

ECI User Session Management, with auto log off for SL7

1. Upload Instructions

#	Action
1	Open Query Analyzer and run 1_UET.sql to the Application Database
2	Open Query Analyzer and run 2_Tables.sql to the Application Database
3	Open Query Analyzer and run 3_SP.sql to the Application Database
4	Open Query Analyzer and run 4_BGTask.sql to the Application Database
5	Open Query Analyzer and run 5_String.sql to the Form Database
6	Login to SL as Site Default and do a Copy Form From ItemCostingReport to ECI_UserSessionMgmt Login to SL as Site Default and do a Copy Form From ItemCostingReport to ECI_UpdateUserSession ** For License/Permission purpose since this new form is imported from a script
7	Open Query Analyzer and run 6_Forms_ECI_UserSessionMgmt.sql to the Form Database
8	Open Query Analyzer and run 7_Forms_ECI_UpdateUserSession.sql to the Form Database

2. Analysis/Notes

2.1. Requirements

To auto delete the User session in the ConnectionInformation table if the last user logon date time exceeds the allowable Idle Time.

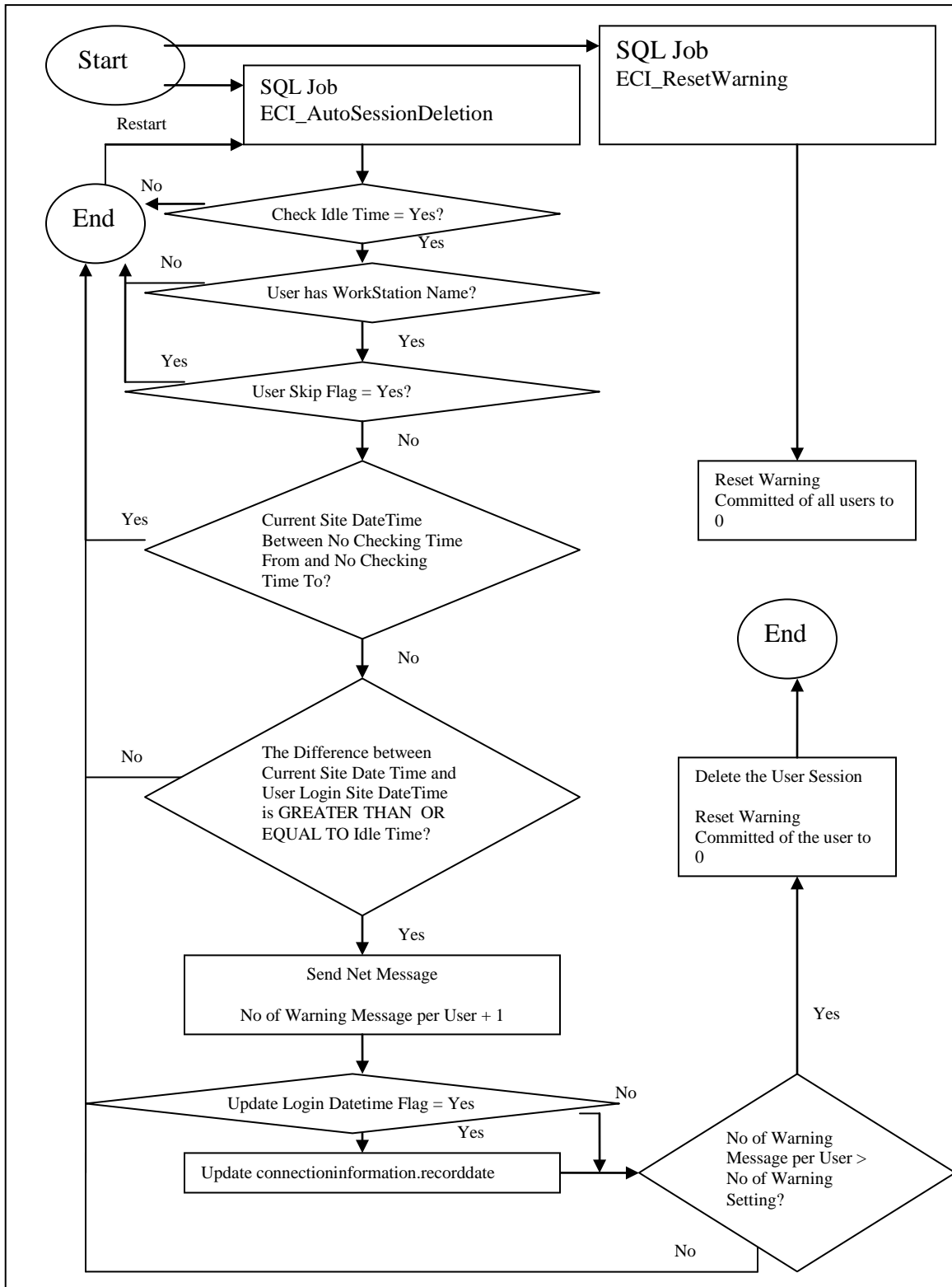
2.2. Recommendations

1. Create SQL Job ECI_AutoSessionDeletion using the Session Deletion Schedule Button. It is better to run this job every 5 mins or > 5 mins.
2. Create SQL Job ECI_ResetWarning using the Reset Warning Schedule Button. It is better to run this job after office hour.
3. **It is important to know that the Datetime used by Syteline for user login is not the system date but the Site Date. In order to know the Site Date, execute the following SELECT statement to the Application Database:**

```
SELECT dbo.GetSiteDate(GETDATE())
```

4. **However, the SQL Job will be executed using the System date time. SO don't be CONFUSED!!!**

2.3. Process flow



2.4. Screen Design

ECI User Session Management

Use this utility to turn ON or OFF the Auto-User Session Deletion process. Use the Skip All function to turn OFF the Auto Session Deletion of all users. Use the Skip None to turn ON the Auto Session Deletion of all users. Use the Reset Button to reset the Warning Committed back to Zero.

User Session Management Setup

Check Idle Time Currently Process [Y/N]

Number of Warning: Idle Time (Minute):

No Checking From (Hour-Military Time): No Checking To (Hour-Military Time):

No Checking From (Minute): No Checking To (Minute):

Net Send Message:

Update User Login Datetime after warning message?

User Level Overwrite

	User Name	Skip	Workstation	Warning Committed
1 >>	sa	<input type="checkbox"/>	EDY	0
2	service	<input type="checkbox"/>		0
3	SL_Internal	<input type="checkbox"/>		0
4	sym-ap	<input type="checkbox"/>		0
5	sym-ar	<input type="checkbox"/>		0
6	sym-co	<input type="checkbox"/>		0
7	sym-dc	<input type="checkbox"/>		0
8	sym-dcol	<input type="checkbox"/>		0
9	sym-ol	<input type="checkbox"/>		0

Login Users

	User Name	Login
1 >>	sa	12/24/2006 05:51:44 AM
2	ReplQListener	7/11/2006 09:59:46 PM
3	Replicator	7/11/2006 09:59:39 PM
4	ReplQListener	7/11/2006 09:59:46 PM

Audit Log

	Date	User Name
1 >>	12/23/2006 04:45:24 PM	sa

Filter

Starting: Ending:




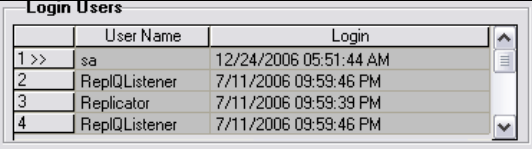
User Name:

Date:

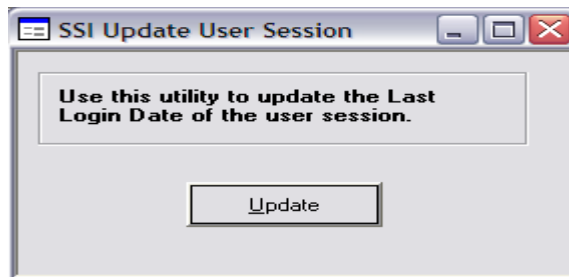
Component	Description	Remark
Refresh	Use this button to refresh the data of the following group: <ul style="list-style-type: none"> 1) User Session Management Setup 2) User Level Overwrite 3) Audit Log 	
Session Deletion Schedule	Use this button to create a SQL Job that will call a stored procedure to periodically check the login date time of the	Once you have created the SQL Job, if you want to create another SQL Job with different setting. Please manually delete any previous SQL Job for this

	user against the allowable idle time.	process. The name of the Job is ECI_AutoSessionDeletion
Reset Warning Schedule	Use this button to create a SQL Job that will clear the warning counter of the user. This Job is recommended to run after office hours or start of the day.	Once you have created the SQL Job, if you want to create another SQL Job with different setting. Please manually delete any previous SQL Job for this process. The name of the Job is ECI_ResetWarning
<input checked="" type="checkbox"/> Check Idle Time	If this is checked, the Auto User Session Deletion process will start once the SQL Job is started. Otherwise, Auto User Session Deletion will not start even if the SQL Job is started.	You can turn off the auto deletion functionality per user by using the Skip Flag in the User Level Overwrite Group of the same form.
Number of Warning: <input type="text" value="1"/>	This is the number of Net Send warning message that the user will receive. Once this is exceeded, the user session will be deleted automatically.	
No Checking From (Hour-Military Time): <input type="text" value="12"/>	This is the starting hour that the <u>auto user session deletion process</u> will be stopped.	Use Military Time, should be less than <u>No Checking To</u>
No Checking To (Hour-Military Time): <input type="text" value="13"/>	This is the ending hour that the <u>auto user session deletion process</u> will be stopped.	Use Military Time, should be greater than <u>No Checking From</u>
No Checking From (Minute): <input type="text" value="0"/>	This is the starting minute in conjunction to the starting hour that the <u>auto user session deletion process</u> will be stopped.	
No Checking To (Minute): <input type="text" value="0"/>	This is the ending minute in conjunction to the ending hour that the auto user session deletion process will be stopped.	
<input type="checkbox"/> Currently Process [Y/N]	If this checked box is checked, this means that the Auto User Session Deletion Process has started.	If the SQL Job ECI_AutoSessionDeletion is not processed properly, the system administrator can set this flag to ZERO/Unticked

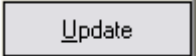
	This will be reset to 0 once the SQL JOB ECI_AutoSessionDeletion is done.	so that when the next SQL Job is triggered, the Auto User Session Deletion Process will proceed.
Idle Time (Minute): <input type="text" value="60"/>	This is the allowable Idle time.	If (Current Site Date time – Last Login Time) >= Idle Time, user will receive a NET SEND Warning message
Net Send Message: <div style="border: 1px solid gray; padding: 5px; width: fit-content;"> This is a warning message that you have not been using the system for a period of time. Your session will be automatically deleted. Please use SSI Refresh Session form to refresh your session. </div>	This is the warning message that the user will receive.	
<input type="checkbox"/> Update User Login Datetime after warning message?	If this is ticked, every time the user receives a warning message, the SQL Job will update the Last login date time of the user.	This is something like to refresh the starting point of the user login time. So that the next occurrence of checking the idle time will be the Current Site Date – last warning message received time and NOT the time when the user is login.
<input type="checkbox"/> Skip <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	This is the user level overwrite control. Once this is ticked, the user will not be affected by the auto user session deletion process.	
Workstation EDY 	This is the client workstation name used by SQL Server to issue a net send message in the form of “net send <workstation> <message>”	If the user has a blank workstation value, Auto User Session Deletion process will not be applicable to that particular user.
Warning Committed 0 0 n	This is the number of net send warning that the user has received.	System Administrator can use this to reset the warning counter of the user by updating the value of this column.
<input type="button" value="Skip All"/>	This will set the Skip field of all users to 1.	
<input type="button" value="Skip None"/>	This will set the Skip field of all users to 0.	
<input type="button" value="Reset"/>	This will set the warning counter of all	If the SQL Job to clean up the warning counter of the

	users to 0.	users is not working or the SQL Job ECI_ResetWarning has not been setup, the system administrator can use this button to Reset the warning counter of the users.
	Use this to filter the data for the Audit Log.	
	This is used to refresh the data of the Audit Log Grid. Use this together with the filtering fields.	
	This is used to delete the data of the Audit Log Grid. Use this together with the filtering fields.	
	Login column is the Login Date Time that the user uses SL7. This Login date time is based on the Site Date and not the System Date.	

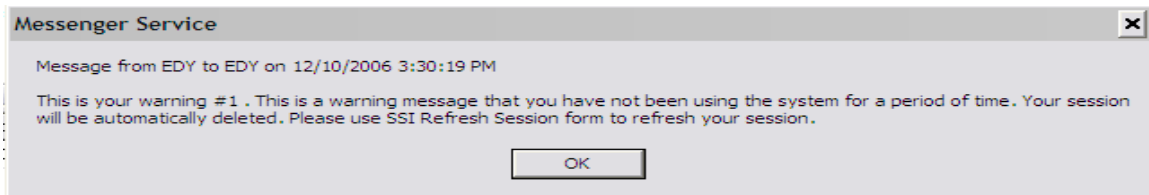
ECI Update User Session



Note: Put this form under the AutoRun folder so that this form is opened automatically and the user can access this form easily.

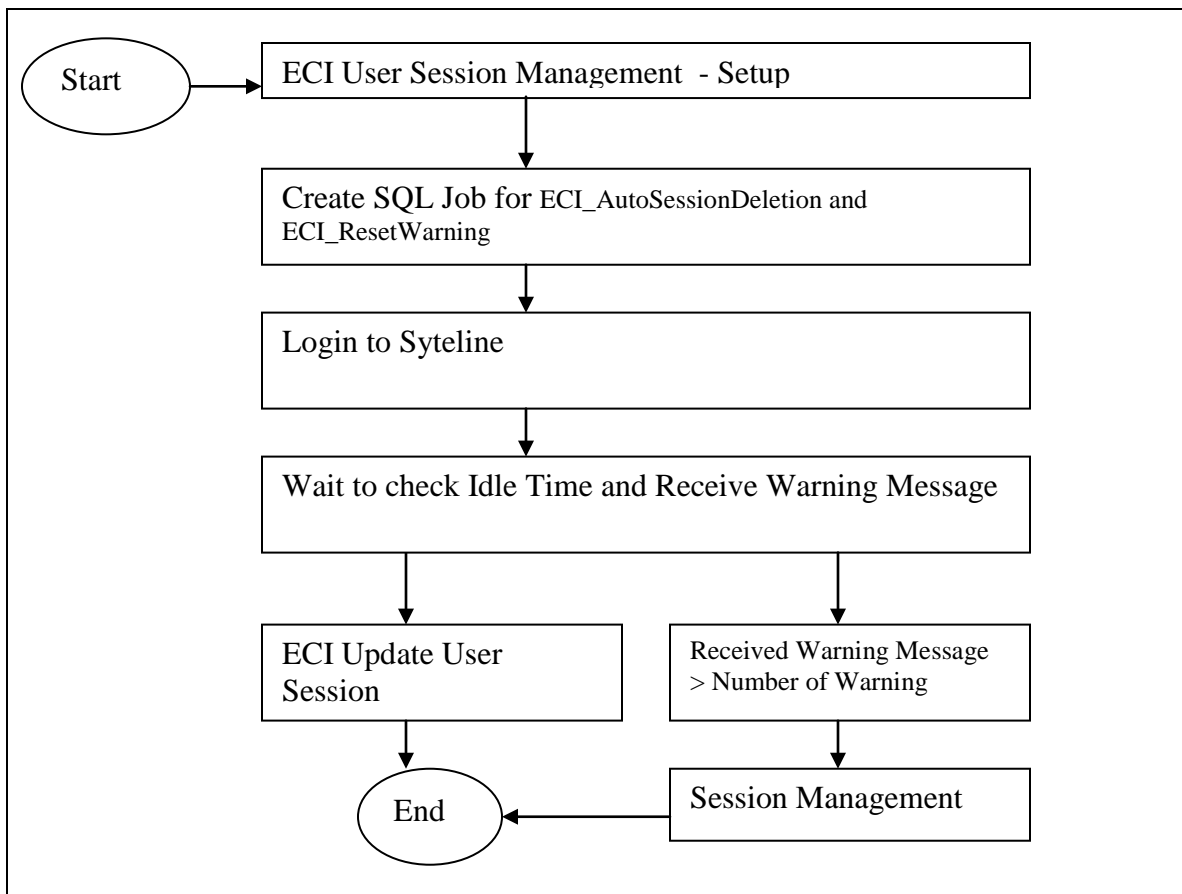
Component	Description	Remark
	This button will update the connection information record date. This button is used by the user whenever he/she has received the warning message via NET SEND saying that the maximum allowable idle time has exceeded.	

Sample Warning Message



3. Test Plan

3.1. Process flow



3.2. Data Setup

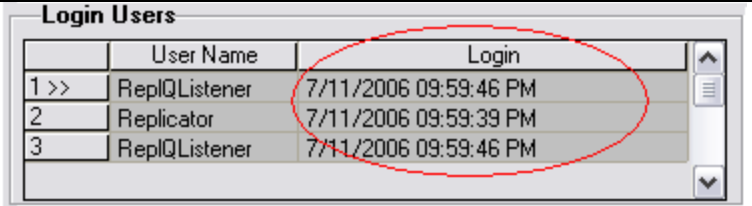
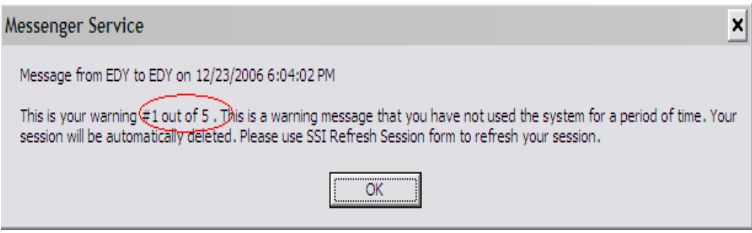
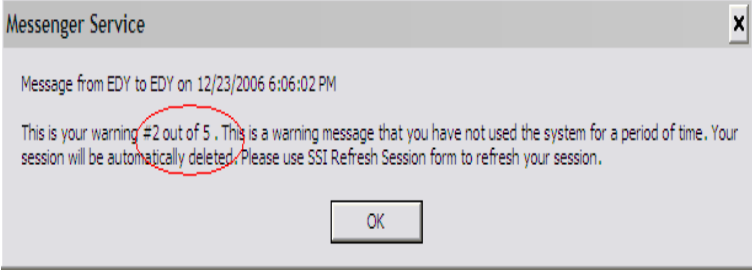
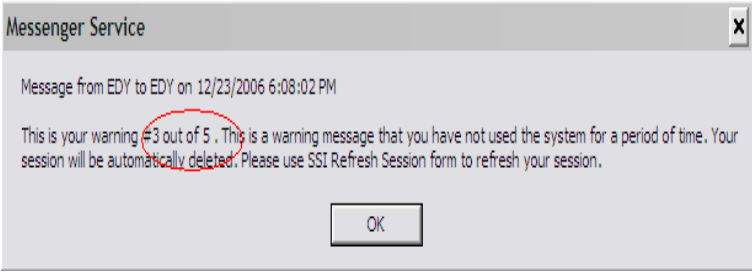
1. **Take note of the System Date** : Given : 4:10 PM – This will be the starting time of the testing. Changing the starting time should also change the time value of the succeeding sessions (See below).
2. Setup 2 Licensed users

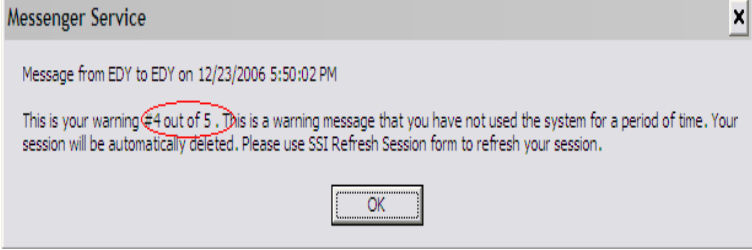
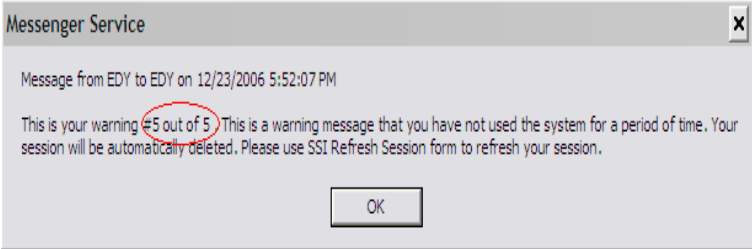
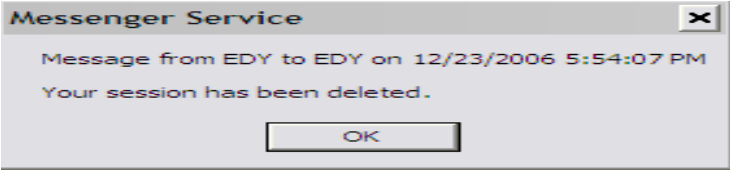
3.3. List of Test Cases/Scenarios

3.3.1. User Session Deletion using ECI_AutoSessionDeletion SQL Job

Step	Result
Login as Licensed User #1	
Open ECI_UserSessionMgmt form	
<p>Enter the following value:</p> <p><u>Check Idle Time</u> = ticked <u>Idle Time</u> = 1 minute</p> <p>If Current Site Datetime - Last Login time >= 1 minute, we would like to send a warning message to the user.</p> <p><u>Number of Warning</u> = 5 <u>No Checking From (Hour)</u> = 16 <u>No Checking To (Hour)</u> = 16 <u>No Checking From (Min)</u> = 30 <u>No Checking To (Min)</u> = 45</p> <p>We would like to skip the deletion process from 4 :30 PM to 4:45 PM</p> <p>Make sure that the setup should be finished 5 minutes before 4:30 PM so that we can see the effect of this modification.</p> <p><u>Net Send Message</u> : This is a warning message that you have not used the system for a period of time. Your session will be automatically deleted. Please use ECI Update User Session form to refresh your session.</p> <p>Update User Login Datetime After warning message? = ticked</p> <p>Click on the Save button at the toolbar.</p> <p><u>At the User Level Overwrite group section.</u></p> <p>Enter the workstation name for Licensed User #1 and Licensed User #2 (For this test case, it is possible that the workstation</p>	

<p>name for #1 and #2 are both the same)</p> <p>Look for Licensed User #2, set the Skip Flag to Yes and click on the Save button. So that we can have a user that can refresh the ECI_UserSessionMgmt form <i>(without worrying that User #2 will be kicked out by the SQL Job)</i> to see the value of Warning Committed at the User Level Overwrite section.</p>	
<p>Click on the Session Deletion Schedule button</p>	<p>Background Queue Modal form shows up</p>
<p>Enter the following values:</p> <p>Frequency : Daily</p> <p>Select the Every option on the Daily Tab</p> <p>Enter 5 Minute(s)</p> <p>Starting Time 4: 20 PM</p> <p>Ending Time 5:00 PM</p> <p>Click OK</p>	<p>Message : Process Submitted.</p> <p>Go to SQL Enterprise Manager and check on the list of SQL Jobs, ECI_AutoSessionDeletion has been added to the list.</p>
<p>Click on the Reset Warning Schedule button</p>	
<p>Enter the following values:</p> <p>Frequency : Daily</p> <p>Select the Every option on the Daily Tab</p> <p>Enter 24 Hours</p> <p>Starting Time 5: 00 PM (Off Office Hours)</p> <p>Ending Time 10:00 PM</p> <p>Click OK</p>	<p>Message : Process Submitted.</p> <p>Go to SQL Enterprise Manager and check on the list of SQL Jobs, ECI_Reset_Warning has been added to the list.</p>
<p>Exit SL (2 minutes before 4:20 PM) as licensed user #1</p>	
<p>Login to SL (2 minutes before 4:20 PM) as licensed user # 1.</p>	
<p>Login to SL (2 minutes before 4:20 PM) as licensed user # 2.</p>	<p>For Licensed User #2, Open ECI_UserSessionMgmt Form</p> <p>Take note of the Login time of licensed user #1 at the Login Users Group</p>

	 <table border="1"> <thead> <tr> <th></th> <th>User Name</th> <th>Login</th> </tr> </thead> <tbody> <tr> <td>1 >></td> <td>ReplQListener</td> <td>7/11/2006 09:59:46 PM</td> </tr> <tr> <td>2</td> <td>Replicator</td> <td>7/11/2006 09:59:39 PM</td> </tr> <tr> <td>3</td> <td>ReplQListener</td> <td>7/11/2006 09:59:46 PM</td> </tr> </tbody> </table>		User Name	Login	1 >>	ReplQListener	7/11/2006 09:59:46 PM	2	Replicator	7/11/2006 09:59:39 PM	3	ReplQListener	7/11/2006 09:59:46 PM
	User Name	Login											
1 >>	ReplQListener	7/11/2006 09:59:46 PM											
2	Replicator	7/11/2006 09:59:39 PM											
3	ReplQListener	7/11/2006 09:59:46 PM											
<p>Wait after 5 to 6 minutes after 4:20 PM</p>	<p>A Warning Message shows up.</p>  <p>Refresh ECI_UserSessionMgmt Form- licensed user #2, you will see at the Warning Committed grid column of licensed user #1, the value is 1 and the Login value has been updated.</p>												
<p>From 4:30 PM to 4:45 PM</p>	<p>There will be no warning message even the SQL Job is triggered to run because the No Checking Time is set to 4:30 PM to 4:45 PM.</p>												
<p>4:46 PM onwards</p>	<p>Warning Message shows up for every 5 minutes (Rough estimate). The reason for 5 minutes is because our SQL Job is triggered to run for every 5 minutes. See previous steps on how to setup the SQL Job ECI_AutoSessionDeletion by using the Session Deletion Schedule Button</p>  												

	  <p>Refresh ECI_UserSessionMgmt Form- licensed user #2, you will see at the Warning Committed grid column of licensed user #1, the value is 5 and the Login value has been updated.</p>
After 5 Warning Messages	<p>Your session has been deleted by the SQL Job.</p>  <p>Run SELECT * from ConnectionInformation to the Application Database, the licensed user #1 is not in the result set.</p>
There will be no more warning messages when the about popup message is shown.	Refresh ECI_UserSessionMgmt Form- licensed user #2, the Warning Committed of licensed user #1 = 0

3.3.2. Reset Warning Committed using ECI_ResetWarning SQL Job

Step	Result
For this test case, the starting time will be 5:30 PM – if you use another setting, make sure you need to change the time values in the succeeding steps accordingly.	
Go to SQL Enterprise Manager and delete the two SQL Jobs for this modification.	

Based on the result of Test Case 4.3.1. Login as Licensed User #1 and Licensed User #2	Two Syteline Applications are opened on the same workstation.
For Licensed User #2 Open the ECI_UserSessionMgmt form	
Click on the Session Deletion Schedule button	Background Queue Modal form shows up
Enter the following values: Frequency : Daily Select the Every option on the Daily Tab Enter 5 Minute(s) Starting Time 1: 00 PM Ending Time 7:00 PM Click OK	Message : Process Submitted. Go to SQL Enterprise Manager and check on the list of SQL Jobs, ECI_AutoSessionDeletion has been added to the list.
Click on the Reset Warning Schedule button	
Enter the following values: Frequency : Daily Select the Every option on the Daily Tab Enter 24 Hours Starting Time 5: 45 PM (Off Office Hours) Ending Time 10:00 PM Click OK	Message : Process Submitted. Go to SQL Enterprise Manager and check on the list of SQL Jobs, ECI_Reset_Warning has been added to the list.
Wait until the first warning message for licensed user #1 shows up before 5:45 PM	For Licensed User #2, try to refresh the ECI_UserSessionMgmt form and you will see the Warning committed for Licensed User #1 = 1
When the first warning message shows up, wait until 5:45 or later	For Licensed User #2, try to refresh the ECI_UserSessionMgmt form at 5:45 PM or later and you will see the Warning Committed for Licensed User #1 = 0

3.3.3. Reset Warning Committed using ECI Update User Session/ECI_UpdateUserSession form

Step	Result
For this test case, the starting time will be 6:00 PM – if you use another setting, make sure you need to change the time values in the succeeding steps accordingly.	
Go to SQL Enterprise Manager and delete the two SQL Jobs for	

this modification.	
Based on the result of Test Case 4.3.1. Login as Licensed User #1 and Licensed User #2	Two Syteline Applications are opened.
For Licensed User #2 Open the ECI_UserSessionMgmt form	
Click on the Session Deletion Schedule button	Background Queue Modal form shows up
Enter the following values: Frequency : Daily Select the Every option on the Daily Tab Enter 5 Minute(s) Starting Time 1: 00 PM Ending Time 7:00 PM Click OK	Message : Process Submitted. Go to SQL Enterprise Manager and check on the list of SQL Jobs, ECI_AutoSessionDeletion has been added to the list.
Wait until the first warning message for licensed user #1 shows up before 6:15 PM	For Licensed User #2, try to refresh the ECI_UserSessionMgmt form and you will see the Warning committed for Licensed User #1 = 1
When the first warning message shows up For Licensed User #1 Open the ECI Update User Session/ECI_UpdateUserSession form	
Click on the Update button	Message: Session Updated. For Licensed User #2, try to refresh the ECI_UserSessionMgmt form and you will see the Warning committed for Licensed User #1 = 0 and the Login column at the User Logins group has been updated by the SQL Job.