



**Service Priorities and Programmes**  
**Electronic Presentations**

**Convention ID:** 340

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**HA IT System Automated Quality Testing Strategy**

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**Keywords:**

QA

Automated

Automation

Testing

framework

hybrid

**Introduction**

HA IT systems are increasingly critical to HA hospital and clinical operation in delivering quality service, and hence exacerbated the demand for high stability, availability, accuracy and last but not least the timeliness to feature rollouts. Quality assurance and testing become indispensable tasks creating huge workload on IT staff. Testing automation, therefore is the key to high quality software systems while significantly reducing manual testing workload, time required for quality assurance and unleashing the manpower for productivity gains. An advanced automated quality testing strategy takes a step further on the strategic creation of tools, knowledge and resources to achieve a maintainable and sustainable testing automation.

**Objectives**

To promote strategy and practices of automated quality testing in HA IT systems and embed a culture to automate the tasks whenever opportunity arises. Ultimate goal is aimed to enhance the quality of systems, reducing lead time and increasing productivity.

**Methodology**

Development of an automation standard comprising test preparation, creation of automated test cases, scripts and automatic matching of test results.

**Result**

1) Automation significantly reduced manual efforts. A speed test between manual PDF checking against automated checking showed 1500 times quicker by automation. 2) Automation significantly reduces time to complete the tests.