

## Independent Testing of a Commodity Exchange System

### The Customer

- One of the first national level commodity exchanges set up in India. The technology platform and business itself was new in India when this exchange was set up. AUDITime was appointed for functional testing and automation of the testing process.
- This was a screen based commodity exchange platform with a high level of transparency and market depth. The exchange was set up using state of the art technology by one of India's leading exchange software companies.

### The Business Challenges

- The business challenges were daunting and the uncertainties were many, few of which included,
  - o Several changes in the requirements during the development cycle
  - o Fierce competition from other exchanges resulting in stretched timelines
  - o To reap the early mover advantage, business heads wanted to push maximum products and features into the live environment at the earliest
  - o Being an exchange, the platform was expected to run fault free with 99.99% up time

### AUDITime's Solution

- Besides routine testing challenges, AUDITime was expected to help in going live with a defect free product within the project timelines with maximum features. In order to achieve this, AUDITime identified the following Key Success Factors (KSF).
  - o Releases coming from the development team should have minimum or on defects
  - o The first round of test results must not have any functional gaps in the release
  - o The releases should pass through the regression testing in one round
  - o Fatal errors (system crash) and accuracy errors must not spill over to the live environment
- Some of the highlights of AUDITime's integrated quality management solution were,
  - o Implementation of an incremental model of STLC (Software Testing Life Cycle) for each release, build or patch.
  - o Involving a quality team in the early stages of software development, i.e. requirement documentation and finalization phase. This involvement gave sufficient time to the quality team to plan, prepare and expect a release from the development team.
  - o Quality team designed the 'Acceptance Criteria'. Early involvement of the quality team enabled them to design acceptance criteria. These acceptance criteria were given to the development team. In turn the development team needed to ensure that the patch, release or build which would be delivered to the quality team meets the acceptance criteria. This ensured drastic reduction in functional gaps in releases and reduced regression test cycles between the development team and the quality team.
  - o Early involvement of the quality team enabled them to prepare an 'impact document'. This document was also shared with the development team. The independent impact document prepared by the quality team gave a third party view to the development team. This reduced impact errors drastically.
  - o Automation of the regression testing library reduced the overall testing time.

## Independent Testing of Commodity Exchange System

CASE STUDY

SOFTWARE TESTING

RISK &amp; AUDIT SERVICES

INFORMATION SECURITY

### Major Benefits

- 99.99% defect free uptime of the software application
- The purpose of 'Go Live Within Time Without Bugs' was achieved
- Reusable automated test libraries reduced the size of the testing team
- Significant contribution to the competitive advantage of a robust exchange platform
- Overnight regression testing through the automated testing suite was achieved

### Who are we?

AUDITime Quality Management Pvt. Ltd., is a software testing service provider, focused on capital market. We have tested all off-the-shelf as well as customized trading software used by members. We have 13 years of experience in testing software used for trading and risk management. We are ISO 9001 and ISO 27001 certified organization.

AUDITime Quality Management Pvt. Ltd  
A - 101, Kailas Industrial Complex, New Hiranandani Road,  
Parksite Vikhroli (West), Mumbai 400079. India

For more information  
Contact us: [info@auditimeindia.com](mailto:info@auditimeindia.com)  
Visit us: [www.auditimeindia.com](http://www.auditimeindia.com)