## **AutoSys - SQL Server Implementation Test Plan**

Test Case Descriptor	Base Job Scheduling Validation
Test Case Description	The goal of this test is to validate that existing job scheduling functionality still exists in the new solution:  • Single Step jobs  • Multiple Step jobs  • Aborting
Pre-requisites	<ul> <li>AutoSys Event Processor must be installed and running.</li> <li>Agents must be installed on the other 2 systems</li> <li>SQL Server must be installed and running</li> </ul>

Step 1	<pre>Create a "single step" test Job that runs on an SQL Target Server:   insert_job: testjob1   command: sql_ad -T <target server=""> -J <sql jobname="">   machine: <localhost></localhost></sql></target></pre>			
Description	The function of this test is to check if the user is able to monitor a job through the AutoSys Console and execute it through the SQL Server Agent on the Target Server.			
Time Estimate	5 minutes Job Scheduler  Owner			
Start Date		Completion Date		
Expected Results	The job should run on the SQL server with verifiable results. The AutoSys Console should accurately track STARTING,RUNNING, SUCCESS, FAILURE and TERMINATED status.			
Test Results				
Comments				

Step 2	Create a "multiple step" test Job that runs on an SQL Target Server: insert_job: testjob2 command: sql_ad -T <target server=""> -J <sql jobname=""> machine: <localhost></localhost></sql></target>			
Description	The function of this test is to check if the user is able to monitor a "multiple step" job through the AutoSys Console and execute it through the SQL Server Agent on the Target Server			
Time Estimate	5 minutes Job Scheduler			
	Owner			
Start Date	Completion Date			
Expected Results	The job should run on the SQL server with verifiable results. The AutoSys			
•	Console should accurately track STARTING, RUNNING, SUCCESS,			
	FAILURE and TERMINATED status.			
Test Results				
Comments				

Step 3	<pre>Create a test Job that specifies the starting step. insert_job: testjob2 command: sql ad -T <target server=""> -J <sql jobname=""> -S</sql></target></pre>				
	<pre><name_of_step> machine: <localhost></localhost></name_of_step></pre>				
Description			is able to start a "multiple step"		
-	job through the AutoS	ys Console from a partic	ular step.		
Time Estimate	5 minutes Job Scheduler				
		Owner			
Start Date	Completion Date				
Expected Results	The job should begin execution from the specified step. Any steps defined prior to the specified starting step should not run. The job should run on the SQL server with verifiable results. The AutoSys Console should accurately track STARTING,RUNNING, SUCCESS, FAILURE and TERMINATED status.				
Test Results					
Comments					

	Stop a job			
			- aa-   1	
Step 4	- <del>-</del>	-T <target server=""></target>	-J <sql jobname=""> -C</sql>	
	STOP stop			
	Start the job	. Use the $sql_a$	ad command line to	
	stop.			
Description	This function tests wh	ether a user can stop a j	ob running on the SQL Target	
-	Server using the sql_a	Server using the sql adapter command line.		
Time Estimate	5 minutes Job Scheduler			
		Owner		
Start Date		Completion		
		Date		
Expected Results	The job should abort with a TERMINATED status in AutoSys Console.			
Test Results				
Comments				

Test Case Descriptor	SQL Adapter Error Checking and Reporting
Test Case Description	The goal of this test is to validate that the SQL Adapter accurately writes to log files and reports all errors.  • Standard output and Standard Error files specified  • Authentication and Permissions Checked  • Unavailable resources indicated
Pre-requisites	<ul> <li>AutoSys Event Processor must be installed and running.</li> <li>Agents must be installed</li> <li>SQL Server must be installed and running</li> </ul>

Step 1	Create a "single step" test Job with std_err and std_out defined insert_job: testjob1 command: sql_ad -T <target server=""> -J <sql jobname=""> machine: <localhost></localhost></sql></target>			
	std_file_out: <p std_file_err: <p< th=""><th></th><th></th></p<></p 			
Description	The function of this test is to check that the SQL Adapter accurately writes all job information to the specified files.			
Time Estimate	5 minutes Job Scheduler  Owner			
Start Date	Completion Date			
Expected Results	The job should run on the SQL server with verifiable results. The Standard output and Standard error files should exists in the specified paths. The information recorded should match the most recent job history recorded by the SQL Server Agent.			
Test Results				
Comments				

Step 2	Start an existing AutoSys job where the specified Target Server is not running. The SQL Server itself should be stopped.			
Description	The function of this test is to check if the SQL Adapter is able to detect if the SQL Server is unavailable.			
Time Estimate	5 minutes		Job Scheduler	
	Owner			
Start Date	Completion Date			
Expected Results	The adapter should return a FAILURE status and record the reason (Server not running) in the specified output and error files. The sql_ad process should exit gracefully.			
Test Results				
Comments				

Step 3	Create a test Job that specifies a job that is not currently defined in the SQL Server.  insert_job: testjob3  command: sql_ad -T <target server=""> -J <bad jobname=""> machine: <localhost></localhost></bad></target>		
	std_file_out: <p std file err: <p< th=""><th></th><th></th></p<></p 		
Description	The function of this test is to check if the SQL adapter is able to accurately determine and report if the specified job exists in the Target Server.		
Time Estimate	5 minutes Job Scheduler  Owner		
Start Date		Completion Date	
Expected Results	The adapter should return a FAILURE status and record the reason (Invalid Job name) in the specified output and error files. The sql_ad process should exit gracefully.		
Test Results			
Comments			

	Create a test Job tha	t specifies a job step that	t is not currently defined in the	
Step 5	SQL Server.		-	
,	insert_job: tes	tjob4		
	command: sql_ad -T <target server=""> -J <sql jobname=""> -S</sql></target>			
	<bad stepname=""></bad>			
	machine: <localh< th=""><th>ost&gt;</th><th></th></localh<>	ost>		
	std_file_out: <p< th=""><th>ath/filename&gt;</th><th></th></p<>	ath/filename>		
	std_file_err: <p< th=""><th>ath/filename&gt;</th><th></th></p<>	ath/filename>		
Description	The function of this test is to check if the SQL adapter is able to accurately			
-	determine and report	if the specified job step e	exists in the Target Server.	
Time Estimate	5 minutes			
	Owner			
Start Date		Completion		
		Date		
Expected Results	The adapter should return a FAILURE status and record the reason (Invalid			
	Job step name) in the specified output and error files. The sql_ad process			
	should exit gracefully.			
Test Results				
Comments				

Step 6	Start an AutoSys job where the specified SQL job is currently running on the Target Server. The job that runs for a significant amount of time should already be running on the server. The corresponding AutoSys job should be started through the AutoSys Console.				
Description			Adapter is able to detect if an		
Time Estimate	5 minutes	SQL Server job is already running.  5 minutes  Job Scheduler			
Time Estimate	3 minutes	Owner			
Start Date	Completion Date				
Expected Results	The adapter should return a FAILURE status and record the reason (Job is already running) in the specified output and error files. The sql_ad process should exit gracefully.				
Test Results	,				
Comments					

	Create a AutoSys user without permissions on the SQL Server.		
Step 7	·		
Description	The function of this test is to check if the SQL Adapter is able to determine and report if a use has permission to execute jobs on the Target Server.		
Time Estimate	5 minutes Job Scheduler		
		Owner	

Start Date		Completion	
		Date	
Expected Results	The adapter should return a FAILURE status and record the reason (Unauthorized user) in the specified output and error files. The sql_ad process should exit gracefully.		
Test Results		·	
Comments			

Step 8	Specify an incorrect Target Server on the sql_ad command line or in the SQL_config.txt file.		
Description	The function of this test is to check if the SQL Adapter is able to determine and report which servers are presently configured for use.		
Time Estimate	5 minutes	Owner	Job Scheduler
Start Date		Completion Date	
Expected Results	The adapter should return a FAILURE status and record the reason (Server not Found) in the specified output and error files. The sql_ad process should exit gracefully.		
Test Results			
Comments			

	Rename, Delete or Move the sql_ad SQL_config.txt file.		
Step 8			
Description	The function of this test is to check if the SQL Adapter is able to determine and report missing configuration file.		
Time Estimate	5 minutes		Job Scheduler
		Owner	
Start Date		Completion Date	
Expected Results	The adapter should return a FAILURE status and record the reason (Server not Found) in the specified output and error files. The sql_ad process should exit gracefully.		
Test Results			
Comments			