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Eccox Technology announces version 1.8 of Eccox Application Environment Management for Parallel Testing (APT).

Eccox APT now with the process of creating a completely restructured parallel test track, breaking barriers of the test cycle, and installing DevOps on the Mainframe platform.

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Testing remains one of the biggest obstacles that hinder organizations' collective efforts to deliver better and more agile software. Organizations today are increasingly aware of the critical role that continuous testing plays in delivering quality software with competitive Time-To-Market and are aggressively investing in the necessary testing tools and technologies.

The problem today is not a lack of awareness or tools. The problem, simply, is that testing is difficult, and it becomes more difficult as organizations seek to drive automation at scale. Nowhere is this challenge more evident than in organizations' ongoing efforts to test quality.

Running tests in parallel is a critical component of any strategy to reduce test run times and enable a continuous application delivery model. Consider the hypothetical example of a test suite with 100 test cases for an application, each taking two minutes to run. Running these 100 test cases sequentially, it will take more than three hours to complete, but running these tests in parallel, all 100 will be completed in just two minutes, that is, a drastic reduction of more than 90% in the time of running the tests.

Eccox Application Environment Management for Parallel Testing (APT) is the only market solution for IBM z/OS environments that clones entities such as load modules, DB2 tables, files, and JCL in the mainframe environment, required for functional testing. An application that actually accesses the mainframe environment triggers processes and accesses real data and applications; eventually, these accessed components are clones of original elements, but CICS, IMS and DB2 are real, not simulated.

In this version, we performed the complete restructuring of the tool, leveraging the process of creating a track that gained yet another restructuring—further improving the time to create and clone test tracks.

With the new technique, the APT process performs each step without asking the operating system. With this, we gain greater autonomy and control because we know exactly when the step is started and ended if there was an error and which error occurred. Also, with the new APT interface, the creation process became much more intuitive and agile, thus ensuring more flexibility and seeking, even more, the creativity of users when registering.

HIGHLIGHTS OF THIS VERSION

- ❖ Intuitive and agile test track creation process.
- ❖ It enhanced the APT WEB interface.
- ❖ Implementation of new Features.
- ❖ Features that continually improve Continuous Testing and Continuous Delivery.

Main benefits obtained:

- ❖ Absolute control of each step:
 - Start
 - Completion
 - Error identification
 - ❖ Process of creating a track much more AGILE, simple, and intelligent.
 - ❖ Update components at run time.
 - ❖ Process recovery from the stop location.
 - ❖ Recovery and storage of error messages.
 - ❖ Immediate consultation of the occurrences of the track creation and destruction process.
 - ❖ Storage of error codes and logs.
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New features have been implemented that bring even more value during creation and increasingly encompass possible test scenarios:

❖ **Agile Mobile Testing**

- Through the name of a Program, with a click, all DB2 Tables accessed by it are obtained;
- Through the name of a CICS or IMS transaction, with a click, all programs and tables that this transaction uses are obtained;
- Through the name of a DB2 Table, with one click, all the Programs that access it are obtained.
- This information will support the AGILE, Automatic and Intuitive (DRILL DOWN) process of creating a track for a MOBILE or Internet service;
- This functionality is intended for APPS MOBILE & Internet development teams to create their tracks of the IMS or CICS transactions they use in their tests and with complete independence from the mainframe teams.

❖ **Test Track Component Maintenance**

- Allow to update track components without destruction, including a unique identifier;
- Use Case: the user creates a track and, after 3 days of testing, adjusts a program that was already on the track; after compiling it, with one click, the user REPLACE this program on the track;
- Use Case: The user wants to update a DB2 table that was already on the track or wants to include a new DB2 table on the track, with just one CLICK, and it is done;
- Automatically display components of each package in the track record;
- The test supports were very Agile and Simple.

❖ Component Change Alert

- Issue an alert if any program on the track is altered or compiled by a user;
- Automatically those involved in this test will be notified;
- The User can configure this component to take the following actions automatically:
 - Block the compilation of this program;
 - Automatically replace this program compiled on the track;
 - Make the track INACTIVE because of this compilation;
 - Notify managers who are approving a change that the "X" program that is being approved is changed by user "Y".

❖ Agile Continuous Testing

- Functionality that allows to track (Automatic Cross Reference) all programs used in the execution chain and all accesses (CRUD matrix) to bases executed in an Online transaction to subsidize the automatic process of creating a track;
- This information will subsidize the automatic process of creating a track for a MOBILE or Internet service, without depending on the mainframe teams.

Contact

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ABOUT ECCOX

With more than 25 years of experience in the global software market, Eccox delivers results to clients in the financial market, industry, government, data centers, among others. Its portfolio of solutions and services allows to reduce the consumption of MIPS/MSUs and increase the availability of IT resources. In line with global trends, Eccox effectively seeks to continuously improve processes, quality and operational efficiency for its customers.