™

Unified Incident Command Decision Support™ (UICDS)™

Quick Start Guide to the UICDS Incident Management Service And Incident Work Products

Release 2 for UICDS Version 1.2

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1.0 About This Quick Start Guide

The purpose of this Quick Start Guide to UICDS Incident Management Service and Incident Work Products is to enable providers of incident management data to efficiently map their data to the UICDS Incident Management Service in order to create, update, close, and archive incidents shared through UICDS. Operationally, the Incident Work Product in UICDS is the beginning of the "UICDS Tree of Incident Knowledge." Technically, the Incident Work Product serves as a model for all the other work products – by and large, if you can manipulate the Incident Work Product you will have the ability to do most everything else in UICDS.

The Quick Start Guide is intended to be a stand-alone document; however, it goes hand-in-hand with the *UICDS Getting Started Guide* which provides details on other UICDS services and work products and can be found on the UICDS Collaboration Portal at www.UICDS.us, Login – Technology Provider. So after exploring this guide, please refer to the Getting Started Guide for more technical information about UICDS.

Finally, the Quick Start Guide is accompanied by references to example code that can be downloaded from https://uicds-test5.saic.com/ with the appropriate access credentials that can be requested on www.UICDS.us by following the link to Get the UICDS Development Kit.

In the sections that follow, the Quick Start Guide will provide:

- An overview of the Incident Management Service including references to the National Information Exchange Model (NIEM) that is the basis of the UICDS Incident Work Product
- A flowchart of an external application's interface with the UICDS Core
- A list of common names of data elements contained in many incident management applications and their corresponding UICDS data element names that can guide the mapping of an application to the work product
- The Incident Work Product Template (including the SOAP envelope) that is the XML document that is used to post application data to UICDS
- Two examples of the XML document for posting (one for an incident with a single point location and the other for an incident area polygon)
- Two examples of the response received after successfully posting the XML document
- A quick, proof-of-concept method for posting the XML document
- The UICDS Incident Work Product (containing Metadata, Digest, and Payload) created and stored within UICDS that results from the successful submission of the XML document by the application and which becomes the atomic unit of information sharing through UICDS.
- Two methods for inspecting the UICDS Incident Work Product to validate it, including an internal look at the work product on the UICDS Core using the UICDS Console and an external look at the results of the work product using Google Earth™
- A description of the UCore Digest process including mapping of the Payload to the Digest
- Best Practices for that Pesky "Other" Data
- Description and links to Example Code in both Java and Dot Net
- Link to the Incident Management Service WSDL
- Variations in the Incident Work Product for optional data elements

2.0 Incident Management Service Overview

Allows client applications to create an Incident Work Product, update information contained in the Incident Work Product, close the incident, archive the incident, and share the incident with other UICDS cores.

Three different standards are currently employed by UICDS to consume incidents from application adapters. NIEM is the National Information Exchange Model and the UICDS Incident Work Product is constructed using the NIEM incident description. An application adapter can send that format to UICDS. Because there are other standards that create data about an incident, UICDS includes the capacity to receive two of those other formats. The Common Alerting Protocol (CAP) is one such standard and from the law enforcement community, the Law Enforcement Information Technology Standards Committee has a standard for computer-aided dispatch incident data exchange. In both cases, UICDS takes the CAP and the LEITSC formats and converts them into NIEM incidents for distribution through UICDS.

The required and optional data elements for the Work Product associated with the Incident Management Service are described below.

Work Product	Incident Work Product Data
Standard	NIEM 2.0 CAP version 1.1 specification LEITSC IEPD 1.1
Reference	http://www.niem.gov/niem/NIEM-2.0-schema-index.html http://www.oasis-open.org/committees/download.php/15135/emergency-CAPv1.1-Corrected_DOM.pdf http://www.theiacp.org/LinkClick.aspx?fileticket=mJIUTWMDVp4%3d&tabid=831
Required Data	Incident Type Incident Date/Time Name Location Description
Optional Data	Status Reason (e.g., planned event) Disposition Sub-Incident (constituent incidents) Organization (lead) Observation (e.g., log entries date/time stamped)

3.0 Application Interactions with the UICDS Incident Work Product
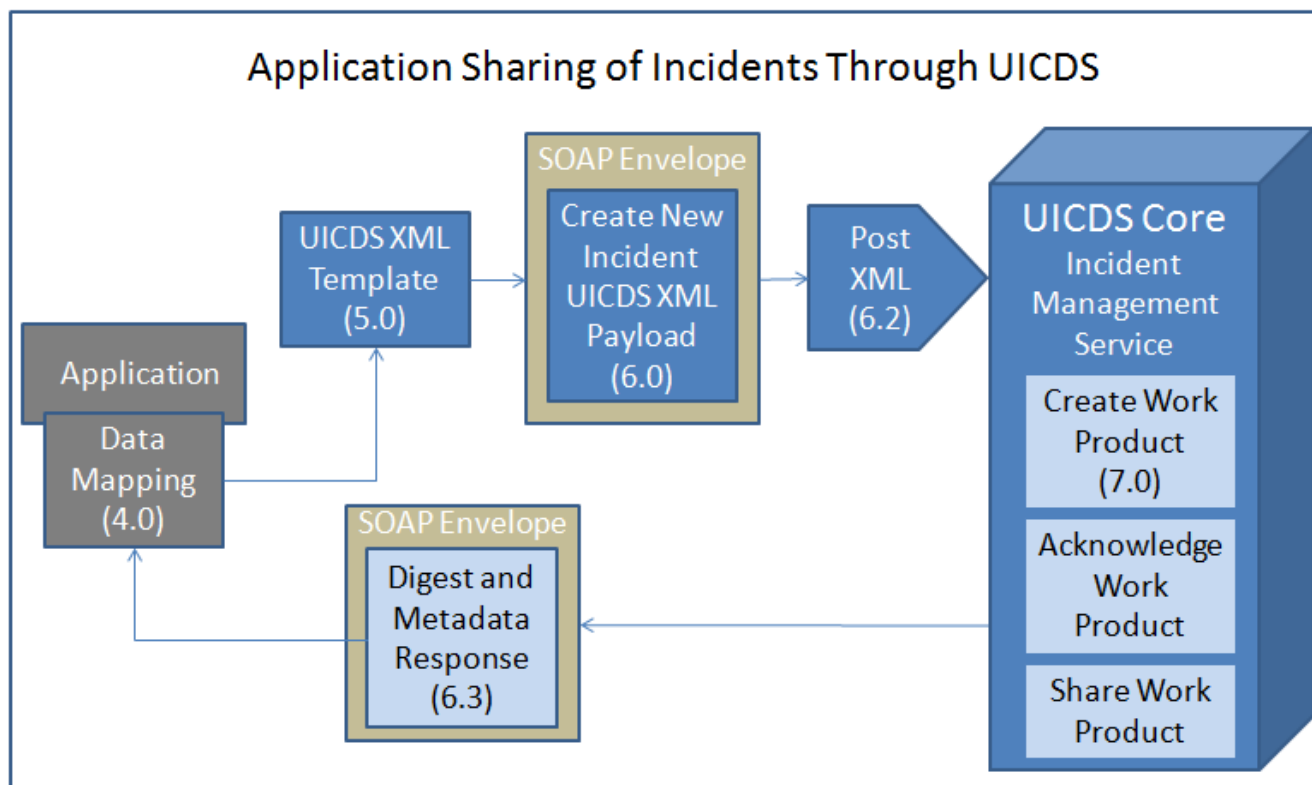
External applications interact with the UICDS Core by creating UICDS Work Products, an XML document, and communicating with the core through SOAP calls.

External applications interact with and share data through UICDS by creating and updating UICDS Work Products. This exchange consists of several steps. First, an application maps its data to the UICDS XML data element structure (Section 4). The application data is then inserted into the UICDS XML Template data elements (Section 5) to form the Incident Payload, an XML document that will become part of Incident Work Product. The Incident Payload is then wrapped in a SOAP envelope (Section 6) for transmission using Internet Protocols over local networks, private Internet, or public Internet. The SOAP transmission POSTs the XML to the UICDS Core Incident Management Service (Section 6.2) and an Incident Work Product is created (7.0). The Incident Work Product is acknowledge through a transmission back to the sender of the Digest and Metadata for the work product (Section 6.3).

Details of these steps follow.

4.0 Mapping to the UICDS NIEM Incident Work Product

The following table shows the common name of the data element as often used in incident management applications in the first column. The second column is the NIEM data element name contained in the UICDS Incident Work Product schema (shown below). The third column is blank in order to map your application to the UICDS Incident Work Product. Required UICDS data elements are shown in beige and optional in blue.

UICDS Common Data Element Name	UICDS Incident Data Element (from NIEM)	Map Your Data
Incident Type	<nc:ActivityCategoryText>	
Incident Date/Time	<nc:DateTime>	
Name	<nc:ActivityName>	
Location (text)	<nc:AddressFullText>	
Location (latitude/longitude)	<nc:LatitudeDegreeValue> <nc:LatitudeMinuteValue> <nc:LatitudeSecondValue> <nc:LongitudeDegreeValue> <nc:LongitudeMinuteValue> <nc:LongitudeSecondValue>	
Description	<nc:ActivityDescriptionText>	
Status	<nc:ActivityStatus>	
Reason (e.g., planned event)	<nc:ActivityReasonText>	
Disposition	<nc:ActivityDisposition>	
Sub-Incident (constituent incidents)	<nc:IncidentEvent>	
Organization (lead)	<nc:IncidentJurisdictionalOrganization/>	
Observation (e.g., log entries date/time stamped)	<nc:IncidentObservationText>	

5.0 Incident Payload Template for Required Data

The Incident Payload Template will be the end product of your mapping of your data to the UICDS Work Product schema. The template below indicates where data from an external application are inserted into the template. All of this will be done programmatically by the external application using example code described in Section 13.0. Note that in addition to this template containing required data elements, the Appendix contains a template with all required and optional data elements.

```
<ims:CreateIncidentRequest xmlns:as="http://uicds.org/AlertService"
xmlns:ims="http://uicds.org/IncidentManagementService" xmlns:inc="http://uicds.org/incident"
xmlns:nc="http://niem.gov/niem/niem-core/2.0" xmlns:nga="http://niem.gov/niem/nga/2.0" xmlns:niem-
xsd="http://niem.gov/niem/proxy/xsd/2.0" xmlns:p="urn:oasis:names:tc:emergency:EDXL:DE:1.0"
xmlns:s="http://niem.gov/niem/structures/2.0" xmlns:unece="http://niem.gov/niem/unece_rec20-misc/2.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://uicds.org/IncidentManagementService
```

```
services\IncidentManagement\0.1\IncidentManagementService.xsd">
        <inc:Incident>
          <nc:ActivityCategoryText>TEST</nc:ActivityCategoryText>
          <nc:ActivityDate>
             <nc:DateTime>2012-22-08T09:55:22</nc:DateTime>
          </nc:ActivityDate>
          <nc:ActivityDescriptionText>Incident used to test resource messaging
service</nc:ActivityDescriptionText>
          <nc:ActivityName>Test Incident</nc:ActivityName>
          <nc:IncidentLocation>
            <nc:LocationAddress>
               <nc:AddressFullText>4001 North Fairfax Drive, Arlington, VA 22203</nc:AddressFullText>
            </nc:LocationAddress>
            <nc:LocationArea>
               <nc:AreaCircularRegion>
                 <nc:CircularRegionCenterCoordinate>
                   <nc:GeographicCoordinateLatitude>
                      <nc:LatitudeDegreeValue>38</nc:LatitudeDegreeValue>
                      <nc:LatitudeMinuteValue>17</nc:LatitudeMinuteValue>
                      <nc:LatitudeSecondValue>50.00</nc:LatitudeSecondValue>
                   </nc:GeographicCoordinateLatitude>
                   <nc:GeographicCoordinateLongitude>
                      <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
                      <nc:LongitudeMinuteValue>17</nc:LongitudeMinuteValue>
                      <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
                   </nc:GeographicCoordinateLongitude>
                 </nc:CircularRegionCenterCoordinate>
                 <nc:CircularRegionRadiusLengthMeasure>
                      <nc:MeasurePointValue>1.0</nc:MeasurePointValue>
                      <nc:LengthUnitCode>SMI</nc:LengthUnitCode>
                 </nc:CircularRegionRadiusLengthMeasure>
               </nc:AreaCircularRegion>
            </nc:LocationArea>
          </nc:IncidentLocation>
        </inc:Incident>
     </ims:CreateIncidentRequest>
```

6.0 Create a New Incident

Creating a new incident in UICDS entails mapping your data to the Incident Payload Template (Section 5.0, above), wrapping the Incident Payload (containing the application data) in a SOAP envelope (Section 6.1), and submitting the XML document to the Incident Management Service (Section 6.2) by posting the document (Section 6.3).

6.1   Wrapping the Incident Payload in a SOAP Envelope

The Incident Payload Template becomes the UICDS Incident Payload when external application data is inserted into it. The payload is then wrapped in a SOAP envelope for submission to the UICDS Core. Below are the SOAP envelope instructions to connect to the Incident Management Service.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inc="http://uicds.org/IncidentManagementService"
xmlns:inc1="http://uicds.org/incident">
  <soapenv:Header/>
```

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```
  <soapenv:Body>
<…………………..
Incident Payload XML Document
………………….>
  </soapenv:Body>
  </soapenv:Envelope>
```

6.2   Location of the Incident Management Service

The Incident Management Service can be found at the following URL:

https://localhost/uicds/core/ws/services/IncidentManagementService

Where "localhost" is your UICDS Core.

For example, developers have access to hosted UICDS Cores for testing. With access credentials, you may post your test UICDS Incidents to:

https://uicds-test2.saic.com/uicds/core/ws/services/IncidentManagementService

Below are two examples that can be posted to a UICDS Core. The first example is to create a new incident with a single point location. The second example posts an incident with a polygon indicating the area of the incident. Change the latitude and longitude to a location near you to verify the correct posting of the incident(s).

6.3   Quick Test Posting of the UICDS Incident XML Message

The example request below (Section 6.3) can be used to test out your connectivity with your local or hosted test UICDS Core (see Section 6.1 for URL) as well as to see the results of posting an incident. In Section 10 you will find links to *example code* to develop your own posting software code. Section 10 contains an outline of the example code, its functioning, and a summary of the use of the relevant example code for the Incident Management Service.

There is a manual method of posting UICDS Incidents that you might want to use to see a proof of concept and test core connectivity.

This is not a recommended method of posting to UICDS that would substitute for writing code to transform your data into a UICDS Work Product.

To use this manual proof of concept method of posting, use a freely available commercial tool like Mozilla FireFox™ Poster™ available at https://addons.**mozilla**.org/en-us/**firefox**/addon/**poster**/ to simply post the example request (obviously, feel free to modify the content) and receive a response.

Section 8.0, below, describes two methods of viewing incident data that you post to the UICDS Core using this manual, test method.

6.4   Create Incident Request: Incident with Single Point Location

Below is an example XML Incident Payload document, wrapped in SOAP, for posting to the Incident Management Service on a UICDS Core. This document creates an incident at a single point location. In the Appendix is an example of a location that is an area represented by a polygon.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inc="http://uicds.org/IncidentManagementService" xmlns:inc1="http://uicds.org/incident">
   <soapenv:Header />
   <soapenv:Body>
      <ims:CreateIncidentRequest xmlns:as="http://uicds.org/AlertService"
xmlns:ims="http://uicds.org/IncidentManagementService" xmlns:inc="http://uicds.org/incident"
xmlns:nc="http://niem.gov/niem/niem-core/2.0" xmlns:nga="http://niem.gov/niem/nga/2.0" xmlns:niem-
xsd="http://niem.gov/niem/proxy/xsd/2.0" xmlns:p="urn:oasis:names:tc:emergency:EDXL:DE:1.0"
xmlns:s="http://niem.gov/niem/structures/2.0" xmlns:unece="http://niem.gov/niem/unece_rec20-misc/2.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://uicds.org/IncidentManagementService
services\IncidentManagement\0.1\IncidentManagementService.xsd">
        <inc:Incident>
           <nc:ActivityCategoryText>TEST</nc:ActivityCategoryText>
           <nc:ActivityDate>
              <nc:DateTime>2012-22-08T09:55:22</nc:DateTime>
           </nc:ActivityDate>
           <nc:ActivityDescriptionText>Incident used to test resource messaging
service</nc:ActivityDescriptionText>
           <nc:ActivityName>Test Incident</nc:ActivityName>
           <nc:IncidentLocation>
             <nc:LocationAddress>
                <nc:AddressFullText>4001 North Fairfax Drive, Arlington, VA 22203</nc:AddressFullText>
             </nc:LocationAddress>
             <nc:LocationArea>
                <nc:AreaCircularRegion>
                  <nc:CircularRegionCenterCoordinate>
                     <nc:GeographicCoordinateLatitude>
                        <nc:LatitudeDegreeValue>38</nc:LatitudeDegreeValue>
                        <nc:LatitudeMinuteValue>17</nc:LatitudeMinuteValue>
                        <nc:LatitudeSecondValue>50.00</nc:LatitudeSecondValue>
                     </nc:GeographicCoordinateLatitude>
                     <nc:GeographicCoordinateLongitude>
                        <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
                        <nc:LongitudeMinuteValue>17</nc:LongitudeMinuteValue>
                        <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
                     </nc:GeographicCoordinateLongitude>
                  </nc:CircularRegionCenterCoordinate>
                  <nc:CircularRegionRadiusLengthMeasure>
                     <nc:MeasurePointValue>1.0</nc:MeasurePointValue>
                     <nc:LengthUnitCode>SMI</nc:LengthUnitCode>
                  </nc:CircularRegionRadiusLengthMeasure>
                </nc:AreaCircularRegion>
             </nc:LocationArea>
           </nc:IncidentLocation>
        </inc:Incident>
      </ims:CreateIncidentRequest>
   </soapenv:Body>
</soapenv:Envelope>
```

6.5   Expected Create Incident Response: Incident with Single Point Location

When an incident is successfully posted to a UICDS Core, the core returns an XML document that provides validation that the work product was created. The document contains the UICDS Incident Work Product (a) Metadata shown in red and (b) Digest shown in green that will allow you to later update, close, and archive the incident.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header />
  <SOAP-ENV:Body>
    <inc:CreateIncidentResponse
      xmlns:inc="http://uicds.org/IncidentManagementService">
      <wor:WorkProductPublicationResponse
        xmlns:wor="http://uicds.org/WorkProductService">
        <str:WorkProductProcessingStatus
          xmlns:str="http://www.saic.com/precis/2009/06/structures">
          <base:Status
            xmlns:base="http://www.saic.com/precis/2009/06/base">Accepted</base:Status>
        </str:WorkProductProcessingStatus>
        <str:WorkProduct
          xmlns:str="http://www.saic.com/precis/2009/06/structures">
          <ulex:PackageMetadata
            xmlns:ulex="ulex:message:structure:1.0">
            <ulex:DataItemID>Incident-e9893f88-40d3-4b49-b155-a7035e00fba7</ulex:DataItemID>
            <ulex:DataItemReferenceID>Incident-e9893f88-40d3-4b49-b155-
a7035e00fba7</ulex:DataItemReferenceID>
            <ns:DataItemStatus
              xmlns:ns="http://ucore.gov/ucore/2.0"
              ns:code="Active"
              ns:codespace="http://uicds.org/1.0/codespace/workproduct/status"
              ns:label="UICDS Work Product Status" />
            <ulex:DataOwnerMetadata>
              <ns:DataOwnerIdentifier
                xmlns:ns="http://ucore.gov/ucore/2.0">
                <ns1:Organization
                  xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
                  <ns1:name>ucids.org</ns1:name>
                </ns1:Organization>
              </ns:DataOwnerIdentifier>
              <ns:DataOwnerContact
                xmlns:ns="http://ucore.gov/ucore/2.0">
                <ns1:Organization
                  xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
                  <ns1:name>http://uicds.us</ns1:name>
                </ns1:Organization>
              </ns:DataOwnerContact>
              <ulex:DataOwnerMetadataDomainAttribute>
                <ulex:DomainName>UICDS EM Domain</ulex:DomainName>
              </ulex:DataOwnerMetadataDomainAttribute>
            </ulex:DataOwnerMetadata>
            <ns:DisseminationCriteria
```

```xml
              xmlns:ns="http://ucore.gov/ucore/2.0" />
            <str:WorkProductIdentification>
              <base:Identifier
                xmlns:base="http://www.saic.com/precis/2009/06/base">Incident-e9893f88-40d3-4b49-
b155-a7035e00fba7</base:Identifier>
              <base:Version
                xmlns:base="http://www.saic.com/precis/2009/06/base">1</base:Version>
              <base:Type
                xmlns:base="http://www.saic.com/precis/2009/06/base">Incident</base:Type>
              <base:Checksum
                xmlns:base="http://www.saic.com/precis/2009/06/base">Fri Oct 05 08:44:10 MDT
2012:1:2:1015736887</base:Checksum>
              <base:State
                xmlns:base="http://www.saic.com/precis/2009/06/base">Active</base:State>
            </str:WorkProductIdentification>
            <str:WorkProductProperties>
              <base:Created
                xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-05T08:44:10.560-
06:00</base:Created>
              <base:CreatedBy

xmlns:base="http://www.saic.com/precis/2009/06/base">admin@9zwgns1</base:CreatedBy>
              <base:LastUpdated
                xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-05T08:44:10.560-
06:00</base:LastUpdated>
              <base:LastUpdatedBy
xmlns:base="http://www.saic.com/precis/2009/06/base">admin@9zwgns1</base:LastUpdatedBy>
              <base:Kilobytes
                xmlns:base="http://www.saic.com/precis/2009/06/base">2</base:Kilobytes>
              <base:MimeType
xmlns:base="http://www.saic.com/precis/2009/06/base">application/uicds+xml</base:MimeType>
              <base:AssociatedGroups
                xmlns:base="http://www.saic.com/precis/2009/06/base">
                <base:Identifier>IG-9170727f-662d-4873-be66-bb0daee10b16</base:Identifier>
              </base:AssociatedGroups>
            </str:WorkProductProperties>
          </ulex:PackageMetadata>
          <ucore:Digest
            xmlns:ucore="http://ucore.gov/ucore/2.0"
            xmlns:ucoregml="http://www.opengis.net/gml/3.2"
            xmlns="http://ucore.gov/ucore/2.0"
            xmlns:ns1="http://niem.gov/niem/niem-core/2.0"
            xmlns:ns="http://www.opengis.net/gml/3.2"
            xmlns:inc="http://uicds.org/incident"
            xmlns:have="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0"
            xmlns:ddms="http://metadata.dod.mil/mdr/ns/DDMS/2.0/"
            xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
            xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3"
            xmlns:gml="http://www.opengis.net/gml"
            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
            <ucore:Organization
              id="Organization-w1aab1a">
              <ucore:What
                ucore:code="Organization"
                ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
              <ucore:Name>
                <ucore:Value />
              </ucore:Name>
```

```xml
        </ucore:Organization>
        <ucore:Event
          id="Event-w1aab1a">
          <ucore:Descriptor>Incident used to test resource messaging service</ucore:Descriptor>
          <ucore:Identifier
            ucore:code="ActivityName"
            ucore:codespace="http://niem.gov/niem/niem-core/2.0"
            ucore:label="ID">Test Incident</ucore:Identifier>
          <ucore:Identifier
            ucore:code="label"
            ucore:codespace="http://uicds.us/identifier"
            ucore:label="Label">Test Incident...</ucore:Identifier>
          <ucore:SimpleProperty
            ucore:code="icon"
            ucore:codespace="http://uicds.us/style"
            ucore:label="Icon" />
          <ucore:SimpleProperty
            ucore:code="color"
            ucore:codespace="http://uicds.us/style"
            ucore:label="Color" />
          <ucore:SimpleProperty
            ucore:code="scalar"
            ucore:codespace="http://uicds.us/style"
            ucore:label="Scalar" />
          <ucore:What
            ucore:code="TEST"
            ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
        </ucore:Event>
        <ucore:Location
          id="Location-w1aab1a">
          <ucore:GeoLocation>
            <ucore:CircleByCenterPoint>
              <ns:CircleByCenterPoint
                numArc="1">
                <ns:pos
                  srsName="EPSG:4326">38.29722, -77.29722</ns:pos>
                <ns:radius
                  uom="SMI">1.0</ns:radius>
              </ns:CircleByCenterPoint>
            </ucore:CircleByCenterPoint>
          </ucore:GeoLocation>
          <ucore:PhysicalAddress>
            <ddms:postalAddress>
              <ddms:street />
              <ddms:city />
              <ddms:state />
              <ddms:postalCode />
              <ddms:countryCode
                ddms:qualifier="ISO 3166-1"
                ddms:value="" />
            </ddms:postalAddress>
          </ucore:PhysicalAddress>
        </ucore:Location>
        <ucore:OccursAt
          id="OccursAt-w1aab1a">
          <ucore:Time>
            <ucore:TimeInstant>
              <ucore:Value>2012-10-05T08:44:10.477-06:00</ucore:Value>
```

```
                    </ucore:TimeInstant>
                </ucore:Time>
                <ucore:EventRef
                    ref="Event-w1aab1a" />
                <ucore:LocationRef
                    ref="Location-w1aab1a" />
            </ucore:OccursAt>
        </ucore:Digest>
      </str:WorkProduct>
    </wor:WorkProductPublicationResponse>
  </inc:CreateIncidentResponse>
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

7.0 The Resulting Work Product Example

A UICDS Work Product consists of (a) Metadata shown in red, (b) Digest shown in green, and (c) Payload shown in blue. The Metadata is returned when the Incident Work Product is created and was shown in the example above. The Digest also is created and returned when the Incident Work Product is created and was shown in the example above. The Incident Payload is the data mapped from the external application to the template. The work product is the atomic unit of sharing in UICDS and contains all three parts.

An example of an Incident Work Product with a single point incident is shown below:

```
<str:WorkProduct xmlns:str="http://www.saic.com/precis/2009/06/structures">
  <ulex:PackageMetadata xmlns:ulex="ulex:message:structure:1.0">
    <ulex:DataItemID>Incident-56c9de61-7a5a-4743-9344-c193507472e5</ulex:DataItemID>
    <ulex:DataItemReferenceID>Incident-56c9de61-7a5a-4743-9344-
c193507472e5</ulex:DataItemReferenceID>
    <ns:DataItemStatus ns:label="UICDS Work Product Status"
ns:codespace="http://uicds.org/1.0/codespace/workproduct/status" ns:code="Active"
xmlns:ns="http://ucore.gov/ucore/2.0"/>
    <ulex:DataOwnerMetadata>
      <ns:DataOwnerIdentifier xmlns:ns="http://ucore.gov/ucore/2.0">
        <ns1:Organization xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
          <ns1:name>ucids.org</ns1:name>
        </ns1:Organization>
      </ns:DataOwnerIdentifier>
      <ns:DataOwnerContact xmlns:ns="http://ucore.gov/ucore/2.0">
        <ns1:Organization xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
          <ns1:name>http://uicds.us</ns1:name>
        </ns1:Organization>
      </ns:DataOwnerContact>
      <ulex:DataOwnerMetadataDomainAttribute>
        <ulex:DomainName>UICDS EM Domain</ulex:DomainName>
      </ulex:DataOwnerMetadataDomainAttribute>
    </ulex:DataOwnerMetadata>
    <ns:DisseminationCriteria xmlns:ns="http://ucore.gov/ucore/2.0"/>
    <str:WorkProductIdentification>
      <base:Identifier xmlns:base="http://www.saic.com/precis/2009/06/base">Incident-56c9de61-7a5a-4743-
9344-c193507472e5</base:Identifier>
```

```
        <base:Version xmlns:base="http://www.saic.com/precis/2009/06/base">3</base:Version>
        <base:Type xmlns:base="http://www.saic.com/precis/2009/06/base">Incident</base:Type>
        <base:Checksum xmlns:base="http://www.saic.com/precis/2009/06/base">Sat Oct 06 13:27:09 EDT
2012:3:2:3251559439</base:Checksum>
        <base:State xmlns:base="http://www.saic.com/precis/2009/06/base">Active</base:State>
    </str:WorkProductIdentification>
    <str:WorkProductProperties>
        <base:Created xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-06T13:26:42.140-
04:00</base:Created>
        <base:CreatedBy xmlns:base="http://www.saic.com/precis/2009/06/base">morentzj@uicds-
test2.saic.com</base:CreatedBy>
        <base:LastUpdated xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-
06T13:27:09.562-04:00</base:LastUpdated>
        <base:LastUpdatedBy xmlns:base="http://www.saic.com/precis/2009/06/base">morentzj@uicds-
test2.saic.com</base:LastUpdatedBy>
        <base:Kilobytes xmlns:base="http://www.saic.com/precis/2009/06/base">2</base:Kilobytes>
        <base:MimeType
xmlns:base="http://www.saic.com/precis/2009/06/base">application/uicds+xml</base:MimeType>
        <base:AssociatedGroups xmlns:base="http://www.saic.com/precis/2009/06/base">
          <base:Identifier>IG-60be918b-2405-4d78-ae4e-13691cd0d79e</base:Identifier>
        </base:AssociatedGroups>
    </str:WorkProductProperties>
  </ulex:PackageMetadata>
  <Digest xmlns="http://ucore.gov/ucore/2.0" xmlns:ucoregml="http://www.opengis.net/gml/3.2"
xmlns:ns="http://www.opengis.net/gml/3.2" xmlns:ucore="http://ucore.gov/ucore/2.0"
xmlns:have="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0" xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3"
xmlns:ns1="http://niem.gov/niem/niem-core/2.0" xmlns:inc="http://uicds.org/incident"
xmlns:ddms="http://metadata.dod.mil/mdr/ns/DDMS/2.0/" xmlns:geo-
oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis" xmlns:gml="http://www.opengis.net/gml"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ulex="ulex:message:structure:1.0"
xmlns:base="http://www.saic.com/precis/2009/06/base">
    <Organization id="Organization-w1aab1a">
      <What ucore:code="Organization" ucore:codespace="http://ucore.gov/ucore/2.0/codespace/"/>
      <Name>
        <Value/>
      </Name>
    </Organization>
    <Event id="Event-w1aab1a">
      <Descriptor>Incident used to test resource messaging service</Descriptor>
      <Identifier ucore:codespace="http://niem.gov/niem/niem-core/2.0" ucore:code="ActivityName"
ucore:label="ID">Test Incident</Identifier>
      <Identifier ucore:codespace="http://uicds.us/identifier" ucore:code="label" ucore:label="Label">Test
Incident...</Identifier>
      <SimpleProperty ucore:label="Icon" ucore:code="icon" ucore:codespace="http://uicds.us/style"/>
      <SimpleProperty ucore:label="Color" ucore:code="color" ucore:codespace="http://uicds.us/style"/>
      <SimpleProperty ucore:label="Scalar" ucore:code="scalar" ucore:codespace="http://uicds.us/style"/>
      <What ucore:code="TEST" ucore:codespace="http://ucore.gov/ucore/2.0/codespace/"/>
    </Event>
    <Location id="Location-w1aab1a">
      <GeoLocation>
        <CircleByCenterPoint>
          <ucoregml:CircleByCenterPoint numArc="1">
            <ucoregml:pos srsName="EPSG:4326">38.29722, -77.29722</ucoregml:pos>
            <ucoregml:radius uom="SMI">1.0</ucoregml:radius>
          </ucoregml:CircleByCenterPoint>
        </CircleByCenterPoint>
      </GeoLocation>
      <PhysicalAddress>
```

```xml
            <ddms:postalAddress>
              <ddms:street/>
              <ddms:city/>
              <ddms:state/>
              <ddms:postalCode/>
              <ddms:countryCode ddms:value="" ddms:qualifier="ISO 3166-1"/>
            </ddms:postalAddress>
          </PhysicalAddress>
        </Location>
        <OccursAt id="OccursAt-w1aab1a">
          <Time>
            <TimeInstant>
              <Value>2012-10-06T13:26:40-04:00</Value>
            </TimeInstant>
          </Time>
          <EventRef ref="Event-w1aab1a"/>
          <LocationRef ref="Location-w1aab1a"/>
        </OccursAt>
      </Digest>
    <ulex:StructuredPayload xmlns:ulex="ulex:message:structure:1.0">
      <ulex:StructuredPayloadMetadata>
        <ulex:CommunityURI>Incident</ulex:CommunityURI>
        <ulex:CommunityVersion/>
      </ulex:StructuredPayloadMetadata>
      <inc:Incident s:id="Incident-56c9de61-7a5a-4743-9344-c193507472e5"
xmlns:ims="http://uicds.org/IncidentManagementService" xmlns:niem-xsd="http://niem.gov/niem/proxy/xsd/2.0"
xmlns:as="http://uicds.org/AlertService" xmlns:inc="http://uicds.org/incident"
xmlns:s="http://niem.gov/niem/structures/2.0" xmlns:nc="http://niem.gov/niem/niem-core/2.0"
xmlns:p="urn:oasis:names:tc:emergency:EDXL:DE:1.0" xmlns:nga="http://niem.gov/niem/nga/2.0"
xmlns:unece="http://niem.gov/niem/unece_rec20-misc/2.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://www.saic.com/precis/2009/06/structures" xmlns:ns="http://ucore.gov/ucore/2.0"
xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/"
xmlns:base="http://www.saic.com/precis/2009/06/base">
        <nc:ActivityIdentification>
          <nc:IdentificationID>IG-60be918b-2405-4d78-ae4e-13691cd0d79e</nc:IdentificationID>
        </nc:ActivityIdentification>
        <nc:ActivityCategoryText>TEST</nc:ActivityCategoryText>
        <nc:ActivityDate>
          <nc:DateTime>2012-22-08T09:55:22</nc:DateTime>
        </nc:ActivityDate>
        <nc:ActivityDescriptionText>Incident used to test resource messaging
service</nc:ActivityDescriptionText>
        <nc:ActivityName>Test Incident</nc:ActivityName>
        <nc:IncidentLocation>
          <nc:LocationAddress>
            <nc:AddressFullText>4001 North Fairfax Drive, Arlington, VA 22203</nc:AddressFullText>
          </nc:LocationAddress>
          <nc:LocationArea>
            <nc:AreaCircularRegion>
              <nc:CircularRegionCenterCoordinate>
                <nc:GeographicCoordinateLatitude>
                  <nc:LatitudeDegreeValue>38</nc:LatitudeDegreeValue>
                  <nc:LatitudeMinuteValue>17</nc:LatitudeMinuteValue>
                  <nc:LatitudeSecondValue>50.00</nc:LatitudeSecondValue>
                </nc:GeographicCoordinateLatitude>
                <nc:GeographicCoordinateLongitude>
                  <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
                  <nc:LongitudeMinuteValue>17</nc:LongitudeMinuteValue>
```

```
                    <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
                </nc:GeographicCoordinateLongitude>
              </nc:CircularRegionCenterCoordinate>
              <nc:CircularRegionRadiusLengthMeasure>
                <nc:MeasurePointValue>1.0</nc:MeasurePointValue>
                <nc:LengthUnitCode>SMI</nc:LengthUnitCode>
              </nc:CircularRegionRadiusLengthMeasure>
            </nc:AreaCircularRegion>
          </nc:LocationArea>
        </nc:IncidentLocation>
        <inc:SharedCoreName>uicds@uicds123.us.saic.com</inc:SharedCoreName>
        <inc:SharedCoreName>uicds@uicds-test1.saic.com</inc:SharedCoreName>
        <inc:OwningCore>uicds@uicds-test2.saic.com</inc:OwningCore>
      </inc:Incident>
    </ulex:StructuredPayload>
</str:WorkProduct>
```

8.0 WorkProductIdentification is Essential for Update, Close, and Archive

Any changes to a work product (Update, Close, Archive) must start from the most current version of the Work Product. The identification for the work product is found in ***WorkProductIdentification***.

The current version is defined by two numbers found in the WorkProductIdentification element:

- Identifier which indicates the type of work product and a unique number. In the example below, the Identifier is highlighted in yellow and includes "Incident" as the type of work product and the unique number that follows.

- Checksum is used to further identify the unique work product. In the example below, the Checksum is highlighted in blue.

WorkProductIdentification is available from:

- Response to the CreateIncident
- Received in a notification
- Response to the GetIncidentRequest, as shown below

8.1 GetIncidentRequest for WorkProductIdentification

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
 xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
 <soapenv:Header />
 <soapenv:Body>
  <ims:GetIncidentRequest
   xmlns:ims="http://uicds.org/IncidentManagementService"
   xmlns:str="http://www.saic.com/precis/2009/06/structures"
```

```
        xmlns:base="http://www.saic.com/precis/2009/06/base">
            <str:WorkProductIdentification>
                <base:Identifier>Incident-e9893f88-40d3-4b49-b155-a7035e00fba7</base:Identifier>
                <base:Version>2</base:Version>
                <base:Type>Incident</base:Type>
                <base:Checksum>Fri Oct 05 08:49:24 MDT 2012:2:2:1432722505</base:Checksum>
                <base:State>Active</base:State>
            </str:WorkProductIdentification>
        </ims:GetIncidentRequest>
    </soapenv:Body>
</soapenv:Envelope>
```

8.2   Response to GetIncidentRequest to Obtain WorkProductIdentification

The response to this GetIncidentRequest contains (a) Metadata shown in red, (b) Digest shown in green, and (c) Payload shown in blue and the WorkProductIdentification as shown below highlighted in Yellow.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
 xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
<SOAP-ENV:Header />
<SOAP-ENV:Body>
 <inc:GetIncidentResponse
  xmlns:inc="http://uicds.org/IncidentManagementService">
 <str:WorkProduct
  xmlns:str="http://www.saic.com/precis/2009/06/structures">
  <ulex:PackageMetadata
   xmlns:ulex="ulex:message:structure:1.0">
   <ulex:DataItemID>Incident-e9893f88-40d3-4b49-b155-a7035e00fba7</ulex:DataItemID>
   <ulex:DataItemReferenceID>Incident-e9893f88-40d3-4b49-b155-
a7035e00fba7</ulex:DataItemReferenceID>
   <ns:DataItemStatus
    xmlns:ns="http://ucore.gov/ucore/2.0"
    ns:code="Active"
    ns:codespace="http://uicds.org/1.0/codespace/workproduct/status"
    ns:label="UICDS Work Product Status" />
   <ulex:DataOwnerMetadata>
    <ns:DataOwnerIdentifier
     xmlns:ns="http://ucore.gov/ucore/2.0">
     <ns1:Organization
      xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
      <ns1:name>ucids.org</ns1:name>
     </ns1:Organization>
    </ns:DataOwnerIdentifier>
    <ns:DataOwnerContact
     xmlns:ns="http://ucore.gov/ucore/2.0">
     <ns1:Organization
      xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
      <ns1:name>http://uicds.us</ns1:name>
     </ns1:Organization>
    </ns:DataOwnerContact>
```

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```
  <ulex:DataOwnerMetadataDomainAttribute>
   <ulex:DomainName>UICDS EM Domain</ulex:DomainName>
  </ulex:DataOwnerMetadataDomainAttribute>
 </ulex:DataOwnerMetadata>
 <ns:DisseminationCriteria
  xmlns:ns="http://ucore.gov/ucore/2.0" />
 <str:WorkProductIdentification>
  <base:Identifier
   xmlns:base="http://www.saic.com/precis/2009/06/base">Incident-e9893f88-40d3-4b49-b155-
a7035e00fba7</base:Identifier>
   <base:Version
    xmlns:base="http://www.saic.com/precis/2009/06/base">2</base:Version>
   <base:Type
    xmlns:base="http://www.saic.com/precis/2009/06/base">Incident</base:Type>
   <base:Checksum
    xmlns:base="http://www.saic.com/precis/2009/06/base">Fri Oct 05 08:49:24 MDT
2012:2:2:1432722505</base:Checksum>
   <base:State
    xmlns:base="http://www.saic.com/precis/2009/06/base">Active</base:State>
  </str:WorkProductIdentification>
 <str:WorkProductProperties>
   <base:Created
    xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-05T08:44:10.560-06:00</base:Created>
   <base:CreatedBy
    xmlns:base="http://www.saic.com/precis/2009/06/base">admin@9zwgns1</base:CreatedBy>
   <base:LastUpdated
    xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-05T08:49:24.309-
06:00</base:LastUpdated>
   <base:LastUpdatedBy
    xmlns:base="http://www.saic.com/precis/2009/06/base">admin@9zwgns1</base:LastUpdatedBy>
   <base:Kilobytes
    xmlns:base="http://www.saic.com/precis/2009/06/base">2</base:Kilobytes>
   <base:MimeType
    xmlns:base="http://www.saic.com/precis/2009/06/base">application/uicds+xml</base:MimeType>
   <base:AssociatedGroups
    xmlns:base="http://www.saic.com/precis/2009/06/base">
    <base:Identifier>IG-9170727f-662d-4873-be66-bb0daee10b16</base:Identifier>
   </base:AssociatedGroups>
  </str:WorkProductProperties>
 </ulex:PackageMetadata>
 <Digest
  xmlns="http://ucore.gov/ucore/2.0">
 <Organization
  id="Organization-w1aab1a">
 <ucore:What
  xmlns:ucore="http://ucore.gov/ucore/2.0"
  ucore:code="Organization"
  ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
 <Name>
  <Value />
 </Name>
 </Organization>
 <Event
  id="Event-w1aab1a">
  <Descriptor>Incident used to test incident management service</Descriptor>
  <ucore:Identifier
   xmlns:ucore="http://ucore.gov/ucore/2.0"
   ucore:code="ActivityName"
```

```xml
    ucore:codespace="http://niem.gov/niem/niem-core/2.0"
    ucore:label="ID">Test Incident - UPDATE</ucore:Identifier>
  <ucore:Identifier
    xmlns:ucore="http://ucore.gov/ucore/2.0"
    ucore:code="label"
    ucore:codespace="http://uicds.us/identifier"
    ucore:label="Label">Test Incident -...</ucore:Identifier>
  <ucore:SimpleProperty
    xmlns:ucore="http://ucore.gov/ucore/2.0"
    ucore:code="icon"
    ucore:codespace="http://uicds.us/style"
    ucore:label="Icon" />
  <ucore:SimpleProperty
    xmlns:ucore="http://ucore.gov/ucore/2.0"
    ucore:code="color"
    ucore:codespace="http://uicds.us/style"
    ucore:label="Color" />
  <ucore:SimpleProperty
    xmlns:ucore="http://ucore.gov/ucore/2.0"
    ucore:code="scalar"
    ucore:codespace="http://uicds.us/style"
    ucore:label="Scalar" />
  <ucore:What
    xmlns:ucore="http://ucore.gov/ucore/2.0"
    ucore:code="TEST"
    ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
 </Event>
 <Location
  id="Location-w1aab1a">
  <GeoLocation>
   <CircleByCenterPoint>
    <ucoregml:CircleByCenterPoint
     xmlns:ucoregml="http://www.opengis.net/gml/3.2"
     numArc="1">
     <ucoregml:pos
      srsName="EPSG:4326">38.29722, -77.29722</ucoregml:pos>
     <ucoregml:radius
      uom="SMI">1.0</ucoregml:radius>
    </ucoregml:CircleByCenterPoint>
   </CircleByCenterPoint>
  </GeoLocation>
  <PhysicalAddress>
   <ddms:postalAddress
    xmlns:ddms="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
    <ddms:street />
    <ddms:city />
    <ddms:state />
    <ddms:postalCode />
    <ddms:countryCode
     ddms:qualifier="ISO 3166-1"
     ddms:value="" />
   </ddms:postalAddress>
  </PhysicalAddress>
 </Location>
 <OccursAt
  id="OccursAt-w1aab1a">
  <Time>
   <TimeInstant>
```

```xml
      <Value>2012-10-05T08:49:24.252-06:00</Value>
     </TimeInstant>
    </Time>
    <EventRef
     ref="Event-w1aab1a" />
    <LocationRef
     ref="Location-w1aab1a" />
   </OccursAt>
  </Digest>
  <ulex:StructuredPayload
   xmlns:ulex="ulex:message:structure:1.0">
   <ulex:StructuredPayloadMetadata>
   <ulex:CommunityURI>Incident</ulex:CommunityURI>
   <ulex:CommunityVersion />
   </ulex:StructuredPayloadMetadata>
   <inc:Incident
    xmlns:inc="http://uicds.org/incident"
    xmlns="http://www.saic.com/precis/2009/06/structures"
    xmlns:s="http://niem.gov/niem/structures/2.0"
    s:id="Incident-e9893f88-40d3-4b49-b155-a7035e00fba7">
    <nc:ActivityIdentification
     xmlns:nc="http://niem.gov/niem/niem-core/2.0">
     <nc:IdentificationID>IG-9170727f-662d-4873-be66-bb0daee10b16</nc:IdentificationID>
    </nc:ActivityIdentification>
    <nc:ActivityCategoryText
     xmlns:nc="http://niem.gov/niem/niem-core/2.0">TEST</nc:ActivityCategoryText>
    <nc:ActivityDate
     xmlns:nc="http://niem.gov/niem/niem-core/2.0">
     <nc:DateTime>2012-22-08T09:55:22</nc:DateTime>
    </nc:ActivityDate>
    <nc:ActivityDescriptionText
     xmlns:nc="http://niem.gov/niem/niem-core/2.0">Incident used to test incident management
service</nc:ActivityDescriptionText>
    <nc:ActivityName
     xmlns:nc="http://niem.gov/niem/niem-core/2.0">Test Incident - UPDATE</nc:ActivityName>
    <nc:IncidentLocation
     xmlns:nc="http://niem.gov/niem/niem-core/2.0">
     <nc:LocationAddress>
     <nc:AddressFullText>4001 North Fairfax Drive, Arlington, VA 22203</nc:AddressFullText>
     </nc:LocationAddress>
     <nc:LocationArea>
      <nc:AreaCircularRegion>
       <nc:CircularRegionCenterCoordinate>
        <nc:GeographicCoordinateLatitude>
         <nc:LatitudeDegreeValue>38</nc:LatitudeDegreeValue>
         <nc:LatitudeMinuteValue>17</nc:LatitudeMinuteValue>
         <nc:LatitudeSecondValue>50.00</nc:LatitudeSecondValue>
        </nc:GeographicCoordinateLatitude>
        <nc:GeographicCoordinateLongitude>
         <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
         <nc:LongitudeMinuteValue>17</nc:LongitudeMinuteValue>
         <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
        </nc:GeographicCoordinateLongitude>
       </nc:CircularRegionCenterCoordinate>
       <nc:CircularRegionRadiusLengthMeasure>
        <nc:MeasurePointValue>1.0</nc:MeasurePointValue>
        <nc:LengthUnitCode>SMI</nc:LengthUnitCode>
       </nc:CircularRegionRadiusLengthMeasure>
```

```
      </nc:AreaCircularRegion>
    </nc:LocationArea>
   </nc:IncidentLocation>
   <inc:OwningCore>uicds@9ZWGNS1.us.saic.com</inc:OwningCore>
  </inc:Incident>
 </ulex:StructuredPayload>
 </str:WorkProduct>
 </inc:GetIncidentResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

This WorkProductIdentification is used in the following three operations, update, close, and archive.

9.0 Update an Incident Work Product

Use the updateIncident operation on the Incident Management Service to update an incident.

When updating an incident, bear in mind that you are creating a new Incident Work Product. The old work product will be preserved by UICDS; however, the updated work product (which becomes the work product available to others) will have ONLY the data that you provide in the update. As a result, if you wish to continue to share data contained in the old work product you must INCLUDE that data in the updated work product.

The required data fields for updating an Incident Work Product are the same as those shown on the table in Section 2.0.

PLUS, the WorkProductIdentification (see Section 8.0, above)

Updates must start modifications from the most current version of the Work Product. The identification number for the work product is found in WorkProductIdentification and must be included in the Update.

9.1 Update Incident Work Product Request

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope
 xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
 xmlns:inc="http://uicds.org/IncidentManagementService"
 xmlns:inc1="http://uicds.org/incident">
 <soapenv:Header />
 <soapenv:Body>
  <ims:UpdateIncidentRequest
   xmlns:ims="http://uicds.org/IncidentManagementService"
   xmlns:inc="http://uicds.org/incident"
   xmlns:nc="http://niem.gov/niem/niem-core/2.0"
   xmlns:nga="http://niem.gov/niem/nga/2.0"
   xmlns:niem-xsd="http://niem.gov/niem/proxy/xsd/2.0"
   xmlns:p="urn:oasis:names:tc:emergency:EDXL:DE:1.0"
   xmlns:s="http://niem.gov/niem/structures/2.0"
   xmlns:unece="http://niem.gov/niem/unece_rec20-misc/2.0"
   xmlns:str="http://www.saic.com/precis/2009/06/structures"
```

```
  xmlns:base="http://www.saic.com/precis/2009/06/base">
  <str:WorkProductIdentification>
   <base:Identifier>Incident-e9893f88-40d3-4b49-b155-a7035e00fba7</base:Identifier>
   <base:Version>1</base:Version>
   <base:Type>Incident</base:Type>
   <base:Checksum>Fri Oct 05 08:44:10 MDT 2012:1:2:1015736887</base:Checksum>
   <base:State>Active</base:State>
  </str:WorkProductIdentification>
  <inc:Incident>
   <nc:ActivityCategoryText>TEST</nc:ActivityCategoryText>
   <nc:ActivityDate>
    <nc:DateTime>2012-22-08T09:55:22</nc:DateTime>
   </nc:ActivityDate>
   <nc:ActivityDescriptionText>Incident used to test incident management service</nc:ActivityDescriptionText>
   <nc:ActivityName>Test Incident - UPDATE</nc:ActivityName>
   <nc:IncidentLocation>
    <nc:LocationAddress>
     <nc:AddressFullText>4001 North Fairfax Drive, Arlington, VA 22203</nc:AddressFullText>
    </nc:LocationAddress>
    <nc:LocationArea>
     <nc:AreaCircularRegion>
      <nc:CircularRegionCenterCoordinate>
       <nc:GeographicCoordinateLatitude>
        <nc:LatitudeDegreeValue>38</nc:LatitudeDegreeValue>
        <nc:LatitudeMinuteValue>17</nc:LatitudeMinuteValue>
        <nc:LatitudeSecondValue>50.00</nc:LatitudeSecondValue>
       </nc:GeographicCoordinateLatitude>
       <nc:GeographicCoordinateLongitude>
        <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
        <nc:LongitudeMinuteValue>17</nc:LongitudeMinuteValue>
        <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
       </nc:GeographicCoordinateLongitude>
      </nc:CircularRegionCenterCoordinate>
      <nc:CircularRegionRadiusLengthMeasure>
       <nc:MeasurePointValue>1.0</nc:MeasurePointValue>
       <nc:LengthUnitCode>SMI</nc:LengthUnitCode>
      </nc:CircularRegionRadiusLengthMeasure>
     </nc:AreaCircularRegion>
    </nc:LocationArea>
   </nc:IncidentLocation>
  </inc:Incident>
 </ims:UpdateIncidentRequest>
</soapenv:Body>
</soapenv:Envelope>
```

9.2   Update Incident Work Product Response

The expected response to an Update Incident Request is shown below.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
 xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
 <SOAP-ENV:Header />
 <SOAP-ENV:Body>
  <inc:UpdateIncidentResponse
```

```
  xmlns:inc="http://uicds.org/IncidentManagementService">
  <wor:WorkProductPublicationResponse
   xmlns:wor="http://uicds.org/WorkProductService">
  <str:WorkProductProcessingStatus
   xmlns:str="http://www.saic.com/precis/2009/06/structures">
   <base:Status
    xmlns:base="http://www.saic.com/precis/2009/06/base">Accepted</base:Status>
  </str:WorkProductProcessingStatus>
  <str:WorkProduct
   xmlns:str="http://www.saic.com/precis/2009/06/structures">
   <ulex:PackageMetadata
    xmlns:ulex="ulex:message:structure:1.0">
    <ulex:DataItemID>Incident-e9893f88-40d3-4b49-b155-a7035e00fba7</ulex:DataItemID>
    <ulex:DataItemReferenceID>Incident-e9893f88-40d3-4b49-b155-
a7035e00fba7</ulex:DataItemReferenceID>
   <ns:DataItemStatus
    xmlns:ns="http://ucore.gov/ucore/2.0"
    ns:code="Active"
    ns:codespace="http://uicds.org/1.0/codespace/workproduct/status"
    ns:label="UICDS Work Product Status" />
   <ulex:DataOwnerMetadata>
    <ns:DataOwnerIdentifier
     xmlns:ns="http://ucore.gov/ucore/2.0">
     <ns1:Organization
      xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
      <ns1:name>ucids.org</ns1:name>
     </ns1:Organization>
    </ns:DataOwnerIdentifier>
    <ns:DataOwnerContact
     xmlns:ns="http://ucore.gov/ucore/2.0">
     <ns1:Organization
      xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
      <ns1:name>http://uicds.us</ns1:name>
     </ns1:Organization>
    </ns:DataOwnerContact>
    <ulex:DataOwnerMetadataDomainAttribute>
     <ulex:DomainName>UICDS EM Domain</ulex:DomainName>
    </ulex:DataOwnerMetadataDomainAttribute>
   </ulex:DataOwnerMetadata>
   <ns:DisseminationCriteria
    xmlns:ns="http://ucore.gov/ucore/2.0" />
   <str:WorkProductIdentification>
    <base:Identifier
     xmlns:base="http://www.saic.com/precis/2009/06/base">Incident-e9893f88-40d3-4b49-b155-
a7035e00fba7</base:Identifier>
    <base:Version
     xmlns:base="http://www.saic.com/precis/2009/06/base">2</base:Version>
    <base:Type
     xmlns:base="http://www.saic.com/precis/2009/06/base">Incident</base:Type>
    <base:Checksum
     xmlns:base="http://www.saic.com/precis/2009/06/base">Fri Oct 05 08:49:24 MDT
2012:2:2:1432722505</base:Checksum>
    <base:State
     xmlns:base="http://www.saic.com/precis/2009/06/base">Active</base:State>
   </str:WorkProductIdentification>
   <str:WorkProductProperties>
    <base:Created
     xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-05T08:44:10.560-06:00</base:Created>
```

```
      <base:CreatedBy
       xmlns:base="http://www.saic.com/precis/2009/06/base">admin@9zwgns1</base:CreatedBy>
      <base:LastUpdated
       xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-05T08:49:24.309-
06:00</base:LastUpdated>
      <base:LastUpdatedBy
       xmlns:base="http://www.saic.com/precis/2009/06/base">admin@9zwgns1</base:LastUpdatedBy>
      <base:Kilobytes
       xmlns:base="http://www.saic.com/precis/2009/06/base">2</base:Kilobytes>
      <base:MimeType
       xmlns:base="http://www.saic.com/precis/2009/06/base">application/uicds+xml</base:MimeType>
      <base:AssociatedGroups
       xmlns:base="http://www.saic.com/precis/2009/06/base">
      <base:Identifier>IG-9170727f-662d-4873-be66-bb0daee10b16</base:Identifier>
      </base:AssociatedGroups>
     </str:WorkProductProperties>
    </ulex:PackageMetadata>
    <ucore:Digest
     xmlns:ucore="http://ucore.gov/ucore/2.0"
     xmlns:ucoregml="http://www.opengis.net/gml/3.2"
     xmlns="http://ucore.gov/ucore/2.0"
     xmlns:ns1="http://niem.gov/niem/niem-core/2.0"
     xmlns:ns="http://www.opengis.net/gml/3.2"
     xmlns:inc="http://uicds.org/incident"
     xmlns:have="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0"
     xmlns:ddms="http://metadata.dod.mil/mdr/ns/DDMS/2.0/"
     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
     xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3"
     xmlns:gml="http://www.opengis.net/gml"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
     <ucore:Organization
      id="Organization-w1aab1a">
     <ucore:What
      ucore:code="Organization"
      ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
     <ucore:Name>
      <ucore:Value />
     </ucore:Name>
    </ucore:Organization>
    <ucore:Event
     id="Event-w1aab1a">
     <ucore:Descriptor>Incident used to test incident management service</ucore:Descriptor>
     <ucore:Identifier
      ucore:code="ActivityName"
      ucore:codespace="http://niem.gov/niem/niem-core/2.0"
      ucore:label="ID">Test Incident - UPDATE</ucore:Identifier>
     <ucore:Identifier
      ucore:code="label"
      ucore:codespace="http://uicds.us/identifier"
      ucore:label="Label">Test Incident -...</ucore:Identifier>
     <ucore:SimpleProperty
      ucore:code="icon"
      ucore:codespace="http://uicds.us/style"
      ucore:label="Icon" />
     <ucore:SimpleProperty
      ucore:code="color"
      ucore:codespace="http://uicds.us/style"
      ucore:label="Color" />
```

```xml
      <ucore:SimpleProperty
       ucore:code="scalar"
       ucore:codespace="http://uicds.us/style"
       ucore:label="Scalar" />
      <ucore:What
       ucore:code="TEST"
       ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
     </ucore:Event>
     <ucore:Location
      id="Location-w1aab1a">
      <ucore:GeoLocation>
       <ucore:CircleByCenterPoint>
        <ns:CircleByCenterPoint
         numArc="1">
         <ns:pos
          srsName="EPSG:4326">38.29722, -77.29722</ns:pos>
         <ns:radius
          uom="SMI">1.0</ns:radius>
        </ns:CircleByCenterPoint>
       </ucore:CircleByCenterPoint>
      </ucore:GeoLocation>
      <ucore:PhysicalAddress>
       <ddms:postalAddress>
        <ddms:street />
        <ddms:city />
        <ddms:state />
        <ddms:postalCode />
        <ddms:countryCode
         ddms:qualifier="ISO 3166-1"
         ddms:value="" />
       </ddms:postalAddress>
      </ucore:PhysicalAddress>
     </ucore:Location>
     <ucore:OccursAt
      id="OccursAt-w1aab1a">
      <ucore:Time>
       <ucore:TimeInstant>
        <ucore:Value>2012-10-05T08:49:24.252-06:00</ucore:Value>
       </ucore:TimeInstant>
      </ucore:Time>
      <ucore:EventRef
       ref="Event-w1aab1a" />
      <ucore:LocationRef
       ref="Location-w1aab1a" />
     </ucore:OccursAt>
    </ucore:Digest>
   </str:WorkProduct>
  </wor:WorkProductPublicationResponse>
 </inc:UpdateIncidentResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

10.0 Close and Archive an Incident Work Product

10.1 Understanding Close and Archive

Closing an Incident (or any work product) removes it from the notification list and removes it from any GetCurrentWorkProduct-type request. But it does NOT remove the work product (or any previous versions of the work product) from UICDS.

Archiving an Incident (or any work product) permanently deletes it from UICDS.

The purpose of closing before archiving is to give the UICDS owner a chance to do whatever he or she wants to do with the set of work products. This is the point to save work products for the record, if desired. The principle behind UICDS is that UICDS is not a system of record – it is the transport path for data. Your system of record is the application you are using. Thus, there is no inherent way to create a long-term historical record of UICDS transactions except to copy the data from UICDS between the close process and the archive process.

In practice, because UICDS is not a system of record, most applications Close and Archive Work Products in one step. But that is entirely up to you.

10.2 Close and Archive Operations

Close and Archive use the WorkProductService for ALL Work Products. The same message is submitted to the WorkProductService for any work product in UICDS with the specific instruction being provided to UICDS by the WorkProductIdentification which specifies which work product to close or archive.

10.2.1   Example Close Message

Below is an example of a Close message for an Incident Work Product.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <wp:CloseProductRequest xmlns:wp="http://uicds.org/WorkProductService"
                        xmlns:str="http://www.saic.com/precis/2009/06/structures"
                        xmlns:base="http://www.saic.com/precis/2009/06/base">

        <!-- NOTE: Use the identification block returned when creating the incident -->
        <!-- NOTE: If the product has been updated since then, an error will be returned -->
        <!--     which contains the most recent identification information. -->
      <str:WorkProductIdentification>
          <base:Identifier>Incident-e9893f88-40d3-4b49-b155-a7035e00fba7</base:Identifier>
          <base:Version>3</base:Version>
          <base:Type>Incident</base:Type>
          <base:Checksum>Fri Oct 05 08:49:24 MDT 2012:2:2:1432722505</base:Checksum>
          <base:State>Active</base:State>
      </str:WorkProductIdentification>
    </wp:CloseProductRequest>
```

```
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Note that Identifier and Checksum identify what Work Product you are closing. You must substitute the Identifier and Checksum numbers from the work product you want to close. See Section 8.0 for further details.

10.2.2   Expected Response to a Close Message

You will get a response by Closing that contains your confirmation that it was closed AND the Identifier and Checksum for the NEW WP that says it is closed.   Remember, Closed means it remains on UICDS. To remove it from UICDS, Archive, as described below.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header />
  <SOAP-ENV:Body>
    <wor:CloseProductResponse
      xmlns:wor="http://uicds.org/WorkProductService">
      <wor:WorkProductPublicationResponse>
        <str:WorkProductProcessingStatus
          xmlns:str="http://www.saic.com/precis/2009/06/structures">
          <base:Status
            xmlns:base="http://www.saic.com/precis/2009/06/base">Accepted</base:Status>
        </str:WorkProductProcessingStatus>
        <str:WorkProduct
          xmlns:str="http://www.saic.com/precis/2009/06/structures">
          <ulex:PackageMetadata
            xmlns:ulex="ulex:message:structure:1.0">
            <ulex:DataItemID>Incident-e9893f88-40d3-4b49-b155-a7035e00fba7</ulex:DataItemID>
            <ulex:DataItemReferenceID>Incident-e9893f88-40d3-4b49-b155-
a7035e00fba7</ulex:DataItemReferenceID>
            <ns:DataItemStatus
              xmlns:ns="http://ucore.gov/ucore/2.0"
              ns:code="Inactive"
              ns:codespace="http://uicds.org/1.0/codespace/workproduct/status"
              ns:label="UICDS Work Product Status" />
            <ulex:DataOwnerMetadata>
              <ns:DataOwnerIdentifier
                xmlns:ns="http://ucore.gov/ucore/2.0">
                <ns1:Organization
                  xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
                  <ns1:name>ucids.org</ns1:name>
                </ns1:Organization>
              </ns:DataOwnerIdentifier>
              <ns:DataOwnerContact
                xmlns:ns="http://ucore.gov/ucore/2.0">
                <ns1:Organization
                  xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
                  <ns1:name>http://uicds.us</ns1:name>
                </ns1:Organization>
```

```
            </ns:DataOwnerContact>
            <ulex:DataOwnerMetadataDomainAttribute>
               <ulex:DomainName>UICDS EM Domain</ulex:DomainName>
            </ulex:DataOwnerMetadataDomainAttribute>
         </ulex:DataOwnerMetadata>
         <ns:DisseminationCriteria
            xmlns:ns="http://ucore.gov/ucore/2.0" />
         <str:WorkProductIdentification>
            <base:Identifier
               xmlns:base="http://www.saic.com/precis/2009/06/base">Incident-e9893f88-40d3-4b49-
b155-a7035e00fba7</base:Identifier>
            <base:Version
               xmlns:base="http://www.saic.com/precis/2009/06/base">4</base:Version>
            <base:Type
               xmlns:base="http://www.saic.com/precis/2009/06/base">Incident</base:Type>
            <base:Checksum
               xmlns:base="http://www.saic.com/precis/2009/06/base">Fri Oct 05 09:16:48 MDT
2012:4:2:1733493241</base:Checksum>
            <base:State
               xmlns:base="http://www.saic.com/precis/2009/06/base">Inactive</base:State>
         </str:WorkProductIdentification>
         <str:WorkProductProperties>
            <base:Created
               xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-05T08:44:10.560-
06:00</base:Created>
            <base:CreatedBy

xmlns:base="http://www.saic.com/precis/2009/06/base">admin@9zwgns1</base:CreatedBy>
            <base:LastUpdated
               xmlns:base="http://www.saic.com/precis/2009/06/base">2012-10-05T09:16:48.045-
06:00</base:LastUpdated>
            <base:LastUpdatedBy

xmlns:base="http://www.saic.com/precis/2009/06/base">admin@9zwgns1</base:LastUpdatedBy>
            <base:Kilobytes
               xmlns:base="http://www.saic.com/precis/2009/06/base">2</base:Kilobytes>
            <base:MimeType

xmlns:base="http://www.saic.com/precis/2009/06/base">application/uicds+xml</base:MimeType>
            <base:AssociatedGroups
               xmlns:base="http://www.saic.com/precis/2009/06/base">
               <base:Identifier>IG-9170727f-662d-4873-be66-bb0daee10b16</base:Identifier>
            </base:AssociatedGroups>
         </str:WorkProductProperties>
      </ulex:PackageMetadata>
      <Digest
         xmlns="http://ucore.gov/ucore/2.0">
         <Organization
            id="Organization-w1aab1a">
            <ucore:What
               xmlns:ucore="http://ucore.gov/ucore/2.0"
               ucore:code="Organization"
               ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
            <Name>
               <Value />
            </Name>
         </Organization>
         <Event
```

```
        id="Event-w1aab1a">
        <Descriptor>Incident used to test incident management service</Descriptor>
        <ucore:Identifier
          xmlns:ucore="http://ucore.gov/ucore/2.0"
          ucore:code="ActivityName"
          ucore:codespace="http://niem.gov/niem/niem-core/2.0"
          ucore:label="ID">Test Incident - UPDATE</ucore:Identifier>
        <ucore:Identifier
          xmlns:ucore="http://ucore.gov/ucore/2.0"
          ucore:code="label"
          ucore:codespace="http://uicds.us/identifier"
          ucore:label="Label">Test Incident -...</ucore:Identifier>
        <ucore:SimpleProperty
          xmlns:ucore="http://ucore.gov/ucore/2.0"
          ucore:code="icon"
          ucore:codespace="http://uicds.us/style"
          ucore:label="Icon" />
        <ucore:SimpleProperty
          xmlns:ucore="http://ucore.gov/ucore/2.0"
          ucore:code="color"
          ucore:codespace="http://uicds.us/style"
          ucore:label="Color" />
        <ucore:SimpleProperty
          xmlns:ucore="http://ucore.gov/ucore/2.0"
          ucore:code="scalar"
          ucore:codespace="http://uicds.us/style"
          ucore:label="Scalar" />
      <ucore:What
        xmlns:ucore="http://ucore.gov/ucore/2.0"
        ucore:code="TEST"
        ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
    </Event>
    <Location
      id="Location-w1aab1a">
      <GeoLocation>
        <CircleByCenterPoint>
          <ucoregml:CircleByCenterPoint
            xmlns:ucoregml="http://www.opengis.net/gml/3.2"
            numArc="1">
            <ucoregml:pos
              srsName="EPSG:4326">38.29722, -77.29722</ucoregml:pos>
            <ucoregml:radius
              uom="SMI">1.0</ucoregml:radius>
          </ucoregml:CircleByCenterPoint>
        </CircleByCenterPoint>
      </GeoLocation>
      <PhysicalAddress>
        <ddms:postalAddress
          xmlns:ddms="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
          <ddms:street />
          <ddms:city />
          <ddms:state />
          <ddms:postalCode />
          <ddms:countryCode
            ddms:qualifier="ISO 3166-1"
            ddms:value="" />
        </ddms:postalAddress>
      </PhysicalAddress>
```

```
          </Location>
          <OccursAt
            id="OccursAt-w1aab1a">
            <Time>
              <TimeInstant>
                <Value>2012-10-05T08:49:24.252-06:00</Value>
              </TimeInstant>
            </Time>
            <EventRef
              ref="Event-w1aab1a" />
            <LocationRef
              ref="Location-w1aab1a" />
          </OccursAt>
        </Digest>
      </str:WorkProduct>
    </wor:WorkProductPublicationResponse>
  </wor:CloseProductResponse>
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

10.2.3   Archive Work Product Message

To Archive you must use the NEW Closed WP Identifier and Checksum, substitute it in the Archive message (as shown in Section 8.0), and then submit the Archive message. At that point, the work product will be removed from UICDS.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <wp:ArchiveProductRequest xmlns:wp="http://uicds.org/WorkProductService"
                       xmlns:str="http://www.saic.com/precis/2009/06/structures"
                       xmlns:base="http://www.saic.com/precis/2009/06/base">
      <!-- NOTE:  Closing a workproduct updates it's version number, so to archive it -->
      <!--      you will need to pass the identification block returned by the close operation -->
          <str:WorkProductIdentification>
              <base:Identifier>Incident-e9893f88-40d3-4b49-b155-a7035e00fba7</base:Identifier>
              <base:Version>4</base:Version>
              <base:Type>Incident</base:Type>
              <base:Checksum>Fri Oct 05 09:16:48 MDT 2012:4:2:1733493241</base:Checksum>
              <base:State>Inactive</base:State>
          </str:WorkProductIdentification>n>
    </wp:ArchiveProductRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

10.2.4   Expected Response to Archive Work Product

This response indicates that the work product has been removed from UICDS.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
   xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
   <SOAP-ENV:Header />
```

```
  <SOAP-ENV:Body>
    <wor:ArchiveProductResponse
      xmlns:wor="http://uicds.org/WorkProductService">
      <str:WorkProductProcessingStatus
        xmlns:str="http://www.saic.com/precis/2009/06/structures">
        <base:Status
          xmlns:base="http://www.saic.com/precis/2009/06/base">Accepted</base:Status>
      </str:WorkProductProcessingStatus>
    </wor:ArchiveProductResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

11.0 Explicit Sharing of an Incident

Each incident may be shared from one UICDS Core to any other UICDS Core by UICDS Sharing Agreement. This is done automatically. However, an explicit sharing may occur if required by an application or organization concept of operations. In this case, the application controls explicit sharing. A Sharing Agreement will be in place, but the sharing rules are, effectively, turned off unless explicit sharing is invoked by the application with a specific sharing message, contained below.

11.1 Explicit Sharing Message

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header />
  <SOAP-ENV:Body>
    <ims:ShareIncidentRequest xmlns:ims="http://uicds.org/IncidentManagementService"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <ims:IncidentID>IG-9170727f-662d-4873-be66-bb0daee10b16</ims:IncidentID>
      <ims:CoreName>uicds@9ZWGNS1.us.saic.com</ims:CoreName>
    </ims:ShareIncidentRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

11.2 Expected Response to Explicit Sharing Message

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header />
  <SOAP-ENV:Body>
    <inc:ShareIncidentResponse
      xmlns:inc="http://uicds.org/IncidentManagementService">
      <inc:IncidentShareSucessful>true</inc:IncidentShareSucessful>
    </inc:ShareIncidentResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

12.0 Incident Managment Service Methods Summary

Developers have the option of using any of the following methods to elicit performance from UICDS services.

Incident Management Service Method Summary
archiveIncident
Archives an incident by removing it and all of the associated work products.
closeIncident
Closes an incident by making all of the associated work products inactive.
createIncident
Allows the client to create an incident using the UICDSIncidentType as an input type.
createIncidentFromCap
Allows the client to create an incident from a CAP version 1.1 element.
getIncident
Allows the client to retrieve the incident work product by incident work product ID.
getIncidentList
Get a list of all the incidents on the core.
getListOfClosedIncident
Get a list of incidents that have been closed with the CloseIncident operation.
shareIncident
Allows the client to share an with another core.
updateIncident
Allows the client to update the incident work product.
Reference: https://uicds-test3.saic.com/secure/apidocs/com/saic/uicds/core/em/endpoint/IncidentManagementServiceEndpoint.html

13.0 Viewing UICDS Work Products for Confirmation

There are two methods for inspecting the UICDS Incident Work Product to validate it. An internal look at the work product on the UICDS Core uses the UICDS Console. An external look at the results of the work product can be obtained using Google Earth™

13.1 Using the UICDS Console

Use the UICDS Console (or AdminConsole if you have permissions) to view the resulting work product after posting.

Access your UICDS Console at https://localhost.saic.com/uicds/Console.html where "localhost" is your UICDS Core.

For example, developers have access to hosted UICDS Cores for testing. With access credentials, you may use the Console to view your test UICDS Incidents to:

https://uicds-test2.saic.com/uicds/Console.html

The UICDS Console will provide two views of the UICDS Work Product as shown below. One is in a structured form (XSLT) and the second as an XML document. Note that the XSLT is user-defined if you wish to create your own view of the work product.
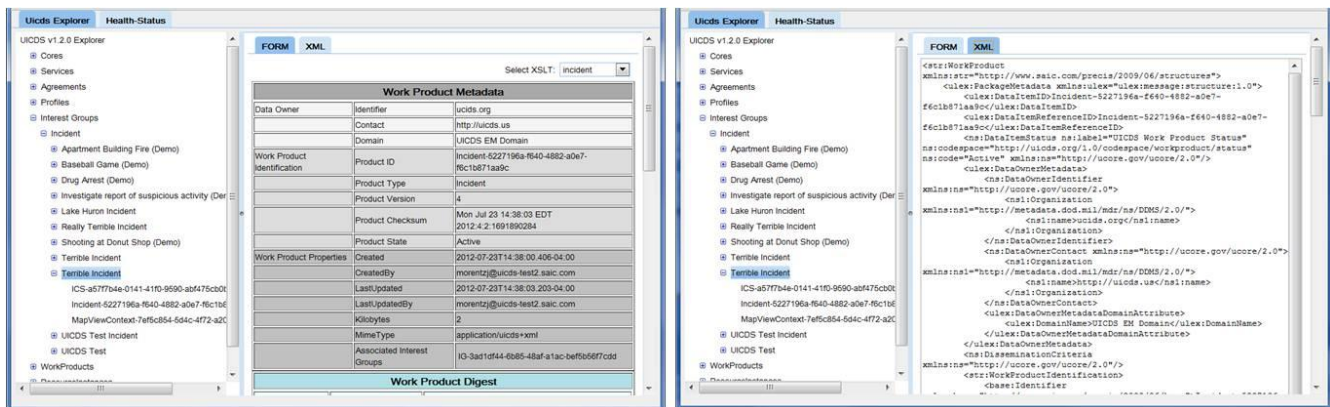
These views of the UICDS Console show, on the left, the XSLT view of work product Metadata, Digest, and Payload and on the right the XML view of the UICDS Work Product.

13.2 Using Google Earth™

In the Appendix (Section 13.4) is a guide to looking at these same incidents in Google Earth™ as one no-cost tool to check your incident work products.

14.0 Guide to the Incident Management Service Example Code

UICDS Distribution site available to those with access credentials at https://uicds-test5.saic.com/dist/index.html. The entire UICDS Core can be downloaded there for local development and testing. A significant amount of example code is contained on the site also in both Dot Net and Java. Below is a guide to finding your way through the example code to create, update, close, and archive Incident Work Products.

14.1 Java Incident Example Code

All this code is in the clients\java\em\async\src\main\java\com\saic\uicds\clients\em\async of the Java example code. The following directory tree structure shows how to find the code summarized below.
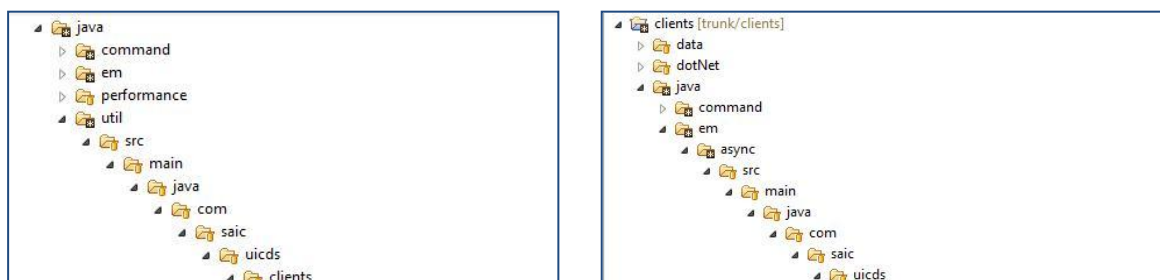
A summary of the key functions performed by the example code and available for you to incorporate into your UICDS Incident adapter follows:

1. The creating of the Java proxy for accessing the web services on the UICDS core is done using Spring context files in order to easily initialize the Spring Web Template. The proxy for the core is then available in this variable defined in AsyncClient.java:

private UicdsCore uicdsCore;

2. In AsyncClient.java this call creates an instance of a class that represents a UICDS Incident that has the proxy for communicating with the core:

```
// Create an incident
log.info("Creating Incident");
UicdsIncident uicdsIncident = new UicdsIncident();
uicdsIncident.setUicdsCore(uicdsCore);
```

3. In AsyncClient.java this line creates a UICDS Incident document from a file that is specified by the INCIDENT_EXAMPLE_FILE variable in AsyncClient.java. This file should have the XML where the data has already been inserted into your XML template:

```
// Create an IncidentDocument to describe the incident
IncidentDocument incidentDoc = getIncidentSample();
```

4. This instance of a UICDS Incident document can then be used in the following code in AsyncClient.java to have the uicdsIncident object create the incident on the core.

```
// Create the incident on the core
uicdsIncident.createOnCore(incidentDoc.getIncident());
```

5. The incident XML is updated in the UICDS Incident document in these lines in AsyncClient.java:

```
   // Get the current incident document
   UICDSIncidentType incidentType = uicdsIncident.getIncidentDocument();

   // Change the type of incident
   if (incidentType.sizeOfActivityCategoryTextArray() < 1) {
      incidentType.addNewActivityCategoryText();
   }
   incidentType.getActivityCategoryTextArray(0).setStringValue("CHANGED");
```

6. That updated work product is then used to update the incident on the core in this line:

```
   // Update the incident on the core
   ProcessingStatusType status = uicdsIncident.updateIncident(incidentType);
```

7. The incident can be closed and archived with the following lines:

```
      uicdsIncident.closeIncident(uicdsIncident.getIdentification());
      uicdsIncident.archiveIncident(uicdsIncident.getIdentification());
```

8. The URL to the core and the username and password to use for access to the web services is set in the clients\java\em\async\src\main\resources\contexts\async-context.xml file in this section of XML

```
<bean id="webServiceTemplate" class="org.springframework.ws.client.core.WebServiceTemplate">
   <constructor-arg ref="messageFactory" />
   <property name="marshaller" ref="xmlbeansMarshaller" />
   <property name="unmarshaller" ref="xmlbeansMarshaller" />
         <property name="defaultUri" value="http://localhost/uicds/core/ws/services"/>
   <property name="messageSender">
     <bean class="org.springframework.ws.transport.http.CommonsHttpMessageSender">
        <property name="credentials">
          <bean class="org.apache.commons.httpclient.UsernamePasswordCredentials">
             <constructor-arg value="user1" />
             <constructor-arg value="user1password" />
          </bean>
        </property>
     </bean>
   </property>
</bean>
```

14.2 *Dot Net Incident Example Code*

All this code is in the clients\dotNet\UICDS_async\UICDS_async\Program.cs file of the UICDS_async example code. The following directory tree structure shows how to find the code summarized below.

A summary of the key functions performed by the example code and available for you to incorporate into your UICDS Incident adapter follows:

1. Creating the .NET proxy for accessing the Incident Management Service is shown in this call:

```
// Create a proxy for the incident management service
        IncidentManagementService
incidentManagementService =

CreateIncidentManagementServiceProxy(incidentManagem
entServiceURL, username, password,
workProductServiceProxy);
```

2. In Program.cs this call creates an instance of a class that represents an Incident work product:

```
// Create a local representation of the incident
        Incident incident = createIncident();
```

3. The createIncident method in Program.cs sets the values for the necessary data (the "INSERT HERE" as shown on the examples in Section 5.0) like this:

```
private static Incident createIncident()
  {
    Incident incident = new Incident();
    incident.name = "Flood";
    incident.dateTime = "2009-10-14T09:55:22";
    incident.description = "A flood on the river";
    incident.latitudeDegrees = 38;
    incident.latitudeMinutes = 17;
    incident.latitudeSeconds = 50.00;
    incident.longitudeDegrees = -77;
    incident.longitudeMinutes = 17;
    incident.longitudeSeconds = 50.00;
    incident.type = "Env";
    return incident;
  }
```
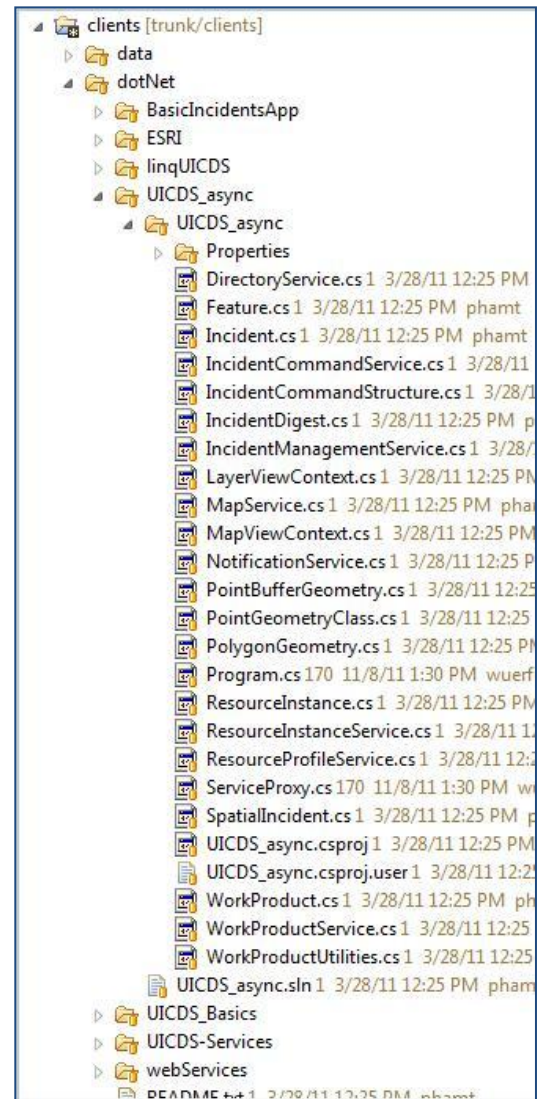
4. This instance of an Incident work product can then be used in the following code to send to the Incident Management Service Proxy CreateIncident method to create an incident on the core.

```
// Create the incident on the core
incidentManagementService.CreateIncident(incident);
```

5. To update the Incident work product, use this line which as an example uses the Incident Description data element:

```
// Update the local representation of the incident
incident.description = "The flood on the river has covered downtown";
```

6. That updated work product is then used to update the incident on the core in this line:

```
// Post the update to the core
incidentManagementService.UpdateIncident(incident);
```

7. The incident can be closed and archived with the following lines:

```
// Close the incident
incidentManagementService.CloseIncident(incident);

// Archive the incident (remove it from the core)
incidentManagementService.ArchiveIncident(incident);
```

8. The internal class AcceptAllCertificatePolicy at the top of the Program.cs file is used to allow the HTTP calls to accept any certificates.

9. These variables in the Program class must be set for the Incident Management Service proxy to work correctly:

```
private static String host = "https://localhost/uicds/core/ws/services/";
private static String workProductServiceURL = host + "WorkProductService";
private static String incidentManagementServiceURL = host + "IncidentManagementService";
```

10. In the Main function in Program.cs the username and password for a user on the core must be set with these two lines:

```
// Credentials to access the core
String username = "user1";
String password = "user1";
```

15.0 The UCore Digest Mapping of the Payload to the Digest)

UICDS automatically digests selected NIEM data elements contained in the payload into the UCore standard data elements. The following table shows those NIEM elements in the payload and the UCore Digest data element name. Required UICDS data elements are shown in beige and optional in blue.

The Digest data is contained in the KML and GeoRSS feeds as well as in the notification of the successful posting of a UICDS Incident XML template and the successful creation of an Incident Work Product.

UICDS Common Data Element Name	Payload UICDS Incident Data Element (from NIEM)	Digest Data Element (from UCore)
Incident Type	<nc:ActivityCategoryText>	<Event> <What>
Incident Date/Time	<nc:DateTime>	<TimeInstant>
Name	<nc:ActivityName>	<Event> <Identifier>
Location (text)	<nc:AddressFullText>	<Location> <PhysicalAddress>
Location (latitude/longitude)	<nc:LatitudeDegreeValue> <nc:LatitudeMinuteValue> <nc:LatitudeSecondValue> <nc:LongitudeDegreeValue> <nc:LongitudeMinuteValue> <nc:LongitudeSecondValue>	<Location> <GeoLocation> <ucoregml:pos>
Description	<nc:ActivityDescriptionText>	<Event> <Descriptor>
Organization (lead)	<nc:IncidentJurisdictionalOrganization/>	<Organization> <Name>

16.0 Best Practices for that Pesky "Other" Data

UICDS follows standards. The Incident Work Product is the UICDS implementation of the NIEM Incident Type. Thus, occasionally an application developer may find it necessary to transmit data that does not fit conveniently in the NIEM structure.

To accomplish this, UICDS has created a "best practice" for employing the Description data element to contain "other" data. Because this data is usually also important to the application end-user, the UICDS best practice is designed to make the data easily (a) understandable by other applications that receive the UICDS Work Product and (b) viewable in a nicely structured format. Thus, the best practice for incorporating data into the description is to use HTML formatting to define key:value pairs. As shown below, because the key:value pairs are clearly delimited, applications can understand them. In addition, UICDS digests the Description data element into a KML feed. When Google Earth or other KML-compliant applications consume that KML feed, they are smart enough to understand the HTML inserted into the KML feed and provide formatting in a end-user-friendly visualization.

To insert additional data into any data element, but most often the Description element, the following HTML formatting should be used as a best practice.

```
<Descriptor><![CDATA[<br />
       <b>Name:</b> Value <br />
       <b>Name:</b> Value <br />
       <b>Name:</b> Value <br />]]></Descriptor>
```

This HTML structure ensures (through CDATA) that the inserted HTML is not parsed by an XML parser. The <b> allows the Name element to display in bold face on Google Earth™ or other KML-enabled applications and <br/> inserts a return after each value forming a nicely formatted column.

17.0 Links to the Incident Management Service WSDL

The UICDS Incident Management Service WSDL can be found locally after the UICDS Core has been downloaded or is available from the UICDS test cores.

From the downloaded local UICDS Core:

http://localhost/uicds/core/ws/services/IncidentManagementService.wsdl

From a hosted UICDS Core

https://uicds-test2.saic.com/uicds/core/ws/services/IncidentManagementService.wsdl

18.0 Appendix: Detailed Look at Incident Work Product Variations

This section provides details on all the optional elements contained in an Incident Work Product and also provides examples of Create Work Product Request and Response for an incident with a polygon showing the area of an incident.

18.1 Incident Work Product Template (All Required and Optional Elements)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<inc:Incident xsi:schemaLocation="http://uicds.org/incident Incident.xsd" xmlns:nc="http://niem.gov/niem/niem-core/2.0" xmlns:inc="http://uicds.org/incident" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
       <nc:ActivityIdentification>
               <nc:IdentificationID>String</nc:IdentificationID>
               <nc:IdentificationCategoryText>String</nc:IdentificationCategoryText>
               <nc:IdentificationCategoryDescriptionText>String</nc:IdentificationCategoryDescriptionText>
               <nc:IdentificationEffectiveDate>
                       <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
               </nc:IdentificationEffectiveDate>
               <nc:IdentificationExpirationDate>
                       <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
               </nc:IdentificationExpirationDate>
               <nc:IdentificationJurisdictionText>String</nc:IdentificationJurisdictionText>
       </nc:ActivityIdentification>
```

```xml
<nc:ActivityCategoryText>String</nc:ActivityCategoryText>
<nc:ActivityDate>
        <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
</nc:ActivityDate>
<nc:ActivityDescriptionText>String</nc:ActivityDescriptionText>
<nc:ActivityName>String</nc:ActivityName>
<nc:ActivityStatus>
        <nc:StatusDate>
                <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
        </nc:StatusDate>
        <nc:StatusDescriptionText>String</nc:StatusDescriptionText>
        <nc:StatusIssuerIdentification>
                <nc:IdentificationID>String</nc:IdentificationID>
                <nc:IdentificationCategoryText>String</nc:IdentificationCategoryText>

<nc:IdentificationCategoryDescriptionText>String</nc:IdentificationCategoryDescriptionText>
                <nc:IdentificationEffectiveDate>
                        <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                </nc:IdentificationEffectiveDate>
                <nc:IdentificationExpirationDate>
                        <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                </nc:IdentificationExpirationDate>
                <nc:IdentificationJurisdictionText>String</nc:IdentificationJurisdictionText>
        </nc:StatusIssuerIdentification>
</nc:ActivityStatus>
<nc:ActivityReasonText>String</nc:ActivityReasonText>
<nc:ActivityDisposition/>
<nc:IncidentLocation>
        <nc:LocationAddress>
                <nc:StructuredAddress>
                        <nc:AddressRecipientName>String</nc:AddressRecipientName>
                        <nc:LocationStreet>
                                <nc:StreetNumberText>String</nc:StreetNumberText>
                                <nc:StreetName>String</nc:StreetName>
                        </nc:LocationStreet>
                        <nc:LocationCityName>String</nc:LocationCityName>
                        <nc:LocationCountyName>String</nc:LocationCountyName>

<nc:LocationStateUSPostalServiceCode>LA</nc:LocationStateUSPostalServiceCode>

<nc:LocationCountryISO3166Alpha2Code>CZ</nc:LocationCountryISO3166Alpha2Code>
                        <nc:LocationPostalCode>String</nc:LocationPostalCode>
                </nc:StructuredAddress>
        </nc:LocationAddress>
        <nc:LocationArea>
                <nc:AreaPolygonDescriptionText>String</nc:AreaPolygonDescriptionText>
                <nc:AreaPolygonGeographicCoordinate>
                        <nc:GeographicDatumCode>token</nc:GeographicDatumCode>
                        <nc:GeographicCoordinateLatitude>
                                <nc:LatitudeDegreeValue>-90</nc:LatitudeDegreeValue>
                                <nc:LatitudeMinuteValue>0</nc:LatitudeMinuteValue>
                                <nc:LatitudeSecondValue>0</nc:LatitudeSecondValue>
                        </nc:GeographicCoordinateLatitude>
                        <nc:GeographicCoordinateLongitude>
                                <nc:LongitudeDegreeValue>-180</nc:LongitudeDegreeValue>
                                <nc:LongitudeMinuteValue>0</nc:LongitudeMinuteValue>
                                <nc:LongitudeSecondValue>0</nc:LongitudeSecondValue>
                        </nc:GeographicCoordinateLongitude>
```

```
                    </nc:AreaPolygonGeographicCoordinate>
                    <nc:AreaCircularDescriptionText>String</nc:AreaCircularDescriptionText>
                    <nc:AreaCircularRegion>
                        <nc:CircularRegionCenterCoordinate>
                            <nc:GeographicDatumCode>token</nc:GeographicDatumCode>
                            <nc:GeographicCoordinateLatitude>
                                <nc:LatitudeDegreeValue>-90</nc:LatitudeDegreeValue>
                                <nc:LatitudeMinuteValue>0</nc:LatitudeMinuteValue>
                                <nc:LatitudeSecondValue>0</nc:LatitudeSecondValue>
                            </nc:GeographicCoordinateLatitude>
                            <nc:GeographicCoordinateLongitude>
                                <nc:LongitudeDegreeValue>-180</nc:LongitudeDegreeValue>
                                <nc:LongitudeMinuteValue>0</nc:LongitudeMinuteValue>
                                <nc:LongitudeSecondValue>0</nc:LongitudeSecondValue>
                            </nc:GeographicCoordinateLongitude>
                        </nc:CircularRegionCenterCoordinate>
                        <nc:CircularRegionRadiusLengthMeasure>
                            <nc:MeasurePointValue>0.0</nc:MeasurePointValue>
                            <nc:MeasureUnitText>String</nc:MeasureUnitText>
                            <nc:MeasureCategoryText>String</nc:MeasureCategoryText>
                            <nc:MeasureEstimatedIndicator>true</nc:MeasureEstimatedIndicator>
                            <nc:LengthUnitCode>YRD</nc:LengthUnitCode>
                        </nc:CircularRegionRadiusLengthMeasure>
                    </nc:AreaCircularRegion>
            </nc:LocationArea>
            <nc:LocationContactInformation>
                    <nc:ContactWebsiteURI>http://www.altova.com</nc:ContactWebsiteURI>
            </nc:LocationContactInformation>
            <nc:LocationCrossStreet>
                    <nc:CrossStreetDescriptionText>String</nc:CrossStreetDescriptionText>
                    <nc:CrossStreetRelativeLocation>

    <nc:RelativeLocationDescriptionText>String</nc:RelativeLocationDescriptionText>
                        <nc:RelativeLocationDistanceText>String</nc:RelativeLocationDistanceText>
                        <nc:RelativeLocationHeadingValue>0</nc:RelativeLocationHeadingValue>
                    </nc:CrossStreetRelativeLocation>
            </nc:LocationCrossStreet>
            <nc:LocationDescriptionText>String</nc:LocationDescriptionText>
            <nc:LocationHighway/>
            <nc:LocationMapLocation/>
            <nc:LocationMGRSCoordinate/>
            <nc:LocationName>String</nc:LocationName>

    <nc:LocationSurroundingAreaDescriptionText>String</nc:LocationSurroundingAreaDescriptionText>
            <nc:LocationTwoDimensionalGeographicCoordinate>
                    <nc:GeographicDatumCode>token</nc:GeographicDatumCode>
                    <nc:GeographicCoordinateLatitude>
                        <nc:LatitudeDegreeValue>-90</nc:LatitudeDegreeValue>
                        <nc:LatitudeMinuteValue>0</nc:LatitudeMinuteValue>
                        <nc:LatitudeSecondValue>0</nc:LatitudeSecondValue>
                    </nc:GeographicCoordinateLatitude>
                    <nc:GeographicCoordinateLongitude>
                        <nc:LongitudeDegreeValue>-180</nc:LongitudeDegreeValue>
                        <nc:LongitudeMinuteValue>0</nc:LongitudeMinuteValue>
                        <nc:LongitudeSecondValue>0</nc:LongitudeSecondValue>
                    </nc:GeographicCoordinateLongitude>
            </nc:LocationTwoDimensionalGeographicCoordinate>
            <nc:LocationUTMCoordinate/>
```

```xml
            </nc:IncidentLocation>
            <nc:IncidentEvent>
                    <nc:ActivityIdentification>
                            <nc:IdentificationID>String</nc:IdentificationID>
                            <nc:IdentificationCategoryText>String</nc:IdentificationCategoryText>

    <nc:IdentificationCategoryDescriptionText>String</nc:IdentificationCategoryDescriptionText>
                            <nc:IdentificationEffectiveDate>
                                    <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                            </nc:IdentificationEffectiveDate>
                            <nc:IdentificationExpirationDate>
                                    <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                            </nc:IdentificationExpirationDate>
                            <nc:IdentificationJurisdictionText>String</nc:IdentificationJurisdictionText>
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                    <nc:ActivityCategoryText>String</nc:ActivityCategoryText>
                    <nc:ActivityDate>
                            <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                    </nc:ActivityDate>
                    <nc:ActivityDescriptionText>String</nc:ActivityDescriptionText>
                    <nc:ActivityName>String</nc:ActivityName>
                    <nc:ActivityStatus>
                            <nc:StatusDate>
                                    <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                            </nc:StatusDate>
                            <nc:StatusDescriptionText>String</nc:StatusDescriptionText>
                            <nc:StatusIssuerIdentification>
                                    <nc:IdentificationID>String</nc:IdentificationID>
                                    <nc:IdentificationCategoryText>String</nc:IdentificationCategoryText>

    <nc:IdentificationCategoryDescriptionText>String</nc:IdentificationCategoryDescriptionText>
                                    <nc:IdentificationEffectiveDate>
                                            <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                                    </nc:IdentificationEffectiveDate>
                                    <nc:IdentificationExpirationDate>
                                            <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                                    </nc:IdentificationExpirationDate>
                                    <nc:IdentificationJurisdictionText>String</nc:IdentificationJurisdictionText>
                            </nc:StatusIssuerIdentification>
                    </nc:ActivityStatus>
                    <nc:ActivityReasonText>String</nc:ActivityReasonText>
                    <nc:ActivityDisposition/>
            </nc:IncidentEvent>
            <nc:IncidentJurisdictionalOrganization>
                    <nc:OrganizationAbbreviationText>String</nc:OrganizationAbbreviationText>
                    <nc:OrganizationActivityText>String</nc:OrganizationActivityText>
                    <nc:OrganizationDescriptionText>String</nc:OrganizationDescriptionText>
                    <nc:OrganizationEmergencyContactInformation>
                            <nc:ContactWebsiteURI>http://www.altova.com</nc:ContactWebsiteURI>
                    </nc:OrganizationEmergencyContactInformation>
                    <nc:OrganizationIdentification>
                            <nc:IdentificationID>String</nc:IdentificationID>
                            <nc:IdentificationCategoryText>String</nc:IdentificationCategoryText>

    <nc:IdentificationCategoryDescriptionText>String</nc:IdentificationCategoryDescriptionText>
                            <nc:IdentificationEffectiveDate>
                                    <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                            </nc:IdentificationEffectiveDate>
```

```
                              <nc:IdentificationExpirationDate>
                                     <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                              </nc:IdentificationExpirationDate>
                              <nc:IdentificationJurisdictionText>String</nc:IdentificationJurisdictionText>
                    </nc:OrganizationIdentification>
                    <nc:OrganizationLocation>
                              <nc:LocationAddress>
                                     <nc:StructuredAddress>
                                              <nc:AddressRecipientName>String</nc:AddressRecipientName>
                                              <nc:LocationStreet>
                                                     <nc:StreetNumberText>String</nc:StreetNumberText>
                                                     <nc:StreetName>String</nc:StreetName>
                                              </nc:LocationStreet>
                                              <nc:LocationCityName>String</nc:LocationCityName>
                                              <nc:LocationCountyName>String</nc:LocationCountyName>

          <nc:LocationStateUSPostalServiceCode>AZ</nc:LocationStateUSPostalServiceCode>

          <nc:LocationCountryISO3166Alpha2Code>CA</nc:LocationCountryISO3166Alpha2Code>
                                              <nc:LocationPostalCode>String</nc:LocationPostalCode>
                                     </nc:StructuredAddress>
                              </nc:LocationAddress>
                              <nc:LocationArea>
                                     <nc:AreaPolygonDescriptionText>String</nc:AreaPolygonDescriptionText>
                                     <nc:AreaPolygonGeographicCoordinate>
                                              <nc:GeographicDatumCode>token</nc:GeographicDatumCode>
                                              <nc:GeographicCoordinateLatitude>
                                                     <nc:LatitudeDegreeValue>-90</nc:LatitudeDegreeValue>
                                                     <nc:LatitudeMinuteValue>0</nc:LatitudeMinuteValue>
                                                     <nc:LatitudeSecondValue>0</nc:LatitudeSecondValue>
                                              </nc:GeographicCoordinateLatitude>
                                              <nc:GeographicCoordinateLongitude>
                                                     <nc:LongitudeDegreeValue>-180</nc:LongitudeDegreeValue>
                                                     <nc:LongitudeMinuteValue>0</nc:LongitudeMinuteValue>
                                                     <nc:LongitudeSecondValue>0</nc:LongitudeSecondValue>
                                              </nc:GeographicCoordinateLongitude>
                                     </nc:AreaPolygonGeographicCoordinate>
                                     <nc:AreaCircularDescriptionText>String</nc:AreaCircularDescriptionText>
                                     <nc:AreaCircularRegion>
                                              <nc:CircularRegionCenterCoordinate>

          <nc:GeographicDatumCode>token</nc:GeographicDatumCode>
                                                     <nc:GeographicCoordinateLatitude>
                                                              <nc:LatitudeDegreeValue>-
90</nc:LatitudeDegreeValue>

                                                              <nc:LatitudeMinuteValue>0</nc:LatitudeMinuteValue>
                                                              <nc:LatitudeSecondValue>0</nc:LatitudeSecondValue>
                                                     </nc:GeographicCoordinateLatitude>
                                                     <nc:GeographicCoordinateLongitude>
                                                              <nc:LongitudeDegreeValue>-
180</nc:LongitudeDegreeValue>

          <nc:LongitudeMinuteValue>0</nc:LongitudeMinuteValue>

          <nc:LongitudeSecondValue>0</nc:LongitudeSecondValue>
                                                     </nc:GeographicCoordinateLongitude>
                                              </nc:CircularRegionCenterCoordinate>
                                              <nc:CircularRegionRadiusLengthMeasure>
```

```xml
                              <nc:MeasurePointValue>0.0</nc:MeasurePointValue>
                              <nc:MeasureUnitText>String</nc:MeasureUnitText>
                              <nc:MeasureCategoryText>String</nc:MeasureCategoryText>

          <nc:MeasureEstimatedIndicator>true</nc:MeasureEstimatedIndicator>
                                    <nc:LengthUnitCode>KMT</nc:LengthUnitCode>
                              </nc:CircularRegionRadiusLengthMeasure>
                        </nc:AreaCircularRegion>
                  </nc:LocationArea>
                  <nc:LocationContactInformation>
                        <nc:ContactWebsiteURI>http://www.altova.com</nc:ContactWebsiteURI>
                  </nc:LocationContactInformation>
                  <nc:LocationCrossStreet>
                        <nc:CrossStreetDescriptionText>String</nc:CrossStreetDescriptionText>
                        <nc:CrossStreetRelativeLocation>

          <nc:RelativeLocationDescriptionText>String</nc:RelativeLocationDescriptionText>

          <nc:RelativeLocationDistanceText>String</nc:RelativeLocationDistanceText>

          <nc:RelativeLocationHeadingValue>0</nc:RelativeLocationHeadingValue>
                        </nc:CrossStreetRelativeLocation>
                  </nc:LocationCrossStreet>
                  <nc:LocationDescriptionText>String</nc:LocationDescriptionText>
                  <nc:LocationHighway/>
                  <nc:LocationMapLocation/>
                  <nc:LocationMGRSCoordinate/>
                  <nc:LocationName>String</nc:LocationName>

          <nc:LocationSurroundingAreaDescriptionText>String</nc:LocationSurroundingAreaDescriptionText>
                  <nc:LocationTwoDimensionalGeographicCoordinate>
                        <nc:GeographicDatumCode>token</nc:GeographicDatumCode>
                        <nc:GeographicCoordinateLatitude>
                              <nc:LatitudeDegreeValue>-90</nc:LatitudeDegreeValue>
                              <nc:LatitudeMinuteValue>0</nc:LatitudeMinuteValue>
                              <nc:LatitudeSecondValue>0</nc:LatitudeSecondValue>
                        </nc:GeographicCoordinateLatitude>
                        <nc:GeographicCoordinateLongitude>
                              <nc:LongitudeDegreeValue>-180</nc:LongitudeDegreeValue>
                              <nc:LongitudeMinuteValue>0</nc:LongitudeMinuteValue>
                              <nc:LongitudeSecondValue>0</nc:LongitudeSecondValue>
                        </nc:GeographicCoordinateLongitude>
                  </nc:LocationTwoDimensionalGeographicCoordinate>
                  <nc:LocationUTMCoordinate/>
            </nc:OrganizationLocation>
            <nc:OrganizationName>String</nc:OrganizationName>
            <nc:OrganizationPrimaryContactInformation>
                  <nc:ContactWebsiteURI>http://www.altova.com</nc:ContactWebsiteURI>
            </nc:OrganizationPrimaryContactInformation>
            <nc:OrganizationPrincipalOfficial>
                  <nc:PersonCapability>

          <nc:CapabilityGeneralCategoryText>String</nc:CapabilityGeneralCategoryText>
                        <nc:CapabilityCategoryText>String</nc:CapabilityCategoryText>
                        <nc:CapabilityDescriptionText>String</nc:CapabilityDescriptionText>
                        <nc:CapabilityIsLimitationIndicator>true</nc:CapabilityIsLimitationIndicator>
                  </nc:PersonCapability>
                  <nc:PersonName>
```

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```
                              <nc:PersonNamePrefixText>String</nc:PersonNamePrefixText>
                              <nc:PersonGivenName>String</nc:PersonGivenName>
                              <nc:PersonMiddleName>String</nc:PersonMiddleName>
                              <nc:PersonSurName>String</nc:PersonSurName>
                              <nc:PersonNameSuffixText>String</nc:PersonNameSuffixText>
                              <nc:PersonMaidenName>String</nc:PersonMaidenName>
                              <nc:PersonFullName>String</nc:PersonFullName>
                      </nc:PersonName>
              </nc:OrganizationPrincipalOfficial>
              <nc:OrganizationStatus>
                      <nc:StatusDate>
                              <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                      </nc:StatusDate>
                      <nc:StatusDescriptionText>String</nc:StatusDescriptionText>
                      <nc:StatusIssuerIdentification>
                              <nc:IdentificationID>String</nc:IdentificationID>
                              <nc:IdentificationCategoryText>String</nc:IdentificationCategoryText>

      <nc:IdentificationCategoryDescriptionText>String</nc:IdentificationCategoryDescriptionText>
                              <nc:IdentificationEffectiveDate>
                                      <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                              </nc:IdentificationEffectiveDate>
                              <nc:IdentificationExpirationDate>
                                      <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                              </nc:IdentificationExpirationDate>
                              <nc:IdentificationJurisdictionText>String</nc:IdentificationJurisdictionText>
                      </nc:StatusIssuerIdentification>
              </nc:OrganizationStatus>
              <nc:OrganizationSubUnitName>String</nc:OrganizationSubUnitName>
              <nc:OrganizationTaxIdentification>
                      <nc:IdentificationID>String</nc:IdentificationID>
                      <nc:IdentificationCategoryText>String</nc:IdentificationCategoryText>

      <nc:IdentificationCategoryDescriptionText>String</nc:IdentificationCategoryDescriptionText>
                      <nc:IdentificationEffectiveDate>
                              <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                      </nc:IdentificationEffectiveDate>
                      <nc:IdentificationExpirationDate>
                              <nc:DateTime>2001-12-17T09:30:47Z</nc:DateTime>
                      </nc:IdentificationExpirationDate>
                      <nc:IdentificationJurisdictionText>String</nc:IdentificationJurisdictionText>
              </nc:OrganizationTaxIdentification>
      </nc:IncidentJurisdictionalOrganization>
      <nc:IncidentObservationText>String</nc:IncidentObservationText>
      <inc:SharedCoreName>String</inc:SharedCoreName>
      <inc:OwningCore>String</inc:OwningCore>
</inc:Incident>
```

18.2 Create Incident Request: Incident with point and polygon location

Note that this example creates a polygon as the area associated with the incident. The circle (which creates a point) shown in example 1 and this polygon allow you to form the necessary shapes defined by the NIEM Incident to represent the geospatial component of an incident and display it on a map.

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inc="http://uicds.org/IncidentManagementService" xmlns:inc1="http://uicds.org/incident">
  <soapenv:Header/>
  <soapenv:Body>
<ims:CreateIncidentRequest xmlns:as="http://uicds.org/AlertService"
xmlns:cap="urn:oasis:names:tc:emergency:cap:1.1" xmlns:ims="http://uicds.org/IncidentManagementService"
xmlns:inc="http://uicds.org/incident" xmlns:nc="http://niem.gov/niem/niem-core/2.0"
xmlns:nga="http://niem.gov/niem/nga/2.0" xmlns:niem-xsd="http://niem.gov/niem/proxy/xsd/2.0"
xmlns:p="urn:oasis:names:tc:emergency:EDXL:DE:1.0" xmlns:s="http://niem.gov/niem/structures/2.0"
xmlns:unece="http://niem.gov/niem/unece_rec20-misc/2.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:schemaLocation="http://uicds.org/IncidentManagementService
services\IncidentManagement\0.1\IncidentManagementService.xsd">
        <inc:Incident>
                <nc:ActivityCategoryText>CBRNE</nc:ActivityCategoryText>
                <nc:ActivityDate>
                        <nc:DateTime>2009-10-14T09:55:22</nc:DateTime>
                </nc:ActivityDate>
                <nc:ActivityDescriptionText>CoreB - used in CreateIncident
    </nc:ActivityDescriptionText>
                <nc:ActivityName>Really Terrible Incident</nc:ActivityName>
                <nc:IncidentLocation>
                        <nc:LocationAddress>
                                <nc:AddressFullText>4001 North Fairfax Drive, Arlington, VA 22203
        </nc:AddressFullText>
                        </nc:LocationAddress>
                        <nc:LocationArea>
                                <nc:AreaPolygonGeographicCoordinate>
                                        <nc:GeographicCoordinateLatitude>
                                                <nc:LatitudeDegreeValue>38</nc:LatitudeDegreeValue>
                                                <nc:LatitudeMinuteValue>47</nc:LatitudeMinuteValue>
                                                <nc:LatitudeSecondValue>59.95</nc:LatitudeSecondValue>
                                        </nc:GeographicCoordinateLatitude>
                                        <nc:GeographicCoordinateLongitude>
                                                <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
                                                <nc:LongitudeMinuteValue>17</nc:LongitudeMinuteValue>
                                                <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
                                        </nc:GeographicCoordinateLongitude>
                                </nc:AreaPolygonGeographicCoordinate>
                                <nc:AreaPolygonGeographicCoordinate>
                                        <nc:GeographicCoordinateLatitude>
                                                <nc:LatitudeDegreeValue>38</nc:LatitudeDegreeValue>
                                                <nc:LatitudeMinuteValue>47</nc:LatitudeMinuteValue>
                                                <nc:LatitudeSecondValue>50.00</nc:LatitudeSecondValue>
                                        </nc:GeographicCoordinateLatitude>
                                        <nc:GeographicCoordinateLongitude>
                                                <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
                                                <nc:LongitudeMinuteValue>5</nc:LongitudeMinuteValue>
                                                <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
                                        </nc:GeographicCoordinateLongitude>
                                </nc:AreaPolygonGeographicCoordinate>
                                <nc:AreaPolygonGeographicCoordinate>
                                        <nc:GeographicCoordinateLatitude>
                                                <nc:LatitudeDegreeValue>39</nc:LatitudeDegreeValue>
                                                <nc:LatitudeMinuteValue>0</nc:LatitudeMinuteValue>
                                                <nc:LatitudeSecondValue>0.005</nc:LatitudeSecondValue>
                                        </nc:GeographicCoordinateLatitude>
                                        <nc:GeographicCoordinateLongitude>
                                                <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
```

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```
                                <nc:LongitudeMinuteValue>5</nc:LongitudeMinuteValue>
                                <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
                        </nc:GeographicCoordinateLongitude>
                </nc:AreaPolygonGeographicCoordinate>
                <nc:AreaPolygonGeographicCoordinate>
                        <nc:GeographicCoordinateLatitude>
                                <nc:LatitudeDegreeValue>39</nc:LatitudeDegreeValue>
                                <nc:LatitudeMinuteValue>0</nc:LatitudeMinuteValue>
                                <nc:LatitudeSecondValue>0.005</nc:LatitudeSecondValue>
                        </nc:GeographicCoordinateLatitude>
                        <nc:GeographicCoordinateLongitude>
                                <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
                                <nc:LongitudeMinuteValue>17</nc:LongitudeMinuteValue>
                                <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
                        </nc:GeographicCoordinateLongitude>
                </nc:AreaPolygonGeographicCoordinate>
                <nc:AreaPolygonGeographicCoordinate>
                        <nc:GeographicCoordinateLatitude>
                                <nc:LatitudeDegreeValue>38</nc:LatitudeDegreeValue>
                                <nc:LatitudeMinuteValue>47</nc:LatitudeMinuteValue>
                                <nc:LatitudeSecondValue>50.00</nc:LatitudeSecondValue>
                        </nc:GeographicCoordinateLatitude>
                        <nc:GeographicCoordinateLongitude>
                                <nc:LongitudeDegreeValue>-77</nc:LongitudeDegreeValue>
                                <nc:LongitudeMinuteValue>17</nc:LongitudeMinuteValue>
                                <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
                        </nc:GeographicCoordinateLongitude>
                </nc:AreaPolygonGeographicCoordinate>
                <nc:AreaCircularRegion>
                        <nc:CircularRegionCenterCoordinate>
                                <nc:GeographicCoordinateLatitude>

    <nc:LatitudeDegreeValue>38</nc:LatitudeDegreeValue>
                                        <nc:LatitudeMinuteValue>17</nc:LatitudeMinuteValue>

    <nc:LatitudeSecondValue>50.00</nc:LatitudeSecondValue>
                                </nc:GeographicCoordinateLatitude>
                                <nc:GeographicCoordinateLongitude>
                                        <nc:LongitudeDegreeValue>-
77</nc:LongitudeDegreeValue>

    <nc:LongitudeMinuteValue>17</nc:LongitudeMinuteValue>

    <nc:LongitudeSecondValue>50.00</nc:LongitudeSecondValue>
                                </nc:GeographicCoordinateLongitude>
                        </nc:CircularRegionCenterCoordinate>
                        <nc:CircularRegionRadiusLengthMeasure>
                                <nc:MeasurePointValue>4.5</nc:MeasurePointValue>
                                <nc:LengthUnitCode>SMI</nc:LengthUnitCode>
                        </nc:CircularRegionRadiusLengthMeasure>
                </nc:AreaCircularRegion>
        </nc:LocationArea>
</nc:IncidentLocation>
<nc:IncidentJurisdictionalOrganization/>
<nc:IncidentObservationText/>
<inc:SharedCoreName/>
<inc:IncidentActionPlan/>
<inc:OwningCore/>
```

```
          </inc:Incident>
</ims:CreateIncidentRequest>
  </soapenv:Body>
  </soapenv:Envelope>
```

18.3 Expected Response: Incident with point and polygon location

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
      <SOAP-ENV:Header/>
      <SOAP-ENV:Body>
            <inc:CreateIncidentResponse xmlns:inc="http://uicds.org/IncidentManagementService">
                  <wor:WorkProductPublicationResponse
xmlns:wor="http://uicds.org/WorkProductService">
                        <str:WorkProductProcessingStatus
xmlns:str="http://www.saic.com/precis/2009/06/structures">
                              <base:Status
xmlns:base="http://www.saic.com/precis/2009/06/base">Accepted</base:Status>
                        </str:WorkProductProcessingStatus>
                        <str:WorkProduct xmlns:str="http://www.saic.com/precis/2009/06/structures">
                              <ulex:PackageMetadata xmlns:ulex="ulex:message:structure:1.0">
                                    <ulex:DataItemID>Incident-8cab37ec-9506-4825-ad49-
2f707dc1e70c</ulex:DataItemID>
                                    <ulex:DataItemReferenceID>Incident-8cab37ec-9506-4825-
ad49-2f707dc1e70c</ulex:DataItemReferenceID>
                                    <ns:DataItemStatus xmlns:ns="http://ucore.gov/ucore/2.0"
ns:code="Active" ns:codespace="http://uicds.org/1.0/codespace/workproduct/status" ns:label="UICDS Work
Product Status"/>
                                    <ulex:DataOwnerMetadata>
                                          <ns:DataOwnerIdentifier
xmlns:ns="http://ucore.gov/ucore/2.0">
                                                <ns1:Organization
xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">
                                                      <ns1:name>ucids.org</ns1:name>
                                                </ns1:Organization>
                                          </ns:DataOwnerIdentifier>
                                          <ns:DataOwnerContact
xmlns:ns="http://ucore.gov/ucore/2.0">
                                                <ns1:Organization
xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/">

      <ns1:name>http://uicds.us</ns1:name>
                                                </ns1:Organization>
                                          </ns:DataOwnerContact>
                                          <ulex:DataOwnerMetadataDomainAttribute>
                                                <ulex:DomainName>UICDS EM
Domain</ulex:DomainName>
                                          </ulex:DataOwnerMetadataDomainAttribute>
                                    </ulex:DataOwnerMetadata>
                                    <ns:DisseminationCriteria
xmlns:ns="http://ucore.gov/ucore/2.0"/>
                                    <str:WorkProductIdentification>
                                          <base:Identifier
xmlns:base="http://www.saic.com/precis/2009/06/base">Incident-8cab37ec-9506-4825-ad49-
2f707dc1e70c</base:Identifier>
                                          <base:Version
```

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xmlns:base="http://www.saic.com/precis/2009/06/base">1</base:Version>
<base:Type
xmlns:base="http://www.saic.com/precis/2009/06/base">Incident</base:Type>
<base:Checksum
xmlns:base="http://www.saic.com/precis/2009/06/base">Mon Jul 23 20:25:45 EDT
2012:1:5:1389833934</base:Checksum>
<base:State
xmlns:base="http://www.saic.com/precis/2009/06/base">Active</base:State>
</str:WorkProductIdentification>
<str:WorkProductProperties>
<base:Created
xmlns:base="http://www.saic.com/precis/2009/06/base">2012-07-23T20:25:45.843-04:00</base:Created>
<base:CreatedBy
xmlns:base="http://www.saic.com/precis/2009/06/base">morentzj@uicds-test2.saic.com</base:CreatedBy>
<base:LastUpdated
xmlns:base="http://www.saic.com/precis/2009/06/base">2012-07-23T20:25:45.843-04:00</base:LastUpdated>
<base:LastUpdatedBy
xmlns:base="http://www.saic.com/precis/2009/06/base">morentzj@uicds-
test2.saic.com</base:LastUpdatedBy>
<base:Kilobytes
xmlns:base="http://www.saic.com/precis/2009/06/base">5</base:Kilobytes>
<base:MimeType
xmlns:base="http://www.saic.com/precis/2009/06/base">application/uicds+xml</base:MimeType>
<base:AssociatedGroups
xmlns:base="http://www.saic.com/precis/2009/06/base">
<base:Identifier>IG-e506aedc-3bc7-4234-96cc-
bd519cab5480</base:Identifier>
</base:AssociatedGroups>
</str:WorkProductProperties>
</ulex:PackageMetadata>
<ucore:Digest xmlns:ucore="http://ucore.gov/ucore/2.0"
xmlns:ucoregml="http://www.opengis.net/gml/3.2" xmlns="http://ucore.gov/ucore/2.0"
xmlns:ns1="http://niem.gov/niem/niem-core/2.0" xmlns:ns="http://www.opengis.net/gml/3.2"
xmlns:inc="http://uicds.org/incident" xmlns:have="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0"
xmlns:ddms="http://metadata.dod.mil/mdr/ns/DDMS/2.0/" xmlns:geo-
oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis" xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3"
xmlns:gml="http://www.opengis.net/gml" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<ucore:Organization id="Organization-w1aab1a">
<ucore:What ucore:code="Organization"
ucore:codespace="http://ucore.gov/ucore/2.0/codespace/"/>
<ucore:Name>
<ucore:Value/>
</ucore:Name>
</ucore:Organization>
<ucore:Event id="Event-w1aab1a">
<ucore:Descriptor>CoreB - used in
CreateIncident</ucore:Descriptor>
<ucore:Identifier ucore:code="ActivityName"
ucore:codespace="http://niem.gov/niem/niem-core/2.0" ucore:label="ID">Really Terrible
Incident</ucore:Identifier>
<ucore:Identifier ucore:code="label"
ucore:codespace="http://uicds.us/identifier" ucore:label="Label">Really Terrible...</ucore:Identifier>
<ucore:SimpleProperty ucore:code="icon"
ucore:codespace="http://uicds.us/style"
ucore:label="Icon">../Icons/HWSGSymbology/Incidents/Blank_Incident_A.png</ucore:SimpleProperty>
<ucore:SimpleProperty ucore:code="color"
ucore:codespace="http://uicds.us/style" ucore:label="Color">red</ucore:SimpleProperty>
<ucore:SimpleProperty ucore:code="scalar"

ucore:codespace="http://uicds.us/style" ucore:label="Scalar">15</ucore:SimpleProperty>
                                        <ucore:What ucore:code="CBRNE"
ucore:codespace="http://ucore.gov/ucore/2.0/codespace/"/>
                        </ucore:Event>
                        <ucore:Location id="Location-w1aab1a">
                                <ucore:GeoLocation>
                                        <ucore:CircleByCenterPoint>
                                                <ns:CircleByCenterPoint numArc="1">
                                                        <ns:pos
srsName="EPSG:4326">38.29722, -77.29722</ns:pos>
                                                        <ns:radius
uom="SMI">4.5</ns:radius>
                                                </ns:CircleByCenterPoint>
   </ucore:CircleByCenterPoint>
                                </ucore:GeoLocation>
                                <ucore:GeoLocation>
                                        <ucore:Polygon>
                                                <ns:Polygon ns:id="Polygon-w1aab1a"
srsName="EPSG:4326">
                                                        <ns:exterior>
                                                                <ns:LinearRing>
                                                                        <ns:pos
srsName="EPSG:4326">38.79999, -77.29722</ns:pos>
                                                                        <ns:pos
srsName="EPSG:4326">38.79722, -77.09722</ns:pos>
                                                                        <ns:pos
srsName="EPSG:4326">39.00000, -77.09722</ns:pos>
                                                                        <ns:pos
srsName="EPSG:4326">39.00000, -77.29722</ns:pos>
                                                                        <ns:pos
srsName="EPSG:4326">38.79722, -77.29722</ns:pos>
                                                                </ns:LinearRing>
                                                        </ns:exterior>
                                                </ns:Polygon>
                                        </ucore:Polygon>
                                </ucore:GeoLocation>
                                <ucore:PhysicalAddress>
                                        <ddms:postalAddress>
                                                <ddms:street/>
                                                <ddms:city/>
                                                <ddms:state/>
                                                <ddms:postalCode/>
                                                <ddms:countryCode
ddms:qualifier="ISO 3166-1" ddms:value=""/>
                                        </ddms:postalAddress>
                                </ucore:PhysicalAddress>
                        </ucore:Location>
                        <ucore:OccursAt id="OccursAt-w1aab1a">
                                <ucore:Time>
                                        <ucore:TimeInstant>
                                                <ucore:Value>2012-07-
23T20:25:45.703-04:00</ucore:Value>
                                        </ucore:TimeInstant>
                                </ucore:Time>
   <ucore:EventRef ref="Event-w1aab1a"/>
                                <ucore:LocationRef ref="Location-w1aab1a"/>
                        </ucore:OccursAt>
                </ucore:Digest>

```
                    </str:WorkProduct>
                </wor:WorkProductPublicationResponse>
            </inc:CreateIncidentResponse>
        </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

18.4 View Incident Work Products in Google Earth™

1. Download Google Earth from http://www.google.com/earth/download/ge/agree.html

2. Use the Add menu item to add a Network Link. Select a name that will appear in the Places section of Google Earth.
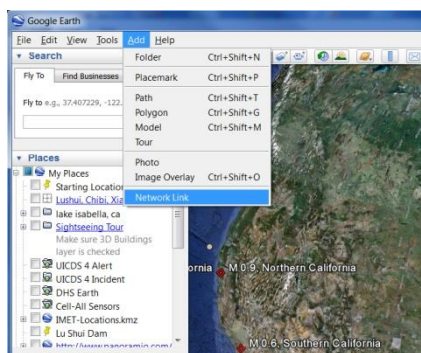
3. There are options to adding the network link
   a. Note: The local Pilot UICDS Core URL should be substituted for the "uicds-host4.saic.com" link shown in the URLs below.

   b. This is an example of a network link just for Incidents: https://uicds-host4.saic.com/uicds/pub/search?format=kml&productType=Incident

   c. You can add several UICDS Work Products to a single link making all of them display at once. This URL will get you UICDS Incidents and Alerts and Resources and Sensor Observations and Link Work Products of type text and html.   https://uicds-host3.saic.com/uicds/pub/search?productState=Active&productType=Incident&productType=Alert&productType=ResponseToRequestInformation&productType=SOI&productType=text/html&format=kml

4. Click the Refresh tab and select Periodically in the dropdown box. Select a time (minutes rather than seconds makes sense.)

5. Click OK.

6. You will be prompted to enter your access credentials to the UICDS Core named in the network link. (For the hosted UICDS test cores, these are the credentials you received when the Software User Agreement was signed and you have used them to download the UICDS Development Kit.)
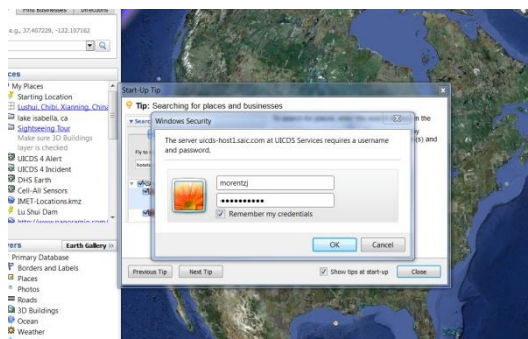
7. The network link name you entered will appear in the Places directory on the left.   Check the box to display content on the UICDS Core.

8. The link will refresh at the period you set. To force refresh, right click on the name and select refresh.

9. Navigate the tree below the link name by clicking on the + sign.

10. You can force the map to the location of any item shown in Places by double clicking on it.

Example Incidents in Google Earth

Below the results of posting the two example incidents, the Terrible Incident located toward the top of the map as a point and the Really Terrible Incident polygon showing the formatting of the text from the UICDS Work Product into a KML format.