

# **Documentación del Servicio de Consulta de CFDI**

## **Fecha: Julio 2018**

### **Versión 1.1**

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## 1. Descripción

El Servicio de consulta de CFDI's se diseñó para permitir la validación accediendo a un servicio publicado en la página del SAT, el servicio pretende proveer una alternativa de consulta que requiera verificar el estado de un comprobante en las Bases de Datos del SAT.

## 2. Contrato

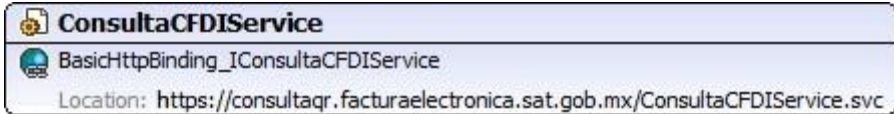
URL: <https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc>

WSDL **ConsultaCFDIService.svc?wsdl**


WSDL location:	<a href="https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc?wsdl">https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc?wsdl</a>
targetnamespace	<b>http://tempuri.org</b>

services	bindings	porttypes	messages	types
<a href="#">ConsultaCFDIService</a>	<a href="#">BasicHttpBinding_IConsultaCFDIService</a>	<a href="#">IConsultaCFDIService</a>	<a href="#">IConsultaCFDIService_Consulta_InputMessage</a> <a href="#">IConsultaCFDIService_Consulta_OutputMessage</a>	<a href="#">expresionimpresa</a> <a href="#">Acuse</a> anyType anyURI base64Binary boolean byte char char Consulta ConsultaR esponse dateTime decimal double duration duration float guid guid int long QName short string unsignedByte unsignedInt unsignedLong unsignedShort

### service ConsultaCFDIService

diagram	
ports	<b>BasicHttpBinding_IConsultaCFDIService</b> binding tns:BasicHttpBinding_IConsultaCFDIService extensibility <soap:address location="https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc"/>
source	<pre>&lt;wsdl:service name="ConsultaCFDIService"&gt;   &lt;wsdl:port name="BasicHttpBinding_IConsultaCFDIService"     binding="tns:BasicHttpBinding_IConsultaCFDIService"     &lt;soap:address       location="https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc"/&gt; &lt;/wsdl:port&gt; &lt;/wsdl:service&gt;</pre>

### binding BasicHttpBinding\_IConsultaCFDIService

diagram	
type	<a href="#">tns:IConsultaCFDIService</a>
extensibility	<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
operations	<b>Consulta</b> extensibility <soap:operation soapAction="http://tempuri.org/IConsultaCFDIService/Consulta" style="document"/> input <soap:body use="literal"/> output <soap:body use="literal"/>

used by	Port <a href="#">BasicHttpBinding_IConsultaCFDIService</a> in Service <a href="#">ConsultaCFDIService</a>
source	<pre>&lt;wsdl:binding name="BasicHttpBinding_IConsultaCFDIService" type="tns:IConsultaCFDIService"&gt;   &lt;soap:binding transport="http://schemas.xmlsoap.org/soap/http"/&gt;   &lt;wsp:PolicyReference URI="#BasicHttpBinding_IConsultaCFDIService_policy"/&gt;   &lt;wsdl:operation name="Consulta"&gt;     &lt;soap:operation soapAction="http://tempuri.org/IConsultaCFDIService/Consulta"       style="document"/&gt;     &lt;wsdl:input&gt;       &lt;soap:body use="literal"/&gt;     &lt;/wsdl:input&gt;     &lt;wsdl:output&gt;       &lt;soap:body use="literal"/&gt;     &lt;/wsdl:output&gt;   &lt;/wsdl:operation&gt; &lt;/wsdl:binding&gt;</pre>

### porttype IConsultaCFDIService

diagram	
operations	<p><b>Consulta</b></p> <p>input <a href="#">tns:IConsultaCFDIService_Consulta_InputMessage</a></p> <p>output <a href="#">tns:IConsultaCFDIService_Consulta_OutputMessage</a></p>
used by	binding <a href="#">BasicHttpBinding_IConsultaCFDIService</a>
source	<pre>&lt;wsdl:portType name="IConsultaCFDIService"&gt;   &lt;wsdl:operation name="Consulta"&gt;     &lt;wsdl:input message="tns:IConsultaCFDIService_Consulta_InputMessage"       wsaw:Action="http://tempuri.org/IConsultaCFDIService/Consulta"/&gt;     &lt;wsdl:output message="tns:IConsultaCFDIService_Consulta_OutputMessage"       wsaw:Action="http://tempuri.org/IConsultaCFDIService/ConsultaResponse"/&gt;   &lt;/wsdl:operation&gt; &lt;/wsdl:portType&gt;</pre>

### message IConsultaCFDIService\_Consulta\_InputMessage

parts	<p><b>parameters</b></p> <p>element <a href="#">tns:Consulta</a></p>
used by	Operation <a href="#">Consulta</a> in PortType <a href="#">IConsultaCFDIService</a>

source	<pre>&lt;wsdl:message name="IConsultaCFDIService_Consulta_InputMessage"&gt;   &lt;wsdl:part name="parameters" element="tns:Consulta"/&gt; &lt;/wsdl:message&gt;</pre>
--------	---

### message IConsultaCFDIService\_Consulta\_OutputMessage

parts	<b>parameters</b> element <a href="#">tns:ConsultaResponse</a>
used by	Operation <a href="#">Consulta</a> in PortType <a href="#">IConsultaCFDIService</a>
source	<pre>&lt;wsdl:message name="IConsultaCFDIService_Consulta_OutputMessage"&gt;   &lt;wsdl:part name="parameters" element="tns:ConsultaResponse"/&gt; &lt;/wsdl:message&gt;</pre>

### element Consulta

diagram	
namespace	http://tempuri.org/
properties	content complex
children	<b>tns:expresionImpresa</b>
source	<pre>&lt;xsd:element name="Consulta"&gt;   &lt;xsd:complexType&gt;     &lt;xsd:sequence&gt;       &lt;xsd:element name="expresionImpresa" type="xs:string" nillable="true" minOccurs="0"/&gt;     &lt;/xsd:sequence&gt;   &lt;/xsd:complexType&gt; &lt;/xsd:element&gt;</pre>

### element ConsultaResponse

diagram	
namespace	http://tempuri.org/
properties	content complex
children	<b>tns:ConsultaResult</b>

source	<pre>&lt;xsd:element name="ConsultaResponse"&gt;   &lt;xsd:complexType&gt;     &lt;xsd:sequence&gt;       &lt;xsd:element name="ConsultaResult" type="q1:Acuse" nillable="true" minOccurs="0"/&gt;     &lt;/xsd:sequence&gt;   &lt;/xsd:complexType&gt; &lt;/xsd:element&gt;</pre>
--------	--

## CODIGO

```
<?xml version="1.0" encoding="utf8" ?>
<wsdl:definitions name="ConsultaCFDIService" targetNamespace="http://tempuri.org/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:wsx="http://schemas.xmlsoap.org/ws/2004/09/mex"
xmlns:wsu="http://docs.oasisopen.org/wss/2004/01/oasis200401wsswssecurityutility1.0.xsd"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wspolicy="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:microsoft="http://schemas.microsoft.com/ws/2005/12/wsdl/contract" xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://tempuri.org/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wspolicyenc="http://www.w3.org/2006/05/addressing/wsdl" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/">
  <wsp:Policy wsu:Id="BasicHttpBinding_IConsultaCFDIService_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <sp:HttpsToken RequireClientCertificate="false" />
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              ± <wsp:Policy>
                </sp:AlgorithmSuite>
              </wsp:Policy>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict />
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>
</wsdl:types>
<xsd:schema targetNamespace="http://tempuri.org/Imports">
  <xsd:import schemaLocation="https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc?xsd=xsd0"
namespace="http://tempuri.org/" />
  <xsd:import schemaLocation="https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc?xsd=xsd1"
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xsd:import schemaLocation="https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc?xsd=xsd1"
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xsd:import schemaLocation="https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc?xsd=xsd1"
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
```



```

=xsd2" namespace="http://schemas.datacontract.org/2004/07/Sat.Cfdi.Negocio.ConsultaCfdi.Servicio" />
</xsd:schema>
</wsdl:types>
<wsdl:message name="IConsultaCFDIService_Consulta_InputMessage">
<wsdl:part name="parameters" element="tns:Consulta" />
</wsdl:message>
<wsdl:message name="IConsultaCFDIService_Consulta_OutputMessage">
<wsdl:part name="parameters" element="tns:ConsultaResponse" /> </wsdl:message>
<wsdl:portType name="IConsultaCFDIService">
<wsdl:operation name="Consulta">
<wsdl:input wsaw:Action="http://tempuri.org/IConsultaCFDIService/Consulta"
message="tns:IConsultaCFDIService_Consulta_InputMessage" />
<wsdl:output wsaw:Action="http://tempuri.org/IConsultaCFDIService/ConsultaResponse"
message="tns:IConsultaCFDIService_Consulta_OutputMessage" />
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="BasicHttpBinding_IConsultaCFDIService" type="tns:IConsultaCFDIService">
<wsp:PolicyReference URI="#BasicHttpBinding_IConsultaCFDIService_policy" />
<soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
<wsdl:operation name="Consulta">
<soap:operation soapAction="http://tempuri.org/IConsultaCFDIService/Consulta" style="document" />
<wsdl:input>
<soap:body use="literal" />
</wsdl:input>
<wsdl:output>
<soap:body use="literal" />
</wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="ConsultaCFDIService">
<wsdl:port name="BasicHttpBinding_IConsultaCFDIService" binding="tns:BasicHttpBinding_IConsultaCFDIService">
<soap:address location="https://consultaqr.facturaelectronica.sat.gob.mx/ConsultaCFDIService.svc"
/>
</wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

### 3. Mensajes de Respuesta

Los mensajes de respuesta que arroja el servicio de consulta de CFDI's incluyen la descripción del resultado de la operación que corresponden a la siguiente clasificación:

#### Mensajes de Rechazo.

**N 601: La expresión impresa proporcionada no es válida.**

Este código de respuesta se presentará cuando la petición de validación no se haya respetado en el formato definido.

**N 602: Comprobante no encontrado.**

Este código de respuesta se presentará cuando el UUID del comprobante no se encuentre en la Base de Datos del SAT.

## Mensajes de Aceptación.

### S Comprobante obtenido satisfactoriamente.

## 4. Ejemplo de Implementación

```
namespace Sat.Cfdi.Negocio.ConsultaCfdi.Servicio
{
    using System.Runtime.Serialization;
    using System;

    [System.Diagnostics.DebuggerStepThroughAttribute()]
    [System.CodeDom.Compiler.GeneratedCodeAttribute("System.Runtime.Serialization", "4.0.0.0")]
    [System.Runtime.Serialization.DataContractAttribute(Name="Acuse",
    Namespace="http://schemas.datacontract.org/2004/07/Sat.Cfdi.Negocio.ConsultaCfdi.Servicio")]
    [System.SerializableAttribute()]
    public partial class Acuse : object, System.Runtime.Serialization.IExtensibleDataObject,
    System.ComponentModel.INotifyPropertyChanged {

        [System.NonSerializedAttribute()]
        private System.Runtime.Serialization.ExtensionDataObject extensionDataField;

        [System.Runtime.Serialization.OptionalFieldAttribute()]
        private stringCodigoEstatusField;

        [System.Runtime.Serialization.OptionalFieldAttribute()]
        private stringEsCancelableField;

        [System.Runtime.Serialization.OptionalFieldAttribute()]
        private stringEstadoField;

        [System.Runtime.Serialization.OptionalFieldAttribute()]
        private stringEstatusCancelacionField;

        [global::System.ComponentModel.BrowsableAttribute(false)]
        public System.Runtime.Serialization.ExtensionDataObject ExtensionData {
            get {
                return this.extensionDataField;
            }
            set {
                this.extensionDataField = value;
            }
        }

        [System.Runtime.Serialization.DataMemberAttribute()]
        public stringCodigoEstatus {
```

```
get {
    return this.CodigoEstatusField;
}
set {
    if ((object.ReferenceEquals(this.CodigoEstatusField, value) != true)) {
        this.CodigoEstatusField = value;
        this.RaisePropertyChanged("CodigoEstatus");
    }
}
}

[System.Runtime.Serialization.DataMemberAttribute()]
public string EsCancelable {
    get {
        return this.EsCancelableField;
    }
    set {
        if ((object.ReferenceEquals(this.EsCancelableField, value) != true)) {
            this.EsCancelableField = value;
            this.RaisePropertyChanged("EsCancelable");
        }
    }
}

[System.Runtime.Serialization.DataMemberAttribute()]
public string Estado {
    get {
        return this.EstadoField;
    }
    set {
        if ((object.ReferenceEquals(this.EstadoField, value) != true)) {
            this.EstadoField = value;
            this.RaisePropertyChanged("Estado");
        }
    }
}

[System.Runtime.Serialization.DataMemberAttribute()]
public string EstatusCancelacion {
    get {
        return this.EstatusCancelacionField;
    }
    set {
        if ((object.ReferenceEquals(this.EstatusCancelacionField, value) != true)) {
            this.EstatusCancelacionField = value;
            this.RaisePropertyChanged("EstatusCancelacion");
        }
    }
}

public event System.ComponentModel.PropertyChangedEventHandler PropertyChanged;

protected void RaisePropertyChanged(string propertyName) {
```

```

        System.ComponentModel.PropertyChangedEventHandler propertyChanged = this.PropertyChanged;
        if ((propertyChanged != null)) {
            propertyChanged(this, new System.ComponentModel.PropertyChangedEventArgs(propertyName));
        }
    }
}

[System.CodeDom.Compiler.GeneratedCodeAttribute("System.ServiceModel", "4.0.0.0")]

[System.ServiceModel.ServiceContractAttribute(ConfigurationName="ConsultaCFDIService.IConsultaCFDIService")]
]
    public interface IConsultaCFDIService {

[System.ServiceModel.OperationContractAttribute(Action="http://tempuri.org/IConsultaCFDIService/Consulta",
ReplyAction="http://tempuri.org/IConsultaCFDIService/ConsultaResponse")]
        QRConsola.ConsultaCFDIService.Acuse Consulta(string expresionImpresa);

[System.ServiceModel.OperationContractAttribute(Action="http://tempuri.org/IConsultaCFDIService/Consulta",
ReplyAction="http://tempuri.org/IConsultaCFDIService/ConsultaResponse")]
        System.Threading.Tasks.Task<QRConsola.ConsultaCFDIService.Acuse> ConsultaAsync(string
expresionImpresa);
    }

[System.CodeDom.Compiler.GeneratedCodeAttribute("System.ServiceModel", "4.0.0.0")]
    public interface IConsultaCFDIServiceChannel : QRConsola.ConsultaCFDIService.IConsultaCFDIService,
System.ServiceModel.IChannel {
    }

[System.Diagnostics.DebuggerStepThroughAttribute()]
[System.CodeDom.Compiler.GeneratedCodeAttribute("System.ServiceModel", "4.0.0.0")]
    public partial class ConsultaCFDIServiceClient :
System.ServiceModel.ClientBase<QRConsola.ConsultaCFDIService.IConsultaCFDIService>,
QRConsola.ConsultaCFDIService.IConsultaCFDIService {

        public ConsultaCFDIServiceClient() {
        }

        public ConsultaCFDIServiceClient(string endpointConfigurationName) :
            base(endpointConfigurationName) {
        }

        public ConsultaCFDIServiceClient(string endpointConfigurationName, string remoteAddress) :
            base(endpointConfigurationName, remoteAddress) {
        }

        public ConsultaCFDIServiceClient(string endpointConfigurationName, System.ServiceModel.EndpointAddress
remoteAddress) :
            base(endpointConfigurationName, remoteAddress) {
        }
    }

```

```
public ConsultaCFDIServiceClient(System.ServiceModel.Channels.Binding binding,  
System.ServiceModel.EndpointAddress remoteAddress) :  
    base(binding, remoteAddress) {  
}  
  
public QRConsola.ConsultaCFDIService.Acuse Consulta(string expresionImpresa) {  
    return base.Channel.Consulta(expresionImpresa);  
}  
  
public System.Threading.Tasks.Task<QRConsola.ConsultaCFDIService.Acuse> ConsultaAsync(string  
expresionImpresa) {  
    return base.Channel.ConsultaAsync(expresionImpresa);  
}  
}  
}
```

## 5. Capacidad de respuesta

El servicio de Consulta de CFDI's tiene la capacidad de atender hasta 2 millones de consultas por hr., debido a que estas consultas acceden las Bases de Datos transaccionales del SAT se solicita no aumentar la cantidad de consultas por hora para evitar impactos en la respuesta del servicio.