



IQM Studio is the key component to implementing Model Based Testing (MBT) and keyword-based automation scripting. MBT can significantly improve both the Effectiveness and Efficiency of testing. Keyword-based automation dramatically improves efficiency for both automation script development and maintenance.

By building Cause Effect Models (CEMs) of requirements and specifications several benefits are achieved. The creation of models helps **validate** the specification by finding ambiguities and inconsistencies in the logic and rules. IQM Modeling can then automatically generate high quality test cases needed to **verify** the developed software implements the specification.

Keyword-based automation using IQM Scripting also introduces many benefits. The keyword layer allows automation scripts to be built and maintained in IQM Studio by application experts instead of Automation Engineers. IQM Studio also allows scripts that have been recorded to be imported and maintained at the keyword level. On the output side, IQM Scripting is compatible with nearly every automation tool on the market, both commercial and open source.

Each customer has a unique context which makes it crucial to implement IQM Studio in a manner that supports business goals. Each customer will have a road map to success. The intent of these service packages is to get the customer started on the right road and to match specific challenges to specific features of IQM Studio. It is essential that the customer be guided to create a road map and assisted to develop a team that can apply IQM Studio to maximum benefit. We call the initial engagement with Critical Logic services the “IQM Studio Power Up”.

Power Up means that the customer understands the technology and the processes in context of the existing environments and priorities. Power Up also means the customer has access to Critical Logic resources that can mentor and assist the full-scale implementations ahead.

The goal of Power Up is to get clients’ modeling and keyword-based automation scripting capabilities stood up while giving them a clear path forward to continue to reap the benefits of IQM Studio after the conclusion of the Power Up engagement. Power Up will target an agreed upon area of the clients’ systems and create CEM diagrams from which tests and automation scripts will be generated. These tests and scripts are value-added deliverables that can be used to champion IQM Modeling within the client’s organization.

In conjunction with access to Critical Logic’s IQM Studio tool, a Services Power Up leverages the expertise of Senior Consultants working closely with a client to stand up the client’s MBT and automated testing capabilities.

The Customer Success Team will contact the client and arrange a 2-day on-site visit. This valuable face-to-face interaction will allow the analyst to develop an understanding of the targeted system, as well as begin working with the designated resources. Afterwards, the Senior Consultants will continue to work remotely with the designated client staff to familiarize them with the MBT and keyword-based automation practices and processes.

IQM Studio | Power Up:

The IQM Studio Power Up is a collaborative effort designed to transfer knowledge and capability over several weeks. The Critical Logic Solutions Architect will work in an embedded manner with a customer representative to complete a small work sample that will use IQM Modeling and surrounding MBT processes along with IQM Scripting and the associated keyword-based automation process. Post-Power Up, the customer will have continued access to a Critical Logic Solutions Architect that will mentor and assist in the full-scale implementations ahead.

- Customer Needs assessment and Sample Selection
 - Review customer pain points, priorities, and testing challenges
 - Identify sample system/functional area to target IQM Studio Power Up
 - Identify customer team for Power Up
- Activities
 - Inventory sample system definition documentation
 - Define Scope of IQM Studio Power Up
 - Work with SME to transfer knowledge needed to stand up customer MBT capabilities
 - Walk-thru of existing automation and testing systems and existing tests/scripts
 - Explore and define area of tested system best suited for IQM Studio Power Up
 - Create IQM framework: Object repository and Keyword actions
 - Create new or existing tests into IQM keyword scripted tests
 - Define Success Validation Criteria
- Value Deliverables
 - Stood-up (customer) capabilities to develop and maintain models and tests
 - Stood-up (customer) capabilities:
 - Develop and maintain keyword automation tests
 - Additional development and maintenance of IQM Scripting framework
 - IQM database with models, tests, keywords, and scripts
 - Defect Prevention/Defect Detection
 - Traceability
- Time & Resources
 - Pre-site visit consultation
 - 2 days onsite
 - Intense remote collaboration (2-3 weeks)
 - Periodic check points with mentoring and work review (2-3 weeks)
 - Results analysis, recommendations, and planning
 - Ongoing support and mentoring
- Client Responsibilities
 - Designated Client IQM Modeler and MBT Analyst
 - Access to SME(s), existing tests/scripts, and test environment(s)
 - Access to targeted system(s) and/or system definition documentation
- Dependencies
 - Availability of client resources
 - Remote access to client systems as needed