com



ULMA Embedded Solutions QMTIA

A unique collaborative experience





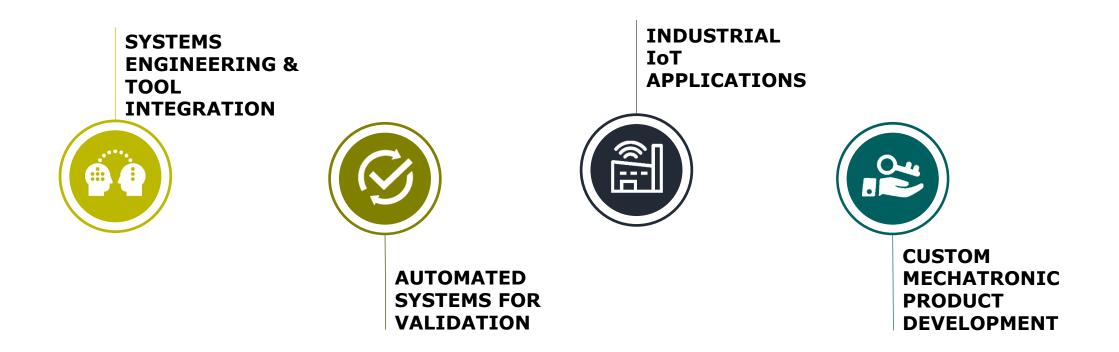














TOOL INTEGRATION PRODUCTS

DAIA

IBM Rational DOORS and Altium's Altium Designer Integration Adapter

- Requirements traceability to electronic design elements
- Traceability analysis
- Change notifications

QMTIA

IBM Rational Quality Manager and National Instruments TestStand Integration Adapter

- Test case traceability
- Test automation
- Test cases results management

OSLC Adapter for LV

IBM Rational DOORS & National Instrument LabVIEW OSLC Adapter

- Requirements set
- Application development
- App deployment
- Acceptance testing
- Requirements compliance



CERTIFICATIONS



Functional safety engineers for HW/SW design according IEC 61508



IBM Rational DOORS & DNG IBM Rational Rhapsody IBM Rational Quality Manager



NI Certified LabVIEW Architect & Champion NI Certified LabVIEW Developer NI Certified TestStand Developer



ISO 9001 ISO 15504 · L2 (SPICE)



Professionals for requirements engineering Foundation Level

vector

Vector CANoe



Innovative SME



CTFL Professionals



The Reuse Company Knowledge Manager (KM)



STANDARDS | Critical applications

Root	Railway	Household appliances
IEC 61508	EN 50155	IEC 60730
	EN 50128	
		EMC
Machinery	Medical devices	EN 60335
ISO 13849	IEC 60601	EN 61000
IEC 62061	ISO 14971	EN 55025
IEC 61800-5	IEC 62304	ISO 7637

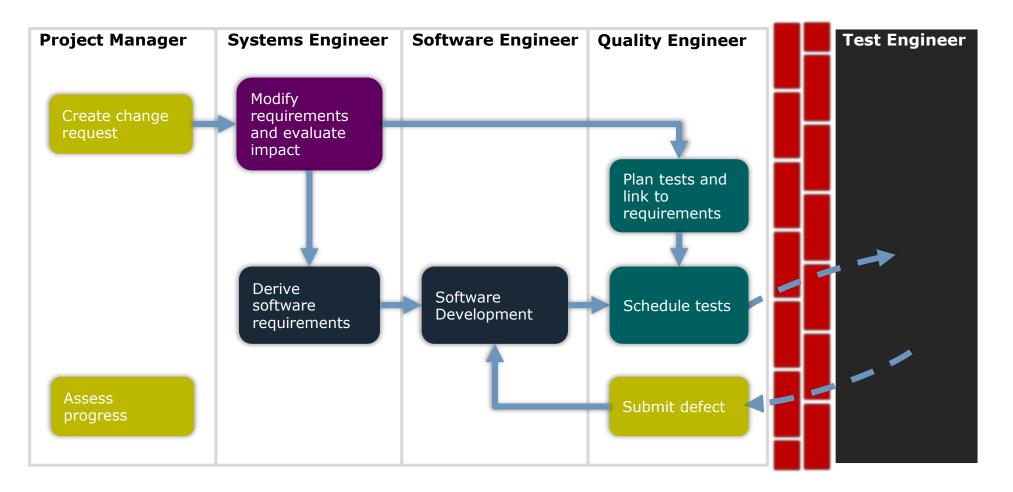


Integrating IBM RQM and National Instruments TestStand with QMTIA

by ULMA Embedded Solutions



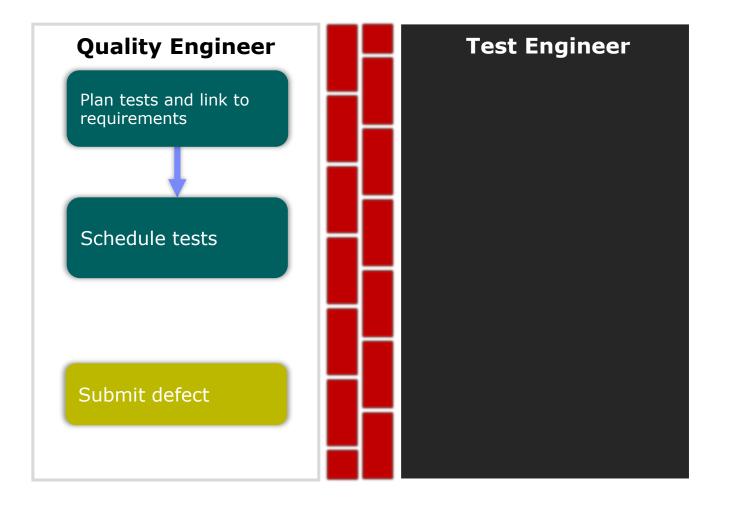
TRADITIONAL DEVELOPMENT PROCESS



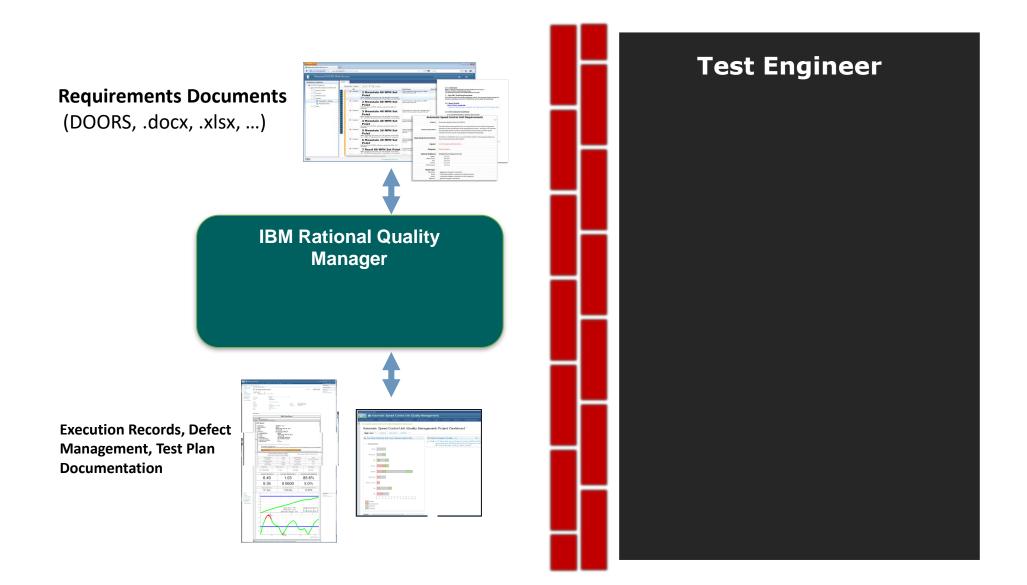




TRADITIONAL DEVELOPMENT PROCESS

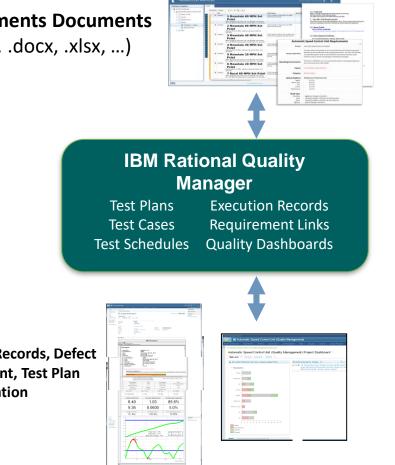


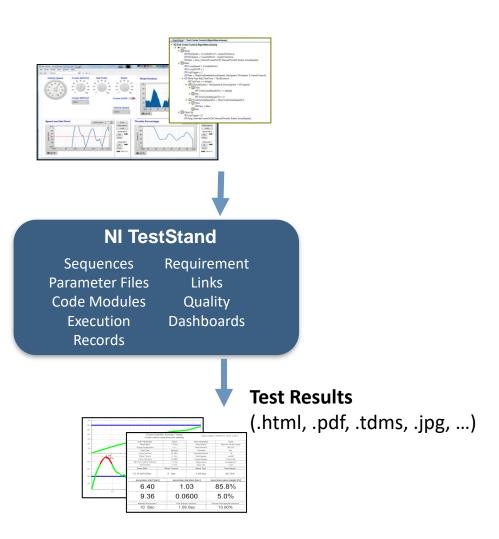






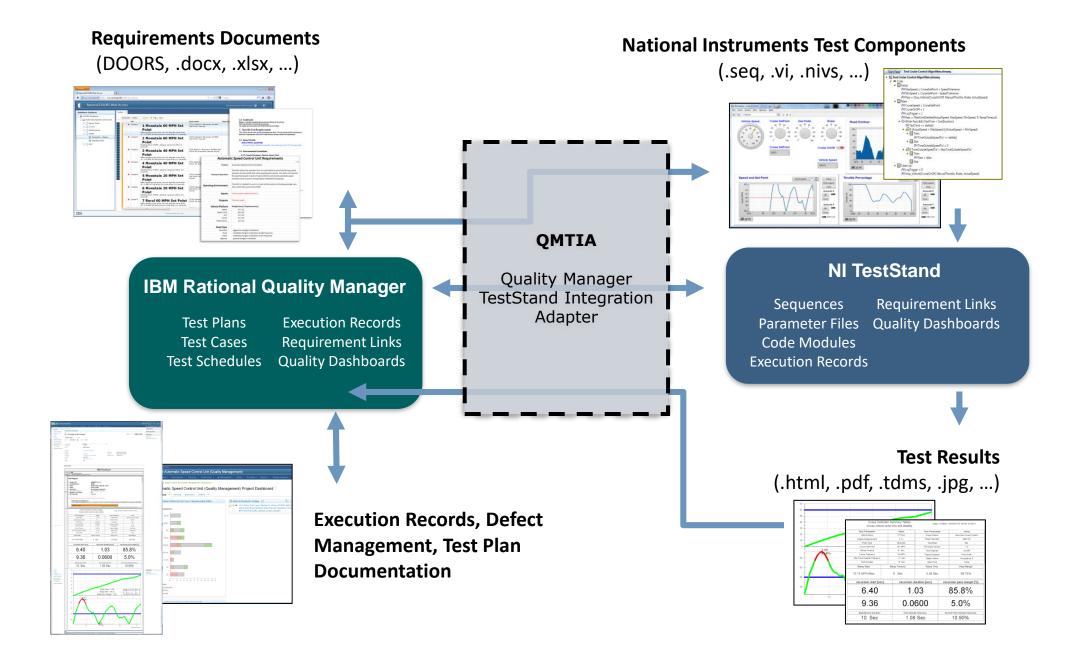
Requirements Documents (DOORS, .docx, .xlsx, ...)







Execution Records, Defect Management, Test Plan Documentation





QMTIA BENEFITS

1. Provides a **bidirectional** connection between IBM RQM and NI TestStand

2. Enhances **test efficiency** by automating test execution and reporting from RQM

3. Improves product quality by ensuring lifecycle traceability from requirements down to automated tests and test results

4. Reduces time to market thanks to streamlined collaboration between test engineers and other roles



OUR QMTIA PACKAGED SERVICES

Pkg 1: SET UP

Helps you accelerate:

- Installation
- Configuration
- Small deployment
- 1 day duration

On-site / Remote

Pkg 2: TRAINING

- Helps you accelerate:
- Team enablement
- 1 day duration
- On-site

Pkg 3: CONSULTING

Helps you accelerate:

- Data migration
- Deployments
- Tool customization
- Report customization and generation
- Backup strategy
- Variable duration
- On-site / Remote



Contact us at qmtia_sales@ulmaembedded.com for more information about these services and pricing









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www.ulmaembedded.com



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