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# Librerías

Para linux está libTimbraCFDI.so

Para windows está libTimbraCFDI.dll

# Métodos

## Constructor

**TimbraCFDI**(char \* usuario, char \* emisor, char \*url=(char \*)"<http://www.timbracfdipruebas.mx/servicioIntegracionpruebas/timbrado.asmx?WSDL>");

Parámetros:

- usuario: El usuario integrador.
- emisor: Emisor.
- url: Url del servidor del servicio soap.

De no especificar la url se tomará la dirección por defecto:

<http://201.175.12.89/servicioIntegracionpruebas/timbrado.asmx?WSDL>

## registraEmisor

char \* **registraEmisor**(char \*cert, char \*key, char \*pass);

Parámetros:

- cert: Ruta del fichero donde se encuentra el certificado.
- key: Ruta del fichero donde se encuentra la clave privada del certificado.
- pass: Contraseña de la clave privada.

## timbraCFDI

char \* **timbraCFDI**(char \*ficheroComprobante, char \*idComprobante);

Parámetros:

- ficheroComprobante: Ruta del fichero que se desea timbrar.
- idComprobante: Id proporcionado por el usuario.

## obtieneCFDI

char \* **obtieneCFDI**(char \*uuid);

Parámetros:

- uuid: UUID del documento timbrado que se desea obtener.

## *cancelaCFDI*

```
char * cancelaCFDI( char *uuid);
```

Parámetros:

- uuid: UUID del documento timbrado que se desea cancelar.

## Ejemplo de uso

A continuación pasamos a describir los ejemplos de uso, es importante resaltar que para el caso del sistema operativo GNU/Linux tanto de 32bit como 64bits es muy importante tener en consideración la inclusión de la ruta exacta de la librería poniéndola en /etc/ld.so.conf.d/.

## *registraEmisor*

```
int main(int argc, char* argv[])
```

```
{  
    TimbraCFDI t("mvpNUXmQfK8=", "AAA010101AAA");  
    char * r = t.registraEmisor("../ArchivosPrueba/aaa010101aaa__csd_01.cer",  
    "../ArchivosPrueba/aaa010101aaa__csd_01.key", "12345678a");  
    printf("%s\n", r);  
    return 0;  
}
```

## *GNU/Linux*

- Lanzamos “ *g++ registraEmisor.c -o registra bin/32/libTimbraCFDI.so*”
- Una vez hecho lo anterior podemos probar lanzar el ejecutable ./registra

## Resultado:

```
<?xml version="1.0" encoding="utf-8"?><soap:Envelope  
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><RegistraEmisorResponse  
xmlns="http://localhost/"><RegistraEmisorResult><anyType xsi:type="xsd:string" /><anyType  
xsi:type="xsd:int">0</anyType><anyType xsi:type="xsd:string">El certificado fue guardado y registrado  
correctamente</anyType><anyType xsi:type="xsd:string" /><anyType xsi:nil="true" /><anyType  
xsi:type="xsd:string"  
</RegistraEmisorResult></RegistraEmisorResponse></soap:Body></soap:Envelope>
```

## timbraCFDI

```
int main(int argc, char* argv[])
{
    TimbraCFDI t("mvpNUXmQfK8=", "AAA010101AAA");
    char * r = t.timbraCFDI("../ArchivosPrueba/comprobanteSinTimbrar.xml", "1");
    printf("%s\n", r);
    return 0;
}
```

## GNU/Linux

```
g++ timbra.c -o timbra bin/32/libTimbraCFDI.so
./timbra
```

### Resultado obtenido en el caso de que CFDI ya existe:

```
<?xml version="1.0" encoding="utf-8"?><soap:Envelope
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><TimbraCFDIResponse
xmlns="http://localhost/"><TimbraCFDIResult><anyType
xsi:type="xsd:string">General</anyType><anyType xsi:type="xsd:int">25</anyType><anyType
xsi:type="xsd:string">Este CFDI ya ha sido timbrado con UUID: 03574865-594E-4FA1-B138-
5F586375D4E6</anyType><anyType xsi:type="xsd:string" /><anyType xsi:nil="true" /><anyType
xsi:type="xsd:string" /></TimbraCFDIResult></TimbraCFDIResponse></soap:Body></soap:Envelope>
```

### Resultado obtenido en el caso de cambiar la fecha y concepto del comprobanteSinTimbrar.xml

```
<?xml version="1.0" encoding="utf-8"?><soap:Envelope
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><TimbraCFDIResponse
xmlns="http://localhost/"><TimbraCFDIResult><anyType
xsi:type="xsd:string">Generic</anyType><anyType xsi:type="xsd:int">0</anyType><anyType
xsi:type="xsd:string" /><anyType xsi:type="xsd:string">&lt;?xml version="1.0" encoding="UTF-8"?&gt;
&lt;cfdi:Comprobante xmlns:cfdi="http://www.sat.gob.mx/cfd/3"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.sat.gob.mx/cfd/3 http://www.sat.gob.mx/sitio_internet/cfd/3/cfdv32.xsd"
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sello="M86/0/Z/71382XINFy/ieosqDbcTPcG2xYJeYP3Uo1cnw4iZU9D+btmbKJJxxceD159crlMRpzsLq
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```

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```

## obtieneCFDI

```
int main(int argc, char* argv[])  
{  
    TimbraCFDI t("mvpNUXmQfK8=", "AAA010101AAA");  
    char * r = t.obtieneCFDI("303574865-594E-4FA1-B138-5F586375D4E6");  
    printf("%s\n", r);  
    return 0;  
}
```

### GNU/Linux

```
g++ obtiene.c -o obtiene bin/32/libTimbraCFDI.so  
./obtiene
```

### Resultado:

```
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```
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e></ObtieneCFDIResult></ObtieneCFDIResponse></soap:Body></soap:Envelope>

## *cancelaCFDI*

```
int main(int argc, char* argv[])
{
    TimbraCFDI t("mvpNUXmQfK8=", "AAA010101AAA");
    char * r = t.cancelaCFDI("03574865-594E-4FA1-B138-5F586375D4E6");
    Control de timbrado en c++, para linux 32/64 y windows 32/64
    printf("%s\n", r);
    return 0;
}
```

### **GNU/Linux**

```
g++ cancela.c -o cancela bin/32/libTimbraCFDI.so
./cancela
```

### **Resultado:**

```
<?xml version="1.0" encoding="utf-8"?><soap:Envelope
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xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><CancelaCFDIResponse
xmlns="http://localhost/"><CancelaCFDIResult><anyType xsi:type="xsd:string" /><anyType
xsi:type="xsd:int">0</anyType><anyType xsi:type="xsd:string">CFDI cancelado
exitosamente.</anyType><anyType xsi:type="xsd:string" /><anyType xsi:nil="true" /><anyType
xsi:type="xsd:string" /></CancelaCFDIResult></CancelaCFDIResponse></soap:Body></soap:Envelope>
```

## *TimbraCFDI.h*

```
#ifndef __TIMBRACFDI_H
#define __TIMBRACFDI_H
class TimbraCFDI
{
public:
    TimbraCFDI(char * usuario, char * emisor, char *url=(char
    *)"http://201.175.12.89/servicioIntegracionpruebas/timbrado.asmx?WSDL");
    char * registraEmisor(char *cert, char *key, char *pass);
    char * timbraCFDI(char *ficheroComprobante, char *idComprobante);
    char * obtieneCFDI(char *uuid);
    char * cancelaCFDI(char *uuid);
private:
    char * usuario, *emisor, *url;
};
#endif
```