



Sahi

Cost effective Web Automation



What is Sahi?

- Automates web applications
- Started in 2005
 - Mature business ready product
- Aimed at testers in Agile and traditional environments
- Focus
 - Aimed at testers
 - For complex web applications



Why use Sahi?

- Simulate real user interaction
- Speed up verification of functionality
- Run regression tests
- Check across browsers and OSes
- Minimize testing time

Key Features

- Browser and Operating System independent
- Powerful recorder which works across browsers
- Powerful Object Spy
- Intuitive and simple APIs
- Javascript based scripts for good programming control
- Version Controllable text-based scripts
- In-built reports
- In-built multithreaded or parallel playback of tests
- Tests do not need the browser window to be in focus

Key Features – Contd.

- Command line and ant support for integration into build processes
- Supports external proxy, HTTPS, 401 & NTLM authentications
- Supports browser popups and modal dialogs
- Supports AJAX and highly dynamic web applications
- Scripts very robust
 - No wait statements required even for AJAX and page loads
 - Intuitive APIs like `_near` and `_in` eliminates need for XPath

Key Features – Contd.

- Works on applications with random auto-generated ids
- Very lightweight and scalable
- Supports data-driven testing. Can connect to database, Excel or CSV file.
- Ability to invoke any Java library from scripts
- Supports drivers in Java, Ruby and PHP also

Sahi Pro Features

- Multi machine playback
- Sahi Script Editor
- Excel based framework
- Support for Flex (beta)
- Log to HTML, XML and database
- Playback Log comparison

Core Differentiator - 1

- Feature
 - Record and playback on any browser/any operating system
- Advantage:
 - The same tests work across browsers
- Business implication:
 - Allows easy verification of business functionality across browsers

Core Differentiator - 2

- Feature
 - Automatic waits for AJAX and page loads
- Advantage
 - Tests do not fail due to timing issues
- Business implication
 - Less time spent in maintenance, more dependable tests. No false negatives

Core Differentiator - 3

- Feature
 - Sahi's UI Relation APIs (`_near`, `_in`, `_under` etc.) removes dependency on HTML code structure
- Advantage
 - Tests communicate intent better. Tests work in spite of changes to HTML code of web pages.
- Business implication
 - Lesser coding complexity for testers. Less time spent in creation and maintenance of scripts.

Core Differentiator - 4

- Feature
 - Parallel playback of tests and Distributed execution across machines
- Advantage
 - Saves playback time drastically (may be tenth of sequential)
- Business implication
 - Faster feedback, faster development cycles

Core Differentiator - 5

- Feature
 - Inbuilt logging and reporting
- Advantage
 - Consolidates reports, removes code clutter
- Business implication
 - Saves time in diagnosis and traceability of failing scripts

Sahi and QTP

Feature (Pros of Sahi)	Sahi	QTP
Run on any browser/OS	Yes	No
Needs browser in focus	No	Yes
Supports parallel playback	Yes	No
Identifies complex web objects	Yes	No

Sahi tests are lighter and faster.

Feature (Cons of Sahi)	Sahi	QTP
Works on any desktop application	No, only web apps	Yes (on windows)

Sahi and Selenium

Feature (Pros of Sahi)	Sahi	Selenium
Recorder on all browsers	Yes	Only on firefox
Easy identification of objects without ids	Yes, uses UI Relations	No, needs brittle XPaths or css selectors
Needs waits between steps	No, automatic waits	Yes, needs wait statements, leading to more complex tests
Developer/tester focused	Tester focused	Developer focused
Inbuilt reporting	Yes	No

Feature	Sahi	Selenium
Languages available	Sahi, Java, Ruby, PHP	Many more



Sahi Pro License

- Price
 - USD 350/user
 - Can be used on extra machines for playback
- Support
 - Email based support, guaranteed response within 1 Indian business day
 - Desktop sharing via GoToMeeting if required

Summary

- Sahi scripts are fast to create, easy to maintain
- Sahi plays back fast and reliably
- Architecture is simple.
 - Simplicity makes it adaptable and evolvable.
- Sahi takes care of the plumbing.
 - Features like in-built reports, managed parallel playback across machines, simplified APIs, etc. lets your team concentrate on testing.
- Teams need not be revamped.
 - One can easily introduce manual testers to Sahi automation.



More Information

- Sahi
 - <http://sahi.co.in>
- Sahi Pro
 - <http://sahi.co.in/w/sahi-pro>
- Sahi vs Selenium
 - <http://blog.sahi.co.in/2010/04/sahi-vs-selenium.html>