



ImageGear Licensing and Deployment Kit

**For ImageGear Products
For Unix Platforms**



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ImageGear Licensing and Deployment Kit

The purpose of this document is to provide ImageGear developers with a guide for easily deploying their developed application to end users. Our goal at AccuSoft is to make this deployment licensing process easy for you and transparent to your end user.

This document is comprised of the following major sections:

- [Terminology](#) - defines the terms used in this document.
- [Licensing Overview](#) - explains the two deployment licensing models used to deploy your ImageGear-based application.
- [Application Packaging](#) - describes how to package your ImageGear based application.
- [Using Gold Licensing](#) and/or [Using Platinum Licensing](#) - provide instructions for how to use each of the licensing models.
- [ImageGear Licensing API Reference](#) - describes the APIs you will need to implement in your ImageGear-based application.
- [Troubleshooting Licensing and Deployment](#) - describes the most common situations that can happen on the end user's machine and how to address them.

Terminology

The following terms are used to describe the ImageGear licensing and deployment process:

Deployment Licensing Service	The Web service at AccuSoft that handles all licensing requests.
Vendor	AccuSoft customer who is developing an ImageGear-based application (you).
End user	The customer using your application.
Access key	The key provided to the end user for licensing the application.

Hardware ID	The identifier of the end user's machine: Linux: MAC address of the network adapter (HOST ID if the network adapter doesn't exist) Solaris: HOST ID (CPU serial number) AIX: MAC address of the network adapter (HOST ID if the network adapter doesn't exist) HP-UX: HOST ID (CPU serial number)
Hardware key	The key constructed on the end user's machine by combining the access key and hardware ID of the machine.
License key	The key containing information about ImageGear licensed features and hardware parameters of the target machine (if bound to hardware parameters).
Solution name	Name of your ImageGear-based application.
Solution key	A combination of 4 32-bit integers unique for each solution that is using AccuSoft technology. It's generated and assigned to your solution by AccuSoft.
Deployment Pool	Each solution can have several deployment pools associated with it. A Pool is a set of licenses of the same kind. When a pool is set up, product features, the deployment model, and other information is associated with it. All the licenses from the same pool have the same attributes, except for hardware parameters (if bound to hardware parameters).
Vendor Licensing Utility	The Web application you use to view deployment pools and obtain access keys.
End User Licensing Utility	The Web application you use to generate license keys based on hardware keys.

Licensing Overview

There are two ImageGear deployment licensing models for Unix platforms:

Gold	Bound to hardware parameters, and therefore an individual node-locked license key has to be generated for each system where the ImageGear-based solution is used.
Platinum	Not bound to hardware parameters, and therefore only one license key is required per ImageGear-based application.

See Also:

[About the Gold Model Process](#)

[About the Platinum Model Process](#)

About the Gold Model Process

For the [Gold](#) model, the following three concepts are important:

Access key	Uniquely identifies each license issued by AccuSoft. When deployment licenses are bought, the number of access keys generated by AccuSoft is equal to the number of licenses bought. You need to distribute access keys to end users – one license key for each end user's machine.
Hardware ID	The identifier of the end user's machine.
Hardware key	The key constructed on the end user's machine by combining the access key and the hardware ID of the end user system.
License key	Generated by the Deployment Licensing Service in exchange for the hardware key, and stored in the license file on the end user's system.

The [Gold](#) model process works as follows:

1. You use the [Vendor Licensing Utility](#) to view deployments, pools, and to generate and retrieve access keys.
2. An individual access key is distributed for each end user's system where the ImageGear-based application is deployed.
3. The end user obtains a hardware ID by using "EnvParamsUtility" distributed with the application and constructs a hardware key as follows:
0,<access key>,<hardware key>

For example:

```
0,0000-1111-2222-3333-4444,mac-00-11-22-33-44-55
```

After the above steps are done, please do one of the following:

- If the end user has Internet connection, he can generate a license key and download a license file based on the hardware key using the [End User Licensing Utility](#).
- If the end user has no Internet connection, he can communicate the hardware key to you (through e-mail, phone or fax) and you would have to generate a license key based on the hardware key and download a license file using the [End User Licensing Utility](#), and then send the license file back to the end user.

In result, the license file ("`accusoft.<Solution name>.imagegear`") has to be stored on the end user's machine.

In summary, the **Gold** model requires you to use the [Vendor Licensing Utility](#) and requires you or your end user to use the [End User Licensing Utility](#) for all licensing needs.

You can set up custom end user licensing scenarios, for instance directing end users to come to a Web application hosted on your Web site to get a license key.

About the Platinum Model Process

For the [Platinum](#) model, a single license key is generated for each ImageGear-based solution and is used to initialize the ImageGear core component using the ImageGear product licensing API. No further actions are required to license your application on the end user's system.

Application Packaging

Regardless of your deployment model, the first step in deploying your application is to package the required ImageGear runtime components.

The following content of the **/AccuSoft/ImageGear/<Version>/Unix/Bin/<Unix OS>/.** from your ImageGear Installation represents the ImageGear runtime components:

- `libIGLZW.*` - ImageGear LZW components
- `libIGPDF.*` - ImageGear PDF components
- `libImageGear.*` - ImageGear Core components

You can take these components and include them into the installation package for your application.

If you are using the [Gold](#) Licensing model:

- The "`EnvParamsUtility`" located in the **/AccuSoft/ImageGear/<Version>/Utils/<Unix OS>/** has to be distributed
- Also please make sure your installation routine defines the `IMAGE_GEAR_LICENSE_DIR` environment variable that contains a path to the "`accuoft.<Solution name>.imagegear`" license file. For example:
`IMAGE_GEAR_LICENSE_DIR=$HOME/<Your Application Name>/License`

The end user will obtain the license file and place it to the `$HOME/<Your Application Name>/License` directory.

Using Gold Licensing

Deployment licensing for [Gold](#) model can be grouped into two key processes:

- [Application Preparation](#)
- [End User Licensing](#)

See Also:

[About Web-based Licensing Utilities](#)

[ImageGear Licensing API Reference](#)

[Troubleshooting Licensing and Deployment](#)

About Web-based Licensing Utilities

There are two AccuSoft Web-based licensing utilities you should use in the [Gold](#) licensing model:

- [Vendor Licensing Utility](#)
- [End User Licensing Utility](#)

Vendor Licensing Utility

Vendor Licensing Utility (**WebDeployClient** utility) is the Web application that allows you to

- Browse solutions, deployment pools, and the attributes of both such as [Solution name](#) and [Solution key](#).
- View the list of licensed product features and versions, e.g. CORE, OCR for ImageGear Professional.
- Generate new [Access key](#) and obtain existing access keys for each pool.

To run **WebDeployClient** utility type URL:

<https://www.accusoft.com/Licensing/v1/WebDeployClient/Login.aspx>

in the address combo box of Internet Explorer and press **Enter**.

In the opened WebDeployClient **Entry** screen type your **Username** and **Password**, provided to you by AccuSoft and begin to manage your deployment solutions.

End User Licensing Utility

End User Licensing Utility (**WebDeployUser** utility) is the Web application that allows you to generate a license key based on the hardware key. (This is used in the manual mode process).

To run **WebDeployUser** utility type URL:

<https://www.accusoft.com/Licensing/v1/WebDeployUser/WebDeployUser.aspx>

in the address combo box of Internet Explorer and press **Enter**.

In the opened WebDeployUser **Entry** screen type your hardware key and click the Download License button to get your license key.

See Also:

[Application Preparation](#)

[End User Licensing](#)

Application Preparation

The following are provided by AccuSoft to prepare your application for deployment:

- Access to the [Vendor Licensing Utility](#) (the **username** and **password** required to access it are generated)
- The following ImageGear runtime components:
 - `libIGLZW.*` - ImageGear LZW components

- `libIGPDF.*` - ImageGear PDF components
- `libImageGear.*` - ImageGear Core components

The application preparation process consists of 2 steps:

1. Adding ImageGear Licensing API Calls to Your Application
2. Generating Access Keys

Adding ImageGear Licensing API Calls to Your Application

For the [Gold](#) deployment licensing model you should provide your ImageGear-based application with solution name and solution key obtained using [Vendor Licensing Utility](#). You should do this using ImageGear licensing API:

- To specify the [Solution name](#) you should call `IG_lic_solution_name_set()` function.

NOTE: When you are ready to deploy your ImageGear-based application you should replace the generic [Solution name](#) that you have used with ImageGear evaluation and development licenses with the unique **Solution name** assigned to your application by AccuSoft.

- To specify the [Solution key](#) you should call `IG_lic_solution_key_set()` function.

Generating Access Keys

The [Vendor Licensing Utility](#) can be used to generate [Access keys](#). After logging in to the utility and selecting the solution and deployment pool, the following view is presented:

View pool attrs	v14 test	K3G3-6NA6-KNA8-VA56-SNGW	ImageGear PLATINUM 0	0
View pool attrs	v14 Unix deployment test	ARR7-K6DR-R9DA-LY75-KK56	ImageGear PLATINUM 0	0
View pool attrs	v14 windows user pool	53MH-H3QE-8TQQ-W2EE-E76H	ImageGear PLATINUM 0	0
View pool attrs	website tester	8G56-PPH3-3EGV-4EXG-Y63M	ImageGear GOLD 1000	1
View pool attrs	Windows64 test	NK56-SGV4-V35M-58M6-8A3N	ImageGear PLATINUM 0	0

Features: Product version (s): Platform:

Executable name:

[Create new access keys](#) Download new keys [Download all access keys](#) [Logout](#)

Number of new keys: Max: 0

[Documentation](#)

To generate access keys:

1. Specify the number of keys to generate in the **Number of new keys** field.
2. If you want to download the new keys once they are created, click the **Download new keys** checkbox before generating the new keys.
3. Click the **Create new access keys** button to generate the specified number of access keys.

NOTE: To download all access keys generated for this pool thus far, click the **Download all access keys** button.

See Also:

[End User Licensing](#)

[ImageGear Licensing API Reference](#)


End User Licensing

The following is the [End user](#) Licensing scenario:

1. You distribute a unique [Access key](#) to the end user from the pool of created access keys.
2. The end user obtains a [Hardware ID](#) by using "`EnvParamsUtility`" distributed with your application and constructs a hardware key as follows: `0,<access key>,<hardware key>`. For example: `0,0000-1111-2222-3333-4444,mac-00-11-22-33-44-55`
3. If the end user has Internet connection, he generates a [License key](#) and downloads a license file based on the [Hardware key](#) using the [End User Licensing Utility](#).

If the end user has no Internet connection, he communicates the [Hardware key](#) to you (through e-mail, phone or fax) and you would have to generate a [License key](#) based on the hardware key and download a license file using the [End User Licensing Utility](#), and then send the license file back to the end user.

The [End User Licensing Utility](#) provides the following interface:



The screenshot shows a web-based interface for ImageGear Licensing. At the top, it says "ImageGear Licensing" and "Leading the industry in customer support". Below that, it states "Companies rely on AccuSoft for quality support and follow-through." The main instruction is "Please enter the hardware key and click the button to generate the license." There are two input fields: "Hardware Key:" and "Access Key:". Below the input fields is a "Download license" button and a link for "Documentation".

The downloaded license file ("`accusoft.<Solution name>.imagegear`") is stored on the end user's machine.

NOTE: The [License key](#) is locked to the [Hardware ID](#) of the system. If the Hardware ID is changed, then a new license file has to be obtained.

See Also:

[Application Preparation](#)

[ImageGear Licensing API Reference](#)

Using Platinum Licensing

With the [Platinum](#) licensing model, no license file is required. AccuSoft will e-mail you all the necessary keys: [Solution name](#), [Solution key](#) and [License key](#). Then you will need to modify the code of your application to specify solution name, solution key, and license key using the following ImageGear API:

- To specify the [Solution name](#) you should call `IG_lic_solution_name_set()` function.

NOTE: When you are ready to deploy your ImageGear-based application you should replace the generic solution name that you have used with ImageGear evaluation and development licenses with the unique solution name assigned to your application by AccuSoft.

- To specify the [Solution key](#) you should call `IG_lic_solution_key_set()` function.
- To specify the [License key](#) for your application you should call `IG_lic_OEM_license_key_set()` function.

You will also need to package the following ImageGear runtime components:

- `libIGLZW.*` - ImageGear LZW components (if licensed)
- `libIGPDF.*` - ImageGear PDF components (if licensed)
- `libImageGear.*` - ImageGear Core components

See Also:

[About the Platinum Model Process](#)

[ImageGear Licensing API Reference](#)

ImageGear Licensing API Reference

This section provides you with the detailed reference for the following ImageGear licensing API:

- [IG_lic_OEM_license_key_set](#)
- [IG_lic_solution_key_set](#)
- [IG_lic_solution_name_set](#)

IG_lic_OEM_license_key_set

Declaration:

```
AT_ERRCODE ACCUAPI IG_lic_OEM_license_key_set( LPCHAR
lpLicenseKey );
```

Arguments:

lpLicenseKey	The string of ImageGear license key.
--------------	--------------------------------------

Description:

This function specifies the [License key](#) to ImageGear for the [Platinum](#) deployment licensing model.

Bits Per Pixel: N/A

Return Value:

Returns the result code of this function call.

IG_lic_solution_key_set

Declaration:

```
VOID ACCUAPI IG_lic_solution_key_set (  
    DWORD dwKey1,  
    DWORD dwKey2,  
    DWORD dwKey3,  
    DWORD dwKey4  
);
```

Arguments:

dwKey1	Key1 component of the solution key
dwKey2	Key2 component of the solution key
dwKey3	Key3 component of the solution key
dwKey4	Key4 component of the solution key

Description:

This function specifies your deployment [Solution key](#) for the [Gold/Platinum](#) deployment licensing models.

Bits Per Pixel: N/A

Return Value:

None.

IG_lic_solution_name_set

Declaration:

```
AT_ERRCODE ACCUAPI IG_lic_solution_name_set (LPCHAR  
lpSolutionName)
```

Arguments:

lpSolutionName	The license solution name.
----------------	----------------------------

Description:

This function provides the [Solution name](#) for your ImageGear license for the [Gold/Platinum](#) deployment licensing models.

Bits Per Pixel: N/A

Return Value:

Returns the result code of this function call.

Troubleshooting Licensing and Deployment

This section reviews potential issues you may experience during the licensing process.

The following are some general notes about licensing you should be aware of:

- The licensing process assumes that you have an Internet connection and the end user is able to communicate to you either via Internet, e-mail, phone or fax.
- Once an application is licensed, no further Internet connection or interaction is required until you re-install the system or restore a previously backed-up system onto new hardware.
- End Users are blocked from using the same access key to install the same application on different hardware. This is to prevent piracy.

See Also:

End user has no Internet connection

Hardware parameters have been changed or the ImageGear license has been transferred onto a new hardware system (Gold Model only)

Reinstallation of the ImageGear-based application into the same hardware system (Gold Model only)

The End User's license file is deleted or corrupted (Gold Model only)

End user has no Internet connection

It is not required for the end user to have an Internet connection.

But, please be advised that for the Gold licensing model an interaction on your part is required when installing the application on the end-user system.

Hardware parameters have been changed or the ImageGear license has been transferred onto a new hardware system (Gold Model only)

The license key is locked to the Hardware ID of the system, therefore if the hardware parameter (Hardware ID) has been changed, then you need a new license file.

Transferring happens during installation of application onto a new machine or as a result of restoring a backup onto different hardware.

On the new hardware system, you have to use the same access key that was used to license ImageGear on the old system. The Deployment Licensing Service will issue a new license key if a certain number of days (45 is the default value) have lapsed since the previous license key has been generated for the same access key with different hardware parameters. Otherwise end users need to contact you, and you would need to call AccuSoft to authorize a license transfer.

Reinstallation of the ImageGear-based application into the same hardware system (Gold Model only)

In this case, please make sure the same license file gets installed on the user's system.

The End User's license file is deleted or corrupted (Gold Model only)

In general, if the license file is deleted or corrupted it can be obtained again using the End User Licensing Utility.

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