# InstallKey

Release Notes

**Installation Key**
**And**
**Validation Framework**

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# 1. Release Notes

Below is a sequential list and timeline of changes, new features, bug fixes and notes for LomaCons InstallKey.

### *Version 1.0.43.2044*

JANUARY 21, 2008

**New Features**

- Functionally complete, proof of concept, but may contain bugs.
- Web Service for validation and business logic
- Web Site to create Keysets and Install Keys
- Client Side component for license validation
- Documentation

### *Version 1.1.86.2012*

MARCH 15, 2008

**Bugs Fixed**

- Bug Fixed: Numerous bugs from version 1.0.43.2044 fixed.

### *Version 2.0.109.1947*

APRIL 29, 2008

**Bugs Fixed**

- A bug in the key generation and validation logic such that two characters could be transposed but the DoesInstallKeyMatchKeyset method would still return true. This was fixed such that if characters are transposed, the DoesInstallKeyMatchKeyset method will return false.

**Notes**

- Not backwards compatible with version 1.1

### *Version 2.2.149.2124*

AUGUST 4, 2008

**Bugs Fixed**

- Minor Admin UI bug fixes

### *Version 2.4.175.1147*

SEPTEMBER 1, 2008

**New Features**

- Added the License To Customer Name to the surety.
- Added the ability to validate a license without an internet connection.

### *Version 2.5.187.1737*

SEPTEMBER 22, 2008

**New Features**

- Added a sample to show how to license ASP.Net applications, and store surety in a database.
- Added custom storage of the local surety.

### *Version 2.6.193.1532*

NOVEMBER 8, 2008

**New Features**

- Added the ability to encrypt and prevent casual viewing of the local surety. Backwards compatible with unencrypted sureties.

## *Version 3.0.296.2044*

MAY 15, 2009

**New Features**

- A new surety storage object to handle storing the local surety in Isolated Storage.
- Reworked the Admin Web Site such that it is visibly more appealing.
- Added multiple user access and access rights/roles to the Business Layer.
- Added a few web pages to the Admin to manage user logins.
- The installers will allow upgrading from prior versions. Prior versions of InstallKey do not need to be uninstalled before installing version 3.0

**Bugs Fixed**

- The surety could fail to be read when a custom ISuretyStoreage did not return a UTF-8 encoded string.

**Notes**

- The demo can be converted into a fully licensed installation without having to re-install or re-compile the source code. The installer now uses an InstallKey installation key to handle product activation. Yes, LomaCons is now "eating our own dog food"
- The software license was changed to a perpetual proprietary type license. The software is distributed as a demo and can be unlocked with a standard use license or a source code license. The license remains royalty free, and source code is available for a reasonable fee.
- When upgrading from version 2.x of InstallKey, the web.config files may not be set properly. If this happens, copy the WebDefault.config to web.config, and edit the database settings and any other settings in the web.config as needed.

## *Version 3.1.298.1052*

JUNE 21, 2009

**Bugs Fixed**

- An error code 500 may occur when a new Keyset is created or when Keysets is selected from the menu when there is a Keyset with a name that is greater than 16 characters. Keysets names can now be as long as 64 characters.

## *Version 3.2.327.1058*

NOVEMBER 21, 2009

**New Features**

- Installation Keys can have an optional trial expires date which allows the key to become invalid after the date defined.
- A VB.Net sample has been created.

**Bugs Fixed**

- An exception could be thrown when the machine specific identifiers are queried when some less than perfect third party device drivers are installed. These exceptions are now caught and ignored.
- The Admin website would not display properly when being displayed in IE8. This was corrected by adding the meta tag to force the browser to display in IE7 Compatibility Mode.

**Notes**

- The SuretyException object has been degraded and is now considered obsolete. Your current code will continue to work with this release, however you will receive an obsolete compile time warning if your code includes a reference to the SuretyException object. To correct this warning in your code, replace all references to SuretyException with TransferObjectException. The SuretyException object will be removed in a future release.

## *Version 3.3.352.1516*

MARCH 14, 2010

**New Features**

- The installation identifiers can be changed. Custom installation identifiers can be added. The default machine identifiers can be removed.
- Custom client side identifier matching and custom server side identifier matching algorithms can be added. Server side matching algorithms are keyset specific so each keyset can have a different algorithm.
- A new VB.Net sample client application has been added to the InstallKey package.

**Bugs Fixed**

- The BusinessServiceSetup installer would sometimes fail when attempting to install the Business Service website without also creating a database. This bug was fixed and the website can be created without also creating a database.

## *Version 3.4.356.1511*

JULY 3, 2010

**Bugs Fixed**

- An exception would sometimes be thrown when consuming the Business Service web service by any application other than the InstallKey Admin. The exception would occur on calls to the CreateKeyset() or CreateInstallKey() after the web service had been sitting idle for a period of time, typically an hour or more. This bug was fixed and the two web service methods can be called consistently, over time, without error.
- A dead link on the InstallKey Admin About webpage was removed.
- The calendar popup would fail to be displayed when the InstallKey Admin was installed on the root of the web server. This was fixed and the calendar popup will now work properly.

## *Version 4.0.412.2018*

AUGUST 17, 2010

**New Features**

- Rebuilt for the .Net Framework 4.0 with Visual Studio 2010.
- New ASP.Net MVC2 Sample.
- New single file setup installer that allows for custom feature installation.
- The installer works with IIS7 (IIS6 Compatibility is no longer required)

**Bugs Fixed**

- Fixed bugs and compatibility issues with the .Net Framework 4.0.
- The date picker for the trial date in the Admin UI would always assume that the data entry was in mm/dd/yyyy format. This has been fixed such that the date format that is used is based on the current language setting provided by the browser.

**Notes**

- The SuretyException object has been removed. Your current code will not compile if you are using the SuretyException object. To correct this, replace all references to SuretyException with TransferObjectException.

## *Version 4.1.414.1502*

OCTOBER 10, 2010

**New Features**

- A Client Side Sample for VB.Net

**Bugs Fixed**

- The .Net 4.0 compiler may inline code such that a Security Exception of StrongNameCallDemand failure was occurring randomly in the LomaCons.InstallKey.ClientSide.dll. This bug was fixed such that this exception will no longer occur.

## *Version 4.2.424.1509*

MAY 7, 2011

**New Features**

- A HOSTED conditional compilation symbol was added to the source code to simplify the process of rebuilding the source code for use with a 3rd party hosting provider.
- Updated the Developer Guide with additional information on how to create and deploy Key Add and Key Edit user controls with the Admin web application.
- Updated the Developer Guide with additional information on how to consume the business layer web service with Visual Studio.

**Bugs Fixed**

- None

**Notes**

- Due to incompatibilities between the installer and IIS, the installer no longer creates the two web applications automatically. These web applications must now be created manually. Complete instructions can be found in the quick start guide and the developer guide.

## *Version 5.0.437.1943*

NOV 3, 2012

**New Features**

- Web grids that support filtering and paging

**Bugs Fixed**

- None

**Notes**

- This version was never publicly released.

## *Version 5.1.682.1037*

JUNE 22, 2014

**New Features**

- Single web application that supports validations and key maintenance.
- Modern and professional Web User Interface.
- Grids that support paging, filtering and sorting. Realistically can support millions of keys
- Addition of key properties that does not require custom code.
- Added support for validation using WCF services.
- InstallKey License Validation can be done from within the web application.
- Added Support for Windows 8.1, Windows Server 2012 R2
- Added Support for SQL Server 2012, 2012 R2 and 2014
- Added Support for Visual Studio 2010/2012/2013

**Bugs Fixed**

- XCopy based installation eliminates installer issues.
- If the WMI system service is not running, the key validation would fail and result in the consumption of all key usages for that key, because the system identifiers could not be found. This version fixed this issue by correctly throwing an exception when zero identifiers are found.

**Notes**

- This version was a major rewrite of InstallKey to modernize it for the current .Net and Windows Environments.
- Dropped support for .Net Framework 2.0/3.0/3.5
- Dropped support for SQL 2005
- Dropped support for Visual Studio 2005 and 2008
- Dropped support for .asmx web services
- Dropped the business service configurator tool
- Removed the HOSTED conditional compilation symbol as it is no longer necessary

### *Version 5.2.697.1638*

JULY 20, 2014

**New Features**

- Added the ability to individually import keys from version 3.x and 4.x databases.
- Added trial dates to support expiring keys

**Bugs Fixed**

- Missing web.config in the Web App Sample is now included by default
- Client Side Tester provided a default URL at startup.
- Removed the <modules runAllManagedModulesForAllRequests="true" /> setting from the web.config. This setting is not relevant as InstallKey will work with the default server settings.

**Notes**

- Added SetServiceAddress method for defining the service location to be used with communication with the server.
- Removed the service location from the ValidateAgainstServer method. ValidateAgainstServer is no longer overloaded and is now just one method call. The overloaded methods are still available for now, but have been marked as Obsolete and will be removed in a future version.

### *Version 5.3.719.1517*

AUGUST 31, 2014

**New Features**

- Added the ability to modify the web site title bar and branding.
- Added validation without an internet connection.

**Bugs Fixed**

- A few spelling errors in the web page static content was fixed.

**Notes**

- None

### *Version 5.4.744.1028*

OCTOBER 12, 2014

**New Features**

- Added pre-validation and post-validation interfaces.
- Added the ability to populate the property bag values when calling the ValidateAgainstServer method or on the server
- Added pre-validation, post-validation and property bag usage samples.

**Bugs Fixed**

- A few spelling errors in the web page static content was fixed.

**Notes**

- The ValidateAgainstServer methods that were made obsolete in version 5.2 have been removed. You must call SetServiceAddress prior to calling ValidateAgainstServer.

### *Version 5.5.801.1051*

DECEMBER 24, 2014

**New Features**

- Added the Application Programming Interface web service and client side Api objects.
- Added user roles for API, System Settings, Keyset and Sure Key access.

**Bugs Fixed**

- Incorrectly defined indices on the LoginUser, Keyset and SureKey tables were fixed.
- When the users session in the Web application times out, an exception was thrown on the next postback. This has been fixed and the user is redirected to login page.
- Fixed incorrect class names in the dev guide documentation.

**Notes**

- This version includes a database schema change and additional fixed database content that must be applied.
- The contents of the web.config file has changed.

## *Version 5.6.811.1554*

JANUARY 3, 2015

**New Features**

- Added icons to the web application
- Documented how to enable the web services over https.
- Updated the ClientValidator and Api objects to automatically adjust the binding when the service URL schema is https.

**Bugs Fixed**

- Compilation mode in the web config is now set to Debug=false.
- Service metadata and wsdl is disabled in the web.config.

**Notes**

- The contents of the web.config file has changed.

## *Version 5.7.837.1317*

MAY 17, 2015

**New Features**

- InvalidateUsageAgainstServer – Remove key usage to allow user to move a key to another system.
- InvalidateLocalSurety – Removes the local surety.
- Web application can be installed in Microsoft Azure web hosting – issues that prevented hosting the database in Azure have been resolved.

**Bugs Fixed**

- UsageValidation records were not being created on keys that were imported from InstallKey 3 or 4. The import code has been fixed and the database script will create the missing records, if any.
- All database tables have clustered indices. (Required for Azure hosted database)
- The usage of OPENXML in TSQL commands has been removed. (This was replaced because Azure hosted databases do not support OPENXML)
- Spelling errors corrected.

**Notes**

- Changed the clustering on the LoginUser, LoginUserPassword, PersistentStore and Keyset tables so that they cluster on the primary key.
- The unused content column has been removed from the UsageValidation table.
- This version includes a database schema change and additional fixed database content. The database scripts must be applied to the database when upgrading from a prior version of InstallKey.