HITACHI

Microsoft

HARC Agents – HAIQ: AI-Powered Quality Agents for Automated Application Testing

Overview:

HARC Agents HAIQ (Hitachi AI Integrated Quality Agents) delivers AI-driven quality engineering as a managed service on Microsoft Azure. It enables organizations to automatically generate, execute, and report comprehensive web application tests using natural-language instructions, reducing manual effort while improving test coverage and consistency. HAIQ transforms quality assurance from script-heavy, brittle automation into intent-driven testing aligned with modern DevOps and cloud-native delivery.
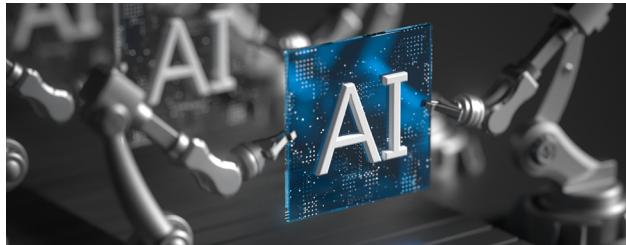
Solution:

HAIQ provides AI-powered Quality Agents that convert natural-language test descriptions into executable Playwright test scripts, run them at scale, and deliver actionable test results.

Core capabilities include:

- Natural-language test definition (e.g. "Test the registration form and validate error handling").

- Automatic generation of Playwright test scripts.

- Secure execution against web applications hosted on Azure or hybrid environments.

- Test result analysis, reporting, and historical tracking.

- API and pipeline integration for CI/CD workflows.

The service is fully managed by Hitachi Digital Services, removing the operational overhead of test framework maintenance.

Key Benefits:

- **Faster Test Creation**
  Generate automated tests from plain language without specialized scripting skills.

- **Improved Test Coverage**
  Consistent execution of functional, validation, and regression scenarios.

- **Reduced QA Effort**
  Lower dependency on manual test authoring and maintenance.

- **DevOps-Aligned Delivery**
  Integrates with Azure DevOps and CI/CD pipelines for continuous quality.

- **Enterprise-Grade Governance**
  Secure execution, auditability, and controlled access aligned with Azure standards.

Assessment & Onboarding:

- **Application Readiness Review**
  Assess target applications, environments, and test scope.

- **Test Scenario Definition**
  Identify high-value functional and regression test cases.

- **Execution & Integration Setup**
  Configure test execution, reporting, and pipeline integration.

- **Baseline Quality Metrics**
  Establish initial pass rates, coverage, and defect indicators.

- **Continuous Improvement**
  Refine test scenarios and execution based on application changes and outcomes.

Transform your testing from manual to intent-driven with AI-powered automation.

Contact our AI Experts

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Hitachi Digital Services