Performance Testing for Clinical Management

Client Background and Business Requirements: :

The client is the leading pharmaceutical and biological companies world-wide. It provides a wide portfolio of pharmaceutical products covering anti-invectives, central nervous system, respiratory, gastro-intestinal/metabolic, oncology, and vaccines products.

The application system we are testing is an integrated clinical trial data management system that utilizes Web technology to enable electronic data capture. The system needs to handle millions of patient information across nations.

Beyondsoft Solution :

- Beyondsoft helps the client implement the performance test solution for clinic management system, and is responsible for test planning, automation framework and scenario, script development and performance test execution and analysis.

- After doing the investigation of the new method, Beyondsoft changed data population strategy from LoadRunner scripts development to XML creation by using Inform Integrated Import tool quickly, although it's possible to encounter some difficulties. Generate the valid plan based on the test schedule.

- Export the worst-case patient data and best-case patient data which are filled by Loadrunner scripts in order to find out the valid import data.

- Install the Inform import tool and export tool. Open the Help book to learn how to create the XML import files.

- Develop the scripts to change the export data into the expected import style in XML files when the templates of four types XML files are ready.

Client Benefits:

- With quick strategy changes and good plan for data population, the test schedule was not

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delayed too much. The customer backup the final XML files version for future performance testing, because there was no any XML file template before.

- The Inform 4.6 application also can only handle 10 concurrent users when populating the data by using the integrated import tool. It indicates that the performance of inform application is really poor in advance.

- This is one of risks we haven't considered during the test schedule estimation. Our schedule was estimated based on 100 concurrent users running loadrunner scripts; but actually only 10 concurrent users can be handled successfully due to the poor performance of Inform application.