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# Abbreviations and Terminology

Following is a list of commonly-used abbreviations and terminology.

<table>
<thead>
<tr>
<th>Abbreviation or Terminology</th>
<th>Full Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Console</td>
<td>ESSO-LM Administrative Console</td>
</tr>
<tr>
<td>Agent</td>
<td>ESSO-LM Logon Manager Agent</td>
</tr>
<tr>
<td>FTU</td>
<td>First Time Use Wizard</td>
</tr>
<tr>
<td>ESSO-AM</td>
<td>Oracle Enterprise Single Sign-on Authentication Manager</td>
</tr>
<tr>
<td>ESSO-PG</td>
<td>Oracle Enterprise Single Sign-on Provisioning Gateway</td>
</tr>
<tr>
<td>ESSO-KM</td>
<td>Oracle Enterprise Single Sign-on Kiosk Manager</td>
</tr>
<tr>
<td>ESSO-LM</td>
<td>Oracle Enterprise Single Sign-on</td>
</tr>
<tr>
<td>ESSO-PR</td>
<td>Oracle Enterprise Single Sign-on Password Reset</td>
</tr>
</tbody>
</table>
About ESSO-KM

Oracle Enterprise Single Sign-on Kiosk Manager (ESSO-KM) delivers a secure, easy to use and easy to administer solution that addresses the needs of traditional Single Sign-On in a kiosk environment. ESSO-KM has a client-side agent that suspends or closes inactive sessions and seamlessly shuts down all applications. This solution provides user identification to the kiosk by prompting users to log on with a Windows password or any supported primary authenticator.

Note: Many sections in this document reference settings in the ESSO-LM Administrative Console. For more information on using the Administrative Console, refer to the ESSO-LM Administrative Console Help.

The following topics are covered in this guide:

- Events and Actions
- About the Desktop Manager
- Customizing the Desktop Manager
- Desktop Status Window
- Transparent Screen Lock
- Bypassing the Agent
- Closing the Agent
- Events and Audit Logs
- Set up a Trust
- Authenticating to ESSO-KM with ESSO-AM
- Configuring Smart Card Removal
- Linking to ESSO-PR
- Command Line Options
- .NET API
- Best Practices
Events and Actions

The following overview describes ESSO-KM session functionality.

Types of Events

ESSO-KM can be configured such that actions can be performed by any combination of the events below for all types of authenticators supported by ESSO-LM:

- After Session Unlocked
- AM Device In
- AM Device Out
- AM Grace Period
- Authenticator Logon
- Authenticator Timeout
- Before Session Unlocked
- Cached Credential Session Start
- Session End
- Session Locked
- Session Start
- Timer Expired
- Transparent Screen Displayed
- Transparent Screen Hidden
- User Change

Events and Action Lists

Based upon the above events, ESSO-KM can run a specified terminate list, launch a custom task (.NET application or script) through a run list, or specify a special action:

- **Terminate list.** A list of applications to be closed by ESSO-KM on a specified event. (Previously known as black lists or applications to close on session end.)
- **Run list.** Either a .NET API to call or a script of command lines to be executed by ESSO-KM on a specified event.
- **Special actions list.** Special action lists specify how to handle application windows, such as the positioning of the application and the order that this application has actions performed on it.
Configuring Events and Action Lists

These features are configured through the ESSO-LM Administrative Console under Kiosk Manager > Actions and Session States:

- An Action tells ESSO-KM to do something, such as call a .NET method or terminate a specific application.
- Session States are a list of events, authenticators, and security settings to associate with actions. For example, a defined session state can instruct ESSO-KM that when a session ends, perform this list of actions.

See the following sections for instructions on how to:

- Create an Action List
- Create a Session State
Create an Action List

An action tells ESSO-KM to do something, such as call a .NET method or terminate a specific application.

To create an action list:

1. Open the ESSO-LM Administrative Console.
2. In the left pane, click Kiosk Manager.
3. Click Actions.
4. Click Create.

5. Select the **List Type** and enter a **Name**. Click OK when complete. The three types of actions lists are:
   - **Terminate lists**
     Terminate lists are a list of applications to be closed by ESSO-KM on session end.
   - **Run lists**
     Run lists are either a .Net API to call or a script of command lines to be executed by ESSO-KM.
   - **Special Actions lists**
     Special Action lists specify how to handle application windows, such as the positioning of the application and the order that this application has actions performed on it.

**Note:** For more information, refer to the specific list section for complete instructions on creating all lists.
You can also create an action list by:

1. In the left pane, click **Kiosk Manager**.
2. Click **Session States**.
3. Select a Session State and click the **Actions** tab.
4. Click **Create**.

**Terminate List**

Terminate lists are used to specify applications to be closed by ESSO-KM on session end.

1. In the left pane, click **Kiosk Manager > Actions**.
2. Click on any Terminate List.
### Controls

<table>
<thead>
<tr>
<th>AppPath Keys</th>
<th>The Windows registry key identifying an application associated with this logon to match against running processes. (Usually the application executable's name, such as Notepad.exe)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Window Titles</td>
<td>Text matched against logon window titles to identify logon requests.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Process Termination Type</th>
<th>Select the methods of termination for applications to be closed on session end:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- <strong>Keystroke Sequence</strong></td>
</tr>
<tr>
<td></td>
<td>- <strong>.Net SendKeys</strong></td>
</tr>
<tr>
<td></td>
<td>- <strong>SendKeys</strong>: Configure fields by transmitting a keystroke series to the form.</td>
</tr>
<tr>
<td></td>
<td>- <strong>SendKeys using Journal Hooks</strong>: Configure fields by transmitting a keystroke series to the form using Journal Hooks.</td>
</tr>
<tr>
<td></td>
<td>Click <strong>Edit</strong> to enter or change the series.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: Sendkeys is not a reliable method and therefore not guaranteed to work as expected. It is recommended that you do not use sendkeys.</td>
</tr>
</tbody>
</table>

| Disabled                | Select this checkbox to disable this list. Disabling a list allows you to retain the settings in a list without deleting the original list. This way you can still refer to the settings and use them with other lists. |

### Configuring an Application

1. Under the AppPath Keys box, click **Add**. The Process Path Key dialog box displays.  
2. Enter a valid application key (usually the application executable's name, such as Notepad.exe). Click **OK**.  
3. The application has been added to the list of applications to close on session end. ESSO-KM will terminate these applications when a session ends.  
4. Use the **Edit** and **Delete** buttons to modify or remove applications from this list.  
5. In the Window Titles box, click **Add**. The Windows Title dialog box appears.  
6. Enter a valid windows title. Click **OK**.  

### Specifying a Window Title for Matching

1. Enter (or edit) the exact Window Title.  
2. Click **OK**.
Run List

Run lists are used to define either a .Net API to call or a script of command lines to be executed by ESSO-KM.

1. In the left pane, click **Kiosk Manager > Actions**.
2. Select a Run list.
## Commands

Select a **.Net API** or **Script** command to run:

<table>
<thead>
<tr>
<th>.Net API</th>
<th>Assembly</th>
<th>Click the &quot;...&quot; to locate the .Net assembly to use. The assembly loads.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>Select a .Net class using the drop-down box. The .Net classes listed will be those that are available in the selected assembly.</td>
<td></td>
</tr>
<tr>
<td>Method</td>
<td>Select a method to call using the drop-down box. The .Net methods listed will be those that are available in the selected class. The method will be limited to the following signature and will not take any parameters or return any values: void MethodName(); Unlike the script, processing will not continue until the method returns.</td>
<td></td>
</tr>
</tbody>
</table>

**Click here to see a sample .Net API.**

**Note:** .Net API calls are synchronous (ESSO-KM will wait for the call to complete).

<table>
<thead>
<tr>
<th>Script</th>
<th>Enter a command line script for ESSO-KM to execute. If this list contains multiple commands, each line starts without waiting for the previous task to terminate or checking the previous task’s return code.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note:</td>
<td>Command line calls are asynchronous (run in parallel to other tasks including ESSO-KM).</td>
</tr>
</tbody>
</table>

| Disabled | Select this checkbox to disable this list. Disabling a list allows you to retain the settings in a list without deleting the original list. This way you can still refer to the settings, and copy them to other lists, etc. |
Special Actions List

Special action lists are used to specify how to handle application windows, such as the positioning of the application and the order that this application has these actions performed on it.

If an application window does not appear in a special actions list, it will be hidden.

1. In the left pane, click **Kiosk Manager > Actions**.
2. Click on any Special Actions List.
**Controls**

<table>
<thead>
<tr>
<th><strong>AppPath Keys</strong></th>
<th>The Windows registry key identifying an application associated with this logon to match against running processes. (Usually the application executable's name, such as Notepad.exe)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Window Titles</strong></td>
<td>Text matched against logon window titles to identify logon requests.</td>
</tr>
</tbody>
</table>
| **Reposition Application** | This setting and those below it allow you to specify the position of the application. The state of this checkbox determines if the actions listed below it will be applied to the application window.  
**Options:**  
- Maximize  
- Minimize  
- Restore  
- Move to. Enter the coordinates for the applications position.  
- Resize. Enter the width and height for the applications position. |
| **Sort Order** | This setting determines the order in which special actions are executed. This ensures that windows which are brought to the foreground can be in a specific order with a preferred window displayed on top when multiple windows are repositioned. |
| **Bring to foreground** | This setting ensures that the application window is always first in the application windows order. |
| **Shared application** | Check this box to enable an application to be shared among user sessions. For example, if "Notepad.exe" is designated as a shared application, if user1 opens a document in notepad and then locks the session, notepad will be running when user2 starts a session. If user2 then closes notepad and locks their session, notepad will no longer be running when user1 logs back on. |
| **Disabled** | Select this checkbox to disable this list. Disabling a list allows you to retain the settings in a list without deleting the original list. This way you can still refer to the settings and use them with other lists. |

**Configuring an Application**

1. Under the AppPath Keys box, click **Add**. The Process Path Key dialog box displays.
2. Enter a valid application key (usually the application executable's name, such as Notepad.exe). Click **OK**.
3. Use the **Edit** and **Delete** buttons to modify or remove applications from this list.
4. In the Window Titles box, click **Add**. The Windows Title dialog box appears.
5. Enter a valid windows title. Click **OK**.
Specifying a Window Title for Matching

1. Enter (or edit) the exact Window Title.
2. Click OK.
Create a Session State

A Session State is a list of events, authenticators, and security settings to associate with actions. For example, a defined Session State can instruct ESSO-KM to perform this list of actions upon session end.

To create a session state:

1. Open the ESSO-LM Administrative Console.
2. In the left pane, click Kiosk Manager.
3. Click Session States.
4. Click Create.
5. Type a Session State Name and click OK.
6. The new Session State is created. Each Session State has four tabs associated with it:
   - Events tab
   - Authenticators tab
   - Actions tab
   - Security tab
Kiosk Manager > Session States > Events tab

The Events tab contains a list of all the possible events that ESSO-KM can respond to and the option to add custom events. Each listed event has a checkbox next to it that when checked indicates that the associated action lists should be executed when this event occurs. When a new session state is created, Session End is checked by default.

There are two ways to create events:

1. Select the pre-defined events for this session state

2. Create your own custom events by clicking the Add button. Use the Edit button to edit the custom event name and the Delete button to delete a custom event.

Pre-defined events are:
Select Predefined Event

- **After Session Unlocked**
  This event runs when the user unlocks their session after authentication has taken place. If an authentication is canceled, this event will not be triggered.

- **AM Device In**
  This event is triggered when the ESSO-LM device monitor is enabled and a monitored authenticator is detected (for example, a smart card is inserted or a biometrics device is in range).

- **AM Device Out**
  This event is triggered when the ESSO-LM device monitor is enabled and a monitored authenticator is detected (e.g., a smart card is removed or a biometric goes out of range).
  This event will only be triggered when:
  - A session is open or locked
  - A "Device-In" event started the session

- **AM Grace Period**
  This event is triggered if an authenticator which uses a grace period function (for example, Xyloc proximity badges) is being used and a user returns to an open session within the grace period.

- **Authenticator Logon**
  This event is triggered when an authenticator has accepted a logon. For example, the correct PIN for a smart card is entered.

- **Authenticator Timeout**
  This event is triggered when the ESSO-LM internal timer has expired.

- **Before Session Unlocked**
  This event is triggered when a user unlocks their session but before authentication takes place.

- **Cached Credential Session Start**
  This event is triggered when a session is started and the user has cached credentials stored on the local computer.

- **Session End**
  This event is triggered when the session ends and the timer expires, or when another user starts a session.

- **Session Locked**
  This event is triggered when a session is locked.

- **Session Start**
  This event is triggered when a user starts a new session.

- **Timer Expired**
  This event is triggered when the locked session timer has reached 00:00:00.

- **Transparent Screen Displayed**
  This event is triggered when the transparent lock initiates and the screen is visible to the user in locked mode.

- **Transparent Screen Hidden**
  This event is triggered when the transparent lock is hidden.
- **User Change**
  This event is triggered when a user logs into ESSO-KM. This event sets two properties on the .Net object if they exist (If the properties do not exist, nothing happens):
  - **UserName**. The sync user name.
  - **DomainName**. The sync domain name.

**Note:** ESSO-AM events run when the authenticator sends a message to ESSO-KM indicating the event type.

**Add Custom Event**

To add a custom event, click the **Add** button on the **Events** tab. The Custom Event dialog box opens:

1. Type an **Event Name**. This is the event name that displays.
2. Enter an **Event Value**. An external application generates the custom event, sending a message to the ESSO-KM hidden window. The value is the custom value that the other application sends.
3. Click **OK**. The custom event is created.
Kiosk Manager > Session States > Authenticators tab

The Authenticators tab contains a list of all the authenticators that ESSO-LM supports as well as the option to add a custom authenticator.

Each authenticator has a checkbox next to it that when checked indicates if the associated action lists should be executed when the selected events occur and the selected authenticator was used to authenticate the user.

When a new session state is created, all authenticators are checked by default.

There are two ways to select authenticators:

1. Create your own custom authenticator by clicking the Add button. Use the Edit button to edit the custom event authenticator and the Delete button to delete a custom authenticator.

2. Select the pre-defined authenticator for this session state. Available authenticator are:
   - Authentication Manager
   - Entrust
   - LDAP
   - LDAP v2
   - Proximity Card
   - Read-Only Smart Card
   - SAFLINK SAFAuthenticator
   - SecurID
   - Smart Card
   - Sphinx
   - XylocAuth

Note: ESSO-KM does not support Windows Logon or Windows Logon v2.

Add Custom Authenticator

Custom authenticators allow you to filter events based on that authenticator. To add a custom authenticator, click the Add button on the Authenticators tab. This opens the Custom Authenticator dialog box:
1. Type an **Authenticator Name**. This is the authenticator name that displays.
2. Enter an **Authenticator Value**. The authenticator value is the name that the authenticator is known by within the code. This name comes from the authenticator itself. For example, the value for Smart Card is SCAuth.
3. Click **OK**.

**Kiosk Manager > Session States > Actions tab**

The **Actions** tab contains a list of all the actions associated with a specific session state. This list will be empty for newly created session states. After actions are associated with the session state, they will be listed in this tab.

Use this tab to create, associate, edit and delete actions.
• To define a new action list, click Create. If a new action is created from this tab, it is automatically added to this session state.

• To associate a defined action with this session state, click Associate and select an action from the list.

• To make changes to an action, highlight it and click Edit.

• To delete an action from a session state, click Delete. This deletes the action only from the current session state, not the actions list.

**Associate Actions**

Use the Select Actions dialog box to select one or more actions to associate to this session state.

![Select Actions Dialog Box](image)

Select the actions to add to this session state (use Ctrl+click, or Shift+click to select multiple entries). Click OK.

**Note:** If actions are associated with this session state, and you are adding new actions, ALL actions need to be re-selected, otherwise the list of actions will be replaced with the newly selected actions.
Kiosk Manager > Session States > Security Tab

Use the **Security** tab to set the access rights for this session state. You can assign access rights to these items:

- Application logons (including associated credential sharing groups)
- Password generation policies
- Global agent settings
- Passphrase question sets

**Note:** The security tab will only show up if Role/Group security is enabled.

<table>
<thead>
<tr>
<th>Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Directory</strong></td>
</tr>
<tr>
<td><strong>Access information</strong></td>
</tr>
<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td><strong>ID</strong></td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td><strong>Access</strong></td>
</tr>
</tbody>
</table>

**Actions**

<table>
<thead>
<tr>
<th>Copy Permissions to</th>
<th>Use this button to easily apply the security rights for the current application to multiple applications. Clicking this button displays a dialog listing all the applications. Select the applications that you want these security rights to be copied to. Use <strong>Ctrl+click</strong> to select multiple entries. Click <strong>OK</strong>.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Displays the Add User or Group dialog box (for LDAP or Active Directory) to select the users or groups who should have access to the currently selected session state.</td>
</tr>
<tr>
<td>Remove</td>
<td>Removes selected user(s) or group(s) from the list. Select a user or group to remove; use <strong>Ctrl+click</strong> or <strong>Shift+click</strong> to select multiple entries.</td>
</tr>
</tbody>
</table>
About Desktop Manager

The Desktop Manager is the logon dialog that manages the ESSO-KM sessions on the kiosk. End users can start and unlock sessions from this dialog. Administrators can terminate sessions, shut down the computer, restart the computer and exit ESSO-KM.

**Note:** The Desktop Manager is configured through the ESSO-LM Administrative Console on the Global Agent Settings > Kiosk Manager panel. Refer to the ESSO-KM Installation and Setup Guide or the ESSO-LM Administrative Console help for more information.

Administration Menu

The **Administration** menu is located on the top of the Desktop Manager.
The settings that are used to configure this menu are:

- **Restart Computer.** Options are **Disable, Enable, or Administrator must supply password.** Default is disable.
- **Shutdown Computer.** Options are **Disable, Enable, or Administrator must supply password.** Default is disable.
- **Allow administrator to close ESSO-KM.** Options are **Yes or No.** Default is yes. This setting controls the Exit Oracle Enterprise Single Sign-on Kiosk Manager option and the X in the title bar.

| Note: | If the Kiosk account does not have sufficient privileges, the Restart Computer and Shutdown Computer options may not work even if they are disabled. |

**Open Sessions (Multi-Sessions)**

The Desktop Manager includes a list that displays all open sessions. Multiple sessions can be running at one time. There is no maximum amount of sessions. To configure the number of open sessions allowed:

1. Open the ESSO-LM Administrative Console, expand **Global Agent Settings > Kiosk Manager.**
2. Locate the **Maximum number of sessions** setting.
3. Set this value to the number of sessions allowed. There is no maximum. The default is 1.

A large number of open sessions at one time can cause memory to run low. Track memory consumption provides a way to set a threshold to close locked sessions when memory conditions are low.

To configure this feature:

1. Open the ESSO-LM Administrative Console, expand **Global Agent Settings > Kiosk Manager.**
2. Locate the **Track Memory Consumption** setting.
3. Set this value as necessary. Default is 90%. Minimum = 0 (disabled) and maximum = 100.

When system memory use has reached the percentage as set by this value, ESSO-KM will automatically close oldest user sessions.
Terminate Sessions

Administrators can terminate ESSO-KM user sessions from the Desktop Manager by clicking **Terminate Sessions** from the **Administration** menu. This menu option is not configurable.

When clicked, the Authenticate as Administrator dialog appears prompting the administrator to enter administrative credentials before performing this action.

![Authenticate as Administrator dialog](image)

Once credentials are entered, the Terminate Sessions dialog appears.

![Terminate Sessions dialog](image)

Only one session can be selected at a time. **Cancel** and the X close this dialog.
Customizing the Desktop Manager

The Desktop Manager can be customized in the following ways:

- Add a custom text message around the logon dialog
- Upload a background image around the logon dialog
- Replace the Oracle and ESSO-KM logo banner on the logon dialog

You may choose to display a company logo as the background image, or an important custom text message to inform your users of any important information.

This section provides instructions and examples to help you control the positioning and appearance of the background image and text message, as well as an example. It also provides instructions on how to replace the logon dialog logo banner.

**Note:** The Desktop Manager customization is configured through the ESSO-LM Administrative Console on the Global Agent Settings > Kiosk Manager > Desktop > Background Image and Text Message panels.

Customizing the Text Message

ESSO-KM provides the ability to insert a custom text message on the Desktop Manager. This feature can be used to inform your users of any important information.

To configure the Administrative Settings for Desktop Manager text message:

1. Open the ESSO-LM Administrative Console.
2. Navigate to Global Agent Settings > Live > Kiosk Manager > Desktop > Text Message.
<table>
<thead>
<tr>
<th><strong>Text Message</strong></th>
<th>Message text to provide on the ESSO-KM Desktop Manager. This message will be displayed when the Desktop Manager is active.</th>
</tr>
</thead>
</table>
| **Text Message Autosize** | *This setting is new as of version 10.1.4.1.0.*  
Select whether the text message should be auto-sized. This setting automatically sets the size of the control based on the size of the message.  
**Options:**  
- Yes  
- No |
| **Text Message Color Background** | Click the ellipses ... button to select the background color for the text message. |
| **Text Message Color Foreground** | Click the ellipses ... button to select the foreground color for the text message. |
| **Text Message Font Name** | The font that the text message will display in. Select a font from the drop-down list. |
| **Text Message Font Size** | The font size the text message will display in. |
| **Text Message Font Style** | The font style the text message will display in.  
**Options:**  
- Regular  
- Bold  
- Italic |
| **Text Message height (in pixels)** | The height of the message of the day (in pixels). Default is 300. |
| **Text Message width (in pixels)** | The width of the message of the day (in pixels). Default is 300. |
| **Text Message X coordinate (in pixels)** | The X coordinate for the text message.  
**Note:** Negative values are represented by large positive numbers in the registry. For example: -1 = 4294967295 and -2 = 4294967294. |
| **Text Message Y coordinate (in pixels)** | The Y coordinate for the text message.  
**Note:** Negative values are represented by large positive numbers in the registry. For example: -1 = 4294967295 and -2 = 4294967294. |
Customizing the Background Image

ESSO-KM provides the ability to insert a custom background image on the Desktop Manager. This feature can be used to upload a company logo.

To configure the administrative settings for the Desktop Manager text message:

1. Open the ESSO-LM Administrative Console.
2. Navigate to **Global Agent Settings > Live > Kiosk Manager > Desktop > Background Image.**

<table>
<thead>
<tr>
<th>Image height (in pixels)</th>
<th>The height of the image (in pixels). Default is 300.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Placement</td>
<td><em>This setting is new as of version 10.1.4.1.0.</em> The placement of the logo image. Options:</td>
</tr>
<tr>
<td></td>
<td>- Normal. Image is placed in upper left corner of coordinates and clipped if larger than specified height and width.</td>
</tr>
<tr>
<td></td>
<td>- Autosize. Image is placed in upper left corner of coordinates.</td>
</tr>
<tr>
<td></td>
<td>- Center. Image is centered within coordinates and clipped if larger than specified height and width.</td>
</tr>
<tr>
<td></td>
<td>- Stretch. Image is stretched or shrunk to fit within specified coordinates.</td>
</tr>
<tr>
<td></td>
<td>- Maximize. Image is stretched to full screen size.</td>
</tr>
<tr>
<td>Image width (in pixels)</td>
<td>The width of the image (in pixels). Default is 300.</td>
</tr>
<tr>
<td>Image X coordinate (in pixels)</td>
<td>The X coordinate for the image.</td>
</tr>
</tbody>
</table>
| Note: Negative values are represented by large positive numbers in the registry. For example: -1 = 4294967295 and -2 = 4294967294.
**Image Y coordinate (in pixels)**

The Y coordinate for the image.

**Note:** Negative values are represented by large positive numbers in the registry. For example: -1 = 4294967295 and -2 = 4294967294.

**Location of the image file**

Full-qualified path and filename to the image file. Click the ...button to locate the file.

---

**Example on an 800x600 display:**

This screen shot illustrates the horizontal and vertical dimension of the Desktop Manager logon dialog and the location of it on the screen.
This screen shot illustrates an example of a text message. This text message displays the values used to customize the text message as seen in this screen shot.
This screen shot displays the actual values used to produce the text message as seen above.

<table>
<thead>
<tr>
<th>Text Message</th>
<th>Yes</th>
<th>Example Desktop Manager Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text Message Autosize</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Text Message Color Background</td>
<td>Yes</td>
<td>Blue</td>
</tr>
<tr>
<td>Text Message Color Foreground</td>
<td>Yes</td>
<td>Aqua</td>
</tr>
<tr>
<td>Text Message Font Name</td>
<td>Yes</td>
<td>Times New Roman</td>
</tr>
<tr>
<td>Text Message Font Size</td>
<td>Yes</td>
<td>12</td>
</tr>
<tr>
<td>Text Message Font Style</td>
<td>Yes</td>
<td>Bld</td>
</tr>
<tr>
<td>Text Message height (in pixels)</td>
<td>Yes</td>
<td>89</td>
</tr>
<tr>
<td>Text Message width (in pixels)</td>
<td>Yes</td>
<td>476</td>
</tr>
<tr>
<td>Text Message X coordinate (in pixels)</td>
<td>Yes</td>
<td>162</td>
</tr>
<tr>
<td>Text Message Y coordinate (in pixels)</td>
<td>Yes</td>
<td>0</td>
</tr>
</tbody>
</table>

**Replacing the Logo Banner**

The ability to modify the Oracle ESO-KM logo banner on the Desktop Manager logon dialog is available through a manual step. To replace that logo you must:

1. Create a "branding" folder in the directory that SMAgent.exe is installed to, for example C:\Program Files\Passlogix\ESSO-KM\branding.
2. Place the customized logo banner in the branding folder with the name "banner.gif".
3. Customized banner will appear next time ESSO-KM is started.
Desktop Status Window

The Desktop Status window is a small window that displays during a ESSO-KM session which allows you to conveniently view the current session owner and lock the session. If enabled, by default it displays in the upper right corner of the desktop during a session.

A configuration setting is available in the ESSO-LM Administrative Console to configure this window (under Global Agent Settings > Kiosk Manager: Desktop Status Window).

The desktop status window is hidden by default. Select your preference. The default values are calculated at runtime. The window is placed in the upper-right hand corner of the display with 10 pixels between the edge of the window and the physical edge of the screen. The location of this window can be manually configured from the Kiosk Manager panel:

1. **Status Window X coordinate.** The X coordinate for the status window in pixels. This is the horizontal location of the status window on the desktop.

2. **Status Window Y coordinate.** The Y coordinate for the status window in pixels. This is the vertical location of the status window on the desktop.
Transparent Lock

The transparent lock feature provides the ability to lock desktop inputs (keyboard and mouse) in view mode, so for example, a monitoring application can be viewed without starting a session. It is similar to the screen saver functionality. When ESSO-KM invokes the transparent lock, the desktop and applications on the desktop shall continue to be displayed on the monitor in real time.

Transparent lock is disabled by default.

When there are multiple sessions running, the last active session is displayed when transparent lock engages.

Application priorities and positioning are configurable in the Special Actions lists.

Transparent lock events are set up in the Events panel of the Session States section.

- **Transparent Screen Displayed**
  This event is triggered when the transparent lock initiates and the screen is visible to the user in locked mode.

- **Transparent Screen Hidden**
  This event is triggered when the transparent lock is hidden.

Transparent lock can be invoked in the following ways:

- **Timeout**
- **Canceling** out of an authentication if **Transparent Display After Cancel** is set to **Enable**.

To initiate a session while transparent lock is running, move mouse or click any keyboard button. If **Transparent Only Recognize Ctrl-Alt-Delete** is set to **Enable**, users will have to click Ctrl+Alt+Delete to disengage Transparent Lock.

**Note:** Transparent screen lock is configured through the ESSO-LM Administrative Console on the **Global Agent Settings > Kiosk Manager** panel.
| **Transparent Display After Cancel** | This setting determines whether the display after cancel feature should be enabled.  
If disabled, ESSO-KM will revert to the inactivity timer to determine when to display the desktop.  
If enabled, when an authentication or synchronization dialog is canceled, the desktop will be viewable instantly.  

**Note:** The Transparent Lock setting below must be turned on in order for this feature to work.  

**Options:**  
- Disable (default)  
- Enable |
| **Transparent Lock** | This setting determines whether the transparent lock feature should be enabled. Transparent screen lock provides the ability to lock the desktop inputs (keyboard and mouse) in view mode, so for example, a monitoring application can be viewed without starting a session.  
When there are multiple sessions running, the last active session is displayed when transparent screen lock engages.  

**Options:**  
- Disabled (default)  
- Show desktop with active session. Transparent screen lock will be enabled as long as there is an active session running.  
- Show desktop. If this option is chosen, the transparent screen lock will be enabled with or without an active session.  

If the setting is set to **Show desktop with active session**, the transparent screen lock will only be enabled if there is an active session. |
| **Transparent Lock Time** | This setting determines the number of seconds to wait for mouse and keyboard inactivity before showing the desktop (default=5).  

**Note:** The Transparent Lock setting above must be turned on in order for this feature to work. |
| **Transparent Only Recognize Ctrl-Alt-Delete** | This setting determines whether clicking Ctrl+Alt+Delete is the only method to turn off the transparent screen lock and display the Desktop Manager.  
If disabled, any keyboard or mouse activity results in displaying the Desktop Manager.  
If enabled, all keyboard and mouse activity will be ignored. Only Ctrl-Alt-Del and authenticators that support "device-in" will be recognized to display the Desktop Manager. |
Warning! If this setting is enabled, the machine will appear frozen if there is not any indication that Ctrl-Alt-Del is required.

Options:
- Disable (default)
- Enable

Bypassing the ESSO-KM Agent

If needed, the ESSO-KM Agent can be bypassed when a kiosk starts up.

The ESSO-KM Agent will not start if you hold the **Shift** key down when logging into the computer.

Closing the ESSO-KM Agent

If needed, the ESSO-KM Agent can be closed on a kiosk by:

- Pressing **ALT + F4** on the keyboard.
- Clicking **Exit Oracle Enterprise Single Sign-on Kiosk Manager** from the **Administration** menu on the Desktop Manager.
- Clicking the **X** located on the top right of the window title bar.

The administrator is then prompted to enter his or her credentials. Only an administrator’s credentials will succeed in closing the agent.

This feature is disabled by default. To enable this feature:

1. Open the ESSO-LM Administrative Console, expand **Global Agent Settings > Kiosk Manager**.
2. Check the **Allow administrator to close ESSO-KM** setting.
3. Select **Yes**.
Set up a Trust

ESSO-KM has the capability to allow other applications that trust ESSO-KM authentication to retrieve the logged-in username. ESSO-KM provides a public function in SSOUserInfo.dll with the following function signature:

```c
extern "C" BOOL _stdcall GetUserId(BSTR* bstr);
```

**Parameters:**

- `bstr`: Object to retrieve the username into.

**Return Value:**

- Returns **TRUE** if the function succeeds and a user is currently logged in.
- Returns **FALSE** if the function fails. Use `GetLastError()` for more information.

**Note:** If the function succeeds, the username will be returned as: "DomainName\UserName".

ESSO-KM can be set up to run a command line or call a .NET method after a user successfully starts a session. Utilize this mechanism to trigger the other application to request the logged-on username from ESSO-KM.
Event and Audit Logs

ESSO-KM logs agent events to the local machine’s Windows Event Viewer. This functionality is enabled by default. For a list of ESSO-KM events that are logged, please see the table in the following section, Event Log Messages.

ESSO-KM can also log events to a Syslog server application on the local kiosk machine or a remote machine.

To use a Syslog application to view ESSO-KM events on a local or remote machine:

ESSO-LM Agent on the Kiosk

<table>
<thead>
<tr>
<th>Note:</th>
<th>This step must be performed before installing ESSO-KM.</th>
</tr>
</thead>
</table>

1. Launch Add-Remove Programs from the Control Panel.
2. Click on Oracle Enterprise Single Sign-on and click Change.
3. Select Modify on the Program Maintenance panel.
4. On the Custom Setup panel, expand Extensions, and then expand Event Manager.
5. Select Syslog for installation.
6. Follow the prompts to complete installation of Syslog.

ESSO-LM Administrative Console

1. Open the ESSO-LM Administrative Console, expand Global Agent Settings > Event Logging > Syslog.
2. Configure the settings for the target Syslog machine according to your environment. If logging to a remote machine, specify either a hostname or IP address of the remote machine in the Send messages to which host? setting.
## Event Log Messages

The following is the list of messages that currently are logged in the Event Viewer for applications:

<table>
<thead>
<tr>
<th>Message</th>
<th>Notes about message, if applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>User session started: domain/username</td>
<td>When a user session is started.</td>
</tr>
<tr>
<td>User session ended: domain/username</td>
<td>When a user session ends.</td>
</tr>
<tr>
<td>User session locked: domain/username</td>
<td>When a session is locked.</td>
</tr>
<tr>
<td>User session unlocked: domain/username</td>
<td>When a session is unlocked.</td>
</tr>
<tr>
<td>Process action: action type, action name</td>
<td>(IE, Terminate list, notepad_close)</td>
</tr>
<tr>
<td>Process state: state name, event GUID</td>
<td>(IE, Session_locked, {6D5B7645-25A5-42f3-B641-BFE4DC4F774C})</td>
</tr>
<tr>
<td>Transparent lock screen DISPLAYED</td>
<td>When transparent lock displays.</td>
</tr>
<tr>
<td>Transparent lock screen HIDDEN</td>
<td>When transparent lock is hidden.</td>
</tr>
<tr>
<td>Method Invocation: file path/file name, method name</td>
<td>Corresponds with Run List .Net API Assembly name and method.</td>
</tr>
<tr>
<td>Run list command: command name</td>
<td>Corresponds with Run List Script commands.</td>
</tr>
<tr>
<td>The following applications were not terminated:</td>
<td>This will only log applications that are specified in a terminate list and did not terminate.</td>
</tr>
<tr>
<td>Message</td>
<td>Notes about message, if applicable</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Oracle Enterprise Single Sign-on Kiosk Manager STARTED</td>
<td>When ESSO-KM is started.</td>
</tr>
<tr>
<td>Oracle Enterprise Single Sign-on Kiosk Manager SHUTDOWN</td>
<td>When ESSO-KM is shut down.</td>
</tr>
<tr>
<td>Successfully closed: Application name</td>
<td>Applicable to all three closure methods in the terminate list - keystroke sequence, closure request and process termination. This event is logged when the application in a terminate list is closed. Logs are not generated for applications that are closed but not specified in a terminate list.</td>
</tr>
</tbody>
</table>
Authenticating to ESSO-KM using ESSO-AM

ESSO-KM supports ESSO-AM for all authentication events. All authentication events take place within the authenticator so that ESSO-KM does not need to be configured for different authenticators. ESSO-KM communicates with every ESSO-AM authenticator in the same way.

When configured with smart card, proximity card, or other presence-sensing authenticator, ESSO-KM automatically initiates a session when an authenticator is detected.

When configured with smart card, proximity card, or other presence-sensing authenticator, ESSO-KM automatically suspends a session when an authenticator is no longer present.
Configuring Smart Card Removal

A setting is available in the ESSO-LM Administrative Console (under Global Agent Settings > Primary Logon Methods > Smart Card > Advanced: Lock ESSO-KM session on removal) that allows an administrator to configure ESSO-KM to not lock a session when the session owner removes the smart card from the smart card reader.

By default, this value is set to Lock. If set to Not Lock, the ESSO-KM session will remain open when the smart card is removed.

This setting is useful in a scenario where employees must have their smart cards displayed at all times, and, therefore, cannot leave them in a reader.
Linking to ESSO-PR

A link to ESSO-PR can be installed to the ESSO-KM Desktop Manager. This allows users to reset their own kiosk passwords (for example, AD via LDAP auth) using ESSO-PR.

Clicking this banner launches the ESSO-PR Web interface. Users can then follow the prompts to reset their password.

A link to the ESSO-PR client can be installed as a DOS command, using the following command syntax:

```
msiexec /package /q c:\ESSO Ki oskr Manager 7.000.msi programURLs
```


programURLs (required):

- `REG_RESETURL="http://host/vgoselfservicereset/resetclient/default.aspx"
- `REG_STATUSURL="http://host/vgoselfservicereset/resetclient/checkstatus.aspx"

where: `host` is the server name (or domain name or IP address) and path of the folder that holds the ESSO-PR service root folder.
Command Line Options

Command-line options are available to support non-kiosk environments and allow ESSO-KM to run on a desktop machine without presenting a user interface.

```
(EVENT <EventName1> [EventName2...])
```

This option triggers the named event and ESSO-KM performs the tasks associated with the event and terminates. The authenticator filters are ignored.

```
(RUN <ListName1> [ListName2...])
```

This option triggers ESSO-KM to perform the tasks associated with the named list and terminate. The event and authenticator filters are ignored.

*eventName* can be either a Session State or an Action.

For example, “SMAgent /run StartVisualSourceSafe”.

<table>
<thead>
<tr>
<th>Note:</th>
<th>Any SessionAction or SessionState names that have spaces in them must be enclosed in double quotes.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Some command-line options prevent others from working. For example, multiple lists can be run with the /RUN command. If /LOCK appears on the command line, the session is locked and the rest of the command line is ignored, including any options that appeared before /LOCK.</td>
</tr>
<tr>
<td></td>
<td>/SHUTDOWN, /LOCK, and /TERM are the command-line options that cause ESSO-KM to ignore the rest of the command line.</td>
</tr>
<tr>
<td></td>
<td>The /RUN and /EVENT commands trigger ESSO-KM to treat the rest of the command line as event and list names to be run. These will be run when all of the command line options have finished processing. The type of the parameter depends on the previous command. The command-line parameter type resets with the next /EVENT or /RUN parameter received. For example:</td>
</tr>
<tr>
<td></td>
<td>SMAgent /Event “SM session start” “SM session end” /RUN termlist1 termlist2 runlistA “My SessionState”</td>
</tr>
<tr>
<td></td>
<td>This command line will run the lists associated with events “SM session start” “SM session end” and run the named lists: termlist1, termlist2, runlistA and “My SessionState”.</td>
</tr>
</tbody>
</table>
.NET API

Externally Callable Interfaces and Methods

A class named KioskAPI is available within the SMAgent.exe that is loaded by external programs.

The object is instantiated as follows:

Passlogix.SM.Manager.KioskAPI kiosk = new Passlogix.SM.Manager.KioskAPI();

The following methods are available:

void Lock();
void Term();
void Shutdown();
void Event(string eventName);
void Run(string runtaskName);

- **Lock.** Locks the current ESSO-KM session.
- **Term.** Ends the user's session as if the ESSO-KM timer expired for a user.
- **Shutdown.** Terminates the SMAgent.exe.
- **Event.** Simulates the named event to occur causing ESSO-KM to perform tasks associated with the named event without filtering by the authenticator. Event names are the GUID strings from Events.xml.
- **Run.** Starts the named task without filtering by the event or authenticator. Task names are the SessionAction and SessionState names that are displayed by the ESSO-LM Administrative Console.

*Note:* Any SessionAction or SessionState names that have spaces in them must be enclosed in double quotes.

kiosk.Run("""My SessionAction"");

Example to run tasks associated with the "SM Session End" event:

Passlogix.SM.Manager.KioskAPI kiosk = new Passlogix.SM.Manager.KioskAPI();
if (kiosk != null)

    kiosk.Event("{A644ED55-6A3F-4160-A355-C713C90733DF}");

**Note:** Refer to the .Net API Sample Code.
.Net API Sample Code

using System;
using System.Collections.Generic;
using System.Text;
using System.Windows.Forms;
namespace ClassLibraryTest
{
    public class TestClass
    {
        private string m_userName;
        private string m_domainName;

        public string UserName
        {
            set
            {
                m_userName = value;
            }
            get
            {
                return m_userName;
            }
        }

        public string DomainName
        {
            set
            {
                m_domainName = value;
            }
            get
            {
                return m_domainName;
            }
        }

        public void UserChange()
        {
            MessageBox.Show("UserChange called with user: " + DomainName + "\" + UserName);
        }

        public void SessionStart()
        {
            MessageBox.Show("SessionStart called");
        }

        public void SessionEnd()
        {
            MessageBox.Show("SessionEnd called");
        }

        public void SessionLocked()
        {
            MessageBox.Show("SessionLocked called");
        }

        public void SessionUnlocked()
        {
            MessageBox.Show("SessionUnlocked called");
        }
    }
}
public void PreSessionUnlocked()
{
    MessageBox.Show("PreSessionUnlocked called");
}

public void AuthLogon()
{
    MessageBox.Show("AuthLogon called");
}

public void AuthTimeout()
{
    MessageBox.Show("AuthTimeout called");
}

public void DeviceIn()
{
    MessageBox.Show("DeviceIn called");
}

public void DeviceOut()
{
    MessageBox.Show("DeviceOut called");
}

public void GracePeriod()
{
    MessageBox.Show("GracePeriod called");
}
Best Practices

These best practices are recommendations that will help you implement an optimal ESSO-KM configuration.

Deploying ESSO-KM Settings

The most convenient way to mass deploy ESSO-KM settings from the ESSO-LM Administrative Console is to create a customized MSI package and distribute it to end user kiosk machines using a deployment tool of your choice.

Note: Administrative Overrides are not available for use with ESSO-KM settings.

Sendkeys

Sendkeys is not a reliable method and therefore not guaranteed to work as expected. It is recommended that you do not use sendkeys.

Disable Task Manager and Run

The Windows Task Manager and Run menu option are disabled programmatically as a function of the ESSO-KM Registry Service. For added security, we recommend disabling these functions for any user account that is to be used as a ESSO-KM kiosk user account.

To remove the Run menu option from the Start menu:

1. Open Group Policy editor by double clicking on 'gpedit.msc' (C:\WINNT\system32\gpedit.msc)
3. In the right pane double-click Remove Run from start menu.
4. Select Enabled and click Apply and OK.

To disable Task Manager:

1. Open Group Policy editor by double clicking on 'gpedit.msc' (C:\WINNT\system32\gpedit.msc)
3. In the right pane double-click Remove Task Manager.
4. Select Enabled and click Apply and OK.