



The Choice of Experience



## Application Management *for PeopleSoft*



formerly Newmerix Automate!Test

Beacon's *Automate Test* enables IT Organizations to dramatically lower the cost of testing changes to PeopleSoft while speeding test cycles of greater breadth and depth to ensure predictable release cycles of exceptional quality.

### Automated Testing for PeopleSoft

PeopleSoft provides customers with best practices pre-configured into end-to-end business processes. Many organizations change these configurations as business requirements change.

How do you enable IT organizations to deliver strategic value and manage changes to your business?

Reducing the time and effort it takes to test changes to your PeopleSoft systems while increasing the breadth and quality of testing is a good start.

Manual application testing is time-consuming, inefficient, unproductive and lacks repeatability. As a result, deployment cycles are slower and less predictable and the quality of application changes is not rigorously verified.

As other stages of the application lifecycle slip their own deadlines – defining requirements, assessing fit-gap, impact analysis, configuration, etc. – the testing cycle is shortened, leaving very little time for diligent manual testing.

Consequently, manual testing jeopardizes the continuity of the production system, compliance with IT Governance, and cost control. The more customized the application, the greater the risk.

Furthermore, capturing the professional expertise of application users is the biggest challenge when testing application changes.

Without this knowledge, testing teams only test the obvious or the familiar. As a result, application users are often responsible for acceptance testing which takes them off their day job. If you could document your end users' process knowledge, you could turn that knowledge into automated test scripts, process guides for auditors and training material for new employees.

Having the right testing tool can not only help automate the repetitive testing that end users struggle to perform, but can also reduce the burden of compliance with Internal Audit.

*Beacon's Application Management solution is comprised of two modules that operate independently and in unison: BEAM and Automate Test.*

### Benefits

#### *Automated Testing*

*Automate Test* records the behavior of application users to automatically generate test scripts based on actual business activity. Using these scripts, test routines can be executed automatically reducing the involvement of the end-users.

Test scripts are highly repeatable and configurable allowing a far greater level of granularity than is possible with manual testing methods. With *Automate Test*, deployment cycles are faster and predictable because the quality of application change is rigorously verified.

#### *Advanced Script Maintenance*

With its unique understanding of PeopleSoft metadata, *Automate Test* drastically reduces the time it takes to maintain test scripts. When a PeopleSoft application is changed, *Automate Test* understands what has changed and how it affects the test scripts, and makes recommendations on how to update the test scripts to accommodate the changed application functionality.

#### *Business Process Documentation*

*Automate Test* automatically records and documents the activities of application users as they use the application to do their work. The resulting documentation can then be used to automatically test application changes. Additionally, process documentation can be used for employee training, process guides and to support process audits. Most importantly, the need for application users to take time away from their work to perform acceptance testing is dramatically reduced.

## Automate Test - Advanced Features

### Test Script Recording

The ability to record test scripts is at the core of an automated testing product. After the user initiates a recording session, *Automate Test* captures the user's actions in a test script as the user completes a business process. The recorded test script can be replayed to perform those same actions again. Users may insert comments and interact with a test script during a recording session.

### Test Script Maintenance

*Automate Test* synchronizes test scripts against the current values of PeopleSoft metadata. Synchronization creates a baseline of metadata objects that are associated with test scripts. Testers see what changes have been made to a PeopleSoft application and how those changes impact test scripts. *Automate Test* identifies the changes by comparing metadata objects from the baseline against the current state of the same objects. The objects associated with the changes are simply linked by *Automate Test* to associated statements in the test scripts. Users can then see which test scripts in a test suite are affected by changes in a PeopleSoft application.

### Functional User Interface

Business users record processes through a distinct interface designed for non-technical users. A business user may record test scripts without ever seeing a line of test script code. The code is captured for later access by a technical user, but hidden from the business user.

### Business Process Documentation

Business processes are easily captured for sharing with test script developers, auditors, training staff and others. Test scripts can automatically generate self-defining business process documentation. Generated documentation can be updated and enhanced to meet the needs of its various users. All captured business process information is published in an easy-to-read format for all users.

If required, non-*Automate Test* users can apply additional changes to published documents using Microsoft Word.

### Integrated Development Environment

*Automate Test* provides an Integrated Development Environment (IDE) to create, edit and run test scripts in one interface, reducing the time it takes to develop test scripts. Users can develop functions in the .NET language most familiar to them and integrate their work into the test suite through external libraries. With the IDE, testers may manage large regions of potentially complicated code within one window, while still viewing only those sub-sections of the code that are specifically relevant during a particular editing session. A built-in compiler enables testers to create, edit, compile and run test scripts in one interface, reducing the time it takes to develop test scripts.

### Programmatic Test Script Execution

This capability enables testers to run a large number of tests in batch mode, run them on a schedule, or run the application without the overhead of the user interface.

### Test Data Loading

*Automate Test's* data loading capabilities enable testers to quickly create, edit, manage, and load data from an array of data sources so they may efficiently iterate through multiple test script development cycles. Direct integration with Microsoft Excel supports:

- \* XLS files
- \* XML Files
- \* CSV files
- \* SQL Databases

### Test Result Reporting

*Automate Test's* reporting capabilities show the results of a test replay session. Test results can be published to a shared central repository where the results can be viewed by other users in *Test* or through a Web console.

## Supported Platforms

### Test for PeopleSoft Workstation Operating System

- Windows 2000 (Server and W/S), 32-Bit
- Windows 2003 Server, 32-Bit
- Windows 2008 Server, 32 & 64-Bit
- Windows 2008 R2 Server, 64-Bit
- Windows XP, 32-Bit
- Windows Vista, 32 & 64-Bit
- Windows 7, 32 & 64-Bit

### Web Browser

- Microsoft Internet Explorer 6, 7, 8

### Desktop Hardware Requirements

- Processor speed: 1 GHz
- Memory: 1 GB
- Available Disk space: 300 MB
- Network speed: 10 Mbps

### Terminal Server Requirements

- Processor speed: 2 GHz
- Processor quantity: 1 to 4
- Memory: 1 GB per user
- Disk space: 300 MB per session
- Network speed: 10 Mbps

### PeopleSoft Application Environment

#### PeopleSoft Tools

- Release 8.17 – 8.22
- Release 8.42, 8.44-8.50
- Release 8.51

#### Database

- Oracle Database 9i
- Oracle Database 10g
- Microsoft SQL Server 2000
- Microsoft SQL
- IBM DB2 UDB 8

