



**COSQRDLL**

Notes to version 1.0

**BASE100**

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[NTUTCOSQRDLLen]

## **1. Introduction**

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This DLL allows to create a image file with a QR code.

## 2. Functions

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These are the steps to follow to generate a QR code:

1. Execute the `CosQRNewCode` function to obtain a handler that allows us to execute the necessary functions to carry out the QR code generation process.
2. Assignment of properties (output file, image format of the output file, data to be stored, dots per inch, size in pixels of each of the points that make up the QR code, number of dots in the left and right margins, top and bottom, version of the QR code implementation and level of error correction). This assignment will be made by calling the `CosQRSetPropertyChar` and `CosQRSetPropertyInt` functions depending on the type (alphanumeric or numeric).
3. Generate the QR code with the call to the `CosQRGenerateCode` function.
4. Freeing the resources with the execution of the `CosQRFreeCode` function.

### 2.1 `CosQRNewCode` function

This function returns the identifier of the QR code that you want to create. This identifier must be used in the rest of the functions.

Function declaration:

```
Public dll "cosqrdll" CosQRNewCode() return integer
```

Returns:

>0	Number greater than 0 if there has been no error.
-2	The identifier could not be created because the Cosmos license is not registered.

### 2.2 `CosQRSetPropertyChar` function

This function assigns a value to an alphanumeric property.

Function declaration:

```
Public dll "cosqrdll" CosQRSetPropertyChar(qrcodeId as integer, propertyName as char, propertyValue as char) return integer
```

Parameters:

<code>qrcodeId</code>	QR code identifier.
<code>propertyName</code>	Property name.
<code>propertyValue</code>	Value assigned to the property.

Returns:

0	The value has been correctly assigned to the property.
-3	The value indicated as an identifier in the qrcodeId parameter is not correct.
-4	Unknown property.
-5	An attempt was made to assign a numeric value to an alphanumeric property, or an attempt was made to assign an alphanumeric value to a numeric property. That is, the CosQRSetPropertyChar method has been executed to assign a value to a numeric property, or the CosQRSetPropertyInt method has been executed to assign a value to an alphanumeric property.
-6	An attempt was made to assign an illegal value to the property.

### 2.3 CosQRSetPropertyInt function

This function assigns a value to a numeric property.

Function declaration:

```
Public dll "cosqrdll" CosQRSetPropertyInt (qrcodeId as integer, propertyName as char, propertyValue as integer) return integer
```

Parameters:

qrcodeId	QR code identifier.
propertyName	Property name.
propertyValue	Value assigned to the property.

Returns:

0	The value has been correctly assigned to the property.
-3	The value indicated as an identifier in the qrcodeId parameter is not correct.
-4	Unknown property.
-5	An attempt was made to assign a numeric value to an alphanumeric property, or an attempt was made to assign an alphanumeric value to a numeric property. That is, the CosQRSetPropertyChar method has been executed to assign a value to a numeric property, or the CosQRSetPropertyInt method has been executed to assign a value to an alphanumeric property.
-6	An attempt was made to assign an illegal value to the property.

## 2.4 CosQRGenerateCode function

This function generates the QR code from the properties indicated with the CosQR SetPropertyChar and CosQR SetPropertyInt functions.

Function declaration:

```
Public dll "cosqrdll" CosQRGenerateCode (qrcodeId as integer) return integer
```

Parameter:

qrcodeId                      QR code identifier.

Returns:

0	The QR code has been successfully generated.
-3	The value indicated as an identifier in the qrcodeId parameter is not correct.
-8	A value has not been assigned to the "OUTPUTFILE" property.
-9	Unknown error in the encoding process.
-10	The output file could not be created.

## 2.5 CosQRFreeCode function

This function frees the QR object passed as a parameter.

Function declaration:

```
Public dll "cosqrdll" CosQRFreeCode (qrcodeId as integer) return integer
```

Parameter:

qrcodeId                      QR code identifier.

Returns:

0	The execution of the function has been successful.
-3	The value indicated as the identifier in the qrcodeId parameter is not correct.

## ANNEX. List of properties

Name	Description	Values	Type
<b>OUTPUTFILE</b>	Output file.	Required property.	Alphanumeric
<b>IMAGETYPE</b>	Output file image format.	This property is not required. Allowed values: "PNG", "SVG", "JPG" and "BMP". Default value: "PNG".	Alphanumeric
<b>TEXT</b>	Data to be stored.	Required property.	Alphanumeric
<b>DPI</b>	Dots per inch.	This property is not required. Default value: 72.	Numeric
<b>DOTSIZE</b>	Size in pixels of each of the points that make up the QR code.	This property is not required. Default value: 3.	Numeric
<b>MARGIN</b>	Number of points in the left, right, top and bottom margins.	This property is not required. Default value: 4.	Numeric
<b>VERSION</b>	Version of the implementation of the QR code.	This property is not required. Default value: 1. Allowed values: 1 to 40.	Numeric
<b>ERRORLEVEL</b>	Error correction level.	This property is not required. Default value: "L". Allowed values: ("L", "M", "Q" and "H").	Alphanumeric