

User Guide for Borrowing Licenses with INGRLicUtility.exe

A command line utility is provided to facilitate automated procedures for the borrowing and return of licenses from certificate based concurrent license servers.

The maximum time allowed for a borrowed license is 90 days except in special cases.

Execute the INGRLicUtility.exe command line utility from a command prompt. The screen will display the output or it can be included in a batch script and run silently with no output.

NOTE: This utility returns values into the dynamic environment variable ERRORLEVEL. This variable value is computed dynamically each time the value of the variable is expanded. If the user explicitly defines a variable with this name, then that definition will override the dynamic one and unexpected results will occur.

The command line utility, INGRLicUtility.exe, will be delivered to the program folder of the version of common licensing that is installed on the system. For example, for the x64 version 11.x of Common Licensing, the executable will be delivered in C:\Program Files\Intergraph\Licensing\11.x\Program.

How to Invoke INGRLicUtility.exe

A summary of the command line parameters and their usage are shown below. Optional parameters are shown in brackets []. The details of the specific command line parameters follow the command line examples. **NOTE:** The parameters are case sensitive.

To check if a license is currently borrowed on the machine use this command line:

```
INGRLicUtility.exe -isBorrowed -licenseFeature LICENSE_FEATURE  
-licenseVersion myVersion [-verbose]
```

When the *-isBorrowed* command line option is used, the utility checks if the specified license feature name and version is borrowed. If it is, the utility returns the number of days remaining before the license expires. If the license is not borrowed, the utility returns a negative value. A list of common error codes is included later in the document.

To borrow a license from a license server use this command line:

```
INGRLicUtility.exe -borrow -server @myServer -licenseFeature LICENSE_FEATURE  
-licenseVersion myVersion -date dd-mmm-yyyy  
[-time hh:mm] [-verbose]
```

When the *-borrow* command line option is used, the utility will borrow the specified license feature name and version from the given license server. The *-date* (*dd-mmm-yyyy* format) and *-time* (24-hour format *hh:mm*) parameters specify the date when the license will expire on the client and be reclaimed on the given server. The *-time* parameter is optional. A negative return value will specify an error. A list of common error codes is included later in the document.

To return a borrowed license to a license server use this command line:

INGRLicUtility.exe -return -server @myServer -licenseFeature LICENSE_FEATURE [-verbose]

When the `-return` command line option is used, the utility will return the borrowed license which corresponds to the specified license feature name to the given license server. A negative return value will specify an error.

Command Line Parameters

-isBorrowed: Specifies that the command line utility is to check if the license is borrowed.

-borrow: Specifies that the command line utility is to attempt to borrow the license.

-return: Specifies that the command line utility is to attempt to return the license.

-licenseFeature: This parameter specifies the license feature name to be used by the utility. This is usually the name of the product to be licensed or an abbreviation. For example, the license feature name for GeoMedia Professional is GeoMedia_Professional. This is the name you would see for a licensed product in a license file. If you do not know the license feature name of the product for which you wish to borrow a license, contact your system administrator.

-licenseVersion: This parameter specifies the license feature version associated with the license feature name. The license version is the major and minor version numbers (major.minor) of the product and does not include all the fixes versions; for example 6.1. If you do not know the license feature version of the product for which you wish to borrow a license, contact your system administrator.

-server: This parameter specifies the certificate based concurrent license server to borrow a license from or return a license to. This parameter must always start with an @ sign. The server itself can be specified either by the name of the server or by its IP address; for example, @myServer or @123.456.789.012.

-date: This parameter specifies the date on which the borrowed license should expire and be reclaimed by the license server. The date parameter is in *dd-mm-yyyy* format. For example, 12-Sep-2011 is a valid date format.

-time: This optional parameter specifies the time at which the borrowed license should expire on the given date. The time parameter is in the 24 hour *hh:mm* format. For example, 15:22 is a valid time format.

-verbose: This optional parameter specifies that informational and error messages should be written to stdout. If this parameter is not specified, nothing will be written to stdout.

Example Workflow

The following example is a batch script that calls the command line utility to check to see if a license is borrowed, borrows a license and then returns it. **NOTE:** the parameters for the –borrow call should all be on a single line.

```
REM
REM %1 : dd-mmm-yyyy date for license borrow
REM %2 : hh:mm time for license borrow
REM %3 : -verbose flag to show output or not (optional, if left off it will be silent)
REM

REM
REM Check to see if the desired license is borrowed. If it is not, borrow it, otherwise report the number
REM of days till expiration.
REM
INGRLLicUtility.exe -isBorrowed -licenseFeature GeoMedia_Professional -licenseVersion 6.1 "%3"
if %ERRORLEVEL% LSS 0 (
ECHO License is not borrowed.
) ELSE (
ECHO Number of days till expiration = %ERRORLEVEL%
GOTO RETURNBORROW
)

REM
REM Since the license is not borrowed, we'll continue with the test
REM and try to borrow a license without the -time option.
REM
INGRLLicUtility.exe -borrow -server @FlexTest -licenseFeature GeoMedia_Professional
                        -licenseVersion 6.1 -date "%1" "%3"
if %ERRORLEVEL% LSS 0 (
ECHO Failure: Borrow failed.
GOTO FAILTEST
)

REM
REM Check to see if the desired license is borrowed. If it is not, borrow it, otherwise report the number
REM of days till expiration.
REM
INGRLLicUtility.exe -isBorrowed -licenseFeature GeoMedia_Professional -licenseVersion 6.1 "%3"
if %ERRORLEVEL% LSS 0 (
ECHO Failure: License is not borrowed.
GOTO FAILTEST
) ELSE (
ECHO Number of days till expiration = %ERRORLEVEL%
GOTO RETURNBORROW
)

:RETURNBORROW
```

```

REM
REM Return the borrowed license. Do this test with the IP address of FlexTest.
REM
INGRLicUtility.exe -return -server @129.135.178.151 -licenseFeature GeoMedia_Professional "%3"
if %ERRORLEVEL% LSS 0 (
ECHO Failure: License is not returned.
GOTO FAILTEST
)

ECHO Test passed!
GOTO SKIPFAIL
:FAILTEST
ECHO Test failed!
:SKIPFAIL

```

Common Error codes

The following table includes a list of common error codes. It is possible that other errors may occur. If you need additional diagnostic information, create a blank ascii file called licerr.txt in c:\temp and run the process again. Diagnostic information from lower level licensing functions will be written to this file that may help you determine the cause of your problems.

-5	The specified license could not be returned. If a license is not currently borrowed, this is not a problem.
-1001	The date specified was not valid. This could be because the date does not fit the dd-mmm-yyyy format, the specified date is before the current date, or an invalid day or month was given.
-1002	The time specified was not valid. This could be because the time does not fit the hh:mm format or an invalid hour or minute was given.
-1003	The server specified does not start with a @ character.
-1004	General command line usage error.
-1005	The specified license is not currently borrowed.
-1006	The specified license could not be checked out from the server during the borrow operation.