



Situation Reporting

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1. INTRODUCTION

Situation Reporting profile describes how an organization (sender) can send situational reports to another one (receiver). It describes a series of activities for the transmission of timely available situational reports.

2. OBJECTIVES

The objectives of implementing this profile are:

1. Identifying and describing the incident.
2. Describing an observation that is directly observed in the field by an emergency professional.
3. Collecting data related to management concerns such as operational planning, damage and threat assessment, weather conditions etc.
4. Facilitating emergency information sharing and data exchange across different organizations of different professions that provide emergency response and management services.
5. Supporting everyday events and incident preparedness, as well as disasters.
6. Increasing situational awareness.
7. Expediting the creation of common operational picture.

3. SCOPE

This profile supports a process of transmitting timely available situational reports. It is intended to support transmission of electronic documents for processing by receiver. The intended scope for this profile includes:

- Before, during and after emergency situations
- Among 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 producer and receiver organizations have had necessary infrastructure, which is specified in the profile, to enable them to send and receive the messages in a secured way, using an agreed syntax.

4. PROFILE DETAILED DESCRIPTION

4.2. Roles Involved

Actor	Description
Report Producer	The Report Producer is the legal person or organization who produces and distributes a situational report.
Report Receiver	The Report Receiver is the legal person or organization who is in demand of or should receive a situational report.

4.3. Actor Diagram



Figure above shows the actors directly involved in the Situation Reporting Profile and the possible messages to be exchanged between them.

4.4. Transaction Information

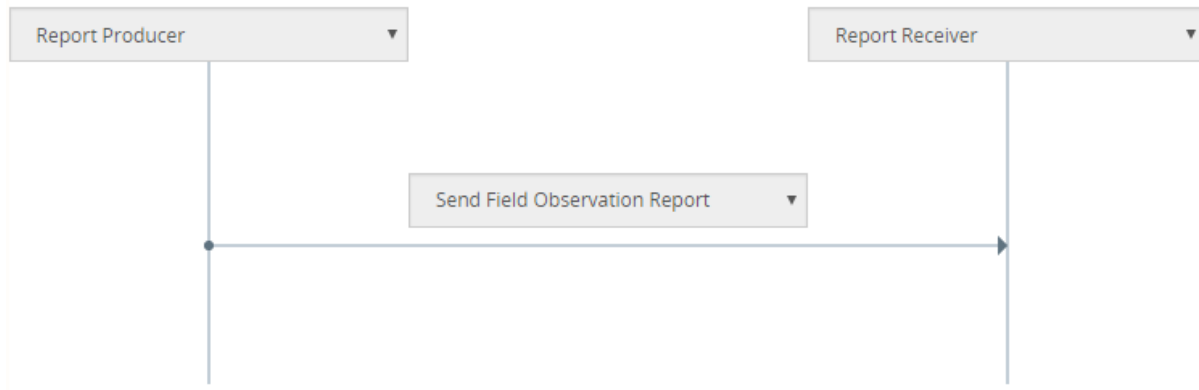
4.4.1. Send Field Observation Report

4.4.1.1. Description

Categories	Description and Values
Identifier	c733532d-903a-4055-933f-2d56618f516a

Description	The Report Producer makes an observation in the field and sends the report to the Report Receiver.
Actors	Report Producer, Report Receiver
Pre-conditions	<p>The Report Producer and the Report Receiver have already identified each other.</p> <p>The Report Receiver has agreed to accept electronic field observation reports.</p>
Post-conditions	The Report Receiver has received a report.

4.4.1.2. Interaction Diagram



4.4.1.3. Send Field Observation Report Message

4.4.1.3.1. Message Semantics

```

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gsf="urn:oasis:names:tc:emergency:edxl:gsf:1.0"
xmlns:ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"
xmlns="urn:oasis:names:tc:emergency:EDXL:SitRep:1.0"
xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension:1.0"
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```

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```

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type="DecisionSupportInformationType" minOccurs="0"/>
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        <xs:enumeration value="Overdue"/>
        <xs:enumeration value="AvailableByPager"/>
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```

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    <xs:enumeration value="NoConfidence"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="SeverityDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Extreme"/>
    <xs:enumeration value="Severe"/>
    <xs:enumeration value="Moderate"/>
    <xs:enumeration value="Minor"/>
    <xs:enumeration value="Unknown"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ImmediateNeedsCategoryDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="EmergencyMedicalServices"/>
    <xs:enumeration value="FireAndHazardousMaterials"/>
    <xs:enumeration value="IncidentManagement"/>
    <xs:enumeration value="LawEnforcement"/>
    <xs:enumeration value="MassCare"/>
    <xs:enumeration value="MedicalAndPublicHealth"/>
    <xs:enumeration value="PublicWorks"/>
    <xs:enumeration value="SearchAndRescue"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="IncidentKindDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Geophysical"/>
    <xs:enumeration value="Meteorological"/>
    <xs:enumeration value="GeneralEmergency"/>
    <xs:enumeration value="Safety"/>
    <xs:enumeration value="Security"/>
    <xs:enumeration value="RescueAndRecovery"/>
    <xs:enumeration value="Rescue"/>
    <xs:enumeration value="FireSupressionAndRescue"/>
    <xs:enumeration value="Fire"/>
    <xs:enumeration value="MedicalAndPublicHealth"/>
    <xs:enumeration value="Health"/>
  </xs:restriction>

```

```

    <xs:enumeration value="PollutionAndEnvironmentalHazards"/>
    <xs:enumeration value="PublicAndPrivateTransportation"/>
    <xs:enumeration value="Transport"/>
    <xs:enumeration value="UtilityTelecommunicationOtherNonTransportInfrastructure"/>
    <xs:enumeration value="CBRNE"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="PositionDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="CompensationClaimsUnitLeader"/>
    <xs:enumeration value="ProcurementUnitLeader"/>
    <xs:enumeration value="TimeUnitLeader"/>
    <xs:enumeration value="CostUnitLeader"/>
    <xs:enumeration value="FinanceAdministrationSectionChief"/>
    <xs:enumeration value="CommunicationsUnitLeader"/>
    <xs:enumeration value="MedicalUnitLeader"/>
    <xs:enumeration value="FoodUnitLeader"/>
    <xs:enumeration value="ServiceBranchDirector"/>
    <xs:enumeration value="GroundSupportUnitLeader"/>
    <xs:enumeration value="FacilitiesUnitDirector"/>
    <xs:enumeration value="SupplyUnitDirector"/>
    <xs:enumeration value="SupportBranchDirector"/>
    <xs:enumeration value="LogisticsSectionChief"/>
    <xs:enumeration value="StagingAreaManager"/>
    <xs:enumeration value="OperationsSectionChief"/>
    <xs:enumeration value="DemobilizationUnitLeader"/>
    <xs:enumeration value="DocumentationUnitLeader"/>
    <xs:enumeration value="ResourcesUnitLeader"/>
    <xs:enumeration value="SituationUnitLeader"/>
    <xs:enumeration value="PlanningSectionChief"/>
    <xs:enumeration value="TechnicalSpecialst"/>
    <xs:enumeration value="PublicInformationOfficer"/>
    <xs:enumeration value="SafetyOfficer"/>
    <xs:enumeration value="CommunicationsOfficer"/>
    <xs:enumeration value="LiaisonOfficer"/>
    <xs:enumeration value="IncidentCommander"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CasualtyAndIllnessCountCategoryDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Fatalities"/>
    <xs:enumeration value="Hospitalized"/>
    <xs:enumeration value="WithInjuryOrIllness"/>
    <xs:enumeration value="TrappedOrInNeedOfRescue"/>
    <xs:enumeration value="Missing"/>
    <xs:enumeration value="Evacuated"/>
    <xs:enumeration value="ShelteringInPlace"/>
    <xs:enumeration value="InTemporaryShelters"/>
    <xs:enumeration value="InQuarantine"/>
    <xs:enumeration value="ReceivedMassImmunizations"/>
  </xs:restriction>
</xs:simpleType>

```

```
<xs:enumeration value="RequireMassImmunizations"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="SignificantEventsDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="RoadClosure"/>
    <xs:enumeration value="MassNotifications"/>
    <xs:enumeration value="Evacuation"/>
    <xs:enumeration value="ShelterInPlace"/>
    <xs:enumeration value="PowerOutage"/>
    <xs:enumeration value="TreeDown"/>
    <xs:enumeration value="StrandedVehicle"/>
    <xs:enumeration value="WaterLineBreak"/>
    <xs:enumeration value="WaterShortage"/>
    <xs:enumeration value="Quarantine"/>
    <xs:enumeration value="BridgeCollapse"/>
    <xs:enumeration value="BuildingCollapse"/>
    <xs:enumeration value="Deaths"/>
    <xs:enumeration value="Injuries"/>
    <xs:enumeration value="MassImmunizations"/>
    <xs:enumeration value="CleanupComplete"/>
    <xs:enumeration value="ResidentRepopulation"/>
    <xs:enumeration value="IncidentCommandTransition"/>
    <xs:enumeration value="Accomplishments"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="LifeAndSafetyThreatDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="NoLikelyThreat"/>
    <xs:enumeration value="PotentialFutureThreat"/>
    <xs:enumeration value="MassNotificationsInProgress"/>
    <xs:enumeration value="MassNotificationsCompleted"/>
    <xs:enumeration value="NoEvacuationsImminent"/>
    <xs:enumeration value="PlanningForEvacuation"/>
    <xs:enumeration value="PlanningForShelterInPlace"/>
    <xs:enumeration value="EvacuationsInProgress"/>
    <xs:enumeration value="ShelterInPlaceInProgress"/>
    <xs:enumeration value="RepopulationInProgress"/>
    <xs:enumeration value="MassImmunizationInProgress"/>
    <xs:enumeration value="MassImmunizationComplete"/>
    <xs:enumeration value="QuarantineInProgress"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="InfrastructureAffectedDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="MassTransit"/>
    <xs:enumeration value="RoadsAndHighways"/>
    <xs:enumeration value="Railway"/>
    <xs:enumeration value="BridgesAndTunnels"/>
    <xs:enumeration value="Seaports"/>
  </xs:restriction>
</xs:simpleType>
```



```
<xs:enumeration value="Waterways"/>
<xs:enumeration value="Airports"/>
<xs:enumeration value="Broadcast"/>
<xs:enumeration value="Power"/>
<xs:enumeration value="Water"/>
<xs:enumeration value="Bridges"/>
<xs:enumeration value="GasLines"/>
<xs:enumeration value="Nuclear"/>
<xs:enumeration value="ConduitsAndRaceways"/>
<xs:enumeration value="CablingAndPatchPanels"/>
<xs:enumeration value="PowerAndEnergy"/>
<xs:enumeration value="AirConditioning"/>
<xs:enumeration value="DrinkingWater"/>
<xs:enumeration value="Sewage"/>
<xs:enumeration value="Irrigation"/>
<xs:enumeration value="WasteOrHazardousWaste"/>
<xs:enumeration value="FloodControl"/>
<xs:enumeration value="EarthMonitoringAndMeasurementNetworks"/>
<xs:enumeration value="Postal"/>
<xs:enumeration value="TelecommunicationsPhone"/>
<xs:enumeration value="TelecommunicationsMobile"/>
<xs:enumeration value="InternetBackbone"/>
<xs:enumeration value="PrivateNetwork"/>
<xs:enumeration value="Satellite"/>
<xs:enumeration value="ElectronicCommunicationsNetworks"/>
<xs:enumeration value="PersonalComputingServersAndDevices"/>
<xs:enumeration value="TrainedPersonnel"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="DamageCategoryDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="ThreatenedWithin72Hours"/>
    <xs:enumeration value="Damaged"/>
    <xs:enumeration value="Destroyed"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="EmergencyResponseIssuesDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="ESF11AgricultureAndNaturalResources"/>
    <xs:enumeration value="ESF2Communications"/>
    <xs:enumeration value="ESF5EmergencyManagement"/>
    <xs:enumeration value="ESF12Energy"/>
    <xs:enumeration value="ESF15ExternalAffairs"/>
    <xs:enumeration value="ESF4Firefighting"/>
    <xs:enumeration value="ESF7LogisticsManagementResourceSupport"/>
    <xs:enumeration value="ESF14LongTermCommunityRecoveryAndMitigation"/>
    <xs:enumeration value="ESF6MassCareHousingAndHumanServices"/>
    <xs:enumeration value="ESF10OilAndHazardousMaterialsResponse"/>
    <xs:enumeration value="ESF8PublicHealthAndMedicalServices"/>
    <xs:enumeration value="ESF13PublicSafetyAndSecurity"/>
  </xs:restriction>
</xs:simpleType>
```

```

    <xs:enumeration value="ESF3PublicWorksAndEngineering"/>
    <xs:enumeration value="ESF9SearchAndRescue"/>
    <xs:enumeration value="ESF1Transportation"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="IncidentComplexityDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Complex"/>
    <xs:enumeration value="ModerateComplex"/>
    <xs:enumeration value="Moderate"/>
    <xs:enumeration value="Low"/>
  </xs:restriction>
</xs:simpleType>
</xs: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:edxld="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="edxld:EDXLDistribution"/>
  </message>
  <message name="ReceiveResponseMessage_Message">
    <documentation>Receive Response Message</documentation>
    <part name="body" element="edxld: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>

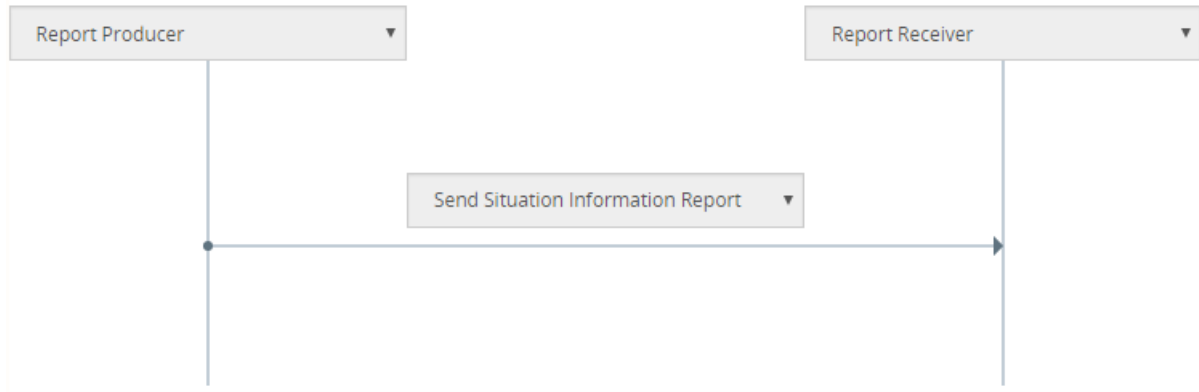
```

4.4.2. Send Situation Information Report

4.4.2.1. Description

Categories	Description and Values
Identifier	e665f581-2ba4-43fe-889c-10c2583e182d
Description	The Report Producer identifies an incident, describes it in situation information report, and sends the report to the Report Receiver.
Actors	Report Producer, Report Receiver
Pre-conditions	<p>The Report Producer and the Report Receiver have already identified each other.</p> <p>The Report Receiver has agreed to accept electronic situation information reports.</p>
Post-conditions	The Report Receiver has received a report.

4.4.2.2. Interaction Diagram



4.4.2.3. Send Situation Information Report Message

4.4.2.3.1. Message Semantics

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:edxl-
gsf="urn:oasis:names:tc:emergency:edxl:gsf:1.0"
xmlns:ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"
xmlns="urn:oasis:names:tc:emergency:EDXL:SitRep:1.0"
xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension:1.0"
targetNamespace="urn:oasis:names:tc:emergency:EDXL:SitRep:1.0" elementFormDefault="qualified"
attributeFormDefault="qualified">
  <xs:import namespace="urn:oasis:names:tc:emergency:edxl:ct:1.0" schemaLocation="../RIM/edxl-
ct-v1.0-csd06/edxl-ct-v1.0.xsd"/>
  <xs:import namespace="urn:oasis:names:tc:emergency:edxl:gsf:1.0" schemaLocation="../RIM/edxl-
gsf-v1.0-csd02/edxl-gsf-v1.0.xsd"/>
  <xs:import namespace="urn:oasis:names:tc:emergency:edxl:extension:1.0"
schemaLocation="../RIM/edxl-ext-v1.0/edxl-ext-v1.0.xsd"/>
  <xs:complexType name="IReport" abstract="true">
    <xs:element ref="ext:extension" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="DisasterInformationType">
  <xs:sequence>
    <xs:element name="disasterName" type="xs:string"/>
    <xs:element name="disasterDeclarationAuthority" type="xs:string"/>
    <xs:element name="disasterDeclarationDateTime" type="ct:EDXLDateTimeType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="IncidentStagingType">
  <xs:sequence>

```

```
<xs:element name="incidentStagingArea" type="xs:string"/>
<xs:element name="incidentStagingAreaLocation" type="ct:EDXLLocationType"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="ResourceTotalType">
  <xs:sequence>
    <xs:element name="branchDivisionGroup" type="ct:EDXLStringType"/>
    <xs:element name="resource" type="ResourceCountType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ResourceStatusType">
  <xs:sequence>
    <xs:element name="inventoryRefreshDateTime" type="ct:EDXLDateTimeType"/>
    <xs:element name="deploymentStatus" type="DeploymentStatusDefaultValues" minOccurs="0"/>
    <xs:element name="availability" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ResourceCountType">
  <xs:sequence>
    <xs:element name="agencyOrganization" type="ct:EDXLStringType"/>
    <xs:element name="resourceName" type="ct:EDXLStringType"/>
    <xs:element name="resourceTypeCategoryKind" type="ct:ValueListType" minOccurs="0"/>
    <xs:element name="resourceDetail" type="ResourceDetailType" minOccurs="0"/>
    <xs:element name="isSufficient" type="xs:boolean" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ResourceDetailType">
  <xs:sequence>
    <xs:element name="resourcePersonnelCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="unassignedResourcePersonnel" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceRequiredCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceCommittedCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceOnHandCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceStillNeededCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceRequestedCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="dateTimeOrdered" type="ct:EDXLDateTimeType" minOccurs="0"/>
    <xs:element name="requestedArrival" type="ct:EDXLDateTimeType" minOccurs="0"/>
    <xs:element name="estimatedArrival" type="ct:EDXLDateTimeType" minOccurs="0"/>
    <xs:element name="reportToLocation" type="ct:EDXLLocationType" minOccurs="0"/>
    <xs:element name="workAssignment" type="ct:EDXLStringType" minOccurs="0"/>
    <xs:element name="specialInstructions" type="xs:string" minOccurs="0"/>
    <xs:element name="specialEquipmentAndSupplies" type="xs:string" minOccurs="0"/>
    <xs:element name="additionalAssistingOrganizations" type="xs:string" minOccurs="0"/>
    <xs:element name="resourceStatus" type="ResourceStatusType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="OrganizationAndAssignmentsType">
  <xs:sequence>
    <xs:element name="commandStructure" type="ct:EDXLStringType" minOccurs="0"/>
    <xs:element name="positionTitle" type="PositionDefaultValues" minOccurs="0"/>
```

```

    <xs:element name="personName" type="ct:PersonDetailsType" minOccurs="0"/>
    <xs:element name="branch" type="ct:ValueKeyType" minOccurs="0"/>
    <xs:element name="reportsToPositionTitle" type="PositionDefaultValues" minOccurs="0"/>
    <xs:element name="reportsToPersonName" type="ct:PersonDetailsType" minOccurs="0"/>
    <xs:element name="reportsToAgency" type="ct:ValueListType" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="reportsToBranch" type="ct:ValueKeyType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ImmunizationCountType">
  <xs:sequence>
    <xs:element name="count" type="xs:unsignedInt"/>
    <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
    <xs:element name="isEstimate" type="ct:EstimateType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SummaryCountType">
  <xs:sequence>
    <xs:element name="casualtyAndIllnessCountCategory"
type="CasualtyAndIllnessCountCategoryType"/>
    <xs:element name="responderSummaryCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="nonResponderSummaryCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="responderSummaryCountToDate" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="nonResponderSummaryCountToDate" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="receivedMassImmunizations" type="ImmunizationCountType"
minOccurs="0"/>
    <xs:element name="requireMassImmunizations" type="ImmunizationCountType" minOccurs="0"/>
    <xs:element name="shelterCountEstimate" type="xs:unsignedInt" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="NotifiableDiseaseNumbersType">
  <xs:sequence>
    <xs:element name="diseaseSuspected" type="ct:ValueKeyType"/>
    <xs:element name="probableCause" type="ct:EDXLStringType"/>
    <xs:element name="countOfSuspectedCases" type="xs:unsignedInt"/>
    <xs:element name="countOfConfirmedCases" type="xs:unsignedInt"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="DebrisManagementType">
  <xs:sequence>
    <xs:element name="totalDebrisGeneratedCY" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="debrisClearedToDateCY" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="debrisNotYetClearedCY" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="daysToClearanceComplete" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="percentOfJurisdictionWithDebrisImpacts" type="ct:PercentageType"
minOccurs="0"/>
    <xs:element name="areasWithDebrisImpacts" type="ct:ValueListType" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="areasWhereWorkNotStarted" type="ct:ValueListType" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="debrisDisposedToDateCY" type="xs:unsignedInt" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

```

        <xs:element name="debrisNotYetDisposedCY" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="debrisStorageSitesPercentFilled" type="ct:PercentageType"
minOccurs="0"/>
        <xs:element name="daysToDisposalComplete" type="xs:unsignedInt" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ExternalAffairsType">
    <xs:sequence>
        <xs:element name="effectivePublicCommunication" type="xs:boolean" minOccurs="0"/>
        <xs:element name="talkingPoints" minOccurs="0">
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="talkingPoint" type="xs:string" maxOccurs="unbounded"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="rumors" minOccurs="0">
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="rumor" type="xs:string" maxOccurs="unbounded"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="SituationSummaryType">
    <xs:sequence>
        <xs:element name="incidentCause" type="xs:string"/>
        <xs:element name="significantEvents" type="SignificantEventsDefaultValues" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="damageAssessmentInformation" type="xs:string" minOccurs="0"/>
        <xs:element name="primaryHazards" type="xs:string" minOccurs="0"/>
        <xs:element name="hazMatIncidentReport">
            <xs:complexType>
                <xs:sequence>
                    <xs:any namespace="##other" processContents="lax" minOccurs="0"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="extentOfContamination" type="ct:EDXLLocationType" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="generalPopulationStatus" type="xs:string" minOccurs="0"/>
        <xs:element name="externalAffairs" type="ExternalAffairsType" minOccurs="0"/>
        <xs:element name="lifeAndSafetyThreat" type="LifeAndSafetyThreatDefaultValues"
maxOccurs="unbounded"/>
        <xs:element name="incidentThreatSummaryAndRisk" type="xs:string" minOccurs="0"/>
        <xs:element name="followOnIndication" type="xs:string" minOccurs="0"/>
        <xs:element name="infrastructureAffected" type="InfrastructureAffectedDefaultValues"
minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="debrisManagement" type="DebrisManagementType" minOccurs="0"/>

```

```

        <xs:element name="propertyDamage" type="PropertyDamageType" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="percentContained" type="ct:PercentageType" minOccurs="0"/>
        <xs:element name="requestsForAdditionalSupport" type="xs:string" minOccurs="0"/>
        <xs:element name="terrorismNexus" type="xs:string" minOccurs="0"/>
        <xs:element name="weatherEffects" type="ct:WeatherInfoType" minOccurs="0"/>
        <xs:element name="transportationSystems" type="ct:ValueKeyStringPairType" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="PropertyDamageType">
    <xs:sequence>
        <xs:element name="numberDamaged" type="xs:unsignedInt"/>
        <xs:element name="damageCategory" type="DamageCategoryDefaultValues"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="EstimatedCostsType">
    <xs:sequence>
        <xs:element name="costs" type="ct:CurrencyType"/>
        <xs:element name="isEstimate" type="ct:EstimateType" minOccurs="0"/>
        <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="EstimatedDateType">
    <xs:sequence>
        <xs:element name="date" type="ct:EDXLDatetimeType"/>
        <xs:element name="isEstimate" type="ct:EstimateType" minOccurs="0"/>
        <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="DecisionSupportInformationType">
    <xs:sequence>
        <xs:element name="projectedIncidentActivity" type="ct:ValueKeyStringPairType"
minOccurs="0"/>
        <xs:element name="projectedNumberToBeSheltered" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="criticalResourceNeeds" type="ct:ValueKeyStringPairType" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="projectedFinalIncidentSize" type="xs:unsignedLong" minOccurs="0"/>
        <xs:element name="anticipatedCompletionDate" type="EstimatedDateType" minOccurs="0"/>
        <xs:element name="projectedDemobilizationStartDate" type="EstimatedDateType"
minOccurs="0"/>
        <xs:element name="estimatedCostsToDate" type="EstimatedCostsType" minOccurs="0"/>
        <xs:element name="projectedFinalCosts" type="EstimatedCostsType" minOccurs="0"/>
        <xs:element name="emergencyResponseIssues" type="EmergencyResponseIssuesDefaultValues"
minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="strategicDiscussion" type="xs:string" minOccurs="0"/>
        <xs:element name="plannedActions" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="IncidentInformationType">
    <xs:sequence>

```



```

    <xs:element name="incidentName" type="xs:string"/>
    <xs:element name="incidentKind" type="IncidentKindDefaultValues"/>
    <xs:element name="incidentStartDateTime" type="ct:EDXLDateTimeType"/>
    <xs:element name="geographicSize" type="GeographicSizeType"/>
    <xs:element name="disasterInformation" type="DisasterInformationType" minOccurs="0"/>
    <xs:element name="incidentLocation" type="ct:EDXLLocationType"/>
    <xs:element name="jurisdictionInformation" type="JurisdictionInformationType"
minOccurs="0"/>
    <xs:element name="incidentStaging" type="IncidentStagingType" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="CasualtyAndIllnessCountCategoryType">
  <xs:sequence>
    <xs:element name="countCategory" type="CasualtyAndIllnessCountCategoryDefaultValues"/>
    <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
    <xs:element name="isEstimate" type="ct:EstimateType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="JurisdictionInformationType">
  <xs:sequence>
    <xs:element name="name" type="xs:string"/>
    <xs:element name="geographicSize" type="GeographicSizeType"/>
    <xs:element name="location" type="ct:EDXLLocationType"/>
    <xs:element name="description" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="GeographicSizeType">
  <xs:sequence>
    <xs:element name="size" type="xs:unsignedLong"/>
    <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<!--/Complex Types in Documet Order-->
<!--Root Element-->
<xs:element name="sitRep" type="SitRepType"/>
<xs:complexType name="SitRepType">
  <xs:sequence>
    <xs:element name="messageID" type="ct:EDXLStringType"/>
    <xs:element name="preparedBy" type="ct:PersonTimePairType"/>
    <xs:element name="authorizedBy" type="ct:PersonTimePairType"/>
    <xs:element name="reportPurpose" type="ct:EDXLStringType"/>
    <xs:element name="reportNumber" type="xs:unsignedInt"/>
    <xs:element name="reportVersion" type="ReportVersionDefaultValues"/>
    <xs:element name="forTimePeriod" type="ct:TimePeriodType"/>
    <xs:element name="reportTitle" type="ct:EDXLStringType" minOccurs="0"/>
    <xs:element name="incidentID" type="ct:EDXLStringType" maxOccurs="unbounded"/>
    <xs:element name="incidentLifecyclePhase" type="IncidentLifecycleDefaultValues"
minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="originatingMessageID" type="ct:EDXLStringType" minOccurs="0"/>
  </xs:sequence>

```

```

        <xs:element name="precedingMessageID" type="ct:EDXLStringType" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="urgency" type="UrgencyDefaultValues" minOccurs="0"/>
        <xs:element name="reportConfidence" type="ConfidenceDefaultValues"/>
        <xs:element name="severity" type="SeverityDefaultValues"/>
        <xs:element name="reportingLocation" type="ct:EDXLLocationType" minOccurs="0"/>
        <xs:element name="actionPlan" type="ct:EDXLStringType" minOccurs="0"/>
        <xs:element name="nextContact" type="ct:EDXLDateTimeType" minOccurs="0"/>
        <xs:element name="report" type="IReport"/>
    </xs:sequence>
</xs:complexType>
<!--End Root-->
<!--Subreport Types-->
<xs:element name="managementReportingSummary" type="ManagementReportingSummaryType"/>
<xs:element name="responseResourcesTotals" type="ResponseResourcesTotalsType"/>
<xs:element name="fieldObservation" type="FieldObservationType"/>
<xs:element name="situationInformation" type="SituationInformationType"/>
<xs:element name="casualtyAndIllnessSummary" type="CasualtyAndIllnessSummaryType"/>
<xs:complexType name="FieldObservationType">
    <xs:complexContent>
        <xs:extension base="IReport">
            <xs:sequence>
                <xs:element name="observationLocation" type="ct:EDXLLocationType"/>
                <xs:element name="immediateNeeds" type="ct:EDXLStringType"/>
                <xs:element name="immediateNeedsCategory"
type="ImmediateNeedsCategoryDefaultValues" minOccurs="0" maxOccurs="unbounded"/>
                <xs:element name="observationText" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="SituationInformationType">
    <xs:complexContent>
        <xs:extension base="IReport">
            <xs:sequence>
                <xs:choice>
                    <xs:sequence>
                        <xs:element name="primaryIncidentInformation"
type="IncidentInformationType"/>
                        <xs:element name="subIncidentInformation" type="SubIncidentInformationType"
minOccurs="0" maxOccurs="unbounded"/>
                    </xs:sequence>
                </xs:choice>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="ResponseResourcesTotalsType">
    <xs:complexContent>
        <xs:extension base="IReport">

```

```

        <xs:sequence>
            <xs:choice maxOccurs="unbounded">
                <xs:element name="resourceTotal" type="ResourceTotalType"/>
                <xs:element name="organizationAndAssignments"
type="OrganizationAndAssignmentsType"/>
            </xs:choice>
        </xs:sequence>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="CasualtyAndIllnessSummaryType">
    <xs:complexContent>
        <xs:extension base="IReport">
            <xs:sequence>
                <xs:choice maxOccurs="unbounded">
                    <xs:element name="summaryCount" type="SummaryCountType"/>
                    <xs:element name="notifiableDiseaseNumbers"
type="NotifiableDiseaseNumbersType"/>
                </xs:choice>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="ManagementReportingSummaryType">
    <xs:complexContent>
        <xs:extension base="IReport">
            <xs:sequence>
                <xs:choice>
                    <xs:sequence>
                        <xs:element name="situationSummary" type="SituationSummaryType"/>
                        <xs:element name="decisionSupportInformation"
type="DecisionSupportInformationType" minOccurs="0"/>
                        <xs:element name="jurisdictionInformation"
type="JurisdictionInformationType" minOccurs="0" maxOccurs="unbounded"/>
                    </xs:sequence>
                    <xs:sequence>
                        <xs:element name="decisionSupportInformation"
type="DecisionSupportInformationType"/>
                        <xs:element name="jurisdictionInformation"
type="JurisdictionInformationType" minOccurs="0" maxOccurs="unbounded"/>
                    </xs:sequence>
                    <xs:element name="jurisdictionInformation" type="JurisdictionInformationType"
maxOccurs="unbounded"/>
                </xs:choice>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="SubIncidentInformationType">
    <xs:sequence>
        <xs:element name="subIncident" type="IncidentInformationType" maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>

```

```
</xs:sequence>
</xs:complexType>
<xs:simpleType name="DeploymentStatusDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Available"/>
    <xs:enumeration value="ConditionallyAvailable"/>
    <xs:enumeration value="Enroute"/>
    <xs:enumeration value="AtHospital"/>
    <xs:enumeration value="NotAvailable"/>
    <xs:enumeration value="OnScene"/>
    <xs:enumeration value="Overdue"/>
    <xs:enumeration value="AvailableByPager"/>
    <xs:enumeration value="InQuarters"/>
    <xs:enumeration value="OntheRadio"/>
    <xs:enumeration value="Transporting"/>
    <xs:enumeration value="WaitingResponse"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ReportVersionDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Initial"/>
    <xs:enumeration value="Update"/>
    <xs:enumeration value="Final"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="IncidentLifecycleDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Preparedness"/>
    <xs:enumeration value="Response"/>
    <xs:enumeration value="Mitigation"/>
    <xs:enumeration value="Recovery"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="UrgencyDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Immediate"/>
    <xs:enumeration value="Expected"/>
    <xs:enumeration value="Future"/>
    <xs:enumeration value="Past"/>
    <xs:enumeration value="Unknown"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ConfidenceDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="HighlyConfident"/>
    <xs:enumeration value="SomewhatConfident"/>
    <xs:enumeration value="Unsure"/>
    <xs:enumeration value="NoConfidence"/>
  </xs:restriction>
</xs:simpleType>
```

```
<xs:simpleType name="SeverityDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Extreme"/>
    <xs:enumeration value="Severe"/>
    <xs:enumeration value="Moderate"/>
    <xs:enumeration value="Minor"/>
    <xs:enumeration value="Unknown"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ImmediateNeedsCategoryDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="EmergencyMedicalServices"/>
    <xs:enumeration value="FireAndHazardousMaterials"/>
    <xs:enumeration value="IncidentManagement"/>
    <xs:enumeration value="LawEnforcement"/>
    <xs:enumeration value="MassCare"/>
    <xs:enumeration value="MedicalAndPublicHealth"/>
    <xs:enumeration value="PublicWorks"/>
    <xs:enumeration value="SearchAndRescue"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="IncidentKindDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Geophysical"/>
    <xs:enumeration value="Meteorological"/>
    <xs:enumeration value="GeneralEmergency"/>
    <xs:enumeration value="Safety"/>
    <xs:enumeration value="Security"/>
    <xs:enumeration value="RescueAndRecovery"/>
    <xs:enumeration value="Rescue"/>
    <xs:enumeration value="FireSupressionAndRescue"/>
    <xs:enumeration value="Fire"/>
    <xs:enumeration value="MedicalAndPublicHealth"/>
    <xs:enumeration value="Health"/>
    <xs:enumeration value="PollutionAndEnvironmentalHazards"/>
    <xs:enumeration value="PublicAndPrivateTransportation"/>
    <xs:enumeration value="Transport"/>
    <xs:enumeration value="UtilityTelecommunicationOtherNonTransportInfrastructure"/>
    <xs:enumeration value="CBRNE"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="PositionDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="CompensationClaimsUnitLeader"/>
    <xs:enumeration value="ProcurementUnitLeader"/>
    <xs:enumeration value="TimeUnitLeader"/>
    <xs:enumeration value="CostUnitLeader"/>
    <xs:enumeration value="FinanceAdministrationSectionChief"/>
    <xs:enumeration value="CommunicationsUnitLeader"/>
    <xs:enumeration value="MedicalUnitLeader"/>
  </xs:restriction>
</xs:simpleType>
```

```

<xs:enumeration value="FoodUnitLeader"/>
<xs:enumeration value="ServiceBranchDirector"/>
<xs:enumeration value="GroundSupportUnitLeader"/>
<xs:enumeration value="FacilitiesUnitDirector"/>
<xs:enumeration value="SupplyUnitDirector"/>
<xs:enumeration value="SupportBranchDirector"/>
<xs:enumeration value="LogisticsSectionChief"/>
<xs:enumeration value="StagingAreaManager"/>
<xs:enumeration value="OperationsSectionChief"/>
<xs:enumeration value="DemobilizationUnitLeader"/>
<xs:enumeration value="DocumentationUnitLeader"/>
<xs:enumeration value="ResourcesUnitLeader"/>
<xs:enumeration value="SituationUnitLeader"/>
<xs:enumeration value="PlanningSectionChief"/>
<xs:enumeration value="TechnicalSpecialst"/>
<xs:enumeration value="PublicInformationOfficer"/>
<xs:enumeration value="SafetyOfficer"/>
<xs:enumeration value="CommunicationsOfficer"/>
<xs:enumeration value="LiaisonOfficer"/>
<xs:enumeration value="IncidentCommander"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="CasualtyAndIllnessCountCategoryDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Fatalities"/>
    <xs:enumeration value="Hospitalized"/>
    <xs:enumeration value="WithInjuryOrIllness"/>
    <xs:enumeration value="TrappedOrInNeedOfRescue"/>
    <xs:enumeration value="Missing"/>
    <xs:enumeration value="Evacuated"/>
    <xs:enumeration value="ShelteringInPlace"/>
    <xs:enumeration value="InTemporaryShelters"/>
    <xs:enumeration value="InQuarantine"/>
    <xs:enumeration value="ReceivedMassImmunizations"/>
    <xs:enumeration value="RequireMassImmunizations"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="SignificantEventsDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="RoadClosure"/>
    <xs:enumeration value="MassNotifications"/>
    <xs:enumeration value="Evacuation"/>
    <xs:enumeration value="ShelterInPlace"/>
    <xs:enumeration value="PowerOutage"/>
    <xs:enumeration value="TreeDown"/>
    <xs:enumeration value="StrandedVehicle"/>
    <xs:enumeration value="WaterLineBreak"/>
    <xs:enumeration value="WaterShortage"/>
    <xs:enumeration value="Quarantine"/>
    <xs:enumeration value="BridgeCollapse"/>
  </xs:restriction>
</xs:simpleType>

```

```
<xs:enumeration value="BuildingCollapse"/>
<xs:enumeration value="Deaths"/>
<xs:enumeration value="Injuries"/>
<xs:enumeration value="MassImmunizations"/>
<xs:enumeration value="CleanupComplete"/>
<xs:enumeration value="ResidentRepopulation"/>
<xs:enumeration value="IncidentCommandTransition"/>
<xs:enumeration value="Accomplishments"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="LifeAndSafetyThreatDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="NoLikelyThreat"/>
    <xs:enumeration value="PotentialFutureThreat"/>
    <xs:enumeration value="MassNotificationsInProgress"/>
    <xs:enumeration value="MassNotificationsCompleted"/>
    <xs:enumeration value="NoEvacuationsImminent"/>
    <xs:enumeration value="PlanningForEvacuation"/>
    <xs:enumeration value="PlanningForShelterInPlace"/>
    <xs:enumeration value="EvacuationsInProgress"/>
    <xs:enumeration value="ShelterInPlaceInProgress"/>
    <xs:enumeration value="RepopulationInProgress"/>
    <xs:enumeration value="MassImmunizationInProgress"/>
    <xs:enumeration value="MassImmunizationComplete"/>
    <xs:enumeration value="QuarantineInProgress"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="InfrastructureAffectedDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="MassTransit"/>
    <xs:enumeration value="RoadsAndHighways"/>
    <xs:enumeration value="Railway"/>
    <xs:enumeration value="BridgesAndTunnels"/>
    <xs:enumeration value="Seaports"/>
    <xs:enumeration value="Waterways"/>
    <xs:enumeration value="Airports"/>
    <xs:enumeration value="Broadcast"/>
    <xs:enumeration value="Power"/>
    <xs:enumeration value="Water"/>
    <xs:enumeration value="Bridges"/>
    <xs:enumeration value="GasLines"/>
    <xs:enumeration value="Nuclear"/>
    <xs:enumeration value="ConduitsAndRaceways"/>
    <xs:enumeration value="CablingAndPatchPanels"/>
    <xs:enumeration value="PowerAndEnergy"/>
    <xs:enumeration value="AirConditioning"/>
    <xs:enumeration value="DrinkingWater"/>
    <xs:enumeration value="Sewage"/>
    <xs:enumeration value="Irrigation"/>
    <xs:enumeration value="WasteOrHazardousWaste"/>
  </xs:restriction>
</xs:simpleType>
```

```
<xs:enumeration value="FloodControl"/>
<xs:enumeration value="EarthMonitoringAndMeasurementNetworks"/>
<xs:enumeration value="Postal"/>
<xs:enumeration value="TelecommunicationsPhone"/>
<xs:enumeration value="TelecommunicationsMobile"/>
<xs:enumeration value="InternetBackbone"/>
<xs:enumeration value="PrivateNetwork"/>
<xs:enumeration value="Satellite"/>
<xs:enumeration value="ElectronicCommunicationsNetworks"/>
<xs:enumeration value="PersonalComputingServersAndDevices"/>
<xs:enumeration value="TrainedPersonnel"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="DamageCategoryDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="ThreatenedWithin72Hours"/>
    <xs:enumeration value="Damaged"/>
    <xs:enumeration value="Destroyed"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="EmergencyResponseIssuesDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="ESF11AgricultureAndNaturalResources"/>
    <xs:enumeration value="ESF2Communications"/>
    <xs:enumeration value="ESF5EmergencyManagement"/>
    <xs:enumeration value="ESF12Energy"/>
    <xs:enumeration value="ESF15ExternalAffairs"/>
    <xs:enumeration value="ESF4Firefighting"/>
    <xs:enumeration value="ESF7LogisticsManagementResourceSupport"/>
    <xs:enumeration value="ESF14LongTermCommunityRecoveryAndMitigation"/>
    <xs:enumeration value="ESF6MassCareHousingAndHumanServices"/>
    <xs:enumeration value="ESF10OilAndHazardousMaterialsResponse"/>
    <xs:enumeration value="ESF8PublicHealthAndMedicalServices"/>
    <xs:enumeration value="ESF13PublicSafetyAndSecurity"/>
    <xs:enumeration value="ESF3PublicWorksAndEngineering"/>
    <xs:enumeration value="ESF9SearchAndRescue"/>
    <xs:enumeration value="ESF1Transportation"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="IncidentComplexityDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Complex"/>
    <xs:enumeration value="ModerateComplex"/>
    <xs:enumeration value="Moderate"/>
    <xs:enumeration value="Low"/>
  </xs:restriction>
</xs:simpleType>
</xs: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>
```



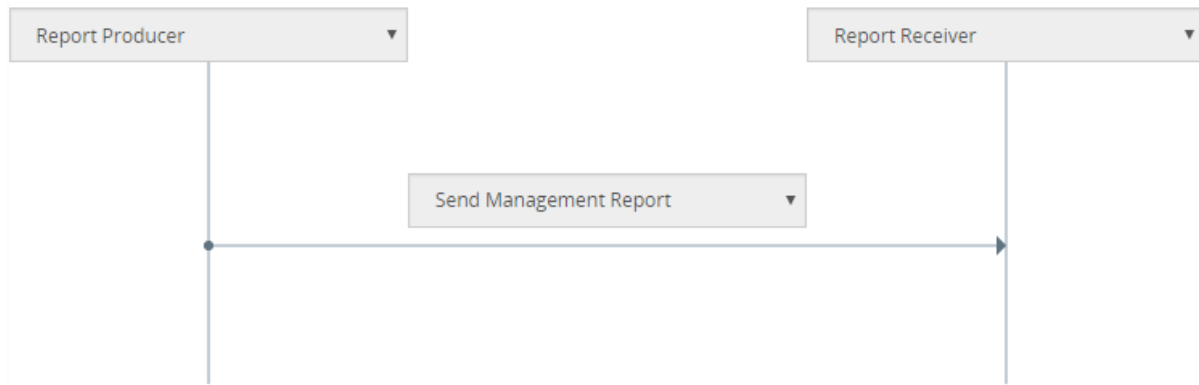
</definitions>

4.4.3. Send Management Report

4.4.3.1. Description

Categories	Description and Values
Identifier	fafed1b1-1652-4d17-a492-393326fc9f89
Description	The Report Producer collects data related to management concerns such as operational planning, damage and threat assessment, weather report etc. and sends the report to the Report Receiver.
Actors	Report Producer, Report Receiver
Pre-conditions	<p>The Report Producer and the Report Receiver have already identified each other.</p> <p>The Report Receiver has agreed to accept electronic field observation reports.</p>
Post-conditions	The Report Receiver has received a report.

4.4.3.2. Interaction Diagram



4.4.3.3. Send Management Report Message

4.4.3.3.1. Message Semantics

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:edxl-
gsf="urn:oasis:names:tc:emergency:edxl:gsf:1.0"
xmlns:ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"
xmlns="urn:oasis:names:tc:emergency:EDXL:SitRep:1.0"
xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension:1.0"
targetNamespace="urn:oasis:names:tc:emergency:EDXL:SitRep:1.0" elementFormDefault="qualified"
attributeFormDefault="qualified">
  <xs:import namespace="urn:oasis:names:tc:emergency:edxl:ct:1.0" schemaLocation="../../RIM/edxl-
ct-v1.0-csd06/edxl-ct-v1.0.xsd"/>
  <xs:import namespace="urn:oasis:names:tc:emergency:edxl:gsf:1.0" schemaLocation="../../RIM/edxl-
gsf-v1.0-csd02/edxl-gsf-v1.0.xsd"/>
  <xs:import namespace="urn:oasis:names:tc:emergency:edxl:extension:1.0"
schemaLocation="../../RIM/edxl-ext-v1.0/edxl-ext-v1.0.xsd"/>
  <xs:complexType name="IReport" abstract="true">
    <xs:element ref="ext:extension" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="DisasterInformationType">
  <xs:sequence>
    <xs:element name="disasterName" type="xs:string"/>
    <xs:element name="disasterDeclarationAuthority" type="xs:string"/>
    <xs:element name="disasterDeclarationDateTime" type="ct:EDXLDateTimeType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="IncidentStagingType">
  <xs:sequence>
    <xs:element name="incidentStagingArea" type="xs:string"/>
    <xs:element name="incidentStagingAreaLocation" type="ct:EDXLLocationType"/>
  </xs:sequence>
</xs:complexType>

```

```

<xs:complexType name="ResourceTotalType">
  <xs:sequence>
    <xs:element name="branchDivisionGroup" type="ct:EDXLStringType"/>
    <xs:element name="resource" type="ResourceCountType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ResourceStatusType">
  <xs:sequence>
    <xs:element name="inventoryRefreshDateTime" type="ct:EDXLDateTimeType"/>
    <xs:element name="deploymentStatus" type="DeploymentStatusDefaultValues" minOccurs="0"/>
    <xs:element name="availability" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ResourceCountType">
  <xs:sequence>
    <xs:element name="agencyOrganization" type="ct:EDXLStringType"/>
    <xs:element name="resourceName" type="ct:EDXLStringType"/>
    <xs:element name="resourceTypeCategoryKind" type="ct:ValueListType" minOccurs="0"/>
    <xs:element name="resourceDetail" type="ResourceDetailType" minOccurs="0"/>
    <xs:element name="isSufficient" type="xs:boolean" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ResourceDetailType">
  <xs:sequence>
    <xs:element name="resourcePersonnelCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="unassignedResourcePersonnel" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceRequiredCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceCommittedCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceOnHandCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceStillNeededCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="resourceRequestedCount" type="xs:unsignedInt" minOccurs="0"/>
    <xs:element name="dateTimeOrdered" type="ct:EDXLDateTimeType" minOccurs="0"/>
    <xs:element name="requestedArrival" type="ct:EDXLDateTimeType" minOccurs="0"/>
    <xs:element name="estimatedArrival" type="ct:EDXLDateTimeType" minOccurs="0"/>
    <xs:element name="reportToLocation" type="ct:EDXLLocationType" minOccurs="0"/>
    <xs:element name="workAssignment" type="ct:EDXLStringType" minOccurs="0"/>
    <xs:element name="specialInstructions" type="xs:string" minOccurs="0"/>
    <xs:element name="specialEquipmentAndSupplies" type="xs:string" minOccurs="0"/>
    <xs:element name="additionalAssistingOrganizations" type="xs:string" minOccurs="0"/>
    <xs:element name="resourceStatus" type="ResourceStatusType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
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    <xs:element name="positionTitle" type="PositionDefaultValues" minOccurs="0"/>
    <xs:element name="personName" type="ct:PersonDetailsType" minOccurs="0"/>
    <xs:element name="branch" type="ct:ValueKeyType" minOccurs="0"/>
    <xs:element name="reportsToPositionTitle" type="PositionDefaultValues" minOccurs="0"/>
    <xs:element name="reportsToPersonName" type="ct:PersonDetailsType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

```

        <xs:element name="reportsToAgency" type="ct:ValueListType" minOccurs="0"
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        <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
        <xs:element name="isEstimate" type="ct:EstimateType" minOccurs="0"/>
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        <xs:element name="casualtyAndIllnessCountCategory"
type="CasualtyAndIllnessCountCategoryType"/>
        <xs:element name="responderSummaryCount" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="nonResponderSummaryCount" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="responderSummaryCountToDate" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="nonResponderSummaryCountToDate" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="receivedMassImmunizations" type="ImmunizationCountType"
minOccurs="0"/>
        <xs:element name="requireMassImmunizations" type="ImmunizationCountType" minOccurs="0"/>
        <xs:element name="shelterCountEstimate" type="xs:unsignedInt" minOccurs="0"/>
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        <xs:element name="probableCause" type="ct:EDXLStringType"/>
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        <xs:element name="countOfConfirmedCases" type="xs:unsignedInt"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="DebrisManagementType">
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        <xs:element name="debrisClearedToDateCY" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="debrisNotYetClearedCY" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="daysToClearanceComplete" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="percentOfJurisdictionWithDebrisImpacts" type="ct:PercentageType"
minOccurs="0"/>
        <xs:element name="areasWithDebrisImpacts" type="ct:ValueListType" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="areasWhereWorkNotStarted" type="ct:ValueListType" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="debrisDisposedToDateCY" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="debrisNotYetDisposedCY" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="debrisStorageSitesPercentFilled" type="ct:PercentageType"
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        <xs:element name="daysToDisposalComplete" type="xs:unsignedInt" minOccurs="0"/>

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    </xs:sequence>
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        </xs:sequence>
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    </xs:element>
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      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
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  <xs:sequence>
    <xs:element name="incidentCause" type="xs:string"/>
    <xs:element name="significantEvents" type="SignificantEventsDefaultValues" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="damageAssessmentInformation" type="xs:string" minOccurs="0"/>
    <xs:element name="primaryHazards" type="xs:string" minOccurs="0"/>
    <xs:element name="hazMatIncidentReport">
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        <xs:sequence>
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        </xs:sequence>
      </xs:complexType>
    </xs:element>
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maxOccurs="unbounded"/>
    <xs:element name="generalPopulationStatus" type="xs:string" minOccurs="0"/>
    <xs:element name="externalAffairs" type="ExternalAffairsType" minOccurs="0"/>
    <xs:element name="lifeAndSafetyThreat" type="LifeAndSafetyThreatDefaultValues"
maxOccurs="unbounded"/>
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    <xs:element name="followOnIndication" type="xs:string" minOccurs="0"/>
    <xs:element name="infrastructureAffected" type="InfrastructureAffectedDefaultValues"
minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="debrisManagement" type="DebrisManagementType" minOccurs="0"/>
    <xs:element name="propertyDamage" type="PropertyDamageType" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="percentContained" type="ct:PercentageType" minOccurs="0"/>
    <xs:element name="requestsForAdditionalSupport" type="xs:string" minOccurs="0"/>
    <xs:element name="terrorismNexus" type="xs:string" minOccurs="0"/>

```

```

        <xs:element name="weatherEffects" type="ct:WeatherInfoType" minOccurs="0"/>
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maxOccurs="unbounded"/>
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        <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="EstimatedDateType">
    <xs:sequence>
        <xs:element name="date" type="ct:EDXLDateTimeType"/>
        <xs:element name="isEstimate" type="ct:EstimateType" minOccurs="0"/>
        <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="DecisionSupportInformationType">
    <xs:sequence>
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minOccurs="0"/>
        <xs:element name="projectedNumberToBeSheltered" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="criticalResourceNeeds" type="ct:ValueKeyStringPairType" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="projectedFinalIncidentSize" type="xs:unsignedLong" minOccurs="0"/>
        <xs:element name="anticipatedCompletionDate" type="EstimatedDateType" minOccurs="0"/>
        <xs:element name="projectedDemobilizationStartDate" type="EstimatedDateType"
minOccurs="0"/>
        <xs:element name="estimatedCostsToDate" type="EstimatedCostsType" minOccurs="0"/>
        <xs:element name="projectedFinalCosts" type="EstimatedCostsType" minOccurs="0"/>
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minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="strategicDiscussion" type="xs:string" minOccurs="0"/>
        <xs:element name="plannedActions" type="xs:string" minOccurs="0"/>
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<xs:complexType name="IncidentInformationType">
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        <xs:element name="incidentKind" type="IncidentKindDefaultValues"/>
        <xs:element name="incidentStartDateTime" type="ct:EDXLDateTimeType"/>
        <xs:element name="geographicSize" type="GeographicSizeType"/>
        <xs:element name="disasterInformation" type="DisasterInformationType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

```

```

        <xs:element name="incidentLocation" type="ct:EDXLLocationType"/>
        <xs:element name="jurisdictionInformation" type="JurisdictionInformationType"
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maxOccurs="unbounded"/>
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        <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
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        <xs:element name="geographicSize" type="GeographicSizeType"/>
        <xs:element name="location" type="ct:EDXLLocationType"/>
        <xs:element name="description" type="xs:string"/>
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</xs:complexType>
<xs:complexType name="GeographicSizeType">
    <xs:sequence>
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        <xs:element name="remarks" type="ct:RemarksType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!--/Complex Types in Documet Order-->
<!--Root Element-->
<xs:element name="sitRep" type="SitRepType"/>
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    <xs:sequence>
        <xs:element name="messageID" type="ct:EDXLStringType"/>
        <xs:element name="preparedBy" type="ct:PersonTimePairType"/>
        <xs:element name="authorizedBy" type="ct:PersonTimePairType"/>
        <xs:element name="reportPurpose" type="ct:EDXLStringType"/>
        <xs:element name="reportNumber" type="xs:unsignedInt"/>
        <xs:element name="reportVersion" type="ReportVersionDefaultValues"/>
        <xs:element name="forTimePeriod" type="ct:TimePeriodType"/>
        <xs:element name="reportTitle" type="ct:EDXLStringType" minOccurs="0"/>
        <xs:element name="incidentID" type="ct:EDXLStringType" maxOccurs="unbounded"/>
        <xs:element name="incidentLifecyclePhase" type="IncidentLifecycleDefaultValues"
minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="originatingMessageID" type="ct:EDXLStringType" minOccurs="0"/>
        <xs:element name="precedingMessageID" type="ct:EDXLStringType" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="urgency" type="UrgencyDefaultValues" minOccurs="0"/>
        <xs:element name="reportConfidence" type="ConfidenceDefaultValues"/>
        <xs:element name="severity" type="SeverityDefaultValues"/>
    </xs:sequence>

```



```

        <xs:element name="reportingLocation" type="ct:EDXLLocationType" minOccurs="0"/>
        <xs:element name="actionPlan" type="ct:EDXLStringType" minOccurs="0"/>
        <xs:element name="nextContact" type="ct:EDXLDateTimeType" minOccurs="0"/>
        <xs:element name="report" type="IReport"/>
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</xs:complexType>
<!--End Root-->
<!--Subreport Types-->
<xs:element name="managementReportingSummary" type="ManagementReportingSummaryType"/>
<xs:element name="responseResourcesTotals" type="ResponseResourcesTotalsType"/>
<xs:element name="fieldObservation" type="FieldObservationType"/>
<xs:element name="situationInformation" type="SituationInformationType"/>
<xs:element name="casualtyAndIllnessSummary" type="CasualtyAndIllnessSummaryType"/>
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    <xs:complexContent>
        <xs:extension base="IReport">
            <xs:sequence>
                <xs:element name="observationLocation" type="ct:EDXLLocationType"/>
                <xs:element name="immediateNeeds" type="ct:EDXLStringType"/>
                <xs:element name="immediateNeedsCategory"
type="ImmediateNeedsCategoryDefaultValues" minOccurs="0" maxOccurs="unbounded"/>
                <xs:element name="observationText" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
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    <xs:complexContent>
        <xs:extension base="IReport">
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                    <xs:sequence>
                        <xs:element name="primaryIncidentInformation"
type="IncidentInformationType"/>
                        <xs:element name="subIncidentInformation" type="SubIncidentInformationType"
minOccurs="0" maxOccurs="unbounded"/>
                    </xs:sequence>
                </xs:choice>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
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    <xs:complexContent>
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                <xs:choice maxOccurs="unbounded">
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                    <xs:element name="organizationAndAssignments"
type="OrganizationAndAssignmentsType"/>
                </xs:choice>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        </xs:choice>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
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type="NotifiableDiseaseNumbersType"/>
                </xs:choice>
            </xs:sequence>
        </xs:extension>
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</xs:complexType>
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                <xs:choice>
                    <xs:sequence>
                        <xs:element name="situationSummary" type="SituationSummaryType"/>
                        <xs:element name="decisionSupportInformation"
type="DecisionSupportInformationType" minOccurs="0"/>
                        <xs:element name="jurisdictionInformation"
type="JurisdictionInformationType" minOccurs="0" maxOccurs="unbounded"/>
                    </xs:sequence>
                    <xs:sequence>
                        <xs:element name="decisionSupportInformation"
type="DecisionSupportInformationType"/>
                        <xs:element name="jurisdictionInformation"
type="JurisdictionInformationType" minOccurs="0" maxOccurs="unbounded"/>
                    </xs:sequence>
                    <xs:element name="jurisdictionInformation" type="JurisdictionInformationType"
maxOccurs="unbounded"/>
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            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
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    </xs:sequence>
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        <xs:enumeration value="Available"/>
    </xs:restriction>
</xs:simpleType>

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<xs:enumeration value="AtHospital"/>
<xs:enumeration value="NotAvailable"/>
<xs:enumeration value="OnScene"/>
<xs:enumeration value="Overdue"/>
<xs:enumeration value="AvailableByPager"/>
<xs:enumeration value="InQuarters"/>
<xs:enumeration value="OntheRadio"/>
<xs:enumeration value="Transporting"/>
<xs:enumeration value="WaitingResponse"/>
</xs:restriction>
</xs:simpleType>
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  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Initial"/>
    <xs:enumeration value="Update"/>
    <xs:enumeration value="Final"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="IncidentLifecycleDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Preparedness"/>
    <xs:enumeration value="Response"/>
    <xs:enumeration value="Mitigation"/>
    <xs:enumeration value="Recovery"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="UrgencyDefaultValues">
  <xs:restriction base="ct:ValueType">
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    <xs:enumeration value="Expected"/>
    <xs:enumeration value="Future"/>
    <xs:enumeration value="Past"/>
    <xs:enumeration value="Unknown"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ConfidenceDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="HighlyConfident "/>
    <xs:enumeration value="SomewhatConfident"/>
    <xs:enumeration value="Unsure"/>
    <xs:enumeration value="NoConfidence"/>
  </xs:restriction>
</xs:simpleType>
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    <xs:enumeration value="Extreme"/>
    <xs:enumeration value="Severe"/>
    <xs:enumeration value="Moderate"/>
```

```

        <xs:enumeration value="Minor"/>
        <xs:enumeration value="Unknown"/>
    </xs:restriction>
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        <xs:enumeration value="FireAndHazardousMaterials"/>
        <xs:enumeration value="IncidentManagement"/>
        <xs:enumeration value="LawEnforcement"/>
        <xs:enumeration value="MassCare"/>
        <xs:enumeration value="MedicalAndPublicHealth"/>
        <xs:enumeration value="PublicWorks"/>
        <xs:enumeration value="SearchAndRescue"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="IncidentKindDefaultValues">
    <xs:restriction base="ct:ValueType">
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        <xs:enumeration value="Meteorological"/>
        <xs:enumeration value="GeneralEmergency"/>
        <xs:enumeration value="Safety"/>
        <xs:enumeration value="Security"/>
        <xs:enumeration value="RescueAndRecovery"/>
        <xs:enumeration value="Rescue"/>
        <xs:enumeration value="FireSupressionAndRescue"/>
        <xs:enumeration value="Fire"/>
        <xs:enumeration value="MedicalAndPublicHealth"/>
        <xs:enumeration value="Health"/>
        <xs:enumeration value="PollutionAndEnvironmentalHazards"/>
        <xs:enumeration value="PublicAndPrivateTransportation"/>
        <xs:enumeration value="Transport"/>
        <xs:enumeration value="UtilityTelecommunicationOtherNonTransportInfrastructure"/>
        <xs:enumeration value="CBRNE"/>
    </xs:restriction>
</xs:simpleType>
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    <xs:restriction base="ct:ValueType">
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        <xs:enumeration value="ProcurementUnitLeader"/>
        <xs:enumeration value="TimeUnitLeader"/>
        <xs:enumeration value="CostUnitLeader"/>
        <xs:enumeration value="FinanceAdministrationSectionChief"/>
        <xs:enumeration value="CommunicationsUnitLeader"/>
        <xs:enumeration value="MedicalUnitLeader"/>
        <xs:enumeration value="FoodUnitLeader"/>
        <xs:enumeration value="ServiceBranchDirector"/>
        <xs:enumeration value="GroundSupportUnitLeader"/>
        <xs:enumeration value="FacilitiesUnitDirector"/>
        <xs:enumeration value="SupplyUnitDirector"/>
    </xs:restriction>
</xs:simpleType>

```

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    <xs:enumeration value="SupportBranchDirector"/>
    <xs:enumeration value="LogisticsSectionChief"/>
    <xs:enumeration value="StagingAreaManager"/>
    <xs:enumeration value="OperationsSectionChief"/>
    <xs:enumeration value="DemobilizationUnitLeader"/>
    <xs:enumeration value="DocumentationUnitLeader"/>
    <xs:enumeration value="ResourcesUnitLeader"/>
    <xs:enumeration value="SituationUnitLeader"/>
    <xs:enumeration value="PlanningSectionChief"/>
    <xs:enumeration value="TechnicalSpecialst"/>
    <xs:enumeration value="PublicInformationOfficer"/>
    <xs:enumeration value="SafetyOfficer"/>
    <xs:enumeration value="CommunicationsOfficer"/>
    <xs:enumeration value="LiaisonOfficer"/>
    <xs:enumeration value="IncidentCommander"/>
  </xs:restriction>
</xs:simpleType>
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    <xs:enumeration value="Fatalities"/>
    <xs:enumeration value="Hospitalized"/>
    <xs:enumeration value="WithInjuryOrIllness"/>
    <xs:enumeration value="TrappedOrInNeedOfRescue"/>
    <xs:enumeration value="Missing"/>
    <xs:enumeration value="Evacuated"/>
    <xs:enumeration value="ShelteringInPlace"/>
    <xs:enumeration value="InTemporaryShelters"/>
    <xs:enumeration value="InQuarantine"/>
    <xs:enumeration value="ReceivedMassImmunizations"/>
    <xs:enumeration value="RequireMassImmunizations"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="SignificantEventsDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="RoadClosure"/>
    <xs:enumeration value="MassNotifications"/>
    <xs:enumeration value="Evacuation"/>
    <xs:enumeration value="ShelterInPlace"/>
    <xs:enumeration value="PowerOutage"/>
    <xs:enumeration value="TreeDown"/>
    <xs:enumeration value="StrandedVehicle"/>
    <xs:enumeration value="WaterLineBreak"/>
    <xs:enumeration value="WaterShortage"/>
    <xs:enumeration value="Quarantine"/>
    <xs:enumeration value="BridgeCollapse"/>
    <xs:enumeration value="BuildingCollapse"/>
    <xs:enumeration value="Deaths"/>
    <xs:enumeration value="Injuries"/>
    <xs:enumeration value="MassImmunizations"/>
    <xs:enumeration value="CleanupComplete"/>
  </xs:restriction>
</xs:simpleType>

```

```
<xs:enumeration value="ResidentRepopulation"/>
<xs:enumeration value="IncidentCommandTransition"/>
<xs:enumeration value="Accomplishments"/>
</xs:restriction>
</xs:simpleType>
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  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="NoLikelyThreat"/>
    <xs:enumeration value="PotentialFutureThreat"/>
    <xs:enumeration value="MassNotificationsInProgress"/>
    <xs:enumeration value="MassNotificationsCompleted"/>
    <xs:enumeration value="NoEvacuationsImminent"/>
    <xs:enumeration value="PlanningForEvacuation"/>
    <xs:enumeration value="PlanningForShelterInPlace"/>
    <xs:enumeration value="EvacuationsInProgress"/>
    <xs:enumeration value="ShelterInPlaceInProgress"/>
    <xs:enumeration value="RepopulationInProgress"/>
    <xs:enumeration value="MassImmunizationInProgress"/>
    <xs:enumeration value="MassImmunizationComplete"/>
    <xs:enumeration value="QuarantineInProgress"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="InfrastructureAffectedDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="MassTransit"/>
    <xs:enumeration value="RoadsAndHighways"/>
    <xs:enumeration value="Railway"/>
    <xs:enumeration value="BridgesAndTunnels"/>
    <xs:enumeration value="Seaports"/>
    <xs:enumeration value="Waterways"/>
    <xs:enumeration value="Airports"/>
    <xs:enumeration value="Broadcast"/>
    <xs:enumeration value="Power"/>
    <xs:enumeration value="Water"/>
    <xs:enumeration value="Bridges"/>
    <xs:enumeration value="GasLines"/>
    <xs:enumeration value="Nuclear"/>
    <xs:enumeration value="ConduitsAndRaceways"/>
    <xs:enumeration value="CablingAndPatchPanels"/>
    <xs:enumeration value="PowerAndEnergy"/>
    <xs:enumeration value="AirConditioning"/>
    <xs:enumeration value="DrinkingWater"/>
    <xs:enumeration value="Sewage"/>
    <xs:enumeration value="Irrigation"/>
    <xs:enumeration value="WasteOrHazardousWaste"/>
    <xs:enumeration value="FloodControl"/>
    <xs:enumeration value="EarthMonitoringAndMeasurementNetworks"/>
    <xs:enumeration value="Postal"/>
    <xs:enumeration value="TelecommunicationsPhone"/>
    <xs:enumeration value="TelecommunicationsMobile"/>
```

```

    <xs:enumeration value="InternetBackbone"/>
    <xs:enumeration value="PrivateNetwork"/>
    <xs:enumeration value="Satellite"/>
    <xs:enumeration value="ElectronicCommunicationsNetworks"/>
    <xs:enumeration value="PersonalComputingServersAndDevices"/>
    <xs:enumeration value="TrainedPersonnel"/>
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  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="ThreatenedWithin72Hours"/>
    <xs:enumeration value="Damaged"/>
    <xs:enumeration value="Destroyed"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="EmergencyResponseIssuesDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="ESF11AgricultureAndNaturalResources"/>
    <xs:enumeration value="ESF2Communications"/>
    <xs:enumeration value="ESF5EmergencyManagement"/>
    <xs:enumeration value="ESF12Energy"/>
    <xs:enumeration value="ESF15ExternalAffairs"/>
    <xs:enumeration value="ESF4Firefighting"/>
    <xs:enumeration value="ESF7LogisticsManagementResourceSupport"/>
    <xs:enumeration value="ESF14LongTermCommunityRecoveryAndMitigation"/>
    <xs:enumeration value="ESF6MassCareHousingAndHumanServices"/>
    <xs:enumeration value="ESF10OilAndHazardousMaterialsResponse"/>
    <xs:enumeration value="ESF8PublicHealthAndMedicalServices"/>
    <xs:enumeration value="ESF13PublicSafetyAndSecurity"/>
    <xs:enumeration value="ESF3PublicWorksAndEngineering"/>
    <xs:enumeration value="ESF9SearchAndRescue"/>
    <xs:enumeration value="ESF1Transportation"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="IncidentComplexityDefaultValues">
  <xs:restriction base="ct:ValueType">
    <xs:enumeration value="Complex"/>
    <xs:enumeration value="ModerateComplex"/>
    <xs:enumeration value="Moderate"/>
    <xs:enumeration value="Low"/>
  </xs:restriction>
</xs:simpleType>
</xs:schema>

```

4.4.3.3.2. 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>
```