TQS Integration HP ALM Validation Library



COMPANY INFORMATION

TQS has offices located in:

- Corporate Head Office, Lismore, Co Waterford, Ireland, P51 H01X
- 3013 Lake Drive, Citywest Campus, Dublin 24, Ireland, D24 PPT3
- 90 Long Acre, Covent Garden, London, England, WC2E 9RZ
- United States: -
 - Boston 800 Boylston Street, Suite 1600, Boston, MA 02199
 - Houston 4604 FM 1960 West, Suite 400, Houston, TX 77069
 - Berkley 3015 San Pablo Ave, Apt 315, Berkeley, CA 904702
 - Philadelphia w/OSIsoft 1700 Market St, Philadelphia, PA 19103
- Switzerland Innere Margarethenstrasse 5, 4051 Basel, Switzerland
- Singapore 8 Jurong Town Hall Road, Level #24-03, Singapore 609434, Singapore



^{*}These locations cater for 85+ of TQS employees. Through these sites TQS provide project implementation, integration, testing and on-going support to our client base.



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^{*}Our offices are strategically located which facilitates ease of access to our SME's by our clients.

TQS INTEGRATION OVERVIEW



175+

Years worth of projects delivered.



130

Unique clients.



10

Out of the top 10 Pharma Companies choose TQS.



10

Multi-lingual staff with 10+ languages supported.



100%

Data Intelligence
Dedicated
workforce.

WHO ARE WE?



Authorised Distributor of OSIsoft products

- Founded 1998, HQ in Lismore, Co. Waterford
- Authorised Distributor for OSIsoft Ireland, UK and Europe
- Global EA Partner with OSIsoft
- Only Select Global OSIsoft partner in Life Sciences
- Worlds largest dedicated PI Consultancy Team
- Current Offices Waterford, Dublin, IE; Boston, MA, Houston, TX, Philadelphia, PA, Berkley, CA, USA; Basel, CH; London, UK; Singapore.



Established Multi-National client base

- TQS has an extensive customer base of leading Life-Sciences and Power Companies
- Global Implementation Partner for many customers
- Turnkey solutions USA, EMEA, APAC





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WHAT WE DO – Advanced PI Consultancy



Supply, Integration & Support of PI Systems

- PI System expertise has been our core business focus and differentiator
- Off the shelf Products to enhance data analysis and compliance
 - OSIsoft Select Partner



Product Expertize

- Expert experience and familiarity of product suite
- Development with all technologies for non standard requirements or new interface development
- KEY Driver and partner on several OSI products including RtReports and AF.



PI Integration

- Standardized engagement, evaluation and planning.
- Expert deployment and standardized configuration for PI interfaces.
- Standardized solutions for Validation of PI server, interfaces and client applications.
- Off the Shelf solutions for HP-ALM and Validation templates.



System Operation

- Optimization of server and interfaces
- Pro-active maintenance and support
- Service Level Agreements (24/7/365)
 - Programme Management
 - SME Access



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WHAT WE DO



END-TO-END VALUE PROPOSITION



Connectivity

Collect, transmit, store data



Automation

Development & execution of logic rules that automate business activities and device configuration



Monitoring & Visualisation

Dashboards to monitor realtime data



Analytics

Complex analytics used to develop device models and insight



Enhancing On-board Logic

Distribution of analytics and orchestration to the device level



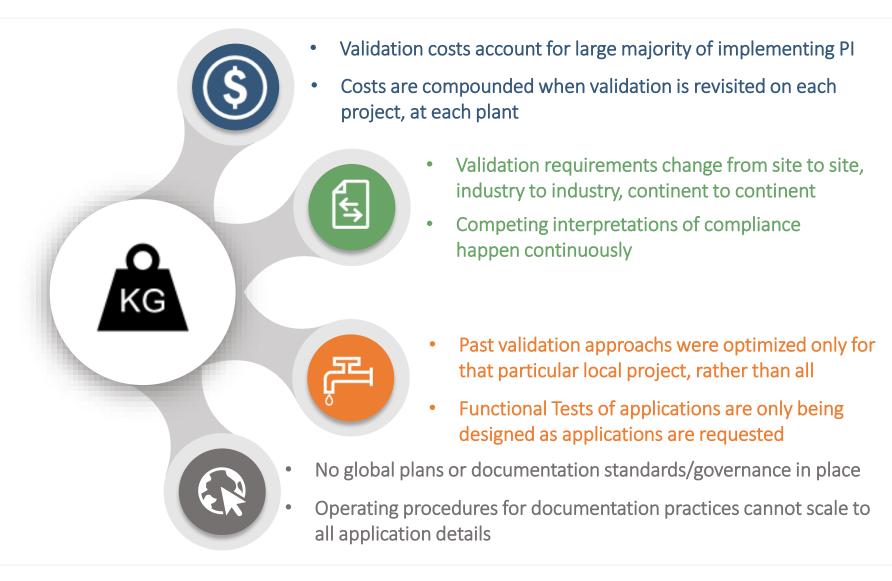
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TQS HP ALM Validation Library

What is it, what does it do and how can it help my enterprise?



General Problem Statements



TQS Validation Library Approach

Product Overview

The TQS HP ALM Validation Library is a Standardized, Generic Script Library capable of being employed to test and validate any OSIsoft PI System Product Deployments or PI System Application. The library of scripts are capable of being used and re-used for any PI Projects.

Combined with our best-in-class Documentation Suite, gains in project cycle-time reductions, defect occurrences and test coverage can be immediate.



Eliminate duplication of design efforts



Validation Cycle Time Reduction



Standardize how every component is documented



Full Product Suite Coverage



Testing Knowledge shared across the enterprise



Developed and maintained by Subject Matter Experts



Documentation Cycle-Time Reduction



Reduce Resource Footprint for project deliveries





Full Product Suite Coverage

Testing that is ready when you are

TQS Validation Verticals

Project

Documentation Verification

Site Identification

Installation Media

Vendor Material

Infrastructure

Hardware Provision

Software Versioning

Security

OS Requirements (Time Sync / Anti-Virus / Backup & Recovery) Core Applications

PI Data Historian Functionality

PI Asset Framework Functionality

PI Web Applications Functionality

> PI Analytics Functionality

> > Etc.

PI Data Collectors

PI Interface Configuration

Data Accuracy, Loop Testing

HA Integrity

Automated Operational Recovery

Security

Functional Applications

Analysis Calculation

PI Visualization Display

RtReport Template

Asset Templates

Configurable Alerts

Event Frame / Batch Generation

Manual Data Entry

Business Integrator Views

System
Maintenance &
Support

Archive reprocessing

Data Migration

Collective Promotion / Demotion

Backup Restoration

Etc.





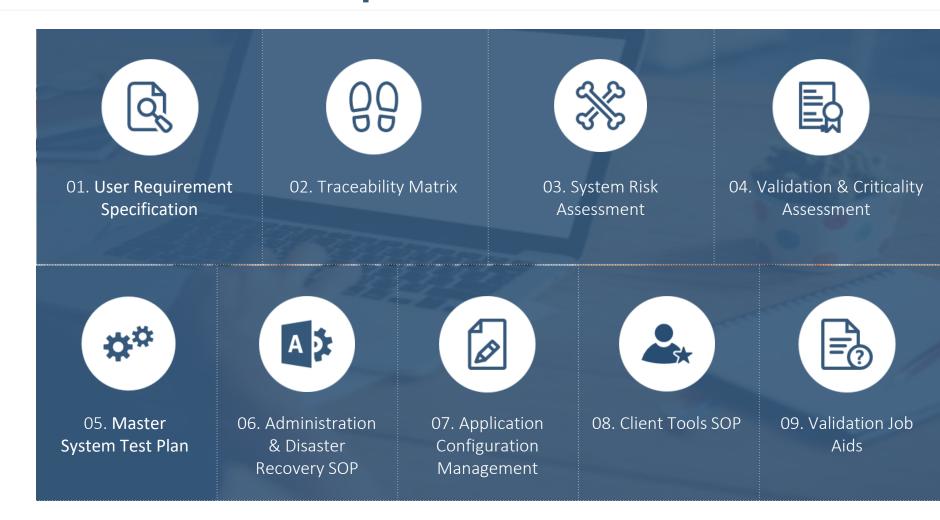
Documentation for all Components

Covering all projects and all applications

Global

The Global documents will manage enterprise-wide compliance, as well as system standards and project implementation guidelines.

These documents will provide instruction and guides to all aspects of the PI System, and are available ready-made for your enterprise, from the TQS Documentation Library.



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Enterprise Core

The delivery or update of an Enterprise Core PI System will require update or creation to the following documents.

The documentation shown on the right are components available ready-made for your enterprise, from the TQS Documentation Library.



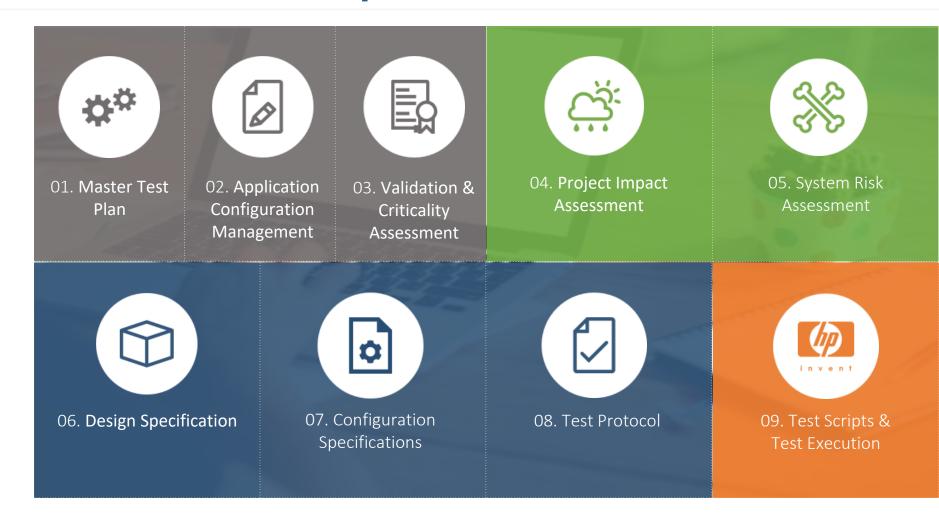


Interface Deployment

The delivery or update of a PI Interface will require update or creation to the following documents.

The documentation shown on the right are components available ready-made for your enterprise, from the TQS Documentation Library.





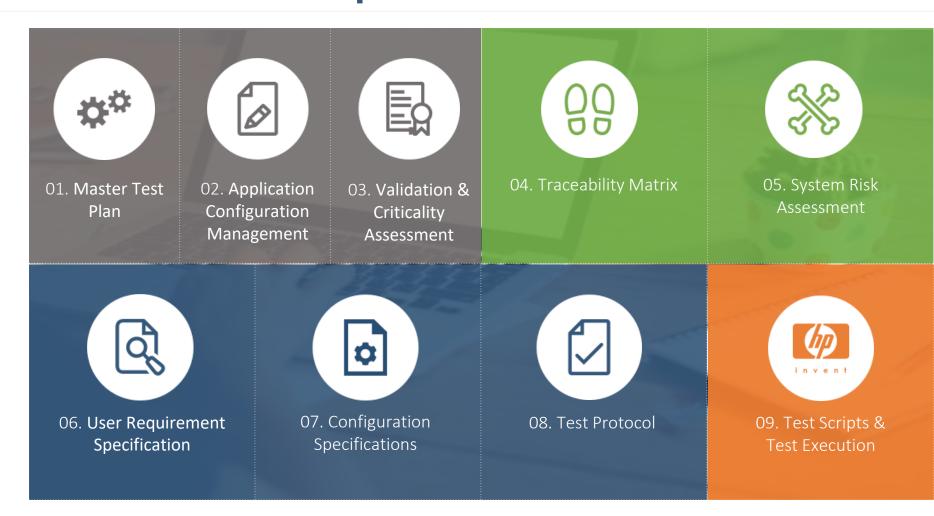


Functional Apps

The delivery of validated application use-cases will require update or creation to the following documents.

The documentation shown on the right are components available ready-made for your enterprise, from the TQS Documentation Library.









Knowledge Sharing

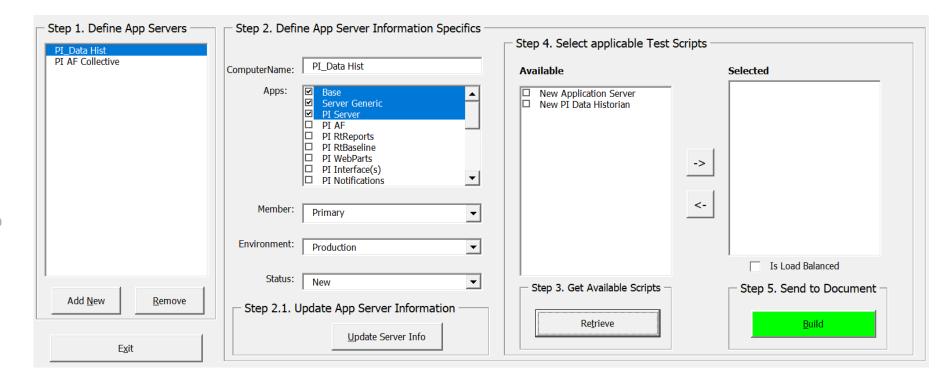
Covering all projects and all applications

Ease of Use

Finding the Right Tests

The TQS Test Protocol makes short work of identifying the right test for what you need.

A simple step-by-step guide in the TQS Test Protocol Template will allow all users to interact and select the tests they need to complete their projects







Future Releases

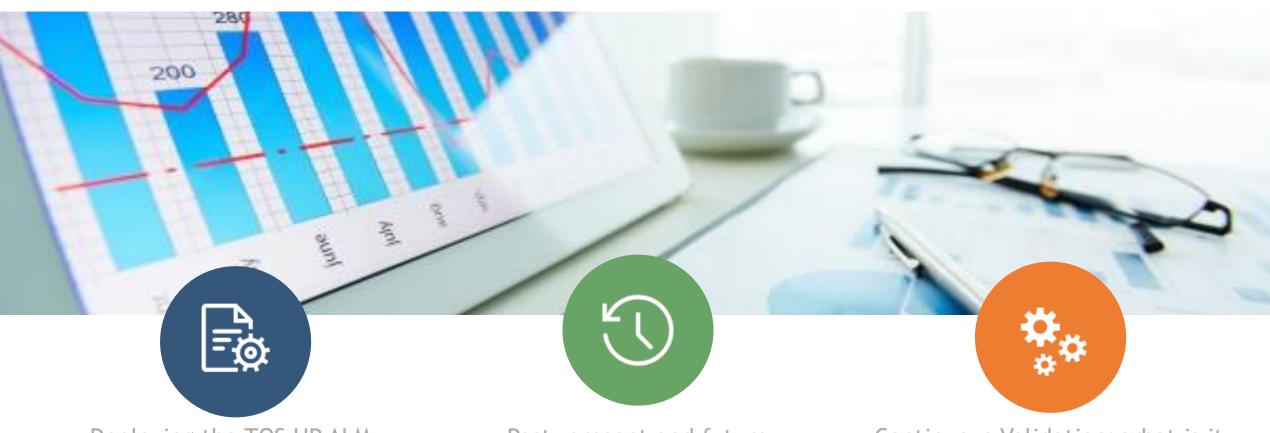
What features can be expected soon



What's in the Pipeline

- Native support for System-to-Document,
 Document-to-System Audits
- Integration of TQS Documentation Suite with HP ALM Test Lab
- Localization of TQS Documentation Suite to support multiple languages
- Automated Change Request verification forms

Come ask me about



Deploying the TQS HP ALM Validation Library within your enterprise

Past, present and future of this product

Continuous Validation; what is it, and what will it do



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