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OnGuard Help

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Title page 1

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OnGuard Help

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Table of Contents

	Foreword	0
Part I	Overview	7
1	Contents	. 7
2	History	. 8
3	License	. 9
Part II	Classes 1	7
1	TOgCodeBase Class	17
Part III		8
1	TOgDateCode Component	18
2	3 - 4,	
3	TOgMakeCodes Component	19
4	TOgMakeKeys Component	19
5		
6	9· · · · · - · · · · · · · · · · · ·	19
7	TOgRegistrationCode Component	19
8	TOgSerialNumberCode Component	19
9	9 - p - s - s - s - s - s - s - s - s - s	
10	TOgUsageCode Component	20
Part IV	Low-Level Routines 2	21
1	API Reference	21
Part V	Types 2	23
Part VI	Files 2	25
1	OgConst	25
2	OgUtil	25
3	OnGuard	29
4	OgFirst	29
5	OgNetWrk	29
6	OgNetWrkUtil	30
7	OgFile	30
8	OgProExe	30
9	OgProExeUtil	31
10	OnGuard1	31

12 OnGuard3 34 13 OnGuard4 35 14 OnGuard5 36 15 OnGuard6 36 16 OnGuard7 36 17 OgAbout0 36 18 OgReg 37 19 OgCodeSign 37 20 OgStamp 38	11	OnGuard2	
14 OnGuard5	12		
15 OnGuard6	13	OnGuard4	35
16 OnGuard7	14		
17 OgAbout0	15	OnGuard6	36
18 OgReg	16	OnGuard7	36
19 OgCodeSign	17		
	18		
20 OgStamp	19		
	20	OgStamp	38

Index 39

Foreword

This is just another title page placed between table of contents and topics

1 Overview

OnGuard is a library of components, classes, and routines that allow you to protect your applications after they are released to the public. Using OnGuard, you could release an application that is partially functional so that users can try it. When a user is ready to purchase the fully functional application, you supply a release code to unlock all of the features (or the subset that the user is purchasing). You can make your application readily available to a large number of potential users, but still protect your investment. Application protection is accomplished through the use of *keys* to lock or restrict one or more features of an application and several types of *release codes* (or access codes) to enable them.

1.1 Contents

Contents

OnGuard is a library of components, classes, and routines that allow you to protect your applications after they are released to the public. Using OnGuard, you could release an application that is partially functional so that users can try it. When a user is ready to purchase the fully functional application, you supply a release code to unlock all of the features (or the subset that the user is purchasing). You can make your application readily available to a large number of potential users, but still protect your investment. Application protection is accomplished through the use of *keys* to lock or restrict one or more features of an application and several types of *release codes* (or access codes) to enable them.

Keys and Release Codes

TOgMakeKevs Component

TOgMakeCodes Component

Release Code Components

TOgCodeBase Class

TOgDateCode Component

TOgDavsCode Componen

TOaNetCode Component

TOgRegistrationCode Component

TOgSerialNumberCode Component

TOgSpecialCode Component

TOgUsageCode Component

Detecting Changes to an EXE

TOaProtectExe Component

Single Instance Applications

OaFirst Uni

Low-Level Routines

API Reference

License

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1.2 History

Version 1.13 is the original source released by TurboPower.

Delphi 7 support was added in this release.

This release was ported to CLX

The CLX port was then ported to FPC/Lazarus.

SongBeamer added packages for Delphi 2009 and Delphi 2010 and made some changes for Unicode support.

Version 1.14 was created by Roman Kassebaum.

This version only had packages for Delphi 2009 and Delphi 2010 with the new version number.

There were newsgroup postings saying it did not compile where the SongBeamer release did.

Version 1.15 was created by Andrew Haines.

Packages for Delphi XE through XE5 were added.

Source version numbers were updated.

A merge of the 1.13, 1.14, SongBeamer, CLX, and FPC/Lazarus ports was started.

Unit tests for a number of the API routines were created using Delphi XE5 and DUnit.

Unit test values were pulled from Delphi 6 running version 1.13.

The original HLP file was imported into a Help and Manual project.

The H&M project was exported to CHM and HxS files as well as HTML.

The help has been expanded to include the various types, files, and routines.

Screen shots have been added to the help file.

The SourceForge feature request 5 has been implemented.

The SourceForge bug reports 6, 7, 8, and 10 have been implemented.

As of 2015-Dec-07:

- support for Delphi XE8 has been added.
- support for Delphi 10 Seattle has been added.
- support for 64-bit has been started.
- ognetwrk.pas has been split to separate the visual/non-visual portions (see ognetwrkutil.pas for non-visual parts)
- The W1050 warnings in ogutil.pas have been "corrected".
- The W1058 warnings in ogutil.pas have been "corrected".
- new folder "bin" has been added to contain the compiler output files.
- DPK files for Delphi 3-7, 2005-2010, XE-XE4 have been updated for new files and structure (untested though)

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2 Classes

TOgCodeBase

2.1 TOgCodeBase Class

The TOgCodeBase class is the ancestor class for the other "release code" components. It implements several properties and methods that are common for all of its descendants.

3 Components

	Delphi								FPC		
	Win 16	Win 32	Win64	MacOS	iOS	Androi d	Linux	UNIX	Win32	Win64	Linux
TOgMakeKev s	Yes	Yes	Yes				n/a				
TOgMakeCod es	Yes	Yes	Yes				n/a				
			•			•			•		
TOgDateCode	Yes	Yes	Yes				n/a				
TOgDavsCod	Yes	Yes	Yes				n/a				
TOgNetCode	Yes	Yes	Yes				n/a				
TOgRegistrat onCode	Yes	Yes	Yes				n/a				
TOgSerialNu mberCode	Yes	Yes	Yes				n/a				
TOgSpecialCo	Yes	Yes	Yes				n/a				
TOqUsaqeCd de	Yes	Yes	Yes				n/a				
TOgNetCode	Yes	Yes	Yes				n/a				
TOaProtectEX E	Yes	Yes	Yes	No	No	No	n/a				

3.1 TOgDateCode Component

TOgDateCode implements a Start/End Date release code. Use this release code when you need to limit the amount of time that an application (or specific features of an application) can be used. Both a start date and an end date are encoded into this release code. This allows you to detect a change to the computer's clock that results in a date outside of the date range or an attempt to alter the registry or INI file entry.

3.2 TOgDaysCode Component

TOgDaysCode implements a Number of Days Used release code. This release code limits the number of days that an application (or specific features) can be used. The application can be run an unlimited number of times each day.

3.3 TOgMakeCodes Component

TOgMakeCodes is a non-visual component that displays a dialog when its Execute method is called. The dialog allows you to create several types of release codes. Each release code consists of 8 bytes and is viewed and entered as 16 hexadecimal digits.

3.4 TOgMakeKeys Component

TOgMakeKeys is a non-visual component that displays a dialog when its Execute method is called. The dialog allows you to create and maintain keys. Keys are used to encode and decode the release codes that the other OnGuard components use.

3.5 TOgNetCode Component

TOgNetCode implements a Network Metering release code. This release code limits the number of concurrent instances of an application that are allowed to run on a network. It does this through the use of a network release code and a Network Access File. The use of a network release code is no different than other release codes, but there are additional maintenance issues related to the network file that your application must handle.

3.6 TOgProtectExe Component

The TOgProtectExe component allows you to detect changes to your EXE file. The size of the EXE file and a 32-bit CRC (Cyclical Redundancy Check) value are recorded in the EXE file and checked each time the application is run.

3.7 TOgRegistrationCode Component

TOgRegistrationCode implements a Simple Registration release code. This release code ties the user's name, company name, or some other textual data to the registration code.

3.8 TOgSerialNumberCode Component

TOgSerialNumberCode implements a Serial Number Registration release code. This release code ties a serial number to the release code. This release code is very similar to the Simple Registration release code. The only difference is in the data that is used as part of the code generation process. The Serial Number Registration release code uses a number instead of a text string.

3.9 TOgSpecialCode Component

TOgSpecialCode implements a Special Registration release code. This release code is based on a special value (a long integer) that can be used to indicate anything you like.

3.10 TOgUsageCode Component

TOgUsageCode implements a Usage Count release code. This release code limits the number of times an application can be executed.

4 Low-Level Routines

Generate Key Routines

- GenerateRandomKeyPrim
- GenerateMD5KeyPrim
- GenerateTMDKeyPrim

Modifier Routines

- ApplyModifierToKeyPrim
- CreateMachineID
- GenerateDateModifierPrim
- GenerateMachineModifierPrim
- GenerateStringModifierPrim
- GenerateUniqueModifierPrim

Hash Routines

Mixing Routines

MixBlock

Utility Routines

- ExpandDate
- ⇔ ShrinkDate
- BufferToHex
- BufferToHexBytes
- HexStringIsZerd
- HexToBuffer
- GetCodeType
- GetExpirationDate

Date Code

- GetDateCodeValue
- InitDateCode

- InitDateCodeEx
- □ GetDateCodeEnc

Days Code

- □ DecDaysCode
- GetDavsCodeValue
- InitDaysCode
- IsDaysCodeExpired

Registration Code

- IsRegCodeRegisteredTo

Serial Number Code

- GetSerialNumberCodeValue
- ☐ IsSerialNumberCodeExpired

Special Code

- ☐ GetSpecialCodeValue
- InitSpecialCode
- □ IsSpecialCodeExpired
- IsSpecialCodeValid

Usage Code

- □ DecUsageCode
- GetUsageCodeValue
- IsUsageCodeExpired

Network Code

- □ CheckNetAccessFile
- CreateNetAccessFile
- CreateNetAccessFileEx
- DecodeNAFCountCode
- □ GetNetAccessFileInfo
- EncodeNAFCountCode
- LockNetAccessFile
- ResetNetAccessFile
- UnlockNetAccessFile

Protect EXE

- ProtectExe
- UnprotectExe
- IsFileTampered
- UpdateChecksum
- UpdateCRC32

Single Instance

- IsFirstInstance
- ActivateFirstInstance

5 Types

Enter topic text here.

```
{$IFDEF DELPHI22UP}
                                                   {AH.02}
ogLongInt = FixedInt;
                                                {AH.02}
{$ELSE}
                                             {AH.02}
                                                {AH.02}
ogLongInt = LongInt;
                                             {AH.02}
{$ENDIF}
PogLongInt = \(^{\text{ogLongInt}}\);
                                                  {AH.02}
{$IFDEF Win16}
DWord
          = LongInt;
PDWord = ^DWord;
TGUID
         = GUID; {Delphi 1.0 defines it as GUID - Delphi 2.0 defines it as TGUID}
AnsiChar = Char;
PAnsiChar = PChar;
{$ENDIF}
{$IFDEF MACOS}
DWord
          = Cardinal;
PDWord = ^DWord:
{$ENDIF}
{$IFNDEF FPC}
PByte
          = ^Byte;
PByteArray = ^TByteArray;
TByteArray = array [0..MaxStructSize div SizeOf(Byte) - 1] of Byte;
PLongInt
            = ^LongInt;
{$ENDIF}
PLongIntArray = ^TLongIntArray;
TLongIntArray = array [0..MaxStructSize div SizeOf(LongInt) - 1] of LongInt;
PogLongIntArray = ^TogLongIntArray;
                                                                    {AH.02}
TogLongIntArray = array [0..MaxStructSize div SizeOf(ogLongInt) - 1] of ogLongInt; {AH.02}
TLonaIntRec
PCod€
\mathsf{TCod}\epsilon
TCodeTvpe
TΚeν
TKevTvp€
TTMDContext
TMD5Context
TMD5Diaest
T128Bit
T256Bii
TEsMachineInfoSet
TCodeStatus
```

TNetAccess

TNetAccessInfo

TGetFileNameEvent

```
PSignatureRec = ^TSignatureRec;
TSignatureRec = packed record
 Sig1 : DWord;
                                                {!!.07}
 Sig2: DWord;
                                                 {!!.07}
 Sig3: DWord;
                                                {!!.07}
 Offset: DWord;
                                                 {!!.07}
 Size : DWord;
                                                {!!.07}
 CRC: DWord;
                                                 {!!.07}
 Sig4 : DWord;
                                                 {!!.07}
 Sig5 : DWord;
                                                 {!!.07}
 Sig6 : DWord;
                                                {!!.07}
end;
TExeStatus = (
exeSuccess,
                      {no error}
                     {the file size has changed}
exeSizeError,
                     {CRC does not match}
exelntegrityError,
exeNotStamped,
                       {the exe has not been stamped}
exeAccessDenied
                        {share violation}
                                                        {!!.05}
);
```

TCheckedExeEvent = procedure(Sender : TObject; Status : TExeStatus) of object;

6 Files

Enter topic text here.

6.1 OgConst

Enter topic text here.

6.2 OgUtil

Enter topic text here.

Types

```
{$IFDEF DELPHI22UP}
                                                  {AH.02}
                                               {AH.02}
ogLongInt = FixedInt;
{$ELSE}
                                             {AH.02}
ogLongInt = LongInt;
                                               {AH.02}
{$ENDIF}
                                             {AH.02}
PogLongInt = \(^{\text{ogLongInt}}\);
                                                 {AH.02}
{$IFDEF Win16}
DWord = LongInt;
PDWord = ^DWord;
TGUID
        = GUID; {Delphi 1.0 defines it as GUID - Delphi 2.0 defines it as TGUID}
AnsiChar = Char;
PAnsiChar = PChar;
{$ENDIF}
{$IFDEF MACOS}
DWord = Cardinal;
PDWord = ^DWord:
{$ENDIF}
{$IFNDEF FPC}
          = ^Byte;
PByte
PByteArray = ^TByteArray;
TByteArray = array [0..MaxStructSize div SizeOf(Byte) - 1] of Byte;
PLongInt
            = ^LongInt;
{$ENDIF}
PLongIntArray = ^TLongIntArray;
TLongIntArray = array [0..MaxStructSize div SizeOf(LongInt) - 1] of LongInt;
PogLongIntArray = ^TogLongIntArray;
                                                                   {AH.02}
TogLongIntArray = array [0..MaxStructSize div SizeOf(ogLongInt) - 1] of ogLongInt; {AH.02}
```

TLongIntRed PCode TCode TCodeType TKev TKevType TMDContext

```
TMD5Digest
T128Bit
T256Bit
TEsMachineInfoSet
TCodeStatus
```

Constants

```
DefAutoCheck
               = True:
 DefAutoDecrease = True;
 DefCheckSize = True;
 DefStoreCode = False:
 DefStoreModifier = False;
 DefStoreRegString = False;
 OgVersionStr
                 = '1.15';
{magic values}
 DaysCheckCode = Word($649B);
 DateCheckCode = Word($A4CB);
 NetCheckCode = Word($9341);
RegCheckCode = Word($D9F6);
 SerialCheckCode = Word($3C69);
 UsageCheckCode = Word($F3D5);
 SpecialCheckCode = Word($9C5B);
 {$IFDEF Win32}
 MaxStructSize = 1024 * 2000000; {2G}
 {$ELSE}
 MaxStructSize = 1024 * 64 - 1; {64K}
 {$ENDIF}
 DefCodeType
                = ctDate;
 DefKeyType
                = ktRandom;
BaseDate
```

Exceptions

```
EOnGuardException = class(Exception);

EOnGuardBadDateException = class(EOnGuardException); {!!.15}

EOnGuardClockIssueException = class(EOnGuardException);
```

Variables

StrRes: TOgStringResource;

Routines

Generate Key Routines

GenerateRandomKevPrim

- GenerateMD5KeyPrim
- GenerateTMDKeyPrim

Modifier Routines

- ApplyModifierToKeyPrim
- □ CreateMachineID
- GenerateDateModifierPrim
- GenerateMachineModifierPrim
- GenerateStringModifierPrim
- GenerateUniqueModifierPrim

Hash Routines

StringHashEl[™]

Mixing Routines

MixBlock

Utility Routines

- ExpandDate
- BufferToHex
- BufferToHexBytes

- GetCodeType
- GetExpirationDate
- OgFormatDate
- A Min
- XorMem
- MyHashElf
- GetDiskSerialNumber
- GetDriveType
- HiWord
- CoCreateGuid

Date Code

- GetDateCodeValue

- GetDateCodeStar
- □ GetDateCodeEnc
- InitDateCodeEx

Days Code

- □ DecDavsCode
- GetDavsCodeValue

- ☐ InitDaysCode
- Is Days Code Expired

Registration Code

- ☐ InitRegCode
- IsRegCodeExpired
- IsRegCodeRegisteredTo

Serial Number Code

- GetSerialNumberCodeValue
- InitSerialNumberCode
- ☐ IsSerialNumberCodeExpired
- IsSerialNumberCodeValid

Special Code

- GetSpecialCodeValue
- InitSpecialCode
- ☐ Is SpecialCodeExpired
- IsSpecialCodeValid

Usage Code

- DecUsageCode
- □ GetUsageCodeValue
- IsUsageCodeExpired
- IsUsageCodeValid

```
{$IFDEF Win16}
```

function GetDiskSerialNumber(Drive: AnsiChar): LongInt;

{\$ENDIF}

{\$IFDEF LINUX}

function GetDiskSerialNumber(Drive : AnsiChar) : LongInt; function MyHashElf(const Buf; BufSize : LongInt) : LongInt;

{\$ENDIF}

function Max(A, B : LongInt): LongInt; function Min(A, B : LongInt) : LongInt;

procedure XorMem(var Mem1; const Mem2; Count : Cardinal);

function OgFormatDate(Value : TDateTime) : string; {!!.09}

{\$IFDEF KYLIX}

function GetDriveType(drive:Integer): Integer;

function HiWord(I: DWORD):Word;

function CoCreateGuid(out guid: TGUID): HResult;

function timeGetTime: DWord;

{\$ENDIF}

{\$IFDEF FPC}

{\$IFDEF LINUX}

function GetDriveType(drive:Integer): Integer;

function HiWord(I: DWORD):Word;

function CoCreateGuid(out guid: TGUID): HResult;

function timeGetTime: Cardinal;

{\$ENDIF}

{\$IFDEF FREEBSD}

function GetDriveType(drive:Integer): Integer;

function HiWord(I: DWORD):Word;

function CoCreateGuid(out guid: TGUID): HResult;

function timeGetTime: Cardinal;

{\$ENDIF} {\$ENDIF}

6.3 OnGuard

The OnGuard unit provides all of the code components except for TOgNetCode.

Classes

TOgCodeBase

Components

TOaMakeKevs

TOgMakeCodes

TOgDateCode

TOgDavsCode

TOaNetCode

TOaReaistrationCode

TOgSerialNumberCode

TOgSpecialCode

TOgUsageCode

6.4 OgFirst

The OgFirst unit provides routines that allow you to detect when a second instance of an application is being executed and to force the previous instance of the application to become the active application.

ActivateFirstInstance

IsFirstInstance

6.5 OgNetWrk

The OgNetWrk unit provides the network access component.

Types

TGetFileNameEvent

Components

TOaNetCode

6.6 OgNetWrkUtil

The OgNetWrkUtil unit provides the network access classes, types and API routines.

Types

TNetAccess TNetAccessInfo

Routines

CheckNetAccessFile

CreateNetAccessFile

CreateNetAccessFileEx

DecodeNAFCountCode

EncodeNAFCountCode

GetNetAccessFileInfo

lsAppOnNetwork

LockNetAccessFile

ResetNetAccessFile

UnlockNetAccessFile

6.7 OgFile

This unit contain file related routines formerly located in ogutil.

GetFileSize LockFile

UnlockFile

FlushFileBuffers

6.8 OgProExe

Enter topic text here.

Types

TCheckedExeEvent = procedure(Sender : TObject; Status : TExeStatus) of object;

Classes

TOgProtectExe

6.9 OgProExeUtil

Enter topic text here.

```
Types
```

Routines

IsExeTampered
ProtectExe
UnprotectExe
IsFileTampered
UpdateChecksum
FileCRC32
UpdateCRC32

6.10 OnGuard1

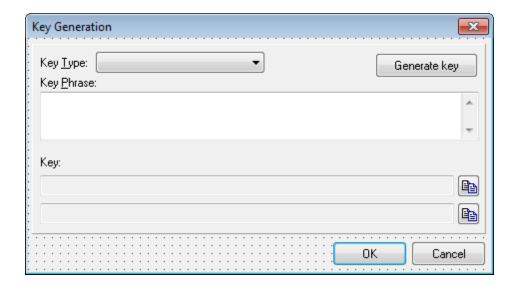
This unit contains the TKeyGenerateFrm class.

The Key Type combo box contains the options:

- Random
- Standard Text
- Case-sensitive Text

These values correspond to TKevTvpe.

```
VCL = OnGuard1.dfm
CLX = QOnGuard1.xfm
Lazarus = Icl\QOnGuard1
```



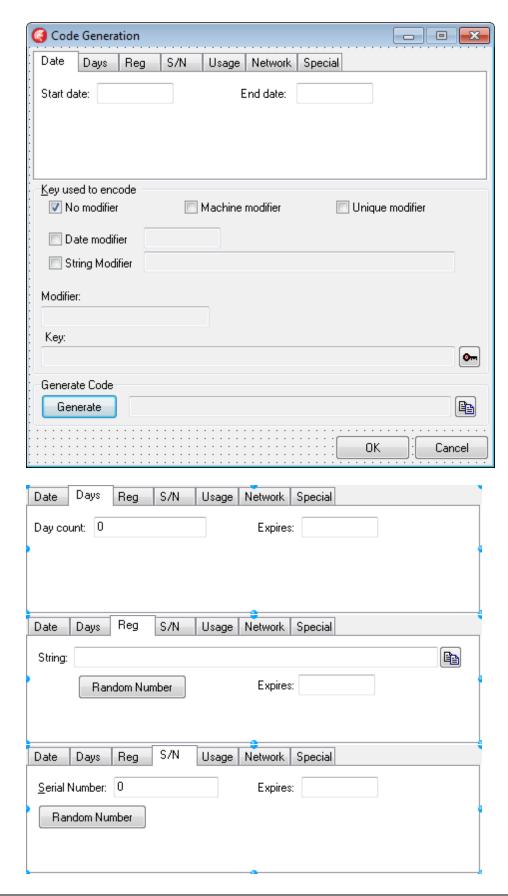
6.11 OnGuard2

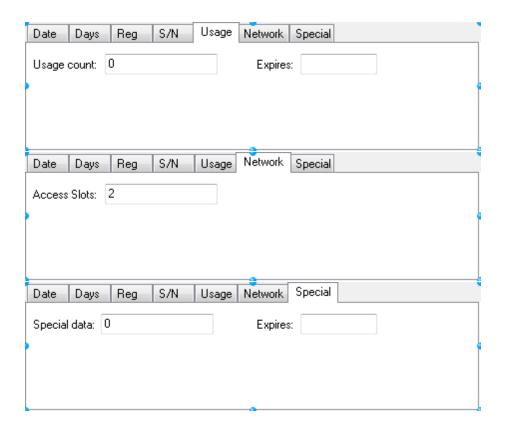
This unit contains the TCodeGenerateFrm class.

The tabs across the top represent the code type and must match the sequence in TCodeType.

Clicking on the button will open the key maintenance form in OnGuard3.

VCL = OnGuard2.dfm CLX = QOnGuard2.xfm Lazarus = Icl\QOnGuard2

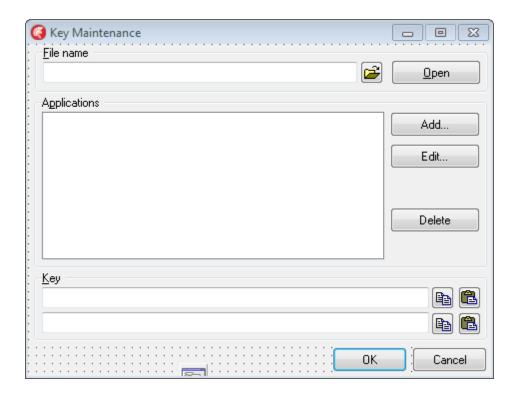




6.12 OnGuard3

This unit contains the TKeyMaintFrm class.

VCL = OnGuard3.dfm CLX = QOnGuard3.xfm Lazarus = Icl\QOnGuard3

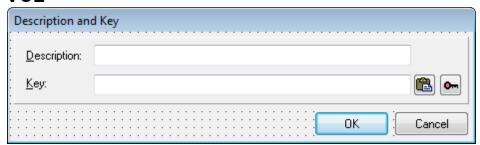


6.13 OnGuard4

This unit contains the TEditProductFrm class.

Clicking on the button will open the key generation form in OnGuard1.

VCL = OnGuard4.dfm CLX = QOnGuard4.xfm Lazarus = Icl\QOnGuard4



6.14 OnGuard5

The OnGuard5 unit contains the class TOgCodeProperty which is used as a Property Editor in the IDE.

The TOgCodeProperty.Edit method uses the TCodeGenerateFrm class found in OnGuard2.

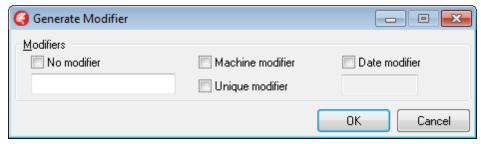
CLX = QOnGuard5 Lazarus = Icl\QOnGuard5

6.15 OnGuard6

The OnGuard6 unit contains the TModifierFrm class and the TOgModifierProperty class which is used as a Property Editor in the IDE.

VCL = OnGuard6.dfm CLX = QOnGuard6.xfm Lazarus = Icl\QOnGuard6

VCL



6.16 OnGuard7

The OnGuard7 unit contains the class TOgFileNameProperty which is used as a Property Editor in the IDE.

CLX = QOnGuard7 Lazarus = Icl\QOnGuard7

6.17 OgAbout0

This unit provides the About dialog. It also provides the TOgAboutProperty which is used as a Property Editor in the IDE.

VCL = OgAbout0.dfm CLX = QOgAbout0.xfm Lazarus = Icl\QOgAbout0

37



6.18 OgReg

The OgReg unit contains the TOgCodeGenEditor class which is used as a Property Editor in the IDE. This unit also exposes the Register procedure used to register the components in Delphi.

The register procedure adds a component editor to TOgCodeBase with two actions: Generate Code and Generate Key.

TOgCodeBase is also given property editors:

- Code = TOgCodeProperty
- Modifier = TOgModifierProperty
- About = TOgAboutProperty

TOgProtectExe, TOgMakeCodes, and TOgMakeKeys are given the TOgAboutProperty property editor.

TOgMakeCodes and TOgMakeKeys are given the TOgFileNameProperty property editor on the KeyFileName property.

6.19 OgCodeSign

A set of API functions to validate a file with a digital certificate. These functions are only supported on Windows.

Routines

sExeCodeSigned sExeSignedBvName sFileCodeSigned

lsFileSignedByName

The routines were implemented based on snippets from stackoverflow by Craig Peterson and TOndrej.

6.20 OgStamp

This file provides the type definitions and the constants required to provide the ability to stamp a file. It is intended to be used in EXE, DLL, and BPL files.

You can use the OgProExe unit to stamp and validate these files.

Types

```
PSignatureRec = ^TSignatureRec;
TSignatureRec = packed record
 Sig1 : DWord;
                                                 {!!.07}
 Sig2 : DWord;
                                                 {!!.07}
 Sig3: DWord;
                                                 {!!.07}
 Offset: DWord;
                                                 {!!.07}
 Size : DWord;
                                                 {!!.07}
 CRC: DWord;
                                                 {!!.07}
 Sig4 : DWord;
                                                 {!!.07}
 Sig5 : DWord;
                                                 {!!.07}
 Sig6: DWord;
                                                 {!!.07}
end;
```

Constants

```
{signature = '!~~@CRC32@~~' used before and after}
```

```
StoredSignature: TSignatureRec = (
Sig1:$407E7E21; Sig2:$33435243; Sig3:$7E7E4032;
Offset:1; Size:2; CRC:3;
Sig4:$407E7E21; Sig5:$33435243; Sig6:$7E7E4032);
```

Index

- A -

API Reference 21

- C -

Contents 7

- L -

License 9

- M -

Mozilla Public License 9 MPL 9

- O -

OgFirst Unit 29

- T -

TOgCodeBase Class TOgDateCode Component 18 TOgDaysCode Component 18 TOgMakeCodes Component TOgMakeKeys Component 19 TOgNetCode Component TOgProtectExe Component TOgRegistrationCode Component 19 TOgSerialNumberCode Component 19 TOgSpecialCode Component TOgUsageCode Component 20

Endnotes 2... (after index)

