How to Setup QuickLicense And Safe Activation

Excel Software

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QuickLicense and Safe Activation provide a feature rich environment to configure almost any kind of software license. The flexibility and customization opportunities can be somewhat overwhelming at first glance. This document provides a start-to-finish, step-by-step tutorial that results in a product license to protect an application using a custom activation dialog linked to an automated activation server.

To continue this tutorial, you'll need an installed Demo or Product edition of QuickLicense, a browser with Internet access and a vendor account on Safe Activation (SA). You might want to print this document for easy reference and to take a few written notes along the way. The screens in this tutorial came from QuickLicense running on Windows 7 and the Chrome browser logged into a vendor account on SA Service 2. Your screens might look slightly different with the same data depending on the OS, SA service level you have and the browser you use.

There is one important step of the software protection and license management process that is not covered by this tutorial. That step is the binding of the generated Ticket file that defines the license and the QuickLicense runtime that implements the license to your application. This binding process can be done in many ways including the insertion or a few lines of code into your application to call the runtime directly or by wrapping the compiled executable with AddLicense.

SendMessage is a good way to test a license and activation process during development since it allows you to emulate your application by sending a Command string to the QuickLicense runtime and display the response string.

During the development process, you should always use a dummy Ticket name. You will likely configure a license, generate a ticket, activate the license, then change some configuration options and repeat the process several times.

Once you have explored all the options and know exactly how you want your license to work, build a final Ticket name that can be applied to your application. If your application programmatically calls the QuickLicense runtime, we highly recommend that you read about and used the shared Ticket folder for active licenses. To implement this, you simply put the word "shared" in the Location parameter of the Command string.

Start QuickLicense

Launch QuickLicense to see the main window. This window shows one row of data for each record in the QuickLicense data file.

When you start QuickLicense the data file is read into memory. When you quit by closing the window or clicking the **Save & Quit** button your data is saved to disk. During this tutorial you may want to occasionally save your data

Edit Help						
License	Product	Version	Days	Security	Features	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	000000000	

with the Save command under the File menu.

Click the **Setup** button in the bottom left corner of the main window. The Setup dialog is presented. At the bottom, it shows the full file path to the QuickLicense.ini data file where all of your data is stored.

The Ticket Folder path specified at the bottom of the Setup dialog shows where generated Ticket file are stored. Click the **Pick** button, and create a new folder on disk to hold your un-activated Tickets. Your user account need read and write access to the Ticket folder. Choose a location other than the

Group Name Unused Master Tickets Evaluations Evaluations Subscriptions Group 0 Group 10 Group 11 Group 12	Product Edition Standard @ MAC Address	ages Meximum Records: 30 Small Syrren Save Un Linerse UK Provest Dialogs Top Left Vendor Code: 382171142541201037744983 Security Response Calculation: T=E'2-9 Z Lock Licket Data When Licket Generated Store Data in Compressed Format Password Protected
Grown 13 Database Location: C:\Ukers\Standard\App ficket Folder: C;\t	Select Database on Startup Data\Roaming\Excel Software\Quicklic test\Tutorial	Database List Make Web Form Database List Custom Text rense ini Show Pick

Desktop or Program Files directory structure on Windows.

Notice the red 26-digit Vendor Code in the Setup dialog. It was generated for you when the QuickLicense.ini file was created and allows you to uniquely assign ownership to named Tickets that you generate.

Backup QuickLicense Data

The **Backup** button in the main window simply makes a copy of the QuickLicense.ini file to an alternate location and gives it a time-stamped name. If disaster strikes, simply quit QuickLicense and replace the QuickLicense.ini file at the specified file path in the Setup dialog. Now start QuickLicense.

Login to Safe Activation

Log into your Safe Activation account. The screen shots in this tutorial were taken from a Test account on Safe Activation Service 2 so your screens may look slightly different if you have Service 1 or 3.

The left side of the screen has links to pages to configure products, custom forms, serial numbers and view customer activation data. Click the blue ? to see the online help page.

Click the **Vendor** link to see the Vendor Info page. This page contains an 8 digit Vendor ID that you will use later within a URL to present an automated activation web form.

To receive an email message containing customer data when activation occurs, enter your email address into the Activation Email field. That email address can also be used to retrieve a batch of generated Serial Numbers for distribution to customers.

Enter the 26-digit Vendor Code



from the Setup dialog in QuickLicense into the bottom right field of the Vendor Info page in Safe Activation. Within the Setup dialog, if you click the red 26-digit vendor code it gets copied into the clipboard for easy pasting into the web page. Click the **Save Data** button to submit editing changes on the Vendor Info page.

Configure a License

From the main QuickLicense window, data values in the Product, Version and Security fields of a row are used to bind an application to a specific license defined by a generated Ticket file.

Enter "ProductX" into the Product column of the first empty row. This becomes the base name of the generated ProductX.Ticket file.

License	Product	Version	Days	Security	Features	
unused	ProductX	1.0	9999	999	00000_0000	
unused	unused	0	9999	999	0000_0000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	00000_0000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	0000.0000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	00000.00000	
unused	unused	0	9999	999	000000000	
unused	unused	0	9999	999	00000_0000	

For this tutorial, enter "1.0" and "999" into the Version and Security fields, respectively. These fields are used to help ensure that your application is using the correct Ticket that you configured.

Click on the License column of the row to present the License dialog for this record. This dialog is used to configure the license. Type any name you want into the License field since it is only used to identify that record within QuickLicense.

In this tutorial, you will configure a standard product license that requires activation on first application launch and then works forever on that computer. The license is validated on each launch to ensure that files have not been copied to a different computer.

Ticket	Activation	Password	Reset	Customer	Custom	Subscription	Safe Activatio	n	
License	Product	(Master					Master Ticke	ts •	-
🔽 Mast	ter Ticket of I	New Record	s ?				Ticket Start:	3/7/2011 11:13 AM	
Allower	d User Name	e 0	?				Ticket End:	12/10/2039 10:37 AM	
Executi	on Limit:	0	?	Show Lau	nches Rem	aining	Ticket Code:	3382341233	
🔽 Neve	er Time Out (Ignore Cloc	k)	?			Developer Da	ta (optional use):	
📃 Inter	net Clock	No Acc	ess: 0	?					
Allov	w Same Com	puter React	ivation	?			🔽 Maintain 🛙	Jackup Ticket	
Allov	w Disk Image	to Retain A	ctivation	2			V Show Run	time Errors	
📃 Bind	License to H	ardware ID		?			Show Activ	vation Error Reason	
📃 Disal	ble Sandbox I	Detection		?			Android		
🔲 Auto	Upgrade Lic	ense		7			I Icket Loc	ked	
Liu	ense Options	?						Make Ticket	
Se	rver Options	E Flo	ating Se	rver ? (Custom Te	ext:		? Modify Ticket	

Set all checkboxes as shown in the License dialog shown above. Click the blue ? next to each option for a popup help message. The "Never Time Out" checkbox ensures that the license is not affected by user changes to the computer clock. The "Allow Reactivation" checkbox allows the user to install, activate, uninstall and then activate the license again if necessary. If you later want to configure a time-limited Trial license, you would not set either of these checkboxes.

License Options

Click the **License Options** button to present the License Options dialog. Checkboxes in this dialog determine which licensing features are available to application users. The user can present the License Options dialog by holding down the **Shift** and **OS** keys when launching a protected application.

The Remote Reset feature allows the vendor to remotely reset the license for a specific Serial Number to its original un-activated state.



The Release License and Restore License features allow a user to securely move a license from one computer to another with a couple button clicks and no vendor involvement. Click **OK** to dismiss the License Options configuration dialog.

Make Ticket

Click the **Make Ticket** button and notice that a Ticket Code is assigned to the license and displayed in the Ticket panel. The ProductX.Ticket file is generated to the Ticket folder defined earlier in the Setup dialog.

When clicking the **Make Ticket** or **Modify Ticket** button, most fields are dimmed and the Ticket Locked checkbox is set. You are not done with license configuration, so clear the Ticket Locked checkbox.

From now on, always use the **Modify Ticket** button. This allows changes to be made to the generated Ticket file without changing the Ticket Code. Normally, the **Make Ticket** button is only used once to initially generate a Ticket file and assign a unique Ticket code.

Select the Activation panel of the License dialog. Set the Activation Required checkbox and select the Machine Calculated radio button.

The Activation Calculation field has a randomly generated activation calculation that can turn a Request Number (computer fingerprint number) into a computer specific Activation Code.

While leaving the License dialog of QuickLicense open, it is now time to setup the product on the Safe Activation vendor account. Later, you will return to QuickLicense to

	Activation	Password	Reset	Customer	Custom	Subscription	Safe Activat	ion		
🔽 At I	ivation Requ	ired De	layed At	livation Day	e 0	?		Trial to	Product	
Actu: Displ	al URL: ayed URL:								9	
🔘 Ger	neral:			? 🖻 Fa	ach User N	eeds Activation	° - B	pires After A	Activation	
Ma	chine Calcul	ated: 🔘	Name C	alculated:	R*8+	T-2	?	9999	Days	
🔲 Pre	-Activation N	Vlessage	Edit	Message	TT	y/Buy/Student) Hours Show Tim	Minutes Remaining	
🔳 Sho	w Sending D)ata			Pro	omotional URL:	; ; [_ show him	e kemaining	
🗐 She	w Activation	n Success								
										_
User N	ame:			C	hange Exp	iration Date		Change Exe	ution Count	
Reque	st #:			Acti	vation			Block	Codes	
			Drouio	A stine	ation		,	Server	Codes	

complete the license configuration and generate the final Ticket file.

Configure Custom Form

Click the **Add** link in the Custom Forms section within the Safe Activation vendor account.

Type "Simple" to name the form, then set checkboxes to make fields Visible and Required as shown here. The Serial Number and Request Number fields are essential since they enable the activation server to grant an activation of a specific product and return a valid Activation Code.

Make sure all Visible and Require checkboxes are set correctly. In

← → C A https://w	vw.safeactivation	.com/vendo	ir.php				白 4
	Ver	Id	or Ac	CO	IN	t	
General Home Vendor	Visible	Require	First Name	Visible	Require	Last Name	
Save & Restore Password Log Off	🖾 Visible	Require	Last Name	🖾 Visible	Require	Street	
Products	C Visible	Require	City	Visible Visible	Require	State	
List Feature Name Add Edit Delete	Visible Visible	Require	Zip (Postal Code)	Visible Visible	Require	Country	
Custom Forms	🖪 Visible	Require	Phone	C Visible	Require	Fax	
List Clone Add Edit Delete	Visible Visible	Require	Request Number	Visible	Require	Serial Number	
Serial Numbers	Visible	Require	Comments	E Visible	Require	Custom 1	
ielect & Search idit Group Feature	Visible Visible	Require	Custom 2	Visible Visible	Require	Custom 3	
Customers	🖾 Visible	Require	Custom 4	C Visible	Require	Custom 5	
Select List	C Visible	Require	Computer Username	Visible Visible	Require	Email	

addition to Request Number and Serial Number, this tutorial sets the First Name, Last Name and Email fields. Click the **Save Data** button at the bottom of the page to save the custom form.

Serial Number Groups

Click the **Group** link in the Serial Number section to present the Serial Number Group Names page.

Change "Group1" to "ProductX" and click **Save Data** at the bottom of the page.

A group name is used to assign a list of Serial Numbers to a specific product. A vendor account may configure many different products each assigned to a different group of serial numbers.

← → C @ http	s://www.safeactivation.com	/vendor.php	धे ³
General Home Vendor Save & Restore	Serial Number	Group Names Group 02	CUINT ?
Password Log Off	ProductX	Group2	Group3
Products	Group 04	Group 05	Group 06
list Feature Name	Group4	Group5	Group6
Add Edit Delete	Group 07	Group 08	Group 09
Custom Forms	Group7	Group8	Group9
	Group 10	Group 11	Group 12
ist Clone		Group11	Group12
ist Clone Add Edit Delete	Group10	Groupin	Group is
List Clone Add Edit Delete Serial Numbers	Group 13	Group 14	Group 15

Generate Serial Numbers

Click the Select & Search link to present the Serial Number Select & Search page.

In the Generate Range section, enter 1 in the From ID field and 10 in the To ID field. Choose ProductX in the Default Serial Group selector.

Some vendors allow customers to active on both a business and home computer. Enter 2 in the Max Activation field.



Serial Numbers can be generated with a Long, Short or Shorter format. Select Short format consisting of 4 groups of 5 numeric digits separated by dashes. Click Generate to generate Serial Numbers into slots 1 through 10.

View Serial Numbers

Click the Edit link to present the Serial Number Edit page. Notice that slots 1 to 10 are filled with newly generated Serial Numbers. Each is given 2 allowed activations and assigned to the ProductX group.

Product Edit

Click the Add button in the Product section to present the Product Edit page. Enter any alphanumeric name for the product record. Copy and paste the Activation Calculation from the Activation panel of License dialog in QuickLicense. Coy and paste the Ticket Code from the Ticket panel in License dialog.

Set the Enable Activation checkbox to enable an Activation page on the web. Set the Email Activation Data to Vendor checkbox if you want to receive customer entered data when activations occur.



and the second s	-					33
Developer Account		× 0				
+ - C A https	://ww	w.safeactivation.com/vendor.php			\$	4
()		lendo	Acco	un	t	
General	D	Serial Number	Max Activations	Group	The second second second second	1
Home Vendor		34201-10000-12266-60503	#	ProductX .	Suprid C Keset C Subscriber C Used C Notey	
Save & Restore	2	34201-10001-64585-80503	2	ProductX •	Suspend Reset Subscriber Used Notify	
Failword Log Co	3	34201-10002-39586-80503	2	ProductX .	Superid Reset Subscriber Used Notify	
Products	4	34201-10003-20247-80503	2	ProductX .	Supend Reset Subscriber Used Notify	
Add Edit Delete	5	34201-10004-42864-80503	2	ProductX .	Superior Reset Subscriber Used Notify	
Custom Forms	6	34201-10005-58785-80503	2	ProductX .	Suspend Reset Subscriber Used Notify	
List Close	7	34201-10006-29961-80503	2	ProductX .	Supend Reset Subscriber Used Notify	
Add Edit Delete	\$	34201-10007-39704-80503	2	ProductX .	Support Reset Subscriber Used Notify	
Serial Numbers	9	34201-10008-81768-80503	2	ProductX .	Supend EReset Subscriber EUsed ENotify	1
Edit Group Feature	10	34201-10009-50041-80503	2	ProductX .	Supend EReset Subscriber Used Notify	



Set the Serial Number Required checkbox to require Serial Number validation by the server before granting an Activation Code. The Enable License Block and Enable License Unblock checkboxes provide the foundation for the automated License Release and License Restore features.

Scroll to the bottom of the Product Edit page to select the "Simple" custom form and "ProductX" serial group. Click the **Save Data** button. The live Activation web page is now ready for use.

View Activation Page

After saving the Product Edit page, the URL of the live activation page is displayed on the screen. Notice the DB, Vendor ID and Product ID values on this page. This data is later used to complete the Ticket.

Click the URL to see the web page.

The help topic, "Show Activation Page for a Specific Product" shows how to construct the URL of the activation web page.

The URL for the activation web page is embedded within a configured Ticket. Most users will activate software through a custom activation dialog without typing or seeing the activation URL in a web browser.

For special situations, a user may want to activate a computer that is not connected to the Internet by using a different connected computer.

Safe Activation Service 1 uses a longer URL with parameters db, vendor and product.

Safe Activation Service 2 and 3 support an abbreviated URL notation as illustrated in this tutorial. The abbreviated URL is much shorter and easier for a user to type since it replaces all of the parameters with one 10-digit value.



← → C ③ www.safeactivation.com/activate.	php?db=2&vendor=20080503&product=1 🏠 🎙
Activation Request	
First Name	
Last Name	
Email	
Request Number	
Serial Number	
Cand	
Send	

	safeactivation.com/activate.php?x=2080503001	7 4
Activation Re	quest	ſ
first Name		
ast Name		
mail		
Request Number		
Serial Number		
		L
Send		

Activation Panel

Complete the Activation Panel of the License dialog in QuickLicense by pasting in the abbreviated URL into the Actual URL field.

For the unlikely case where Internet access is not available during the activation process, a Select Activation Type dialog is presented. The user is given a choice of Manual or Internet activation.

For a manual activation, the URL is of the activation page is presented. The user can get the required Activation Code from a different connected computer.

licket	Activation	Password	Reset	Customer	Custom	Subscription	Safe Activation
🔽 Act	ivation Requ	ired De	layed Acti	vation Day	s: 0	?	Trial to Product
Actu	al URE:	http://	www.safea	ctivation.c	om/activa	te.php?x=20805	503001
Displ	ayed URL:						
) Ger	neral: chine Calcul	ated: 🔘	Name Cal	? 🔲 Ea	nch User N R*8+	eeds Activation T-2	expires After Activation
Pre	-Activation M	Aessage	Edit N	Aessage	? Tr	y/Buy/Student	Hours Minutes ? Show Time Remaining
🔲 Sho	ow Sending E	lata			Pro	motional URLs	s ?
Shi	w Activation	Success					
User N	lame:			C	hange Exp	ration Date	Change Execution Count
Reque	est #:			Activ	vation		Block Codes
Ser	d Activation	Email	Preview	Activa	ition		Server Codes

Reset Panel

Set the Reset Enabled checkbox on the Reset panel. This enables the manual reset process for a protected product. The Reset process allows a Reset Code to be applied by a user to an activated Ticket. It restores the Ticket to its original, un-activated state. Refer to the QuickLicense User Guide if you want to learn more about manual reset codes.

Safe Activation Panel

Select the Safe Activation panel of the License dialog. This dialog includes the data required to link a protected application to an activation server.

The Server field identifies the activation server, the DB field is set to 2 for Safe Activation Service 2, the Vendor ID field is your 8-digit vendor ID and Product ID field is the ID number of a product.

Set the "Detect Internet or Select" radio button for the Activation Type. In the Internet Activation dialog section, set the Custom radio and the Serial Number checkbox.

Click the green checkmark icon to the right of the Serial Number checkbox to apply a data entry constraint. This will help guide the user when typing a Serial Number into the custom activation dialog. The constraint shown here consists of four groups of five N's where each N represents a numeric digit 0 to 9.

icket	Activation	Password	Reset	Customer	Custom 9	lubscription	Safe Activat	tion	
Server: Timeo Activ a	www.saf ut (seconds): tion: @ Ste	eactivation. 15 Indard ©	com 30 ? Manual	DB:	? Vend nd FieldData. t @ Select	or ID: 2 1.1 ? Manual/Int	0080503 WebAr emet ©	Product 1 ctivation (Detect Internet	D: 7
Inter S C S S S S S S	net Activatio imple iustom () enal Numbe Inirode ?	n Dialog Fields r	Dyn Ur Ur Sr	namic Licer Dynamic L nconnected nconnected ternet Depen napshot Dep	ise Joonse Launches: Days Indont Licens pendent Licens	0 0 e	Check Suspe Never Weekly Check Or Remote L Suspend Ne	nd & Natificati Always Monthly nce Atter Days: icense Change o Connection:	on © Dady © 90 Days 90 7 0
Loo	kup Senal N ing Cart Pass	umber for Av	trvation					Compare QL	5A

Minimum Length:	0	Can Not Exactly Match Previous Field
Maximum Length:	100	Valid Email Address Format
Required Length:	0	Integer Value
Required Format:		Davisible Choice
NNNN-NNNN-NI Example Serial Numbe	NNNN-NI r Format:	
NNNNN-NNNNN-Nf Example Serial Numbe Where ? = alpha nume	NNNN-NI r Format: ric charac	NNNN NNNNN-NNNNN-NNNNN-NNNNN ter, \$ = ASCII character, - = -

Ticket Fields

Click the **Fields** button to present the Ticket Fields dialog.

This dialog constructs a custom activation dialog that matches the fields previously configured for the activation web form.

The **Add** button can be used to add each field and specify the Field Name, Field Label, Field Value and Field Type. Since the activation

Field Name	Field Label	Field Value	Activation Dialog
FirstName	First Name		Required
LastName	Last Name		Required
Email	Email		Required
unpress Dialog and Lise Tick	at Data		

web page is already online, click the **Get Fields from Safe Activation** button to retrieve and configure the fields automatically.

The Request Number and Serial Number fields are special. The Request Number field isn't seen or typed in by the user, it is automatically sent to the server by the protected application. The Serial Number field is controlled by the Serial Number checkbox discussed earlier.

As a developer, you can customize the text of Field Labels presented in the custom activation dialog. Field names, however must exactly match the field names in the activation web page generated by the Safe Activation server.

By default, all fields are assumed to be required. To make a field visible, but not required, change the field type selector to Visible in the fourth column of each row. If you choose to do this, that field in the Custom Form used by Safe Activation must also be visible but not required.

Test License

From the Ticket panel of the License dialog, click the **Modify Ticket** button to generate a fresh Ticket containing all of the configured options. Click the **Save & Quit** button at the bottom right of the QuickLicense window to save the data file and quit the application.

The SendMessage program can be used to test the configured license by emulating a protected application. Copy SendMessage and the QuickLicense runtime file to the Tutorial folder holding the generated ticket.

On Windows, you will also need to copy the SendMessage Libs support folder to the Tutorial folder.

SendMessage support several variations of the QuickLicense runtime including QuickLicenseRT.exe on Windows,



QuickLicenseRT.app on Mac and QuickLicenseRuntime.ddl on Windows.

SendMessage supports several different communication interfaces with the runtime file. For this tutorial, we will use QuickLicenseRuntime.dll on Windows (hereafter referred to as the runtime) and call the QuickLicenseRT external method.

Launch SendMessage, then type and send the Command string to the QuickLicense runtime. This command consists of 6 semi-colon delimited parameters.

Shared;ProductX;1.0;999;;

The *shared* parameter tells the runtime to copy the un-activated Ticket from the current folder to the shared Ticket folder on this computer if it doesn't already exist.

That shared Ticket file will be the active license for all user accounts on this computer.

🐉 Send Message				l	m Iol XX
Hile Edit Request Message:	Sclost Command	Sciect Request Log	■ Request log	How to Use ?	Encryption ?
shared;ProductX;1.0;9	99;;				
Response Message:	Clear Response	QuickLicenseRT or QuickLicenseRuntime.dll file mu stored in the same folder as SendMessage.	st be	UTFI	6 <-> Hec
Mac Apple Event W	In DLL Method Max/Win C	lipboard Control File Shared Control File	Loc	ation: Lo	
					ocation
			Pro	duct: Pi	oduct
Call QuickLicen	seRI Method		Pro- Ven	duct: Pr tion: V	ocation roduct ersion
Call QuickLicen	iseRI Method		Pro Ver Sec	duct: Pr tion: V urityCodes Se	ocation oduct ersion ecurityCode
Call QuickLicen	selli Method		Prov Vers Sect Rem	duct: Pr ion: V unityCodes Se dom/Cey: R	ocabon roduct arsion acurityCode andomiKey

The *ProductX* parameter identifies the Ticket file to use. The *1.0* and 999 must match the Version and Security value of the generated Ticket file.

Activation Dialog

An Activation dialog is presented. This is the same dialog that a customer would see on first launch.

The Activation dialog is ready to accept the Serial Number provided to the customer when their order was processed.

Activation	23
Serial Number First Name Last Name Email	
	Activate Now Activate Later

As a vendor, you can customize each step of the activation process during Ticket configuration. For example, there is an option to present a Pre-Activation message such as a license agreement. The user must confirm the message before activating the software. The dialog title, field labels and button names can be changed with a Custom Text file to support vendor specific wording or other human languages. You can also insert a few lines of text before or after the entry fields using a Custom Text file.

Use a Serial Number from the Safe Activation account and complete the dialog, then click **Activate Now**.

A Sending Data dialog is presented as data is sent to the server, then the Information dialog is presented.

23
ОК

The text of these dialogs can be

controlled with a Custom Text file. These dialogs can be suppressed with a checkbox option during Ticket setup.

The Response Message field in SendMessage contains the Response string returned by the runtime. The Response string is an ASCII string containing parameters separated by semicolons. The last parameter is the Return Message string and next to last is the Return Code that is negative if the license is not active. Refer to the QuickLicense User Guide for details.

View Customer Record

Click the **List** link in the Customer section of the Safe Activation vendor account. Now click the link to the new customer record created by the activation process.

The Customer Edit page shows information collected during activation. Safe Activation keeps track of how many activations are allowed based on the Max



Activation count assigned to a Serial Number and the number of active customer records (one for each computer that is activated).

Use a License

When the license was activated, the Ticket file was copied to the shared Ticket folder and activated at that location. On Windows 7 or 8, the shared Ticket folder is located here:

/Users/Public/Ticket

You should see a file named ProductX.Ticket at that location. If you run on a different OS, consult the User Guide to find the location of the shared Ticket folder on your computer.

Click the **Call QuickLicenseRT** button again in SendMessage. Each time the license is validated and the Execution count parameter of the Response Message string is incremented.

Move a License

When configuring the Ticket and Safe Activation, you granted the ability for users to securely move a license from one computer to another. This makes it easy for a user to move the license to a new computer without vendor assistance.

Press the **Shift** and **OS** keys and click the **Call QuickLicenseRT** button in SendMessage.

The License Options dialog is presented. It has a panel for each licensing feature granted during the license setup process.

Select the Release License panel. Click the **OK** button to release the license from Safe Activation server.

When a product license has been released, the product can be

installed and activated on another computer.

License Options

 Remote Reset
 Release License
 Restore License
 Activation Data

 Click the OK button to release a license from the activation server.
 Once the license is released, it cannot be used on this computer.

 OK
 Cancel

If the user attempts to run the protected application again on this computer, the License Blocked message is presented.

Information	23
This license is blocked.	
	ОК

Track Licenses

Safe Activation includes several features to help keep track of licenses that have been sold, activated, blocked, etc. For example, you can search for all customer records with a specific value within a specific field, like First Name, Last Name, Email Address or Serial Number.

The Customer List page can be customized. From the Customer Select & Search page, locate the Data Shown on Customer List Page section. Set the Status radio button and click the **Set Options** button.

Using the Customer Select & Search page, search for the Serial Number used for activation.

The Customer List shows the status of that Serial Number with one row of data for each activated computer.

Notice that the Status column indicates if the software is currently Active or Blocked on a specific computer.

Troubleshoot Problems



When configuring a license, protecting an application and setting up the activation server, there are many options to consider. That's great for presenting a polished, vendor-branded solution to an end user. That flexibility presents developers with plenty of opportunities to make mistakes.

If something does not work as expected, use the time tested debug technique of divide and conquer. Never try to debug your Ticket configuration, program interface code and Safe Activation setup at once. Test each step of the process independently.

For example, an activation page presented by the Safe Activation server can be tested from a web browser. Put the page URL in a browser, enter the customer data including a valid Serial Number and a 10 digit Request Number, then write down the presented Activation Code. Now use QuickLicense to verify that the Activation Code is valid for that specific Request Number.

Use the **Compare QL SA** button on the Safe Activation panel of the License dialog to check for potential errors in the Ticket or Safe Activation setup.

Apply License to Your Software

Once you have a working activation page on the web, use SendMessage to test the generated Ticket file. When the Ticket file and Safe Activation server is correct, its time to apply that Ticket to your application with the API or AddLicense wrapping tool.

If your application calls the QuickLicense runtime directly with the API, start with something simple. Create a function that calls the QuickLicense runtime with a command string and returns the response. Test that function with a simple command like "RequestNumber" that simply returns a 10 digit Request Number for the local computer.

See the Examples PDF for sample code written in popular computer languages.