

---

# SSISTProbe – A Data Extraction Test Automation Framework

## Automation Result Analysis User Guide

---

**Filename:** Automation Result Analysis Manual v1.01.doc  
**Revision:** V1.01  
**Last Save Date:** Sunday, March 02, 2008  
**Author(s):** Sathyan S Nair  
**Author Email:** [satnair@thoughtworks.com](mailto:satnair@thoughtworks.com) (OR) [Sathyan.s.nair@gmail.com](mailto:Sathyan.s.nair@gmail.com)  
**Read Only (public) Link:**

## Table of Contents

<b>SSISTProbe – A Data Extraction Test Automation .....</b>	<b>1</b>
<b>Framework.....</b>	<b>1</b>
<b>1. XML Automation Result Analysis User Guide .....</b>	<b>1</b>
<b>1.1. Nodes Definition .....</b>	<b>1</b>
<b>1.2. Quick Usage Notes .....</b>	<b>1</b>
<b>1.3. Troubleshooting Tips* .....</b>	<b>2</b>
<b>2. Text based Automation Result Analysis User Guide.....</b>	<b>4</b>

# 1. XML Automation Result Analysis User Guide

1. <LogInfo>
2. <LogMessage>
3. <Prepare\_OpportunityLocalAttribute>
4. <UserMessage>FunctionName =ExecuteTask; Excepted Result=; Arrived Result=Success  
;</UserMessage>
5. <DateTime>6/6/2007 8:14:29 AM</DateTime>
6. <UserMessage>FunctionName =VerifyTable; Excepted Result=0; Arrived Result=0 ;Testcase  
=Pass</UserMessage>
7. <DateTime>6/6/2007 8:14:30 AM</DateTime>
8. <UserMessage>FunctionName =ExecuteTask; Excepted Result=; Arrived Result=Failure  
;</UserMessage>
9. <DateTime>6/5/2007 11:55:43 PM</DateTime>
10. </Prepare\_OpportunityLocalAttribute>
11. </LogMessage>
12. <LogInfo>

## 1.1. Nodes Definition

<LogInfo>→ Root node is default node appended to log file

<LogMessage> → Log Message is default node appended to log file

<Prepare\_OpportunityLocalAttribute>→ user defined TestMethod Name Which added in Testcases xml file  
Will be logged for user easily identification.

In log file following nodes will give information about testcases execution

Note: → 1. In log file Test Method has set of user added function. If user added function executed successful  
following node will be log and function name also logged.

<UserMessage>FunctionName =ExecuteTask; Excepted Result=; Arrived Result=Success </UserMessage>  
In above FunctionName represents user added function node as ExecuteTask in testcases xml file.

Excepted Result→ represents if user add Result tag particular function node in testcases xml file .  
For Example:→ < ExecuteTask Result ="Fail">

Arrived Result= → represents executions success or fail or any value will be display.

## 1.2. Quick Usage Notes

- FunctionName=SrcExecQuery=====> Provides information about source execution. No information needs to be verified, becuz data will be compared in "CompareTables" function.
- FunctionName=tgtExecQuery=====> Provides information about target execution.No information needs to be verified, becuz data will be compared in "CompareTables" function.
- FunctionName=CompareTables=====> This is key one. Because this compares the data and find out any data related mismatch
- Also relevant log for comparetables would be found in a .txt file with the same filename of this XML file

- FunctionName=VerifyTable=====> This looks for table existence and returns pass. On any error it returns Fail.
- FunctionName=ExecuteTask=====> Returns the result of the specific task execution.
- FunctionName=CopyTable=====> Moves a table from one DB to another DB. No information needs to be verified. Just for logging purpose.
- **Quick Note:** Just to look for errors. Use a find (ctrl + F) and apply any of the words a) Mismatch b) Fail c) ErrorMessage
- **Note:** In the error information, Look for "(CSS)" where we would have provided that whether it is really an error (sometimes internally caused because of our validation queries which is acceptable and which would be manually verified. Also we would have provided the bug id if it is really an error.

### 1.3. Troubleshooting Tips\*

\* - Have provided some practical table names or DB names for examples. Not really there is an error.

ID	Error Message	Possible Reason
1.	<ErrorMessage>Function Name::VerifyTable Timeout expired. The timeout period elapsed prior to completion of the operation or the server is not responding.</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises due to SQL server throwing a connection timeout or server shut down.</li> <li>• Troubleshoot in SQL Server</li> </ul>
2.	<ErrorMessage>The process cannot access the file 'C:\CSSTesting\Log\MSSCreateFinalTableslog.xml' because it is being used by another process.</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises when file is used by another process and the automation COM library is trying to write message to the same log file.</li> <li>• To avoid this error, do not open the log file until the handle is released by the automation library</li> </ul>
3.	<ErrorMessage>Invalid object name 'sys.indexes'.</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises occurs, when the input table does not exist</li> </ul>
4.	<ErrorMessage>Column name 'xxxxxxx' does not exist in the target table or view. Could not create constraint. See previous errors.</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises when input specified columns are not available in the table.</li> <li>• Error rises when applying primary key</li> </ul>
5.	<ErrorMessage>Alter failed for Table "<TableName>" </ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises, when the user input contains some alter statement and during execution not able to alter. (OR)</li> <li>• The column specified in the primary key table does not exist or the automation library not able to alter the specified column to Primary Key</li> </ul>
6.	<ErrorMessage>CREATE UNIQUE INDEX terminated because a duplicate key was found for object name 'dbo.tgtCrtFITbIOppurtunitesData' and index name 'PK__tgtCrtFITbIOppur__4D6FF9CA'.	<ul style="list-style-type: none"> <li>• Rises, when the library tries to apply a primary key to a particular DB column in a table and that column contains duplicate values</li> </ul>

	The duplicate key value is (3690457, -1, 61). Could not create constraint. See previous errors. The statement has been terminated.</ErrorMessage>	
7.	<ErrorMessage>Object reference not set to an instance of an object.</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises, when the library tries to access a null value.</li> <li>• Possible reasons could be the input test case data provided could be wrong.</li> </ul>
8.	<ErrorMessage>Function Name TgtExecQueryError Invalid object name 'prdAPACIDS11.mso.SubRegion'.</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises, when input table name provided is wrong or table does not exist in the database</li> </ul>
9.	<ErrorMessage>Failed to connect to server .</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises, when the input DB name provided is wrong or DB does not exist</li> </ul>
10.	<ErrorMessage>Timeout expired. The timeout period elapsed prior to completion of the operation or the server is not responding.</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises, when Query time out error raised by SQL Server</li> </ul>
11.	<ErrorMessage>Function Name SrcMake ErrorA transport-level error has occurred when receiving results from the server. (provider: TCP Provider, error: 0 - The semaphore timeout period has expired.)</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises, when the network connection is not available.</li> <li>• Check for local area network connectivity</li> </ul>
12.	<ErrorMessage>Item has already been added. Key in dictionary: '#comment' Key being added: '#comment'</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises from the library hashtable reference</li> <li>• Possible causes, would be the same column name given multiple times in the input test case data</li> </ul>
13.	<ErrorMessage>Function Name::VerifyTable Input string was not in a correct format.Couldn't store &lt;Active&gt; in status Column. Expected type is Int32.</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises when the source and target column datatype has a difference and library was not able to convert the target column datatype to the source</li> </ul>
14.	<ErrorMessage>Function Name TgtExecQuery ErrorCould not allocate a new page for database 'ReportGeneratorT' because of insufficient disk space in filegroup 'PRIMARY'. Create the necessary space by dropping objects in the filegroup, adding additional files to the filegroup, or setting autogrowth on for existing files in the filegroup.</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises due to insufficient disk space in the SQL server</li> <li>• Check for server space</li> </ul>
15.	<ErrorMessage>FunctionName--&gt;CompareTables ---&gt;ErrMsg--&gt;columns count of source and target are not equal</ErrorMessage>	<ul style="list-style-type: none"> <li>• Rises when the source and column does not contain the same # of columns</li> <li>• Error only in the input validation query</li> </ul>

## 2. Text based Automation Result Analysis User Guide

\*\*\*\*\*

\*Manual for this Log:

\*

\*1. On any error the log file will contain information like

\* Table [ReportGeneratorT].[dbo].[src\_Final\_SDSInsAccountAttachment\_Cust] on sgprbuitsql03\test and Table [ReportGeneratorT].[dbo]. \*

[tgt\_Final\_SDSInsAccountAttachment\_Cust] on sgprbuitsql03\test have <<<<<3668>>>>> differences.

\*

\*2. Immediately look for (CSS) where we would have a provided a reason, if it is not a bug. If it is a bug, we would have provided the bug id.

\*

\*3. If there is no error, following would be return

\* Table [ReportGeneratorT].[dbo].[src\_Final\_SDSInsAccountAttachment\_Cust] on sgprbuitsql03\test and Table [ReportGeneratorT].[dbo]. \*

[tgt\_Final\_SDSInsAccountAttachment\_Cust] on sgprbuitsql03\test are identical.

\*

\*

\*\*\*\*\*

### Example Log Success:

Table [Table1] on sgprbuitsql03\test and Table [Table2] on sgprbuitsql03\test are identical.

The requested operation took 3.3123092 seconds.

### Example Log Failure(Data Error):

Table [Table1] on sgprbuitsql03\test and Table [Table2] on sgprbuitsql03\test have 1000 differences:

Err AccountAttachmentID (CSS) Bug Raised..ID 1652...(CSS)

Mismatch '11+13M-5L'

Mismatch '11+13M-5N'

The requested operation took 3.3123092 seconds.