



TM

Unified Incident Command Decision SupportTM (UICDS)TM

Quick Start Guide to the UICDS Map Service And Map Work Product

Release 3 for UICDS Version 1.2.x

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1.0 About This Quick Start Guide

The purpose of this Quick Start Guide is to enable providers of Geographic Information System (GIS) data to efficiently map their data to the UICDS Map Service in order to create, update, close, and archive map data shared through 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* and other *UICDS Quick Start Guides* which provide details on other UICDS services and work products. All guides 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.

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

- An overview of the Map Service including references to the Open Geospatial Consortium standards that are the basis of the UICDS Map 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 GIS applications and their corresponding UICDS data element names that can guide the mapping of an application to the work product
- Example of the XML document for posting (including the SOAP envelope) the following map products
 - a. Map View Context Work Product
 - b. Feature Work Product
 - c. Shapefile-originated Work Product
- Example of how to associate the Map Work Product with an incident
- Example of the response received after successfully posting the XML document
- A quick, proof-of-concept method for posting the XML document
- The UICDS Map 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.
- Three methods for retrieving or inspecting the UICDS Map Work Product to validate it, including programmatically, using the UICDS Console, and an external look at the results of the work product using Google Earth™
- Best Practices for that Pesky “Other” Data
- Link to the Map Service WSDL

2.0 Map Service Overview

The UICDS Map Service provides a means for interacting with an UICDS core to manage map related resources. The service allows UICDS compatible client applications to associate GIS information with a UICDS incident and to view GIS information that has been provided by other UICDS clients. This allows clients to obtain geospatial data in standard formats from the originating source application in order to create map visualizations using the clients own geospatial application.

The Map Service defines Layer and Map resources and collections of these resources. This model is based on the Open Geospatial Consortium (OGC) Web Map Context specification. The operations consist of creating, retrieving, updating, and deleting these resources.

The Map Service manages geospatial information UICDS of the following types:

- "MapViewContext" uses the OGC Map Context document as the basis for the MapViewContext Work Product to direct the client application to a set of layer data.
- The Feature Work Product adds geospatial features that are associated with an incident/Interest Group
- Shapefile is an ESRI® format that can be ingested into UICDS and associated with an incident/Interest Group

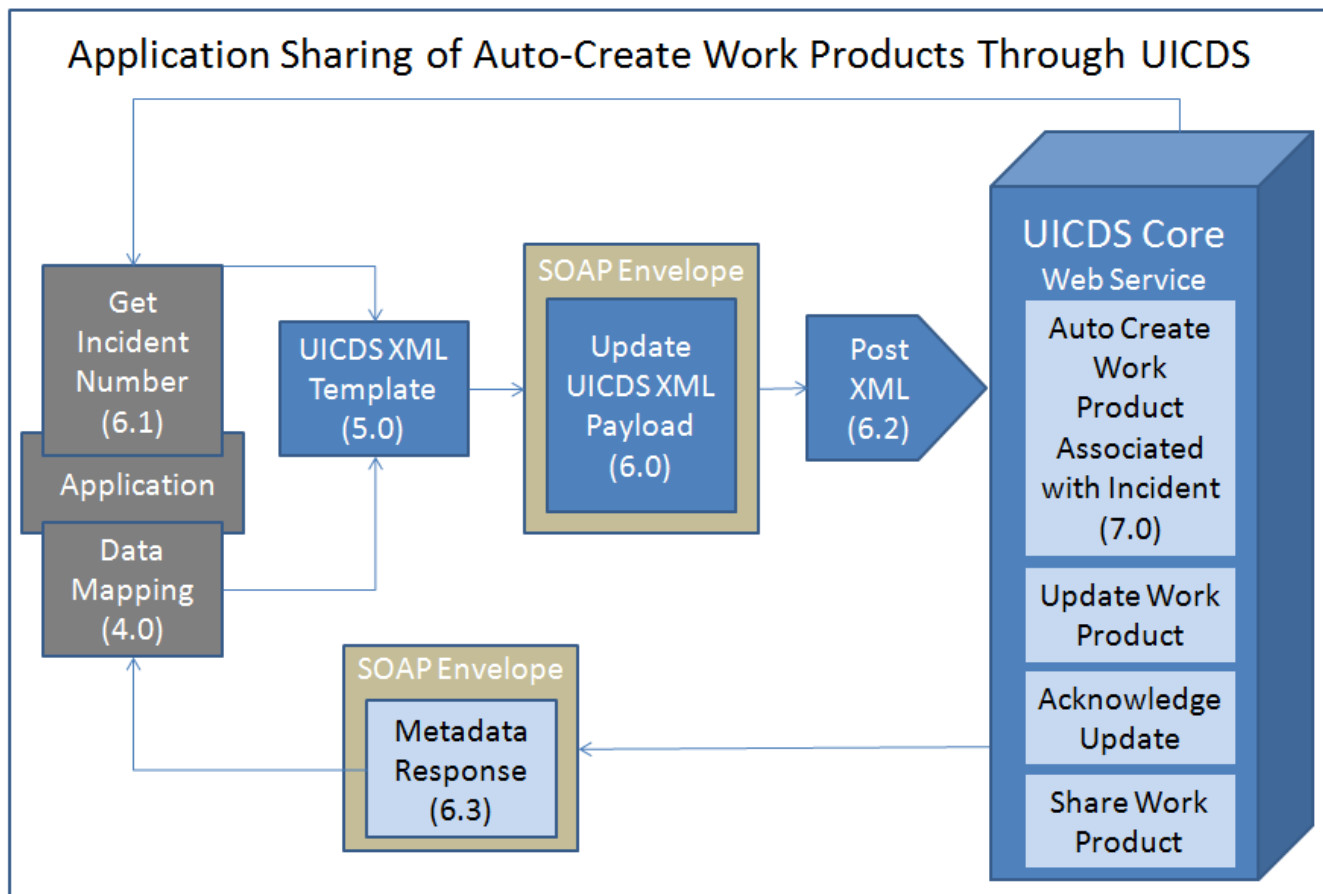
The MapViewContext UICDS Work Product is automatically created and associated with the Incident when an incident is created. Operationally, the Incident Work Product in UICDS is the beginning of the "UICDS Tree of Incident Knowledge." Technically,, the MapViewContext Work Product is always automatically "associated" with the same Interest Group as the Incident Work Product at the time of the creation of the Incident. This will be described in sections below.

The required and optional data elements for the MapViewContextWork Product associated with the Map Service are described below.

Work Product	MapViewContext Work Product Data (Geospatial Data)
Standard	WMS 1.3.0, WFS 1.1, GML, OGC Web Map Context 1.1.0
Reference	http://portal.opengeospatial.org/files/?artifact_id=8618 http://schemas.opengis.net/wms/ http://portal.opengeospatial.org/files/?artifact_id=8339 http://portal.opengeospatial.org/files/?artifact_id=20555 http://schemas.opengis.net/gml/
Required Data	Title Bounding Box Incident
Optional Data	Abstract Description Incident Name/Number (for association)

	LayerList (any number of Layers consisting of data elements shown below)
LayerList Required Data	Online Resource (OGC Web Map Service or OGC Web Feature Service URL or other URL) SRS Layer Name Layer Title Layer Abstract Format Server Name Server Title Version

3.0 Application Interactions with the UICDS Map 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. The Map Work Product differs from most other work products because it is automatically created at the time of the creation of an incident. Thus, the application only updates Map Work Products. This exchange consists of several steps. First, an application maps its data to the UICDS XML data element structure (Section 4). Second, an application obtains the Associated Interest Group/Work Product Identifier which it uses to uniquely identify the Map Work Product it wishes to update (Section 6.1). The application data is then inserted into the UICDS XML Template data elements (Section 5) to form the Payload, an XML document that will become part of the Work Product. The 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 (Section 6.3) and a Work Product is created (7.0). The Work Product is acknowledged through a SOAP response back to the sender with Metadata for the work product (Section 6.6).

Details of these steps follow.

4.0 Mapping Your Data to the UICDS MapViewContext Work Product

The following table shows the common name of the data element as often used in GIS applications in the first column. The second column is the Open Geospatial Consortium data element name contained in the UICDS MapViewContext Work Product schema (shown below). The third column is blank in order to map your application to the UICDS MapViewContext Work Product.

UICDS Common Name	UICDS Data Element	Map Your Data
Title	<wmc:Title>	
Bounding Box	<wmc:BoundingBox>	
Keyword	<wmc:KeywordList> <wmc:Keyword>	
Incident	<map:IncidentId>	
Abstract	<wmc:Abstract>	
Incident Name	<wmc:IncidentName>	
LayerList (includes one or more sets of Layer Data Elements below)		
Layer OnlineResource (OGC Web Map Service or OGC Web Feature Service URL or other URL)	<con:OnlineResource>	
Layer Name	<con:Name>	
Layer Title	<con:Title>	
Layer Abstract	<abstract>	
Format of data	<format>	
SRS	<SRS>	
Server Name	<Server>	
Server Title	<Title>	
Version	<Version>	

5.0 Automatically Created MapViewContext Work Product Example

An example MapViewContext work product is shown below. This example shows the default map that is created for each incident. It contains two layers, one is a base map (title: Metacarta) and one is a WMS layer (title: UICDS Core Map Service).

EPSG 4326 is the recommended SRS for layers that are used with UICDS. The UICDS core does not access these layers so any type of Service or SRS that aligns with the OGC MapViewContext specification can be added by clients. It is up to the clients that receive the MapViewContext work products to be able to interpret and render the maps and layers.

As clients add layers to a MapViewContext Work Product they should set the BoundingBox value to properly cover the extent of features that are renderable in the layers to the correct bounding box for the incident.

```
<str:WorkProduct xmlns:str="http://www.saic.com/precis/2009/06/structures">
  <ulex:PackageMetadata xmlns:ulex="ulex:message:structure:1.0">
    <ulex:DataItemID>MapViewContext-2e043d06-8466-484f-baa9-90fc68fc2376</ulex:DataItemID>
    <ulex:DataItemReferenceID>MapViewContext-2e043d06-8466-484f-baa9-
90fc68fc2376</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>uicds.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">MapViewContext-2e043d06-
8466-484f-baa9-90fc68fc2376</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">MapViewContext</base:Type>
      <base:Checksum xmlns:base="http://www.saic.com/precis/2009/06/base">Fri Sep 21 13:52:28 EDT
2012:1:1:1085180100</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">2012-09-21T13:52:28.375-
04:00</base:Created>
      <base:CreatedBy xmlns:base="http://www.saic.com/precis/2009/06/base">uicds@uicds-
test2.saic.com</base:CreatedBy>
      <base:LastUpdated xmlns:base="http://www.saic.com/precis/2009/06/base">2012-09-
21T13:52:28.375-04:00</base:LastUpdated>
```



```

    <base:LastUpdatedBy xmlns:base="http://www.saic.com/precis/2009/06/base">uicds@uicds-
test2.saic.com</base:LastUpdatedBy>
    <base:Kilobytes xmlns:base="http://www.saic.com/precis/2009/06/base">1</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-b4963d16-a067-4f3b-b2d1-e1d07c502153</base:Identifier>
    </base:AssociatedGroups>
  </str:WorkProductProperties>
</ulex:PackageMetadata>
<ulex:StructuredPayload xmlns:ulex="ulex:message:structure:1.0">
  <ulex:StructuredPayloadMetadata>
    <ulex:CommunityURI>MapViewContext</ulex:CommunityURI>
    <ulex:CommunityVersion/>
  </ulex:StructuredPayloadMetadata>
  <wmc:ViewContext id="MapViewContext-2e043d06-8466-484f-baa9-90fc68fc2376" version="1.1.0"
xmlns:wmc="http://www.opengis.net/context" 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">
    <wmc:General>
      <wmc:Window height="500" width="600"/>
      <wmc:BoundingBox SRS="EPSG:4326" maxx="-77.42522500000001"
maxy="37.535487499999995" minx="-77.42522500000001" miny="37.535487499999995"/>
      <wmc:Title>Default Map for Incident 'IG-b4963d16-a067-4f3b-b2d1-e1d07c502153'</wmc:Title>
      <wmc:KeywordList>
        <wmc:Keyword>Default Map</wmc:Keyword>
        <wmc:Keyword>IG-b4963d16-a067-4f3b-b2d1-e1d07c502153</wmc:Keyword>
        <wmc:Keyword>UICDS</wmc:Keyword>
      </wmc:KeywordList>
      <wmc:Abstract>Default map for incident with id 'IG-b4963d16-a067-4f3b-b2d1-
e1d07c502153'</wmc:Abstract>
    </wmc:General>
    <wmc:LayerList>
      <wmc:Layer hidden="false" queryable="false">
        <wmc:Server service="OGC:WMS" title="Metacarta" version="1.1.0">
          <wmc:OnlineResource xlink:href="http://labs.metacarta.com/wms/vmap0"
xmlns:xlink="http://www.w3.org/1999/xlink"/>
        </wmc:Server>
        <wmc:Name>basic</wmc:Name>
        <wmc:Title>Base Map</wmc:Title>
        <wmc:SRS>EPSG:4326</wmc:SRS>
      </wmc:Layer>
      <wmc:Layer hidden="false" queryable="false">
        <wmc:Server service="OGC:WMS" title="UICDS Core Map Service" version="1.1.0">
          <wmc:OnlineResource xlink:href="https://uicds-test2.saic.com/uicds/api/IG-b4963d16-a067-
4f3b-b2d1-e1d07c502153/features?" xmlns:xlink="http://www.w3.org/1999/xlink"/>
        </wmc:Server>
        <wmc:Title>Incident Features</wmc:Title>
        <wmc:SRS>EPSG:4326</wmc:SRS>
      </wmc:Layer>
    </wmc:LayerList>
  </wmc:ViewContext>
</ulex:StructuredPayload>
</str:WorkProduct>

```


6.0 Using the Map Service

There are numerous interactions with the Map Service to produce different types of geospatial payloads. Below we will provide examples to:

- Add a new layer to the default incident MapViewContext Work Product
- Get the default map's context file
- Add a shape file to the default map
- Add a feature to the default map
- Close and Archive the feature

For each of these examples, the basic process consists of mapping your data into the Payload, including the AssociatedGroup/Identifier with the Payload Template (Section 6.1), wrapping the Payload (containing the application data) in a SOAP envelope (Section 6.2), and submitting the XML document to the Map Service by posting the document (Section 6.3).

6.1 Associating a Work Product with an Incident Work Product

The MapViewContext Work Product is created automatically and associated with the incident when an incident is created.. This is how the “UICDS Tree of Incident Knowledge” is developed. This enables GIS applications to submit their relevant data to UICDS and UICDS then manages that content by associating data with an incident.

The IG number is the unique value contained in an Incident Work Product that allows other work product to be associated with the incident. The IG number, or AssociatedGroup/Identifier, is formatted with “IG-” prefix and followed by a suffix of randomly generated characters and numbers. An example of the IG number looks like this: IG-e0051cbc-aea5-4a9f-977a-915a3a7db7a7. The IG number is returned from UICDS in the following ways:

- When an incident is submitted, the response contains the AssociatedGroup/Identifier as the IG number in a statement like this:

```
<base:AssociatedGroups xmlns:base="http://www.saic.com/precis/2009/06/base">
  <base:Identifier>IG-3ad1df44-6b85-48af-a1ac-bef5b56f7cdd</base:Identifier>
```

- To associate the Work Product with an incident, the IG number is placed in the Template (Section 5, above) in the incidentId, as shown below:

```
<ns1:incidentId>IG-e0051cbc-aea5-4a9f-977a-915a3a7db7a7</ns1:incidentId> This generated
```

IG number will be used in associations and to update the Map Work Product as described in the following sections.

6.2 Wrapping the Payload in a SOAP Envelope

In the examples below, the payload data that carries the external application data is depicted in black. In each case, the payload is wrapped in a SOAP envelope for submission to the UICDS Core. Below are the SOAP envelope instructions to connect to the Map Service.

```
soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:map="http://uicds.org/MapService"
  xmlns:con="http://www.opengis.net/context"
  xmlns:xlink="http://www.w3.org/1999/xlink">
  <soapenv:Header />
  <soapenv:Body>
    <..... Map Payload XML Document .....>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

6.3 Location of the Map Service

The Map Service can be found at the following URL:

```
https://<FQDN>/uicds/core/ws/services/MapService
```

Where “<FQDN>” is your Fully Qualified Domain Name of the UICDS Core and you are connected to a network. If the UICDS Core was installed on your computer, replace <https://<FQDN>> with <http://localhost>.

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

<https://uicds-test2.saic.com/uicds/core/ws/services/MapService>

6.4 Quick Test Posting of the UICDS 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 a work product. In Section 12 you will find links to *example code* to develop your own posting software code. Section 12 contains an outline of the example code, its functioning, and a summary of the use of the relevant example code for the Map Service.

There is a manual method of posting UICDS Work Products that you might want to use to see a proof of concept and test core connectivity. *Note that 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 data that you post to the UICDS Core using this manual, test method.

6.5 Get the Current Default MapViewContext

Below is an example XML Map document, wrapped in SOAP, for posting to the Map Service to get the MapViewContext Work Product, basic document that contains the Map Layers.

```
<?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>
    <m:GetMapsRequest
      xmlns:m="http://uicds.org/MapService">
      <m:IncidentId>IG-5178b812-298b-4330-9a66-2056636f5baf</m:IncidentId>
    </m:GetMapsRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

6.6 Expected Response from Map Service

When the Map Context request is successfully posted to a UICDS Core, the core returns an XML document that contains all information about the UICDS map associated with a specific incident including the bounding box and all layers that have been associated with that map.

```
<?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>
    <map:GetMapsResponse
      xmlns:map="http://uicds.org/MapService">
      <str:WorkProduct
        xmlns:str="http://www.saic.com/precis/2009/06/structures">
        <ulex:PackageMetadata
          xmlns:ulex="ulex:message:structure:1.0">
          <ulex:DataItemID>MapViewContext-03ec3b5c-d046-4c3b-b7b2-b1528ac7250b</ulex:DataItemID>
          <ulex:DataItemReferenceID>MapViewContext-03ec3b5c-d046-4c3b-b7b2-
b1528ac7250b</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>uicds.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">MapViewContext-03ec3b5c-d046-
4c3b-b7b2-b1528ac7250b</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">MapViewContext</base:Type>
  <base:Checksum
    xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 14:55:01 MDT
2012:1:1:4226425529</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">2012-10-03T14:55:01.355-
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">2012-10-03T14:55:01.355-
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">1</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-5178b812-298b-4330-9a66-2056636f5baf</base:Identifier>
  </base:AssociatedGroups>
</str:WorkProductProperties>
</ulex:PackageMetadata>
<ulex:StructuredPayload
  xmlns:ulex="ulex:message:structure:1.0">
  <ulex:StructuredPayloadMetadata>
    <ulex:CommunityURI>MapViewContext</ulex:CommunityURI>
    <ulex:CommunityVersion />
  </ulex:StructuredPayloadMetadata>
  <wmc:ViewContext
    xmlns:wmc="http://www.opengis.net/context"
    xmlns="http://www.saic.com/precis/2009/06/structures"
    xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/"
    xmlns:ns="http://ucore.gov/ucore/2.0"
    xmlns:base="http://www.saic.com/precis/2009/06/base"
    id="MapViewContext-03ec3b5c-d046-4c3b-b7b2-b1528ac7250b"
    version="1.1.0">
  <wmc:General>

```

```

    <wmc:Window
      height="500"
      width="600" />
    <wmc:BoundingBox
      SRS="EPSG:4326"
      maxx="-76.29722222222222"
      maxy="39.29722222222222"
      minx="-78.29722222222222"
      miny="37.29722222222222" />
    <wmc:Title>Default Map for Incident 'IG-5178b812-298b-4330-9a66-
2056636f5baf' </wmc:Title>
    <wmc:KeywordList>
      <wmc:Keyword>Default Map</wmc:Keyword>
      <wmc:Keyword>IG-5178b812-298b-4330-9a66-2056636f5baf</wmc:Keyword>
      <wmc:Keyword>UICDS</wmc:Keyword>
    </wmc:KeywordList>
    <wmc:Abstract>Default map for incident with id 'IG-5178b812-298b-4330-9a66-
2056636f5baf' </wmc:Abstract>
  </wmc:General>
  <wmc:LayerList>
    <wmc:Layer
      hidden="false"
      queryable="false">
      <wmc:Server
        service="OGC:WMS"
        title="Metacarta"
        version="1.1.0">
        <wmc:OnlineResource
          xmlns:xlink="http://www.w3.org/1999/xlink"
          xlink:href="http://labs.metacarta.com/wms/vmap0" />
        </wmc:Server>
        <wmc:Name>basic</wmc:Name>
        <wmc:Title>Base Map</wmc:Title>
        <wmc:SRS>EPSG:4326</wmc:SRS>
      </wmc:Layer>
      <wmc:Layer
        hidden="false"
        queryable="false">
        <wmc:Server
          service="OGC:WMS"
          title="UICDS Core Map Service"
          version="1.1.0">
          <wmc:OnlineResource
            xmlns:xlink="http://www.w3.org/1999/xlink"
            xlink:href="https://9zwgns1/uicds/api/IG-5178b812-298b-4330-9a66-
2056636f5baf/features?" />
          </wmc:Server>
          <wmc:Title>Incident Features</wmc:Title>
          <wmc:SRS>EPSG:4326</wmc:SRS>
        </wmc:Layer>
      </wmc:LayerList>
    </wmc:ViewContext>
  </ulex:StructuredPayload>
</str:WorkProduct>
</map:GetMapsResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

7.0 Updating the MapViewContext Work Product to Add a Layer

Below is an example XML document, wrapped in SOAP, for updating the MapViewContext Work Product on a UICDS Core through the Map Service that will add a new layer (xml segment in **violet** color) to the default incident map. Practically speaking, what this does is provide the URL pointer to the external web service that will provide the layer in the LayerList. This is an example that can be used to add any layer payload (shown in black) to the MapViewContext Work Product.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:map="http://uicds.org/MapService" xmlns:con="http://www.opengis.net/context"
xmlns:str="http://www.saic.com/precis/2009/06/structures"
xmlns:base="http://www.saic.com/precis/2009/06/base">
  <soapenv:Header/>
  <soapenv:Body>
    <map:UpdateMapRequest>
      <str:WorkProductIdentification>
        <base:Identifier xmlns:base="http://www.saic.com/precis/2009/06/base">MapViewContext-e586780d-
da0a-42af-a785-32c57d998313</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">MapViewContext</base:Type>
        <base:Checksum xmlns:base="http://www.saic.com/precis/2009/06/base">Mon Jul 08 09:18:27 EDT
2013:1:1:829119317</base:Checksum>
        <base:State xmlns:base="http://www.saic.com/precis/2009/06/base">Active</base:State>
      </str:WorkProductIdentification>
      <map:incidentId/>
      <wmc:ViewContext id="MapViewContext-e586780d-da0a-42af-a785-32c57d998313"
version="1.1.0" xmlns:wmc="http://www.opengis.net/context"
xmlns="http://www.saic.com/precis/2009/06/structures" xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/"
xmlns:ns="http://ucore.gov/ucore/2.0" xmlns:base="http://www.saic.com/precis/2009/06/base">
        <wmc:General>
          <wmc:Window height="500" width="600"/>
          <wmc:BoundingBox SRS="EPSG:4326" maxx="-72.53987777777778" maxy="43.42417222222222"
minx="-81.53987777777778" miny="34.42417222222222"/>
          <wmc:Title>Default Map for Incident 'IG-8705ecd8-ce56-448e-b4df-bae9cb2a1dc9'</wmc:Title>
          <wmc:KeywordList>
            <wmc:Keyword>Default Map</wmc:Keyword>
            <wmc:Keyword>IG-8705ecd8-ce56-448e-b4df-bae9cb2a1dc9</wmc:Keyword>
            <wmc:Keyword>UICDS</wmc:Keyword>
          </wmc:KeywordList>
          <wmc:Abstract>Default map for incident with id 'IG-8705ecd8-ce56-448e-b4df-
bae9cb2a1dc9'</wmc:Abstract>
        </wmc:General>
        <wmc:LayerList>
          <wmc:Layer hidden="false" queryable="false">
            <wmc:Server service="OGC:WMS" title="Metacarta" version="1.1.0">
              <wmc:OnlineResource xlink:href="http://labs.metacarta.com/wms/vmap0"
xmlns:xlink="http://www.w3.org/1999/xlink"/>
            </wmc:Server>
            <wmc:Name>basic</wmc:Name>
            <wmc:Title>Base Map</wmc:Title>
            <wmc:SRS>EPSG:4326</wmc:SRS>
          </wmc:Layer>
          <wmc:Layer hidden="false" queryable="false">
            <wmc:Server service="OGC:WMS" title="UICDS Core Map Service" version="1.1.0">
```

```

    <wmc:OnlineResource xlink:href="https://10.57.7.170/uicds/api/IG-8705ecd8-ce56-448e-b4df-
bae9cb2a1dc9/features?" xmlns:xlink="http://www.w3.org/1999/xlink"/>
    </wmc:Server>
    <wmc:Title>Incident Features</wmc:Title>
    <wmc:SRS>EPSG:4326</wmc:SRS>
  </wmc:Layer>
  <wmc:Layer hidden="false" queryable="false">
    <wmc:Server service="OGC:WMS" title="My Map Server" version="1.1.0">
      <wmc:OnlineResource xlink:href="http://uicds.MyURL.com"
xmlns:xlink="http://www.w3.org/1999/xlink"/>
    </wmc:Server>
    <wmc:Name>New Layer Name</wmc:Name>
    <wmc:Title>New Layer Title</wmc:Title>
    <wmc:Format>png</wmc:Format>
    <wmc:SRS>EPSG:4326</wmc:SRS>
  </wmc:Layer>
</wmc:LayerList>
</wmc:ViewContext>
</map:UpdateMapRequest>
</soapenv:Body>
</soapenv:Envelope>

```

7.1 Expected Response from Map Service for Update MapViewContext

When the XML template 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 Map Work Product Metadata that will allow you to later update, close, and archive the work product.

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <map:UpdateMapResponse xmlns:map="http://uicds.org/MapService">
      <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>MapViewContext-e586780d-da0a-42af-
a785-32c57d998313</ulex:DataItemID>
            <ulex:DataItemReferenceID>MapViewContext-e586780d-
da0a-42af-a785-32c57d998313</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://ucids.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">MapViewContext-e586780d-da0a-42af-a785-
32c57d998313</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">MapViewContext</base:Type>
                                <base:Checksum
xmlns:base="http://www.saic.com/precis/2009/06/base">Mon Jul 08 09:29:16 EDT
2013:2:2:890443415</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">2013-07-08T09:18:27.760-04:00</base:Created>
                                <base:CreatedBy
xmlns:base="http://www.saic.com/precis/2009/06/base">admin@10.57.7.170</base:CreatedBy>
                                <base:LastUpdated
xmlns:base="http://www.saic.com/precis/2009/06/base">2013-07-08T09:29:16.683-04:00</base:LastUpdated>
                                <base:LastUpdatedBy
xmlns:base="http://www.saic.com/precis/2009/06/base">admin@10.57.7.170</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/ucids+xml</base:MimeType>
                                <base:AssociatedGroups
xmlns:base="http://www.saic.com/precis/2009/06/base">
                                <base:Identifier>IG-8705ecd8-ce56-448e-b4df-
bae9cb2a1dc9</base:Identifier>
                                </base:AssociatedGroups>
                                </str:WorkProductProperties>
                                </ulex:PackageMetadata>
                                </str:WorkProduct>
                                </wor:WorkProductPublicationResponse>
                                </map:UpdateMapResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

8.0 WorkProductIdentification to Select a Specific Work Product

Any changes to a work product (Update, Close and 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 the following fields found in the WorkProductIdentification element:

- Identifier which provides a unique reference to the work product. 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.
- Version which indicates the current working revision number of the work product.
- Type which indicates the “kind” of work product this is. Each service deals with a unique type. Arbitrary types can be managed directly via the Work Product Service. Checksum provides a unique check for versioned documents to enable multiple cores to update documents and stay in sync.

WorkProductIdentification is available from:

- Response to the CreateIncident
- Received in a Notification
- GetProductCurrentVersion Request

```
...
<preciss:WorkProductIdentification>
  <precisb:Identifier>Map-16f3bd7c-a63a-48d6-9fa2-140c9d7ab687</precisb:Identifier>
  <precisb:Version>1</precisb:Version>
  <precisb:Type>Map</precisb:Type>
  <precisb:Checksum>Mon Oct 01 14:35:39 MDT 2012:1:1:2704658747</precisb:Checksum>
  <precisb:State>Active</precisb:State>
</preciss:WorkProductIdentification>...
```

8.1 Get Work Product Current Version

The current version of a work product can be obtained via the Work Product Service by submitting a GetProductCurrentVersionRequest as 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>
    <wp:GetProductCurrentVersionRequest
      xmlns:wp="http://uicds.org/WorkProductService"
      xmlns:preciss="http://www.saic.com/precis/2009/06/structures"
      xmlns:precisb="http://www.saic.com/precis/2009/06/base">
      <precisb:Identifier> MapViewContext-3836a7e3-7e06-460e-829e-1aec61d1cbdc
    </precisb:Identifier>
    </wp:GetProductCurrentVersionRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

9.0 Response to Get Work Product Current Version

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <wor:GetProductCurrentVersionResponse xmlns:wor="http://uicds.org/WorkProductService">
      <str:WorkProduct xmlns:str="http://www.saic.com/precis/2009/06/structures">
        <ulex:PackageMetadata xmlns:ulex="ulex:message:structure:1.0">
          <ulex:DataItemID>MapViewContext-3836a7e3-7e06-460e-829e-
1aec61d1cbdc</ulex:DataItemID>
          <ulex:DataItemReferenceID>MapViewContext-3836a7e3-7e06-460e-
829e-1aec61d1cbdc</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">MapViewContext-3836a7e3-7e06-460e-829e-
1aec61d1cbdc</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">MapViewContext</base:Type>
              <base:Checksum
xmlns:base="http://www.saic.com/precis/2009/06/base">Sat Oct 06 13:27:07 EDT
2012:1:1:2210413609</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">2012-10-06T13:27:07.515-04:00</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">2012-10-06T13:27:07.515-04:00</base:LastUpdated>
            </str:WorkProductProperties>
          </ns:DisseminationCriteria>
        </ulex:PackageMetadata>
      </str:WorkProduct>
    </wor:GetProductCurrentVersionResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

```

</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">1</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>
<ulex:StructuredPayload xmlns:ulex="ulex:message:structure:1.0">
<ulex:StructuredPayloadMetadata>
<ulex:CommunityURI>MapViewContext</ulex:CommunityURI>
<ulex:CommunityVersion/>
</ulex:StructuredPayloadMetadata>
<wmc:ViewContext xmlns:wmc="http://www.opengis.net/context"
xmlns="http://www.saic.com/precis/2009/06/structures" xmlns:ns1="http://metadata.dod.mil/ns/DDMS/2.0"
xmlns:ns="http://ucore.gov/ucore/2.0" xmlns:base="http://www.saic.com/precis/2009/06/base"
id="MapViewContext-3836a7e3-7e06-460e-829e-1aec61d1cbdc" version="1.1.0">
<wmc:General>
<wmc:Window height="500" width="600"/>
<wmc:BoundingBox SRS="EPSG:4326" maxx="-
76.29722222222222" maxy="39.29722222222222" minx="-78.29722222222222" miny="37.29722222222222"/>
<wmc:Title>Default Map for Incident 'IG-60be918b-
2405-4d78-ae4e-13691cd0d79e'</wmc:Title>
<wmc:KeywordList>
<wmc:Keyword>Default Map</wmc:Keyword>
<wmc:Keyword>IG-60be918b-2405-4d78-ae4e-
13691cd0d79e</wmc:Keyword>
<wmc:Keyword>UICDS</wmc:Keyword>
</wmc:KeywordList>
<wmc:Abstract>Default map for incident with id 'IG-
60be918b-2405-4d78-ae4e-13691cd0d79e'</wmc:Abstract>
</wmc:General>
<wmc:LayerList>
<wmc:Layer hidden="false" queryable="false">
<wmc:Server service="OGC:WMS"
title="Metacarta" version="1.1.0">
xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://labs.metacarta.com/wms/vmap0"/>
</wmc:Server>
<wmc:Name>basic</wmc:Name>
<wmc:Title>Base Map</wmc:Title>
<wmc:SRS>EPSG:4326</wmc:SRS>
</wmc:Layer>
<wmc:Layer hidden="false" queryable="false">
<wmc:Server service="OGC:WMS" title="UICDS
Core Map Service" version="1.1.0">
xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="https://uicds-test2.saic.com/uicds/api/IG-60be918b-2405-
4d78-ae4e-13691cd0d79e/features?"/>
</wmc:Server>
<wmc:Title>Incident Features</wmc:Title>
<wmc:SRS>EPSG:4326</wmc:SRS>
</wmc:Layer>

```

```

        </wmc:LayerList>
      </wmc:ViewContext>
    </ulex:StructuredPayload>
  </str:WorkProduct>
</wor:GetProductCurrentVersionResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

10.0 Best Practices for the UICDS Map Service

Three best practices are employed in the Map Service, specifically in using the OGC Map Context document: Formats allowed in the Layer, Bounding Box, and data formatting for display in the UICDS KML feed.

10.1 Format Notations for <Format> Data Element in Layer

The OGC Map Context was originally designed to support Web Mapping Service and Web Feature Service formats. With the advent of other geospatial information formats, UICDS best practice (and the best practice of geospatial map servers) allows additional formats to be employed. Those are:

Format	Syntax
PNG	format=image/png
PNG8	format=image/png8
JPEG	format=image/jpeg
GIF	format=image/gif
TIFF	format=image/tiff
TIFF8	format=image/tiff8
GeoTIFF	format=image/geotiff
GeoTIFF8	format=image/geotiff8
SVG	format=image/svg
PDF	format=application/pdf
GeoRSS	format=rss
KML	format=kml
KMZ	format=kmz
OpenLayers	format=application/openlayers
REST	format=rest
GeoJSON	format=geojson

Reference (except for REST and GeoJSON):

<http://docs.geoserver.org/latest/en/user/services/wms/outputformats.html>

10.2 Bounding Box

The bounding box of the MapViewContext Work Product for the default map is automatically generated based on the location of the incident when an incident is created. As layers are added to the MapViewContext Work Product, it is the responsibility of the client to update the bounding box.

10.3 Best Practices Composing KML Viewable Data

To accomplish formatting within the MapViewContext Work Product that can be digested and displayed on KML-based viewers, UICDS has created a “best practice.” 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 such data 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, the following HTML formatting should be used as a best practice.

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

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

11.0 Guide to Example Code for Updating MapViewContext Work Product

A java code example for updating MapViewContext Work Product can be found in the WorkProductSubmitter software. The Work Product Submitter is a GUI utility to allow users to select a specific incident on the core and submit a Binary Work Product, a Shape file, a Link Work Product and add a layer to the MapViewContext Work Product to the selected incident. For the purpose of this Quick Start Guide, only the code of adding a layer to the MapViewContext Work Product is described in this section.

The example code directory tree structure is illustrated in Figure 1 and shows how to find the code summarized in the following sections. Also refer to UICDS TechNote – Adapter 101 and Example Code for basic UICDS adapter concept and guidance (available at <http://uicds.kzoplatform.com/swf/player/1392/chapter:1118>).

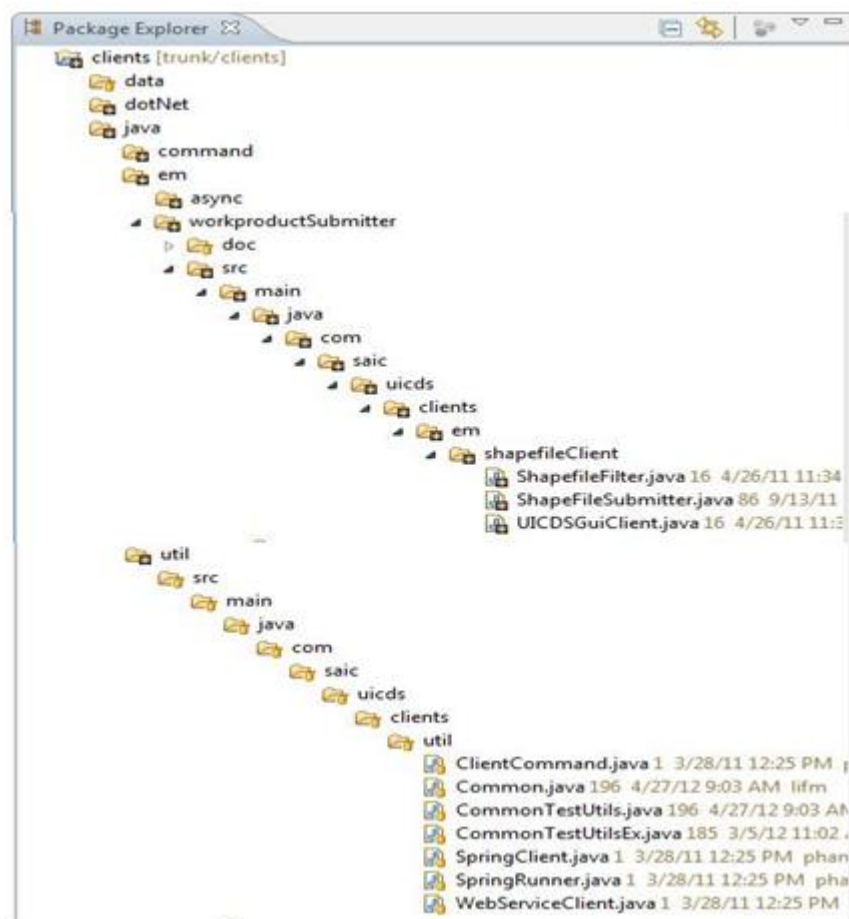


Figure 1 Work Product Submitter example code directory tree

11.1 Location of the Code and Build

The original Work Product Submitter is part of the Java example code that is available for download on UICDS Distributions site <https://uicds-test5.saic.com> . The Work Product Submitter code is in clients\java\em\workProductSubmitter as shown in the directory tree above. To build the code, follow the instructions in README.txt file in the client\java directory. The original documentation of the Work Product Submitter can be found in the clients\java\em\workProductSubmitter\doc directory.

The Work Product Submitter is then modified to include the capability to add a layer to the MapContext Work Product. All three files were modified to support this capability. These files can be downloaded from <https://uicds-test5.saic.com/dist/misc/WorkProductSubmitterCode.zip>. One can replace these files in the clients\java\em\workproductSubmitter\src\main\java\com\saic\uicds\clients\em\shapefileClient directory and rebuild.

11.2 Context File

Spring application context is used to configure the Work Product Submitter. The context file is async-context.xml and it can be found in the clients\java\em\workproductSubmitter\src\main\resources\contexts directory. Creating Java proxy to access UICDS web services is done here in order to easily initialize the Spring Web Template.

The URL, username and password to enable access to UICDS web services is set in this context file as shown in the following segment of XML. The defaultUri needs to be changed from <http://localhost/uicds/core/ws/services> to <https://YourFullyQualifiedDomainName/uicds/core/ws/services>. Note that http is used for localhost and https is used if you use FQDN. Two values of the UsernamePasswordCredentials need to be changed to valid credentials in the UICDS Core LDAP.

```
<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.UsernamePasswordCredential">
          <constructor-arg value="user1" />
          <constructor-arg value="user1password" />
        </bean>
      </property>
    </bean>
  </property>
</bean>
```

11.3 GUI

The UICDSGuiClient.java handles the GUI of the WorkProductSubmitter. The new GUI with the layer inputs is shown in the bottom right hand corner of the figure below.

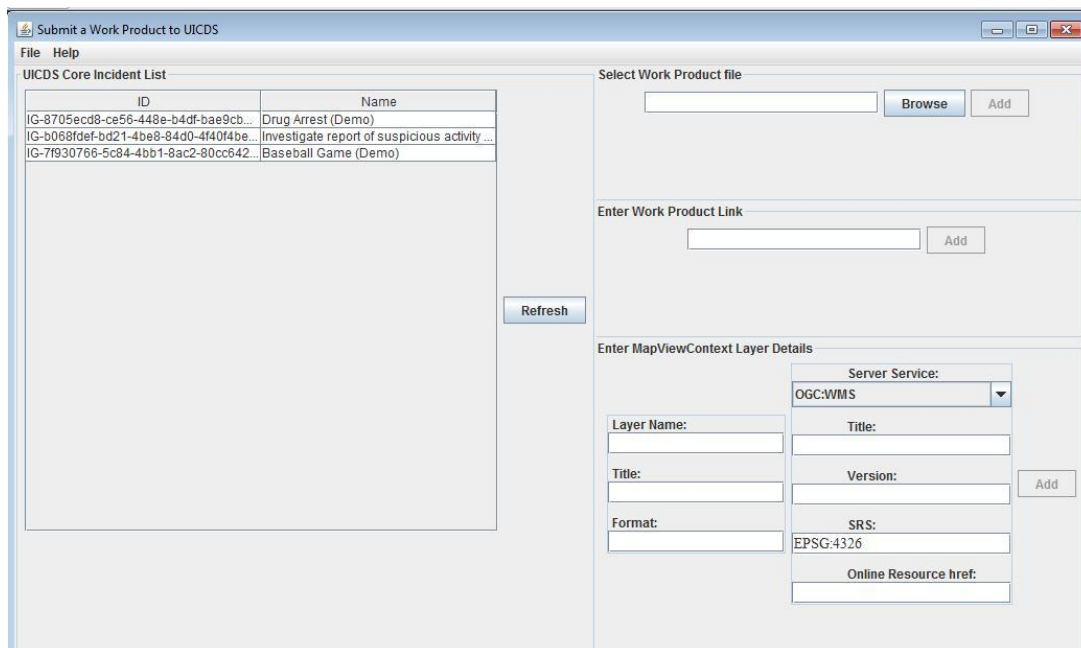


Figure 2 WorkProductSubmitter GUI

The code to create the panel is in the createMapLinkPanel function.

```
private JPanel createMapLinkPanel(Font displayFont)
{
    // create the panel
    JPanel mapLinkNameValuePanel = new JPanel();
    Border mapLinkNameValuePanelBorder =
    BorderFactory.createTitledBorder("Enter MapViewContext Layer Details");
    mapLinkNameValuePanel.setBorder(mapLinkNameValuePanelBorder);

    etc...
```

In this function, an action listener is created to the “Add” button.

```
// create the add link button
mapLkSvcButton = new JButton("Add");
mapLkSvcButton.addActionListener(this);
mapLkSvcButton.setEnabled(false);
```

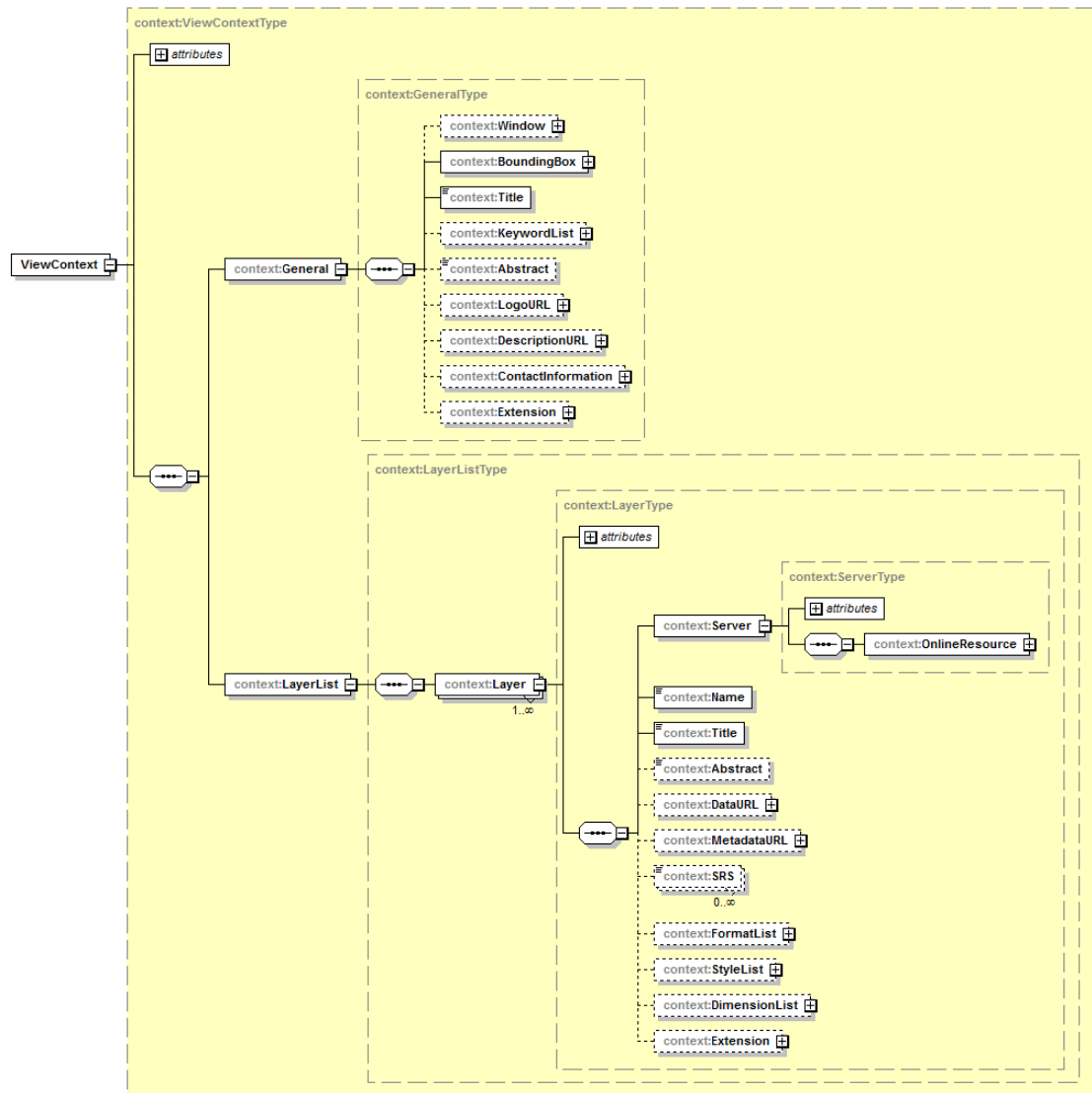
When the “Add” button is pressed by the user, the event that handles this action is in the actionPerformed function.

```
public void actionPerformed(ActionEvent e) {
    ...
    /Code for MapLayer Details ADD button
    else if (e.getSource() == mapLkSvcButton) {
        if (checkSelectIncident() == true)
        {
            System.out.println("Incident Selected");
            if (mapLinkLayerNameValueField.getText().length() > 1) {
                System.out.println("Getting the Map Layer Details...");
                shpUploadStatus = sfs.addMapLinkToMap(valueField.getText(),
                mapLinkLayerNameValueField.getText(), mapLinkTitleValueField.getText(), mapLinkFormatValueField.getText(),
                serverIndex, mapLinkSerTitleValueField.getText(), mapLinkVersionValueField.getText(), mapLinkSRSValueField.getText(),
                mapLinkURLValueField.getText());
                System.out.println(shpUploadStatus);
                JOptionPane.showMessageDialog(jFrame, "New Layer Added to
                MapContext");
            } else {
                JOptionPane.showMessageDialog(jFrame, "Please enter a URL");
            }
        }
    }
}
```

The inputs from the GUI including the selected incident ID are then passed to the addMapLinkToMap function in the ShapeFileSubmitter.java file.

11.4 Add a Layer to the MapViewContext Work Product

The following figure shows the schema diagram of the ViewContextType. This should help the developer to understand the schema.



Generated by XMLSpy

www.altova.com

To add a layer to the selected incident, the logic is as follows:

1. Post a GetMapsRequest to the UICDS core Map Service to get the default MapViewContext Work Product using the incident id

```
//Get the Map Work Product
```

```
GetMapsRequest gmrq = GetMapsRequest.Factory.newInstance();  
gmrq.setIncidentId(incidentIDNo);
```

```
GetMapsRequestDocument gmrqd = GetMapsRequestDocument.Factory.newInstance();  
gmrqd.addNewGetMapsRequest();  
gmrqd.getGetMapsRequest().set(gmrq);
```

```
XmlObject xmlObject = uicdsCore.marshallSendAndReceive(gmrqd);
```

2. Extract the Work Product from the GetMapsResponse

```
GetMapsResponseDocument gmresd = (GetMapsResponseDocument) xmlObject;
GetMapsResponse gmres = gmresd.getGetMapsResponse();

WorkProduct workProduct = WorkProduct.Factory.newInstance();
workProduct = gmres.getWorkProductArray(0);
log.debug("Work Product: " + workProduct.toString());
```

3. Retrieve the Work Product Identification for the Map Work Product. This is needed when updating the MapContext Work Product.

```
IdentificationType wpid = IdentificationType.Factory.newInstance();
wpid = Common.getIdentificationElement(workProduct);
log.debug("WP ID: " + wpid.toString());
```

4. Parse the ViewContext out from the Work Product Structured Payload

```
XmlObject[] objects = workProduct.getStructuredPayloadArray(0).selectChildren(
    new QName("http://www.opengis.net/context",
        "ViewContext"));

ViewContextDocument map = ViewContextDocument.Factory.newInstance();
if (objects.length > 0) {
    try {
        map = ViewContextDocument.Factory.parse(objects[0]
            .getDomNode());
    } catch (XmlException e) {
        log.error("Error parsing Work Product to View Context Type: "
            + e.getMessage());
    }
}

log.debug("Map: " + map.toString());
```

5. Get the LayerList from the ViewContext

```
//Get the layer list from the current Map WP
LayerListType layerList = map.getViewContext().getLayerList();
```

6. Add the new layer to the layer list

```
//Add the new layer
LayerType layer = LayerType.Factory.newInstance();
ServerType server = ServerType.Factory.newInstance();
OnlineResourceType onlineResource = OnlineResourceType.Factory.newInstance();

server = layer.addNewServer();
if (servIndex == 0){
    server.setService(ServiceType.OGC_WMS);
}
```

```

        else {
            server.setService(ServiceType.OGC_WFS);
        }
server.setTitle(mapSerTitle);
server.setVersion(mapVersion);
onlineResource = server.addNewOnlineResource();
onlineResource.setHref(mapLayerURL);

layer = layerList.addNewLayer();
layer.setName(mapLayerName);
layer.setTitle(mapLayerTitle);
//set the Abstract for digest purpose
layer.setAbstract("<![CDATA[<br/><b>Layer Name:</b>" + mapLayerName +
    "<br/><b>Layer Title:</b>" + mapLayerTitle +
    "<br/><b>Layer Format:</b>" + mapFormat +
    "<br/><b>Layer Online Resource Source 
```

12.0 The UCore Digest Mapping of the Payload to the Digest

UICDS automatically digests selected data elements contained in the payload into the UCore standard data elements. The following table shows those data 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 XML, KML and GeoRSS feeds as well as in the notification of the successful posting of a UICDS XML template and the successful creation of a Work Product.

Auto-digest will be available in the next release of UICDS for the MapViewContext Work Product.

MapViewContext UICDS Common Name	UICDS MapViewContext Data Element	Digest Data Element (from UCore)
Title	<wmc:Title>	<Event> <What>
Time		<TimeInstant>
Incident Name	<wmc:IncidentName>	<Event> <Identifier>
Abstract	<wmc:Abstract> [Note: Only the Abstract data element – see below.]	<Location> <PhysicalAddress>
Bounding Box	<wmc:BoundingBox>	<Location> <GeoLocation> <ucoregml:pos>
Layer Description Contained in Abstract	<p>[Note: For all Layers contained in the LayerList]</p> <p><wmc:Abstract> [Note: In addition to the actual entry for Abstract, the Abstract data element is used to hold additional data formatted as HTML CDATA for the purpose of exposing the results in a KML, GeoRSS, or other feed – see section 10.3.]</p> <p><![CDATA[
 Layer Name: Value = <wmc:Name>
 Layer Title: Value = <wmc:Title>
 Layer Format: Value = <wmc:Format>
 Layer Online Resource Source URL: Value = <wmc:OnlineResource xlink:href>
]]></Abstract></p> <p>[This is repeated for every Layer in LayerList]</p>	<Event> <Descriptor>
Organization	<ContactOrganization>	<Organization>

<Name>

13.0 Add a Point Feature

Below is an example XML Map document, wrapped in SOAP, for posting to the Map Service on a UICDS Core that will add a Point Feature to the default incident map.

Note that the Product Type must be specified in the WorkProductIdentification block. If associated with an incident, the Associated Interest Group must be specified in the WorkProductProperties block. To be displayed in the KML or GeorSS, a Digest (green) must be submitted.

```
<?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:PublishProductRequest
      xsi:schemaLocation="http://uicds.org/WorkProductService"
      xmlns:ddms="http://metadata.dod.mil/mdr/ns/DDMS/2.0/"
      xmlns:ucore="http://ucore.gov/ucore/2.0"
      xmlns:wp="http://uicds.org/WorkProductService"
      xmlns:gml="http://www.opengis.net/gml/3.2"
      xmlns:precisb="http://www.saic.com/precis/2009/06/base"
      xmlns:preciss="http://www.saic.com/precis/2009/06/structures"
      xmlns:precisp="http://www.saic.com/precis/2009/06/payloads"
      xmlns:ulexlib="ulex:message:library:1.0"
      xmlns:ulex="ulex:message:structure:1.0"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <preciss:WorkProduct>
        <ulex:PackageMetadata>
          <ulex:DataItemID>DataItemID Required</ulex:DataItemID>
          <ulex:DataItemReferenceID
            xsi:nil="true" />
          <ucore:DataItemStatus
            ucore:label="Active" />
          <ulex:DataOwnerMetadata>
            <ucore:DataOwnerIdentifier>
              <ddms:Organization>
                <ddms:name />
              </ddms:Organization>
            </ucore:DataOwnerIdentifier>
            <ucore:DataOwnerContact>
              <ddms:Organization>
                <ddms:name />
              </ddms:Organization>
            </ucore:DataOwnerContact>
          </ulex:DataOwnerMetadata>
          <ucore:DisseminationCriteria />
        </preciss:WorkProductIdentification>
        <!-- When using the WP directly, only the type needs to be specified -->
        <!-- The other Identification metadata will be added by the server -->
        <precisb:Type>Feature</precisb:Type>
      </preciss:WorkProductIdentification>
    </preciss:WorkProductProperties>
    <base:AssociatedGroups
```



```

xmlns:base="http://www.saic.com/precis/2009/06/base">
  <base:Identifier>IG-5178b812-298b-4330-9a66-2056636f5baf</base:Identifier>
</base:AssociatedGroups>
</preciss:WorkProductProperties>
</ulex:PackageMetadata>
<ucore:Digest>
  <ucore:DigestMetadata />
  <ucore:Location
    id="Loc1">
    <ucore:GeoLocation>
      <ucore:Point>
        <gml:Point
          gml:id="pt1"
          srsName="urn:ogc:def:crs:EPSG:6.6:4326">
            <gml:pos>37.533933 -77.430024</gml:pos>
          </gml:Point>
        </ucore:Point>
      </ucore:GeoLocation>
    </ucore:Location>
    <ucore:Entity
      id="Entity.T1">
        <ucore:Descriptor>Chlorine Truck</ucore:Descriptor>
        <ucore:What
          ucore:code="Equipment"
          ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
        </ucore:Entity>
      <ucore:LocatedAt
        id="LA1">
        <ucore:EntityRef
          ref="Entity.T1" />
        <ucore:LocationRef
          ref="Loc1" />
        </ucore:LocatedAt>
      </ucore:Digest>
    <ulex:StructuredPayload>
      <ulex:StructuredPayloadMetadata>
        <ulex:CommunityURI>Community URI Required</ulex:CommunityURI>
        <ulex:CommunityVersion>1.0</ulex:CommunityVersion>
        <ulex:CommunityPedigreeURI
          ulex:pedigreeNumber="1">http://www.w3.org/2005/Atom</ulex:CommunityPedigreeURI>
        </ulex:StructuredPayloadMetadata>
        <atom:entry
          xmlns:atom="http://www.w3.org/2005/Atom">
            <atom:title>Chlorine Truck</atom:title>
            <atom:id>1</atom:id>
            <atom:updated>2009-04-15T12:00:00GMT</atom:updated>
            <atom:summary>A chlorine tanker truck has made an unscheduled stop</atom:summary>
            <geor:where
              xmlns:geor="http://www.georss.org/georss">
                <gml:Point
                  xmlns:gml="http://www.opengis.net/gml">
                    <gml:pos>37.533933 -77.430024</gml:pos>
                  </gml:Point>
                </geor:where>
              </atom:entry>
            </ulex:StructuredPayload>
          </preciss:WorkProduct>
        </wp:PublishProductRequest>

```

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

13.1 Expected Response from for a Point Feature

When the XML template 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 Map Work Product (a) Metadata in red and (b) Digest in green. The information in this document will allow you to later update, close, and archive the work product.

```
<?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:PublishProductResponse
      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>Feature-b19b1f7e-19fc-4017-87a9-d39d9c447de5</ulex:DataItemID>
              <ulex:DataItemReferenceID>Feature-b19b1f7e-19fc-4017-87a9-
d39d9c447de5</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">Feature-b19b1f7e-19fc-4017-
87a9-d39d9c447de5</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">Feature</base:Type>
  <base:Checksum
    xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:09:49 MDT
2012:1:0:2594622548</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">2012-10-03T15:09:49.446-
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">2012-10-03T15:09:49.446-
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">0</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-5178b812-298b-4330-9a66-2056636f5baf</base:Identifier>
  </base:AssociatedGroups>
</str:WorkProductProperties>
</ulex:PackageMetadata>
<ucore:Digest
  xmlns:ucore="http://ucore.gov/ucore/2.0"
  xmlns:precisp="http://www.saic.com/precis/2009/06/payloads"
  xmlns:ddms="http://metadata.dod.mil/mdr/ns/DDMS/2.0/"
  xmlns:ulexlib="ulex:message:library:1.0"
  xmlns:wp="http://uicds.org/WorkProductService"
  xmlns:gml="http://www.opengis.net/gml/3.2"
  xmlns:precisb="http://www.saic.com/precis/2009/06/base"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ulex="ulex:message:structure:1.0"
  xmlns:preciss="http://www.saic.com/precis/2009/06/structures">
<ucore:DigestMetadata />
<ucore:Location
  id="Loc1">
  <ucore:GeoLocation>
    <ucore:Point>
      <gml:Point
        gml:id="pt1"
        srsName="urn:ogc:def:crs:EPSG:6.6:4326">
        <gml:pos>37.533933 -77.430024</gml:pos>
      </gml:Point>

```

```

        </ucore:Point>
    </ucore:GeoLocation>
</ucore:Location>
<ucore:Entity
    id="Entity.T1">
    <ucore:Descriptor>Chlorine Truck</ucore:Descriptor>
    <ucore:What
        ucore:code="Equipment"
        ucore:codespace="http://ucore.gov/ucore/2.0/codespace/" />
    </ucore:Entity>
    <ucore:LocatedAt
        id="LA1">
        <ucore:EntityRef
            ref="Entity.T1" />
        <ucore:LocationRef
            ref="Loc1" />
        </ucore:LocatedAt>
    </ucore:Digest>
</str:WorkProduct>
</wor:WorkProductPublicationResponse>
</wor:PublishProductResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

14.0 Close and Archive a Map Work Product

14.1 Understanding Close and Archive

Closing a work product removes it from the notification list and removes it from any GetProductCurrentVersionRequest. But it does NOT remove the work product (or any previous versions of the work product) from UICDS.

Archiving a 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.

14.2 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.

14.2.1 Close a Map Feature Message

Below is an example of a Close message for a Map FeatureWork Product.

```
<?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: If the product has been updated since then, an error will be returned -->
      <!-- which contains the most recent identification information. -->
    <str:WorkProductIdentification>
      <base:Identifier
        xmlns:base="http://www.saic.com/precis/2009/06/base">Feature-b19b1f7e-19fc-4017-87a9-
d39d9c447de5</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">Feature</base:Type>
      <base:Checksum
        xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:09:49 MDT
2012:1:0:2594622548</base:Checksum>
      <base:State
        xmlns:base="http://www.saic.com/precis/2009/06/base">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.

14.2.2 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>Feature-b19b1f7e-19fc-4017-87a9-d39d9c447de5</ulex:DataItemID>
        <ulex:DataItemReferenceID>Feature-b19b1f7e-19fc-4017-87a9-
d39d9c447de5</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">Feature-b19b1f7e-19fc-4017-87a9-
d39d9c447de5</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">Feature</base:Type>
          <base:Checksum
            xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:14:25 MDT
2012:2:1:822468288</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">2012-10-03T15:09:49.446-
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">2012-10-03T15:14:25.287-

```

```

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">1</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-5178b812-298b-4330-9a66-2056636f5baf</base:Identifier>
    </base:AssociatedGroups>
</str:WorkProductProperties>
</ulex:PackageMetadata>
<ns:Digest
    xmlns:ns="http://ucore.gov/ucore/2.0"
    xmlns:precisp="http://www.saic.com/precis/2009/06/payloads"
    xmlns:ucore="http://ucore.gov/ucore/2.0"
    xmlns:wp="http://uicds.org/WorkProductService"
    xmlns:preciss="http://www.saic.com/precis/2009/06/structures"
    xmlns:ulex="ulex:message:structure:1.0"
    xmlns:ns1="http://metadata.dod.mil/mdr/ns/DDMS/2.0/"
    xmlns:ddms="http://metadata.dod.mil/mdr/ns/DDMS/2.0/"
    xmlns:ulexlib="ulex:message:library:1.0"
    xmlns:base="http://www.saic.com/precis/2009/06/base"
    xmlns:gml="http://www.opengis.net/gml/3.2"
    xmlns:precisb="http://www.saic.com/precis/2009/06/base"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<ns:DigestMetadata />
<ns:Location
    id="Loc1">
    <ns:GeoLocation>
        <ns:Point>
            <gml:Point
                gml:id="pt1"
                srsName="urn:ogc:def:crs:EPSG:6.6:4326">
                <gml:pos>37.533933 -77.430024</gml:pos>
            </gml:Point>
        </ns:Point>
    </ns:GeoLocation>
</ns:Location>
<ns:Entity
    id="Entity.T1">
    <ns:Descriptor>Chlorine Truck</ns:Descriptor>
    <ns:What
        ns:code="Equipment"
        ns:codespace="http://ucore.gov/ucore/2.0/codespace/" />
</ns:Entity>
<ns:LocatedAt
    id="LA1">
    <ns:EntityRef
        ref="Entity.T1" />
    <ns:LocationRef
        ref="Loc1" />
</ns:LocatedAt>
</ns:Digest>
</str:WorkProduct>

```



```

</wor:WorkProductPublicationResponse>
</wor:CloseProductResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

14.2.3 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
          xmlns:base="http://www.saic.com/precis/2009/06/base">Feature-b19b1f7e-19fc-4017-
87a9-d39d9c447de5</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">Feature</base:Type>
        <base:Checksum
          xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:14:25 MDT
2012:2:1:822468288</base:Checksum>
        <base:State
          xmlns:base="http://www.saic.com/precis/2009/06/base">Inactive</base:State>
      </str:WorkProductIdentification>
    </wp:ArchiveProductRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

14.2.4 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>`

15.0 Add a Shapefile as Features

Below is an example XML document, wrapped in SOAP, for posting to the Map Service on a UICDS Core that will add a Shapefile to the incident map. The submitted Shapefile must be a zip file that contains .shp, .shx, .prj, dbf, and .avl files and base64 encoded in the ContentData parameter. This UICDS process creates a new Shapefile Work Product and Feature Work Products from the supplied Shapefile and optionally associates it to an incident.

The Shapefile submission includes the option that a UCore Digest be supplied that contains an Event that describes the Shapefile, a Location with a boundary of the Shapefile, along with a LocatedAt element to associate the Event and Location elements.

Additionally, Feature Work Products are created by shredding the Shapefile into individual features. Each feature forms a Feature Work Product. Each Feature Work Product will also appear on the default incident map and appear in the feeds.

```
<?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>
    <m:SubmitShapefileRequest xsi:schemaLocation="http://uicds.org/MapService MapService.xsd"
      xmlns:ucore="http://ucore.gov/ucore/2.0" xmlns:m="http://uicds.org/MapService" xmlns:xsi=
"http://www.w3.org/2001/XMLSchema-instance">
      <m:IncidentId>IG-5178b812-298b-4330-9a66-2056636f5baf</m:IncidentId>
      <ucore:Digest/>
      <!-- ContentData is a Base64 Encoded Binary shp file -->
      <ContentData>UESDBBQACAAIAAZacjwAAAAAAAAAAAAAAAAAAAAU2hhcGVmaW
xlLnNocO2aeTSV7bvH95sylERkjkgyhMo8iwohUQaFA3KmET2ZqMyRUmELYmoFJISTeYQDcZKZMgQmULaiu
R33euc+zzP6by/9Z511jnrrN9ab+v94/2sZ9j38zz3/f1+r+tGoaycT/nTf7xy/SwUyJz4P0cRIztNfasSBUOdH/G+RgBH
ZphxPppWJca7Zct4ThsZ/Pn1/+nfHxTK3O9/dq/4mIXHC+BeQsxFmTKnjAzcREoScd2IOpybyPI6hAHnDnse+aIB7
K+vGHAZ2G/1PTZ0r5gc5j7EX2LFRRDft0ITRw+JVCw8evutoWIEzONNBCPRJztTAQezX+zETGXivp9xLJHlrchV
vrQHYx4Y9Iha8TbU+ZYIMZj9zLJWU5mPD7MJXVDjxik6ztPMilZpPvP031owyD9vnTvATkGaXwbz/HMJJDGf0i1
qDaB9HxBpd9vJZCeP/XldB8E0vspeO+6FzGV62cr4oaDGRqlayffFSHue+MhjNhAK+oG4knZKhbEscudwxGz0
ZcOo2/Tz2nsgliw4fHbxDpMya2lJefbViH2CImugFhGuqYY8XP32UUpG+Lvx9mjQuU2SO9P1wR510/TOOtkh
10v0Fvz50Vf9vsuHWEt10vhKKjxU1UnjX8Mus1Sd9HwhYywUddLz856LG1IjvR+IVnq3Mun7aSBvta4hsfXAw
wZF0nzz1EitlgtfUNU4Aow7cd4qSyJE4xbH0oD64X73UwGzrtUnrMcWOLpB/UU4KIdSzlkgLvmye9LA65vfpw
FDhtq2/YDfT9pFOjhlFDTr0XzADmOBEelgB8gFF19xawdPkxfz5gdn7vl3fQeDcsceMGrrZ/Fp0L7LQs1pET+EL
FmXt5aDzTi3eyA1ssamwpQDwqvnke8LeloJinwC22qvoUYAb7arNS9PstzUo/9axK7CzpXs/Q+xpYLD4J/Ov1K
oVq9Hs/zLjGga9tbu19BWzPHjozBMy2uLnyDbp/us3gJ+Dw614CH9DzGci87wTmtj69rws9T9v3yhbgi/3iuf3oftln
7jQCz9ScPzuK3uf8m7EvgAP2yrcy0fs6XE0tB66yCTOjUGE+VQzuewK8yKK3kAPYSud7fS6wpWKdGi9w6itB
qQxgut05DTHg4cHIocnAoVc0GuSA7aUU26OBL3R2O6sD1++ufRQMzFgeNW89sGa1fNRJYOPufhtr4LwyMc
ejwDweXUIH0XF/RyU79PwOST990HFnx28m6Plc1vtEovsbvCISA96fYXbqGjDH/O1UCeDoacMVj9H5jQ2qnM
AheT/6m4DPn6z7NK5rVaJb8KtpHF1vER7dDFxfn2a7mGZkYHZSTvkJ8KLT886rAds/+I5/GZjD8dv4HuBgv6P7
TwKfHf+aEgFcWBrwcR6vu++e+1Ng6S5emxXAiR5cUV+Bi9qky77pWJX0RrLOrvaD+0UICJQCJ0a4mngDW6v
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4piIYk0QjFdmJngb/F6hQXIMBbhl6Y6Op8A7HTsvm8P1hfc2URg/IG7j57PgD/jPdW8wBXY+5e99jLgQq20iQfA
QvtytK7BePN4up5MAFfOvd24Grhu0s5TEd4f49GXEzX+aDzaS/YDX6QHSrgDF+7kTj0H/N62U20pcDDf9LIHw
AFtNSqNfsT3zOZ5RosCNuN+Mj4J7PDtxQLdPyzkMUSNP9cPlaEgVOvTKYrovnsk7t0AL5X/aPNQxv0iO+J5
99EkWm1BjjBS83FFfHbM2WpCzBFYVcqHc3/yGz2zcDnZ7MazwGzGthNyALzs6evQyssN0oZSFWJmOP3C09
```

Yv5p7n9q/gBYbk1G6nu0fgxNPIqB309cjStH8zVeN6YG2HlwUiQH2ExLJLSBuOW7rmYSIVjfm1jP7AgHrgp429m
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h9R3s5mfHAayf3rpPATg6ZubAQmDmbfoXAWBDHjsvHuA7uRJ0LmDROcuC+YFNB6WusCJ9yVM/LwTclyXz
9BfoT8/BrfGi+oQetaTPJlvpE3qF9RzrWSq7Qq4U8ERo92g3yQ9cmptutiH/ULjzRAa4V6Zy7zuk1y67y+WAHS/J
ctUDm4l5vVQALhakWb8k+Y9l0sukKmDDPZJNSsA+4ml9ZSS/wmqO/UzFUNn5EbCoeX+PCskPOEotPqkCD5
m8/ZFDYvnZ0Poskj9i/8H+jf0KM/az3/PY73kNeA7kPhOU+37PJr9nSJT7Qv5J7vuf+jY+H/s2Po59GzP+Tvg5Mq
vptyRJnHe2LnUZydfxvJhtqKIN9SxmDX4veF7h45rb2P14ST5vb2/ozEV6z54fe3fNBzZ+uXJdJppHTw9YsJJ8Pk
+P3XAOyedbthiumYF14frBc1M++o6ypdl/SKYkMb1kAnjxTgmWJ2ieNb1gGQFuvOYuX4Tu75E01kfy+aL70S0fg
T/0ClfUkHw60KHavxbNO9/qvCbgiC/DkxvQeE2tk14BZ54PCWgBrILmCnoGvG2BqkaHL+HTD+rXCPWh6yW5j
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N9UwgLOerR/voBI+LcWTwPoH0nVz/s6twAYtjEZppOvut62lgPXftq82pxE+VHxwqp0G7CmqxF8C3HPs5oY7K
BccPbYzGDhawfHbJxrh04GVHGKyfoRPF9gufOjIR/j0g231nuV+hG/uGvLXQ6+FR/XqDcAvmoaFLzwHPBm3c
2NPsBV7CbeHOCdTLyH2pPlp5fOtB0EbFgx7XYQOOxMvptmALGW00yFGSHADfyBsyAlc6VkfnANsrHjU2B
v5jGl/cCWwzkzV+wFrr2gtp0PflRqBfvl48ArDNL1DIHvGWfeCAadmHrekuQNPqsxZnwJstGrd/KT/Rk7YsznneD6wp
8rex2bAqwf0Qo3ALk8W9LkDx51IURoFZosQXHMR+Pwq3byF8D5Mi5kX7gP/9N6WLg+81vYGaxNwxHdWVP
gUuuVF7+i87njGp20Ce0atlrjkYhyR9UynQx0PN6zhAW+R/ZE2omKIOQLDu17gCdb2jxnYLYUhlqWbJSzZsRpm
4Hr7GvujekQuail/OpJJV0ip0hT0/kddlmckrDpbe5FXSKnGBY0axUC+9S1LXwJ34/jcF3WR+ATuZ25HsCU8Y18c
/SIHMf74rqnOLADt3xFe8wHTemMUg2Ui9dLcUYDe3KtW2ShR+SUqvVIVoeQXuQX8Yn5EetP9TbPnUGYf6lB2
56FA+cJ81KKgJW2X2MmkHJKnl2O5E3g5gX7s11phB7gnlJzRs8Ok0h5lGtffl+sRrk6NG31lhpRJ+CcgwWJ3SRO
sxXl6nH9rm5STgmWzJsalOeUkG7OMVJOWXUNZiYT3FOWXql9QDrMc4ptGw5hwXlF0WHvLdQCT3/dqPTTJ9
K6H1t3CUjFR7aq30JaScwuwbDxVEdeMxWp04lFATodgLNVxUwm/qEpU/cVIJPwpLfevFgvSIFndvBfDy1vcx074
EYz3FOQPrLc4ZWI/tM+e/WIXqcMnldZ0kv8R6jnMG1nvpRVpta/WJug/7L64L8XHsJzh3YL/B/o39CDPOJdjcS7
BjHmJzg7/i7mE5Z/1o/J8Q2THQFu+DVP6Xgf93Y/6ux/1r9uPCn68/vFK0rrA9QnOpX/Vj5oc770kok/0n7Bu4Zz6e
z8K11dZF6Uk7/sS9RfOpbg+w/UJ1IWSE1Uvkg3+INU3WJd1g9vnVpJyLq6PcM7F9RPOubi+wjkX11+4Hq1Prg/r
RfNB9ObrD8A7zTvrB9H9htbmvwEu4mu795WUcw0yfFmmkDbc8DIVoUfoMJMl0alQj9BpsxHLLXl6RL0ZHLBa
IRNY8p32mCSqZ5k3Kna8sJ9Z5VQFPp2Q18ssMqei1I6VMJHRQrkd2xCPjeSxfAj1cfBfVdd3Uj1M8e1Hs29w
MuZGLvoyBd2y7KaA59Yu842FtW3zcU12sCVbqaOt1G0djoduZLkzT1OSaL0f2je/a3o/FsPTL1A3KDY5Vp+w
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cArjHf4sqclfilbw7wzvnLPDcAD+8fMK2DHFTT7jh4DuVY2rGYOObMjjC1dsTNwxU7gKN29UpqQ46RLucf5Eb
9qbMKYan+6P0Fj5VBDsujW6UIQC7yLMv+4Axsy79/8VXg8xKbbszXJnlrx6oxs2TlgcP7vQ4NAjPdNGtXAK9Y9
O7Ro0DCC1TPjd2UAC8QIZIM2KdFeEO3aMGeNGD1rBEWf5TzpjLmYsD9z75pTCwNjHKh25gnnxDKucpGd2
aAZ186dwah3xsXLt8O47dT3es2BeNzmit5NwX4Gu9u6SBg+09WwV3Aw4lxAXzoeRbQjMTgfYUqMwxz4Xlvq
3zuskDfS/4s3QbYUNyEFgh8ULmynB245WvJZAbwBOvpTSXw/op+xri9AqZYHpWlo37T1PF3lygnBpR8NPIj+p
NZzANlnMA9U0IR0sAmKqxn2ID/SMCtQRf4eTrb2xxgpy1f+K3Q/Mm4fjIM5bwCeevDqO7qSmt0oJfYysy2+HX
oOFdfWRiq+/YMcKui40smRuLQ/c5tLJ6H+pMif4hcR/0ettGIIVJ/Ny2IYdtl6v9abojeUojWi9DH05V6RB3mFmaS
Xgus5hcVGI/6SflfC9+hOvW6cdwZILNeFb3rAG792drqRSX61RPXDG8fohL6wa6gHmhLJfRI9nPEp81ovV+Wk
5nSI3Jej1Co+i/gIuFV+2uBi+ZvMWEB/aq0Gri1Eq1HpdeWbPpEPxr353H0w/17rB9YT7G+4P4/znIYj3H0w3otn
KA4NULqU+Cch/cfcP8d50Tcn8f+gPv3v/ejcE7EfQHcn8J6/Ff9KJwL8f4D9jfsD/8P/ai58N/dP8t9hSjJu2wNhO
/ZPfX0v8t98X8nfv+zn3/ArkPr1vcn/yr3lfryJRoe/pvkRfG6+z33Mf7m/+x7r893oWr1ulM+UnFusT9Ryuh/G6x/U
y1gWsi/lvap8U+xL1Nq4f6yNHNWZJ+45Yd3H9ifcJpDp81Jp8iX0EXL/ifQZc3xYVnenvle07tvxBrW/XI3STN3IT
cTPqd0RHOH9H73va5Xodqr+ZYBsV8ZzUj6ySETleStp3FOVtsnl2nf0nlUyQFOP9q8TpZK+BruR4pWLfjO
IO070jz535xH/VZ/GXVL4O52z9tBwlq6p8ldUa7cXBvgRfktunl8ZgdQrv1yqSgU9TNLbAW3AxfKJ1dfQTmTT
aXbEHYHuvyErsK83OHbz6GvIOS8d+YdTvblqaHkA+UxQhZAK8VdeanRPldfjLwcgF1xPictTRL6tbehD5
ye9J1nB9p3ikvmyQUOzDFhC0DHE4oyonSJXDDcX6nmJPa9puYc7EX7kl0f8o2Af61fSWJckcrq7wA8PAL
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m/f1MP2/anmqR72YBJwJlJ0lchsdv7ZY1RfYonWs0AJrl1tS8uAqzk/CXb5E7m0arj/aQgwTfDSZS2UW329TZ
VRrtq1WsMF7bMKNep/hvEGP19bGgcsLuLCTANWkjPUKQKu+3U85JafkaOljB6+VQDmuJ/ASYH3LT0s3+
MHjfgexXuKGDuOn6t23VUGnhHg4ktBuUg9Y9oUuMuc05gKzOQz17bXI76HE6PA+5gesU+M54/3lhQeAd
Q/zn324QKaX7Gft/yE7z1ZUM9+Fe0XcMUI5PqlF1hOn3VKlCordiWT5o/eL7TTwyNpZD2AesfXLwaRSX6c
7gOYw51eN6K6qoj+hFupH1A16/K+/eR9gHxfMf9OTvXNgVjUn/OQm5trBbKfU7uitMoh/aFTCIQitqRMilbL
kXaByzk1ucWoRL7KXh9Yj3CfzeA9Qr/XQHer8F1Hta71o9+kuO+RH8O99OqBA6niOsTdsSuo/H+B9ZbrE
d4fwnrFa7T8f4K1nOsd7/nLkz+O80lOoi3qzWJ/ppf5Wzcd8O1+n/1znrH1BLBwjVjGll8BIAAFQmAAABQSw
MEFAAIAAgABlpyPAAAAAAAAAAAAAAAAAAAAA0AAABTaGFwZWZpbGUuc2h4Y2BQ52LADpxeMDMwswAIZ
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</m:SubmitShapefileRequest>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

15.1 Expected Response from Map Service for Shapefile Submission

When the XML template 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 (a) Metadata in red and (b) Digest in green. The information in this document will allow you to later update, close, and archive the work product.

```

<?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>
    <map:SubmitShapefileResponse
      xmlns:map="http://uicds.org/MapService">
      <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>Shapefile-ec2a7225-11f6-4dd1-bc25-f412777817ec</ulex:DataItemID>
              <ulex:DataItemReferenceID>Shapefile-ec2a7225-11f6-4dd1-bc25-
f412777817ec</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
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                  <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">Shapefile-ec2a7225-11f6-4dd1-
bc25-f412777817ec</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">Shapefile</base:Type>
    <base:Checksum
      xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:07:25 MDT
2012:1:7:1281283038</base:Checksum>
    <base:State
      xmlns:base="http://www.saic.com/precis/2009/06/base">Active</base:State>
  </str:WorkProductIdentification>
  <str:WorkProductProperties>
    <base:Created
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06:00</base:Created>
    <base:CreatedBy
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    <base:LastUpdated
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06:00</base:LastUpdated>
    <base:LastUpdatedBy
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      xmlns:base="http://www.saic.com/precis/2009/06/base">7</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">
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    </base:AssociatedGroups>
  </str:WorkProductProperties>
</ulex:PackageMetadata>
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      ns:codespace="http://uicds.us/style"
      ns:label="Scalar">1</ns:SimpleProperty>
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  srsName="EPSG:4326">38.954143626448506 -
76.98494588996444</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.953855454301376 -
76.98519253504976</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95356728215425 -76.98544033809324</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.953326838519 -76.98574951291852</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95308639488374 -76.98593478622206</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.952845951248484 -76.9861200595256</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.952653236125094 -
76.98624396104734</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95241369302779 -76.98642923435088</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95226870641628 -76.98661450765441</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95207689183084 -76.98673840917616</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.951885077245414 -
76.98686115273975</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.951692362122024 -
76.98698505426148</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95154827604846 -76.98717032756502</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.9514041899749 -76.98723285730496</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95126010390134 -76.98729422908676</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95106738877795 -76.9874181306085</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.950971031216255 -
76.98754203213024</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.950826945142694 -
76.98760340391203</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95068285906913 -76.98766477569383</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95058650150744 -76.98766477569383</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95044241543387 -76.98772730543378</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95029832936031 -76.98778867721558</ns1:pos>
<ns1:pos
  srsName="EPSG:4326">38.95020197179861 -76.98778867721558</ns1:pos>
<ns1:pos

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        srsName="EPSG:4326">38.95005788572505 -76.98785004899737</ns1:pos>
        <ns1:pos
        srsName="EPSG:4326">38.950010157213185 -
76.98778867721558</ns1:pos>
        </ns1:LinearRing>
        </ns1:exterior>
        </ns1:Polygon>
        </ns:Polygon>
        </ns:GeoLocation>
...
    <ns:Collection
    id="Collection-a739d186-1e53-4ea6-ac8a-dcef45501ca8">
    <ns:Descriptor>Collection of LocationInfo of all features</ns:Descriptor>
    <ns:Identifier
    ns:code="label"
    ns:codespace="http://uicds.us/identifier"
    ns:label="Label">Collection (geo)</ns:Identifier>
    <ns:What
    ns:code="GroupOfLocations"
    ns:codespace="http://ucore.gov/ucore/2.0/codespace/" />
    <ns:ThingRef
    ref="Location-933c94da-76ce-4717-bf91-6d54e3d56335" />
    <ns:ThingRef
    ref="Location-e9217b19-924a-4611-87f6-871c36989d99" />
    <ns:ThingRef
    ref="Location-e47da7da-e0d9-4063-8255-d4c9b1126c7b" />
    <ns:ThingRef
    ref="Location-7974ff51-7e14-45a2-bcac-faf144cd5de2" />
    </ns:Collection>
  </ns:Digest>
</str:WorkProduct>
</wor:WorkProductPublicationResponse>
<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>Feature-6b336ea3-32df-453b-8651-d5fdccded01b</ulex:DataItemID>
      <ulex:DataItemReferenceID>Feature-6b336ea3-32df-453b-8651-
d5fdccded01b</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>

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</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">Feature-6b336ea3-32df-453b-
8651-d5fdccded01b</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">Feature</base:Type>
  <base:Checksum
    xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:07:25 MDT
2012:1:6:995746632</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">2012-10-03T15:07:25.705-
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">2012-10-03T15:07:25.705-
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">6</base:Kilobytes>
  <base:MimeType
    xmlns:base="http://www.saic.com/precis/2009/06/base">application/atom+xml</base:MimeType>
  <base:AssociatedGroups
    xmlns:base="http://www.saic.com/precis/2009/06/base">
    <base:Identifier>IG-5178b812-298b-4330-9a66-2056636f5baf</base:Identifier>
  </base:AssociatedGroups>
</str:WorkProductProperties>
</ulex:PackageMetadata>
</str:WorkProduct>
</wor:WorkProductPublicationResponse>
<wor:WorkProductPublicationResponse
  xmlns:wor="http://uicds.org/WorkProductService">
  <str:WorkProductProcessingStatus
    xmlns:str="http://www.saic.com/precis/2009/06/structures">

```



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<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>Feature-ad1a04f6-157f-47b2-96a7-00aab03ef5d8</ulex:DataItemID>
    <ulex:DataItemReferenceID>Feature-ad1a04f6-157f-47b2-96a7-
00aab03ef5d8</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">Feature-ad1a04f6-157f-47b2-
96a7-00aab03ef5d8</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">Feature</base:Type>
      <base:Checksum
        xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:07:25 MDT
2012:1:5:2723197682</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">2012-10-03T15:07:25.860-
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">2012-10-03T15:07:25.860-
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">5</base:Kilobytes>
  <base:MimeType>

xmlns:base="http://www.saic.com/precis/2009/06/base">application/atom+xml</base:MimeType>
  <base:AssociatedGroups>
    xmlns:base="http://www.saic.com/precis/2009/06/base">
      <base:Identifier>IG-5178b812-298b-4330-9a66-2056636f5baf</base:Identifier>
    </base:AssociatedGroups>
  </str:WorkProductProperties>
</ulex:PackageMetadata>
</str:WorkProduct>
</wor:WorkProductPublicationResponse>
<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>Feature-338f5864-0d67-460d-88ac-984f90ec6c4a</ulex:DataItemID>
              <ulex:DataItemReferenceID>Feature-338f5864-0d67-460d-88ac-
984f90ec6c4a</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" />
              </ns:DisseminationCriteria>
            </ns:DataOwnerMetadata>
          </ulex:PackageMetadata>
        </str:WorkProduct>
      </wor:WorkProductPublicationResponse>
    </str:WorkProductProcessingStatus>
  </wor:WorkProductPublicationResponse>

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<str:WorkProductIdentification>
  <base:Identifier
    xmlns:base="http://www.saic.com/precis/2009/06/base">Feature-338f5864-0d67-460d-
88ac-984f90ec6c4a</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">Feature</base:Type>
  <base:Checksum
    xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:07:25 MDT
2012:1:6:995746632</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">2012-10-03T15:07:25.990-
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">2012-10-03T15:07:25.990-
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">6</base:Kilobytes>
  <base:MimeType
    xmlns:base="http://www.saic.com/precis/2009/06/base">application/atom+xml</base:MimeType>
  <base:AssociatedGroups
    xmlns:base="http://www.saic.com/precis/2009/06/base">
    <base:Identifier>IG-5178b812-298b-4330-9a66-2056636f5baf</base:Identifier>
  </base:AssociatedGroups>
</str:WorkProductProperties>
</ulex:PackageMetadata>
</str:WorkProduct>
</wor:WorkProductPublicationResponse>
<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>Feature-1609a36a-6def-474c-b4da-20fabb3db3e1</ulex:DataItemID>
      <ulex:DataItemReferenceID>Feature-1609a36a-6def-474c-b4da-
20fabb3db3e1</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"

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    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://ucids.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">Feature-1609a36a-6def-474c-
b4da-20fabb3db3e1</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">Feature</base:Type>
    <base:Checksum
      xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:07:26 MDT
2012:1:5:3587072002</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">2012-10-03T15:07:26.131-
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">2012-10-03T15:07:26.131-
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">5</base:Kilobytes>
    <base:MimeType
      xmlns:base="http://www.saic.com/precis/2009/06/base">application/atom+xml</base:MimeType>
    <base:AssociatedGroups
      xmlns:base="http://www.saic.com/precis/2009/06/base">
      <base:Identifier>IG-5178b812-298b-4330-9a66-2056636f5baf</base:Identifier>
    </base:AssociatedGroups>
  </str:WorkProductProperties>
</ns:WorkProduct>

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        </str:WorkProductProperties>
    </ulex:PackageMetadata>
</str:WorkProduct>
</wor:WorkProductPublicationResponse>
<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>LayerViewContext-22ca1cd6-07a7-4cda-99bf-
758f38f7c184</ulex:DataItemID>
        <ulex:DataItemReferenceID>LayerViewContext-22ca1cd6-07a7-4cda-99bf-
758f38f7c184</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">LayerViewContext-22ca1cd6-
07a7-4cda-99bf-758f38f7c184</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">LayerViewContext</base:Type>
        <base:Checksum
          xmlns:base="http://www.saic.com/precis/2009/06/base">Wed Oct 03 15:07:26 MDT
2012:1:0:2779026573</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">2012-10-03T15:07:26.281-
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">2012-10-03T15:07:26.281-
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">0</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-5178b812-298b-4330-9a66-2056636f5baf</base:Identifier>
      </base:AssociatedGroups>
    </str:WorkProductProperties>
  </ulex:PackageMetadata>
</str:WorkProduct>
</wor:WorkProductPublicationResponse>
</map:SubmitShapefileResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

16.0 Map Service Methods Summary

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

Map Service Method Summary	
createMap	Allows the client to create a new Map work product and optionally associated it with an incident.
getMap	Allows the client to retrieve a map work product with a specific Work Product Identification.
getMaps	Allows the client to retrieve the collection of map work products associated with an incident.
invokeInternal	Allows the client to set parameters.

submitShapefile

Allows the client to create a new Shapefile, Layer, and Feature work products from the supplied shapefile and optionally associated it to an incident.

updateMap(

Allows the client to update an existing Map work product.

Reference: <https://uicds-test3.saic.com/secure/apidocs/com/saic/uicds/core/em/endpoint/MapServiceEndpoint.html>

17.0 Viewing UICDS Work Products for Confirmation

There are three methods for inspecting the UICDS Map Work Product to validate it. The programmatic way to obtain the Map Work Product is by submitting the IG number of the associated incident to the Map Service. 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™

17.1 Programmatic Retrieval of Map Work Product

To retrieve a MapViewContext Work Product, you submit the following message to the Map Service containing the Associated Interest Group ID ... the IG number described in Section 6.2).

```
<?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:GetProductCurrentVersionRequest
      xmlns:wp="http://uicds.org/WorkProductService"
      xmlns:preciss="http://www.saic.com/precis/2009/06/structures"
      xmlns:precisb="http://www.saic.com/precis/2009/06/base">
      <precisb:Identifier> MapViewContext-3836a7e3-7e06-460e-829e-1aec61d1cbdc
    </precisb:Identifier>
    </wp:GetProductCurrentVersionRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

The response to this request is the Map Work Product.

17.2 Using the UICDS Console

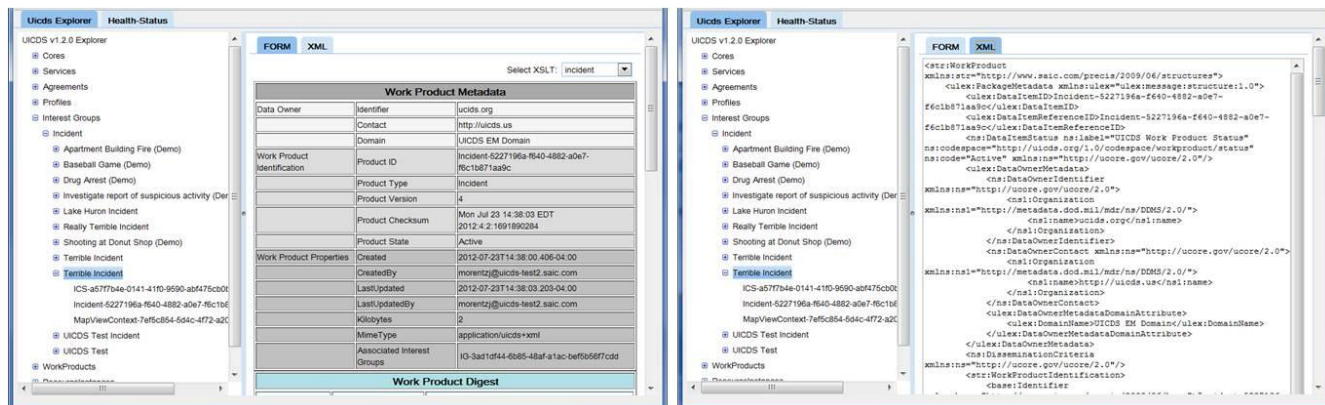
Use the UICDS Console (or AdminConsole if you have permissions) to view the resulting work product after posting.

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 Work Products 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.

17.3 Using Google Earth™

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

18.0 Links to the Map Service WSDL

The UICDS Map 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:

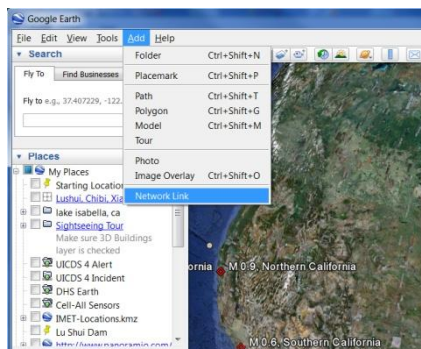
<http://localhost/uicds/core/ws/services/mapService.wsdl>

From a hosted UICDS Core

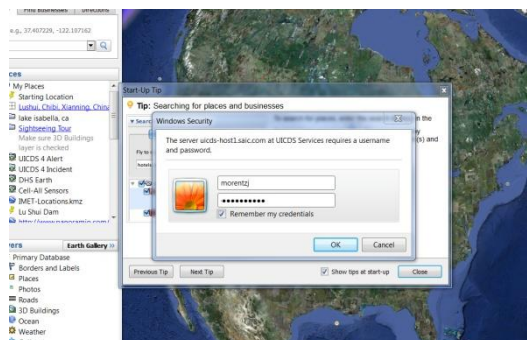
<https://uicds-test2.saic.com/uicds/core/ws/services/mapService.wsdl>

19.0 Appendix: View Map 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 map 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=Map&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 are 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.

