Lifecare Exchange Services
Message API

Tieto Healthcare and Welfare AB
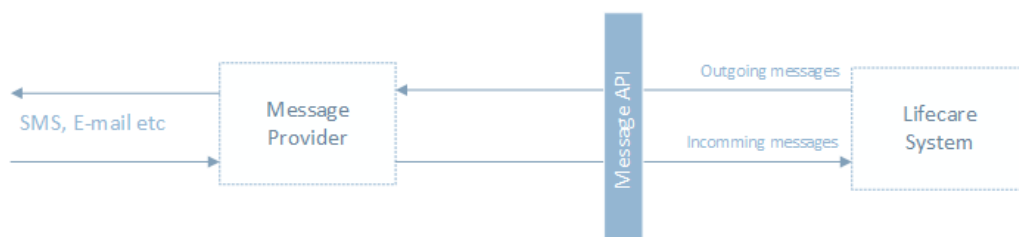Education

tieto.com

1.0
Public
2015-01-22

Lifecare Exchange Services

Message API

Lifecare Message API - Technical Specification.docx

Lifecare Exchange Services
Message API

Tieto Healthcare and Welfare AB
Education

1.0
Public
2015-01-22

Table of Contents

Lifecare Exchange Services
Message API

Tieto Healthcare and Welfare AB
Education

1.0
Public
2015-01-22

1 Introduction

The Message API in Lifecare Exchange Services defines a common interface to send and retrieve e-mail, SMS text messages. By default Tieto offer services for SMS and email notifications. Customers with existing notification infrastructure can implement this message interface to replace default message provider.

1.1 Prerequisites

Before you can get retrieve any messages you must request a license key from Tieto. You should also have basic knowledge Web Services technology before you begin to implement the API.

Lifecare Exchange Services
Message API

Tieto Healthcare and Welfare AB
Education

tieto.com

1.0
Public
2015-01-22

2 Entities

2.1 Message

Message structure for SMS and email notifications.

Parameter	Mandatory	Description
Recipients	Yes	One or more receivers of the message. All receivers are identified with a personal number, phone number or email address.
Sender	No	Identity of the actual sender.
Subject	No	Message subject or title.
Text	Yes	Message text. The messages total size depends on type of message, like SMS are limited to 160 characters.

Type	Yes	Type of message:
		  EMAIL E-post
		  SMS SMS text message
		  E-SERVICE My pages

Encoding	No	Mime encoding
		  plain/text Unformatted plan text
		  application/html Formatted text

Attachments	No	One or more base64 encoded files.

2.2 FaultContract

Error SOAP fault structure.

Parameter	Mandatory	Description
ErrorId	No	Identifies error
ErrorMessage	No	Error description
CorrelationId	No	Identity to persistent technical description in log system

Lifecare Exchange Services
Message API

Tieto Healthcare and Welfare AB
Education

tieto.com

1.0
Public
2015-01-22

3 Services

3.1.1 SendMessage

Services contract for incoming and outgoing messages between message providers and the busisnes system

Service input parameters

Parameter	Mandatory	Description
domain	False	Customer domain name, used for multitenant service providers.
source	False	System or function identity.
message	Yes	The received or sent message.

Service output

Succeed operation returns a unique transaction identity. On fault the service returning an error structure containing error codes and description, see FaultContract.

Lifecare Exchange Services
Message API

Tieto Healthcare and Welfare AB
Education

1.0
Public
2015-01-22

4 WSDL

XML Schema for messaging services

```xml
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
                  xmlns:wsa10="http://www.w3.org/2005/08/addressing"
                  xmlns:tns="http://open.tieto.com/V1/Message/"
                  xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
                  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
                  xmlns:wsx="http://schemas.xmlsoap.org/ws/2004/09/mex"
                  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
                  xmlns:i0="http://open.tieto.com/V1/Message"
                  xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
                  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
                  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
                  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
                  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
                  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-
utility-1.0.xsd"
                  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
                  name="Message"
                  targetNamespace="http://open.tieto.com/V1/Message/"
                  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema elementFormDefault="qualified" targetNamespace="http://open.tieto.com/V1/Message/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/HCW.Welfare.Common.MessageGateway.Contracts.V1.D
ataContracts" />
      <xs:element name="SendMessage">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="domain" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="source" nillable="true" type="xs:string" />
            <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/HCW.Welfare.Common.MessageGateway.Contracts.V1.Da
taContracts" minOccurs="0" name="message" nillable="true" type="q1:Message" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SendMessageResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="SendMessageResult" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:schema>
    <xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:element name="anyType" nillable="true" type="xs:anyType" />
      <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
      <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
      <xs:element name="boolean" nillable="true" type="xs:boolean" />
      <xs:element name="byte" nillable="true" type="xs:byte" />
      <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
      <xs:element name="decimal" nillable="true" type="xs:decimal" />
      <xs:element name="double" nillable="true" type="xs:double" />
      <xs:element name="float" nillable="true" type="xs:float" />
      <xs:element name="int" nillable="true" type="xs:int" />
      <xs:element name="long" nillable="true" type="xs:long" />
      <xs:element name="QName" nillable="true" type="xs:QName" />
      <xs:element name="short" nillable="true" type="xs:short" />
      <xs:element name="string" nillable="true" type="xs:string" />
      <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
      <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
```

Lifecare Exchange Services
Message API

tieto.com

1.0

Tieto Healthcare and Welfare AB
Education

Public
2015-01-22

```xml
        <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
        <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
        <xs:element name="char" nillable="true" type="tns:char" />
        <xs:simpleType name="char">
          <xs:restriction base="xs:int" />
        </xs:simpleType>
        <xs:element name="duration" nillable="true" type="tns:duration" />
        <xs:simpleType name="duration">
          <xs:restriction base="xs:duration">
            <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
            <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
            <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
          </xs:restriction>
        </xs:simpleType>
        <xs:element name="guid" nillable="true" type="tns:guid" />
        <xs:simpleType name="guid">
          <xs:restriction base="xs:string">
            <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
          </xs:restriction>
        </xs:simpleType>
        <xs:attribute name="FactoryType" type="xs:QName" />
        <xs:attribute name="Id" type="xs:ID" />
        <xs:attribute name="Ref" type="xs:IDREF" />
    </xs:schema>
    <xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/HCW.Welfare.Common.MessageGateway.Contracts.V1.DataContracts" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/HCW.Welfare.Common.MessageGateway.Contracts.V1.DataContracts" xmlns:xs="http://www.w3.org/2001/XMLSchema">
        <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
        <xs:complexType name="Message">
          <xs:sequence>
            <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Attachments" nillable="true" type="q1:ArrayOfArrayOfstring" />
            <xs:element minOccurs="0" name="Encoding" nillable="true" type="xs:string" />
            <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Recipients" nillable="true" type="q2:ArrayOfstring" />
            <xs:element minOccurs="0" name="Sender" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="Subject" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="Text" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="Type" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
        <xs:element name="Message" nillable="true" type="tns:Message" />
    </xs:schema>
    <xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
        <xs:complexType name="ArrayOfArrayOfstring">
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="ArrayOfstring" nillable="true"
type="tns:ArrayOfstring" />
          </xs:sequence>
        </xs:complexType>
        <xs:element name="ArrayOfArrayOfstring" nillable="true" type="tns:ArrayOfArrayOfstring" />
        <xs:complexType name="ArrayOfstring">
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
          </xs:sequence>
        </xs:complexType>
        <xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
    </xs:schema>
    <xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/HCW.Welfare.Common.MessageGateway.Contracts.V1.FaultContracts"
            elementFormDefault="qualified"

targetNamespace="http://schemas.datacontract.org/2004/07/HCW.Welfare.Common.MessageGateway.Contracts.V1.FaultContracts"
```

Lifecare Exchange Services
Message API

Tieto Healthcare and Welfare AB
Education

tieto.com

1.0
Public
2015-01-22

```xml
                xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import namespace="urn:HCW.Welfare.Common.ServiceModel.V2" />
      <xs:complexType name="MessageServiceFault">
        <xs:complexContent mixed="false">
          <xs:extension xmlns:q1="urn:HCW.Welfare.Common.ServiceModel.V2" base="q1:FaultContract">
            <xs:sequence />
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
      <xs:element name="MessageServiceFault" nillable="true" type="tns:MessageServiceFault" />
    </xs:schema>
    <xs:schema xmlns:tns="urn:HCW.Welfare.Common.ServiceModel.V2" elementFormDefault="qualified"
targetNamespace="urn:HCW.Welfare.Common.ServiceModel.V2"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:complexType name="FaultContract">
        <xs:sequence>
          <xs:element name="ErrorId" type="xs:int" />
          <xs:element name="ErrorMessage" nillable="true" type="xs:string" />
          <xs:element name="CorrelationId" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="FaultContract" nillable="true" type="tns:FaultContract" />
    </xs:schema>
  </wsdl:types>
  <wsdl:message name="IMessageGateway_SendMessage_InputMessage">
    <wsdl:part name="parameters" element="tns:SendMessage" />
  </wsdl:message>
  <wsdl:message name="IMessageGateway_SendMessage_OutputMessage">
    <wsdl:part name="parameters" element="tns:SendMessageResponse" />
  </wsdl:message>
  <wsdl:message name="IMessageGateway_SendMessage_MessageServiceFaultFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/HCW.Welfare.Common.MessageGateway.Contracts.V1.Fa
ultContracts" name="detail" element="q1:MessageServiceFault" />
  </wsdl:message>
  <wsdl:portType name="IMessageGateway">
    <wsdl:operation name="SendMessage">
      <wsdl:input wsaw:Action="http://open.tieto.com/V1/Message/IMessageGateway/SendMessage"
message="tns:IMessageGateway_SendMessage_InputMessage" />
      <wsdl:output
wsaw:Action="http://open.tieto.com/V1/Message/IMessageGateway/SendMessageResponse"
message="tns:IMessageGateway_SendMessage_OutputMessage" />
      <wsdl:fault
wsaw:Action="http://open.tieto.com/V1/Message/IMessageGateway/SendMessageMessageServiceFaultFault"
name="MessageServiceFaultFault"
message="tns:IMessageGateway_SendMessage_MessageServiceFaultFault_FaultMessage" />
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="BasicHttpBinding_IMessageGateway" type="tns:IMessageGateway">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="SendMessage">
      <soap:operation soapAction="http://open.tieto.com/V1/Message/IMessageGateway/SendMessage"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="MessageServiceFaultFault">
        <soap:fault use="literal" name="MessageServiceFaultFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:service name="Message">
    <wsdl:port name="BasicHttpBinding_IMessageGateway"
binding="tns:BasicHttpBinding_IMessageGateway">
      <soap:address location="http://localhost:51159/LES/Message/V1/Message.svc" />
    </wsdl:port>
  </wsdl:service>
</wsdl:definitions>
```