



MiriATE® Test Automation

Challenges

Over recent years digital broadcast receivers such as set-top boxes (STBs) and integrated digital TVs have become more, rather than less, complicated. Similarly the range of services delivered has expanded and with increased competition across the broadcast chain the pressures on manufacturers and operators to provide quality are immense.

Companies are under constant pressure to deliver new devices and services within short timescales under challenging budgets. The consequences of low quality include damage to brand and reputation, poor customer relationships, additional costs of unplanned re-work high support overheads and disruption to other projects.

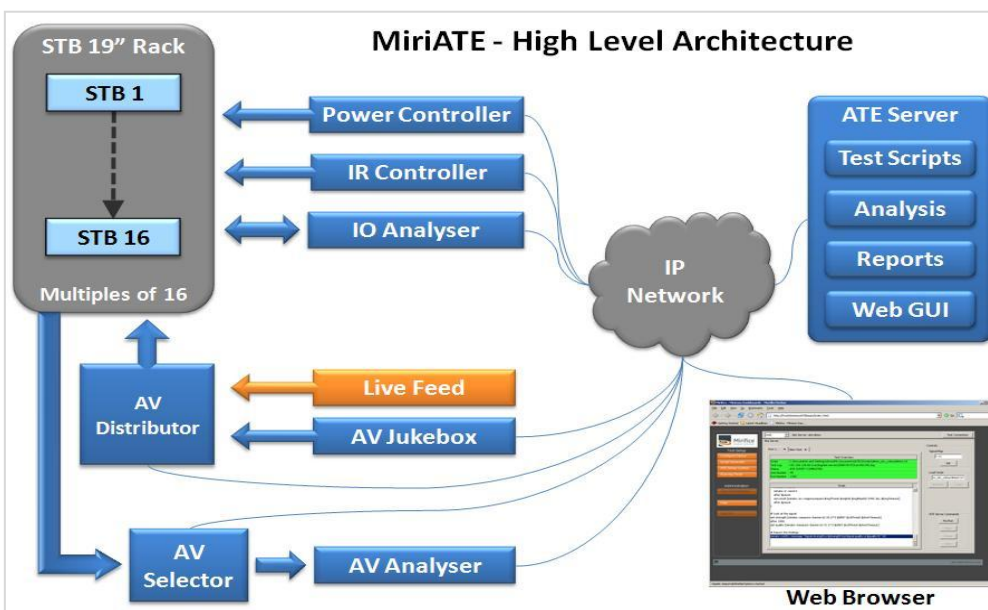
More directly, poor quality can result in late delivery penalties or even contract cancellation. Delivering good quality is critical to the financial success of any manufacturer or supplier.

Improving Quality

Testing provides the information to improve quality through the resulting re-engineering and bug fixing. To enable quick fault analysis, testing should be documented, accurate, detailed and repeatable. An automated platform that enables remote, concurrent and continuous testing capability reduces time to market and allows engineering staff to be used more efficiently thus bringing tangible benefits in quality improvement.

MiriATE® Automated Test Environment

The MiriATE system provides an automated black box testing and control environment for consumer devices such as set-top boxes or integrated digital TV's (see diagram below) within a laboratory or live network.



MiriATE Features

- Easy writing of test scripts via remote control bitmap and pull-down menus
- Efficient import mechanism to handle new device types
- Input control of devices via infra-red and power supply.
- Powerful AV output analysis, including motion detection, image comparison and enhanced OCR can test for content presence and confirmation of the elements of UI
- Configurable text and e-mail alerts in case of test failure
- Modular platform allows easy integration with customer or 3rd party tools, e.g. bug-tracking systems
- Extensible architecture caters for all sizes of deployment

MiriATE Benefits

- Efficient scripting of documented and repeatable tests
- Provides detailed information to provide QA verification and assist fault diagnosis
- Remote controllability via web browser
- 24x7 testing availability via multiple concurrency and scheduling
- Enables frequent regression testing and large scale fatigue testing
- Allows test team to focus on test definition and fault investigation
- Reduces time to market and the total cost of testing.
- Can be used as 'programmable robot' for live network testing



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