



Tracking of Citizens

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1. INTRODUCTION

Tracking of Citizens profile describes how organizations can exchange emergency citizen and tracking information during evacuation or patient encounter through admission or release. It supports citizen tracking across the emergency medical services, as well as hospital evacuations and patient transfers, providing real-time information to responders, emergency management, coordinating organizations and care facilities in the chain of care and transport.

2. OBJECTIVES

The objectives of implementing this profile are:

1. Increasing effectiveness of emergency medical management, patient tracking, and continued patient care capabilities during emergency care.
2. Sharing citizen tracking information seamlessly among disparate systems.
3. Facilitating exchange of emergency citizen and tracking data.
4. Providing real-time information to responders and care facilities.
5. Facilitating emergency information sharing and data exchange across different organizations of different professions that provide emergency response and management services.
6. Supporting everyday events and incident preparedness, as well as disasters.

3. SCOPE

This profile supports a process of sharing citizen tracking information. It is intended to facilitate the proactive sharing of citizen location, incident, citizen demographic, and citizen care information. The intended scope for this profile includes:

- During and after emergency situations
- Among emergency medical service providers, emergency departments, intermediate care facilities, hospitals, emergency operation centers, on-site coordination centers, local organizations, national organizations and non-governmental organizations

The transactions, specified in this profile are intended to be exchanged between organizations taking part in emergency operations. It is expected that sender and receiver organizations have had necessary infrastructure, which is specified in the profile, to enable them to send and receive the transactions in a secured way, using an agreed syntax.

4. PROFILE DETAILED DESCRIPTION

4.2. Roles Involved

Actor	Description
Sender	The sender is the legal person or organization who transfers citizen to a hospital or rest center, or wants to receive information about citizen.
Receiver	The receiver is the legal person or organization where citizen is transferred or who responds to the requests coming from the sender.

4.3. Actor Diagram

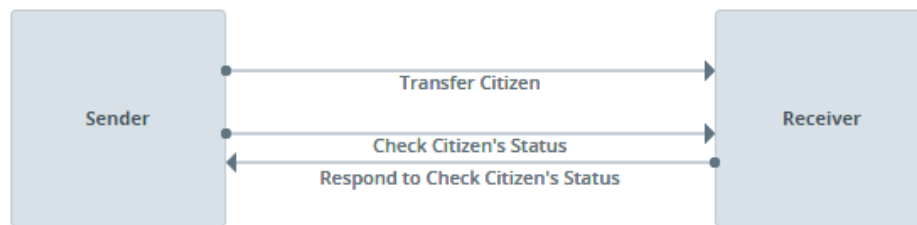


Figure above shows the actors directly involved in the Tracking of Citizens Profile and the possible messages to be exchanged between them.

4.4. Transaction Information

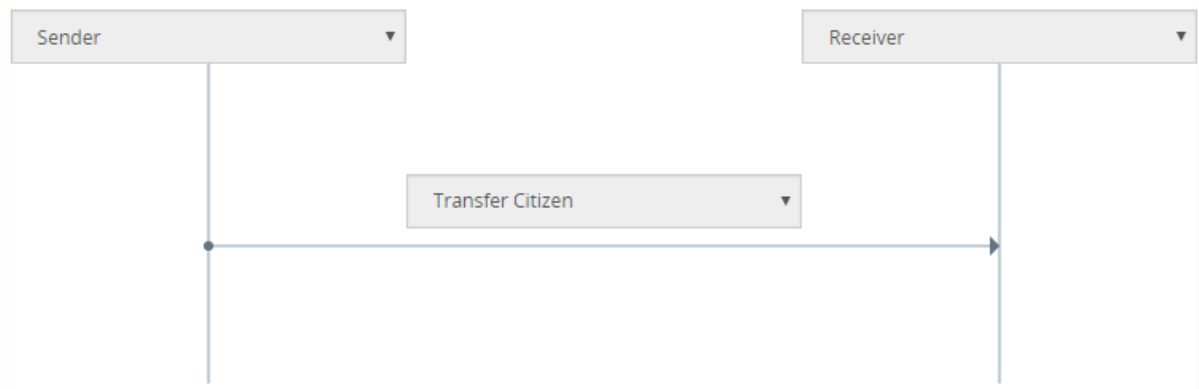
4.4.1. Transfer Citizen

4.4.1.1. Description

Categories	Description and Values
Identifier	1457356575643
Description	The Sender defines location and destination information, loads citizen on-board of vehicle/ambulance either at incident scene or

	hospital/rest center and departs.
Actors	Sender, Receiver
Pre-conditions	The Sender and the Receiver have already identified each other.
Post-conditions	Citizen is transferred to hospital or rest center.

4.4.1.2. Interaction Diagram



4.4.1.3. Transfer Citizen Message

4.4.1.3.1. Message Semantics

```

<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"
  targetNamespace="http://www.c2sense.eu/TransferCitizen"
  xmlns:tns="http://www.example.org/TransferCitizen"
  elementFormDefault="qualified" xmlns:Q1="http://www.c2sense.eu/TransferCitizen"
  xmlns:Q2="urn:oasis:names:tc:emergency:EDXL:TEP:1.0">
  <import namespace="urn:oasis:names:tc:emergency:edxl:ct:1.0" schemaLocation="./edxl-ct-v1.0-
  wd05.xsd"/>
  <import namespace="urn:oasis:names:tc:emergency:EDXL:TEP:1.0" schemaLocation="./edxl-tep-
  v1.0.xsd"/>
  <element name="TransferCitizen" type="Q1:TransferCitizenType"/>
  <complexType name="TransferCitizenType">
    <sequence>
      <element name="MessageID" type="ct:EDXLStringType" minOccurs="1" maxOccurs="1"/>
    
```

```

        <element name="RequestingAuthority" type="ct:EDXLStringType" minOccurs="1"
maxOccurs="1"/>
        <element name="PatientID" type="Q2:PatientIDType" minOccurs="1" maxOccurs="unbounded"/>
        <element name="Justification" type="ct:EDXLStringType" minOccurs="1" maxOccurs="1"/>
        <element name="Destination" type="ct:OrganizationInformationType" minOccurs="1"
maxOccurs="1"/>
        <element name="Transport" type="Q2:TransportType" minOccurs="0" maxOccurs="1"/>
        <element name="Warnings" type="ct:EDXLStringType" minOccurs="0" maxOccurs="1"/>
    </sequence>
</complexType>
</schema>

```

4.4.1.3.2. Protocol Requirements

```

<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:edxldr="urn:oasis:names:tc:emergency:EDXL:DE:1.0" xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="urn:eu:c2sense:emergency:distribution:1.0"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" name="EmergencyDistribution"
targetNamespace="urn:eu:c2sense:emergency:distribution:1.0">
    <documentation>C2SENSE Distribution Web Service</documentation>
    <types>
        <xsd:schema>
            <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:DE:1.0"
schemaLocation="../../DE/EDXL-DE.xsd"/>
        </xsd:schema>
    </types>
    <message name="SendMessage_Message">
        <documentation>Send Message</documentation>
        <part name="body" element="edxldr:EDXLDistribution"/>
    </message>
    <message name="ReceiveResponseMessage_Message">
        <documentation>Receive Response Message</documentation>
        <part name="body" element="edxldr:EDXLDistribution"/>
    </message>
    <portType name="Distribution_PortType">
        <operation name="SendMessage">
            <input message="tns:SendMessage_Message"/>
            <output message="tns:ReceiveResponseMessage_Message"/>
        </operation>
    </portType>
    <binding name="Distribution_Binding_Soap12" type="tns:Distribution_PortType">
        <soap12:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
        <operation name="SendMessage">
            <soap12:operation soapAction="urn:oasis:names:tc:emergency:EDXL:DE:1.0:SendMessage"/>
            <input>
                <soap12:body use="literal"/>
            </input>

```

```

        </input>
        <output>
            <soap12:body use="literal"/>
        </output>
    </operation>
</binding>
<service name="Distribution">
    <port name="Distribution_PortType" binding="tns:Distribution_Binding_Soap12">
        <soap12:address location="https://localhost:8080/Distribution"/>
    </port>
</service>
</definitions>

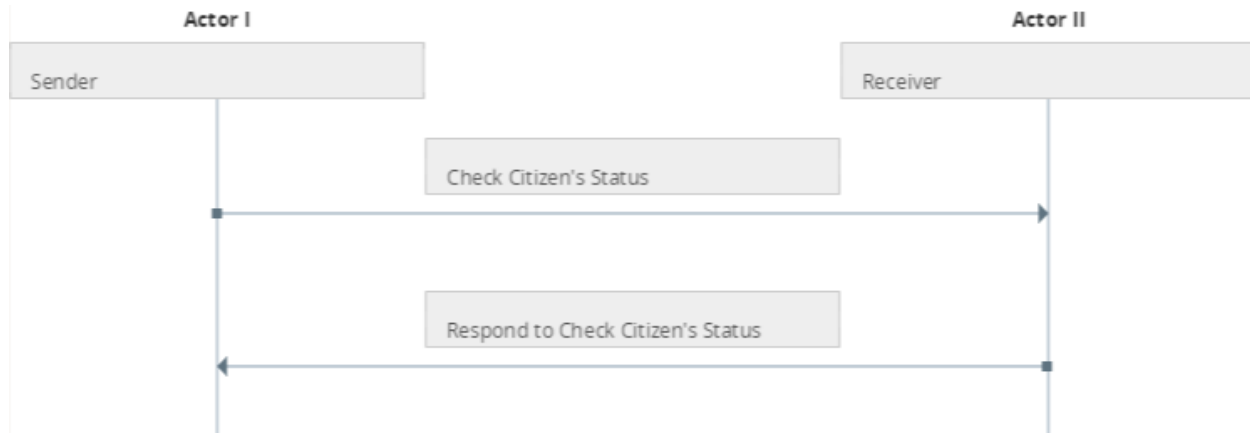
```

4.4.2. Check Citizen's Status

4.4.2.1. Description

Categories	Description and Values
Identifier	1457356575737
Description	The Sender asks the Receiver about citizen's status, such as physical location, movement track, transport and care information, as well as information about care givers retaining responsibility for citizen at a point in time.
Actors	Sender, Receiver
Pre-conditions	The Sender and the Receiver have already identified each other.
Post-conditions	The Receiver informs the Sender about citizen's status.

4.4.2.2. Interaction Diagram



4.4.2.3. Check Citizen's Status Message

4.4.2.3.1. Message Semantics

```

<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"
  targetNamespace="http://www.c2sense.eu/TransferCitizen"
  xmlns:tns="http://www.example.org/TransferCitizen"
  elementFormDefault="qualified" xmlns:Q1="http://www.c2sense.eu/TransferCitizen"
  xmlns:Q2="urn:oasis:names:tc:emergency:EDXL:TEP:1.0">
  <import namespace="urn:oasis:names:tc:emergency:edxl:ct:1.0" schemaLocation="./edxl-ct-v1.0-
  wd05.xsd"/>
  <import namespace="urn:oasis:names:tc:emergency:EDXL:TEP:1.0" schemaLocation="./edxl-tep-
  v1.0.xsd"/>
  <element name="TransferCitizen" type="Q1:TransferCitizenType"/>
  <complexType name="TransferCitizenType">
    <sequence>
      <element name="MessageID" type="ct:EDXLStringType" minOccurs="1" maxOccurs="1"/>
      <element name="RequestingAuthority" type="ct:EDXLStringType" minOccurs="1"
  maxOccurs="1"/>
      <element name="PatientID" type="Q2:PatientIDType" minOccurs="1" maxOccurs="unbounded"/>
      <element name="Justification" type="ct:EDXLStringType" minOccurs="1" maxOccurs="1"/>
      <element name="Destination" type="ct:OrganizationInformationType" minOccurs="1"
  maxOccurs="1"/>
      <element name="Transport" type="Q2:TransportType" minOccurs="0" maxOccurs="1"/>
      <element name="Warnings" type="ct:EDXLStringType" minOccurs="0" maxOccurs="1"/>
    </sequence>
  </complexType>
</schema>

```


4.4.2.3.2. Protocol Requirements

```
<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:edxlde="urn:oasis:names:tc:emergency:EDXL:DE:1.0" xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="urn:eu:c2sense:emergency:distribution:1.0"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" name="EmergencyDistribution"
targetNamespace="urn:eu:c2sense:emergency:distribution:1.0">
  <documentation>C2SENSE Distribution Web Service</documentation>
  <types>
    <xsd:schema>
      <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:DE:1.0"
schemaLocation="../../DE/EDXL-DE.xsd"/>
    </xsd:schema>
  </types>
  <message name="SendMessage_Message">
    <documentation>Send Message</documentation>
    <part name="body" element="edxlde:EDXLDistribution"/>
  </message>
  <message name="ReceiveResponseMessage_Message">
    <documentation>Receive Response Message</documentation>
    <part name="body" element="edxlde:EDXLDistribution"/>
  </message>
  <portType name="Distribution_PortType">
    <operation name="SendMessage">
      <input message="tns:SendMessage_Message"/>
      <output message="tns:ReceiveResponseMessage_Message"/>
    </operation>
  </portType>
  <binding name="Distribution_Binding_Soap12" type="tns:Distribution_PortType">
    <soap12:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
    <operation name="SendMessage">
      <soap12:operation soapAction="urn:oasis:names:tc:emergency:EDXL:DE:1.0:SendMessage"/>
      <input>
        <soap12:body use="literal"/>
      </input>
      <output>
        <soap12:body use="literal"/>
      </output>
    </operation>
  </binding>
  <service name="Distribution">
    <port name="Distribution_PortType" binding="tns:Distribution_Binding_Soap12">
      <soap12:address location="https://localhost:8080/Distribution"/>
    </port>
  </service>
</definitions>
```

</definitions>

4.4.1.4. Respond to Check Citizen's Status Message

4.4.1.4.1. Message Semantics

```
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"
  targetNamespace="http://www.c2sense.eu/TransferCitizen"
  xmlns:tns="http://www.example.org/TransferCitizen"
  elementFormDefault="qualified" xmlns:Q1="http://www.c2sense.eu/TransferCitizen"
  xmlns:Q2="urn:oasis:names:tc:emergency:EDXL:TEP:1.0">
  <import namespace="urn:oasis:names:tc:emergency:edxl:ct:1.0" schemaLocation="./edxl-ct-v1.0-
wd05.xsd"/>
  <import namespace="urn:oasis:names:tc:emergency:EDXL:TEP:1.0" schemaLocation="./edxl-tep-
v1.0.xsd"/>
  <element name="TransferCitizen" type="Q1:TransferCitizenType"/>
  <complexType name="TransferCitizenType">
    <sequence>
      <element name="MessageID" type="ct:EDXLStringType" minOccurs="1" maxOccurs="1"/>
      <element name="RequestingAuthority" type="ct:EDXLStringType" minOccurs="1"
maxOccurs="1"/>
      <element name="PatientID" type="Q2:PatientIDType" minOccurs="1" maxOccurs="unbounded"/>
      <element name="Justification" type="ct:EDXLStringType" minOccurs="1" maxOccurs="1"/>
      <element name="Destination" type="ct:OrganizationInformationType" minOccurs="1"
maxOccurs="1"/>
      <element name="Transport" type="Q2:TransportType" minOccurs="0" maxOccurs="1"/>
      <element name="Warnings" type="ct:EDXLStringType" minOccurs="0" maxOccurs="1"/>
    </sequence>
  </complexType>
</schema>
```

4.4.1.4.2. Protocol Requirements

```
<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:edxlde="urn:oasis:names:tc:emergency:EDXL:DE:1.0" xmlns="http://schemas.xmlsoap.org/wsdl/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:tns="urn:eu:c2sense:emergency:distribution:1.0"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" name="EmergencyDistribution"
  targetNamespace="urn:eu:c2sense:emergency:distribution:1.0">
```

```
<documentation>C2SENSE Distribution Web Service</documentation>
<types>
  <xsd:schema>
    <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:DE:1.0"
schemaLocation="../../DE/EDXL-DE.xsd"/>
  </xsd:schema>
</types>
<message name="SendMessage_Message">
  <documentation>Send Message</documentation>
  <part name="body" element="edxlde:EDXLDistribution"/>
</message>
<message name="ReceiveResponseMessage_Message">
  <documentation>Receive Response Message</documentation>
  <part name="body" element="edxlde:EDXLDistribution"/>
</message>
<portType name="Distribution_PortType">
  <operation name="SendMessage">
    <input message="tns:SendMessage_Message"/>
    <output message="tns:ReceiveResponseMessage_Message"/>
  </operation>
</portType>
<binding name="Distribution_Binding_Soap12" type="tns:Distribution_PortType">
  <soap12:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
  <operation name="SendMessage">
    <soap12:operation soapAction="urn:oasis:names:tc:emergency:EDXL:DE:1.0:SendMessage"/>
    <input>
      <soap12:body use="literal"/>
    </input>
    <output>
      <soap12:body use="literal"/>
    </output>
  </operation>
</binding>
<service name="Distribution">
  <port name="Distribution_PortType" binding="tns:Distribution_Binding_Soap12">
    <soap12:address location="https://localhost:8080/Distribution"/>
  </port>
</service>
</definitions>
```