

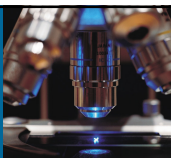
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Intelligent Error Handling (IEH) Plug-in for QTP (Siebel)

**Rohit Sharma
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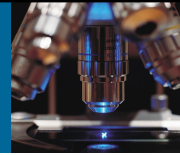


Agenda

- Background
- Challenges faced with QTP
- Intelligent Error Handling (IEH)
 - What is it?
 - Features
 - Benefits
- Summary
- Q & A

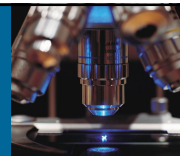
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Background



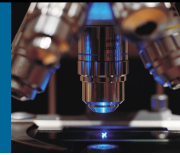
- Testing is of critical importance in assuring the quality of software and we all are aware how test automation provides an opportunity for significant time and resource savings for a project.
- The development of a reliable automated test model requires the coordinated efforts of people, processes, technology and tools.
- Although Tools offer a lot of automation, it often requires some customizations & workarounds to achieve so.
- This plug-in developed in Accenture provides an ability to extend one such widely used industry tool QTP to achieve Unattended & Uninterrupted execution.

Challenges faced with QTP



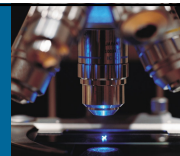
- Uninterrupted or Unattended Execution
 - No “Intelligent” Error handling mechanism
- Short Comings observed in the Automation Tool
 - Analysis of Batch Execution Results difficult
 - Customized Siebel Pop-ups & Error messages are not handled by QTP
 - No “Built-in” mechanism to perform a check on issues/mistakes at Script Level

Intelligent Error Handling(IEH)



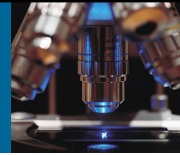
- What is it?
 - Plug-In/Framework for Quick Test Professional (QTP)
 - Based on Automation Object Model (AOM)
 - Combination of Controller & Recovery Modules
 - Three layers of architecture which can be configured
 - Pre Execution Steps
 - Execution
 - Post Execution Steps

Features & Benefits of IEH Plug-in



- Handles almost all the challenges mentioned earlier
- Integrates seamlessly with QTP v 8.2 & above with minimal development effort
- Virtual Execution and Batch Execution
- Handles Predicted Error Messages
 - Can be customized to handle Unpredicted Error messages if the errors are categorized
- Faster analysis of Test results
- Remote Execution

Productivity Benefits



Automated Test Execution

Task/Effort	Automation Scripts	Execution Rate (Simple/Medium/Complex)	Total Effort
Execution without IEH tool	100	20-30 Scripts/8 Hour	32 Hours
Execution with IEH tool	100	All Scripts/0.5 Hours	0.5 Hours

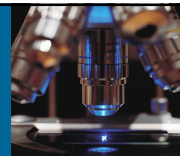
Task which would have taken 32 hrs gets completed in 0.5 hrs with the help of IEH tool.

Analysis of Automated Test Execution Results

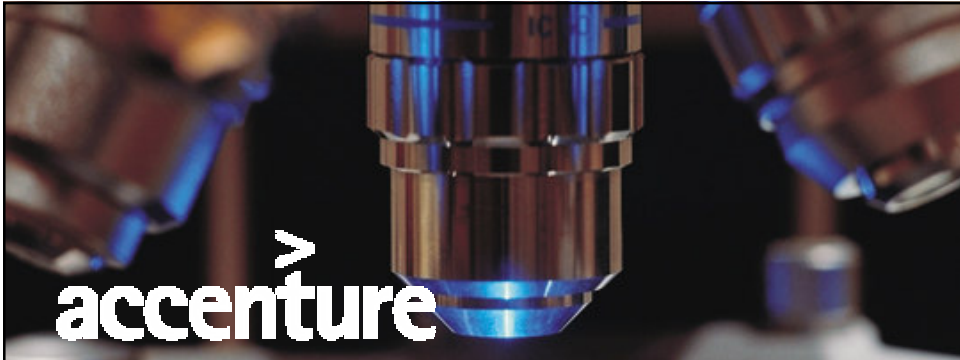
Task/Effort	Total Results	Analysis Rate	Total Effort for Analysis of 100 Result
Result Analysis without IEH tool	100	60-80 Analysis/Per Hour	~ 1.5 Hours
Result Analysis with IEH tool	100	All Scripts/0.5 Hours	~ 1 Min

Analysis effort which would have taken 1.5 hrs gets completed in 1 min.

Summary



- We found that this Intelligent Error Handling Plug-in/Framework can bring tremendous productivity benefits to your Test Automation strategy by
 - Eliminating Tester's periodical intervention
 - Overcoming several functionality gaps in QTP
- We recommend making IEH and Integral part of your QTP Test Automation framework without incurring any incremental implementation cost to Project



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Q & A

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Thank You

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