

Automated Terminal-Based Mainframe Application Testing

To enable the continuous integration/continuous delivery (CI/CD) practices, Verastream Host Integrator automates terminal-based mainframe application testing, and enable users to capture encapsulated application business logic as reusable services, all while using their current testing solutions and infrastructure.

Automated Terminal-Based Mainframe Application Testing at a Glance:

■ Improve Agility:

Easily automate test of application for mainframe and other host applications. Run tests after every build to ensure system performance. Reduce errors, and increase release speed and quality.

■ Increase Quality:

Ensure your mainframe applications are always performing, eliminate downtime, and fix bugs on time to ensure quick and smooth releases.

■ Reduce Costs:

Reduce development time, administrative overhead, maintenance costs, infrastructure management, FTEs, and more.

■ Boost Velocity:

Increase the number of tests run per day and decrease the time to run tests.

Using a services-based approach to automated mainframe application testing ensures organizations can perform tests that support the business demands of these applications, deliver them on time, and prevent and minimize defects. Micro Focus Verastream Host Integrator (VHI) enables organizations to continue using the automated testing solutions already in place and get more value from them.

This enables enterprise teams developing and maintaining terminal-based mainframe applications to implement continuous integration/continuous delivery (CI/CD) practices that help meet the ever-growing demand to deliver applications on time, quickly and efficiently.

Benefits of Automated Terminal-Based Mainframe Application Testing with VHI

Reduced Testing Time and Increased Efficiency

Reusing, rather than recreating tests for functional, as well as performance testing. Along with testing more frequently, without adding more testers.

Scale As Needed Using Your Infrastructure and Processes

There is no dependence on desktop emulator versions, integrate into your existing infrastructure, processes and tools

Test through the Frontdoor

Because test automation occurs off the mainframe, enterprises avoid additional MIPS costs.

Empower Users and Test the Application User Experience and Workflow

Enable non-developer, non-technical business analysts and testers to drive test case creation. Test the actual business process workflows and user experience.

One Tool for All Host Applications

Not just for IBM zSeries/3270 and IBM iSeries/5250; a single tool works for all applications, including UNIX/Linux with VT terminal interface.

Additional Features of VHI

INTERFACES

- VHI has multiple ways to access a procedures out, including SOAP, REST, JAVA, .NET and COM
- Modeling capabilities enable adding processes and collaboration with others.
- Set host connection properties via API / Services Interfaces to simplify moving between test environments, i.e., DEV, TEST, UAT and PROD

PERFORMANCE TESTING

- Use LoadRunner and multiple UFT instances to enable Load Testing GUI Test, which is not available in Micro Focus Unified Functional Testing (UFT).
- Mitigate HLLAPI session limits and memory constraints limit each UFT GUI Test.

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- VHI can scale by launching 1000+ current host sessions on a single session server.

troubleshooting for faster problem resolution

RESOLVING / IDENTIFYING HOST FAILURES

- VMR logs provide an artifact for Host Application issues, and ease

- Synchronize timings between the Host Systems/Applications, and your test environment

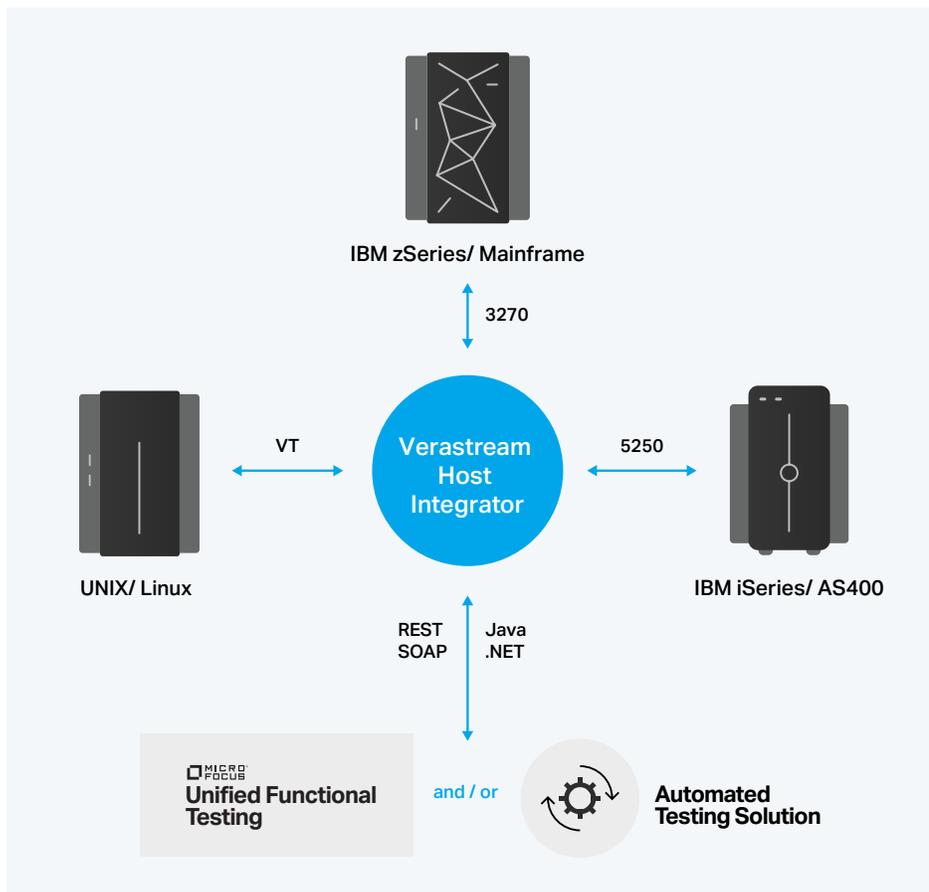


Figure 1. Automated testing using UFT or current testing solution