



# **XML Examples for ITS-MS**

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## **ITS-MS-Examples**

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## **Chapter 1 - Introduction**

### **1.1 - Purpose**

This is an informative supplement for ITS-MS. This document provides concrete examples of XML files implementing ITS-MS elements and attributes.

### **1.2 - Overview**

Chapter 2 contains the code listings of all example files for ITS-MS.

Chapter 2 - Example Files Code Listings

2.1 - example1.xml

```
<?xml-model href="../../../Schematron/ARH/ARH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/AUDIT/AUDIT_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/
dsdl/schematron"?><?xml-model href="../../../Schematron/IC-ID/IC-ID_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/ISM/
ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/ITS-MS/ITS-MS_XML.sch" type="application/xml" schematypens="http://
purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/NTK/NTK_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../
Schematron/IC-TDF/IC-TDF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/VIRT/VIRT_XML.sch" type="application/xml"
schematypens="http://purl.oclc.org/dsdl/schematron"?><!-- Distro Statement: distEditionBlockReplace--><!-- All classification marks in this example are
for illustrative purposes only, there are no
actual classified data contained in this example --><TrustedDataObject xmlns="urn:us:gov:ic:tdf"
                                xmlns:tdf="urn:us:gov:ic:tdf"
                                xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                                tdf:version="201412.201707"
                                xsi:schemaLocation="urn:us:gov:ic:its ../../../Schema/ITS-MS/ITS-MS.xsd urn:us:gov:ic:tdf ../../../Schema/IC-TDF/IC-TDF.xsd urn:us:gov:ic:audit ../../../Schema/
AUDIT/IC-AUDIT-Root.xsd">
    <HandlingAssertion tdf:scope="TDO">
        <HandlingStatement>
            <Edh xmlns="urn:us:gov:ic:edh"
                xmlns:usagency="urn:us:gov:ic:usagency"
                xmlns:icid="urn:us:gov:ic:id"
                xmlns:edh="urn:us:gov:ic:edh"
                xmlns:ntk="urn:us:gov:ic:ntk"
                xmlns:arh="urn:us:gov:ic:arh"
                usagency:CESVersion="201609"
                icid:DESVersion="1"
                edh:DESVersion="201609"
                ism:DESVersion="201609.201707"
                ism:ISMCA TCESVersion="201709"
                ntk:DESVersion="201508"
                arh:DESVersion="3">
                <icid:Identifier>guide://999990/ItsMsInstance</icid:Identifier>
                <DataItemCreateDateTime>2016-01-08T20:00:00Z</DataItemCreateDateTime>
                <ResponsibleEntity edh:role="Custodian">
                    <Country>USA</Country>
                    <Organization>DNI</Organization>
                </ResponsibleEntity>
                <Security xmlns="urn:us:gov:ic:arh"
                    ism:compliesWith="USGov USIC"
                    ism:DESVersion="201609.201707"
                    ism:ISMCA TCESVersion="201709"
                    ism:resourceElement="true"
                    ism:createDate="2016-02-21"
                    ism:classification="U"
                    ism:ownerProducer="USA" />
            </Edh>
        </HandlingStatement>
    </HandlingAssertion>
    <HandlingAssertion tdf:scope="PAYL">
        <HandlingStatement>
            <Edh xmlns="urn:us:gov:ic:edh"
```

```
    xmlns:usagency="urn:us:gov:ic:usagency"
    xmlns:icid="urn:us:gov:ic:id"
    xmlns:edh="urn:us:gov:ic:edh"
    xmlns:ntk="urn:us:gov:ic:ntk"
    xmlns:arh="urn:us:gov:ic:arh"
    ism:ISMATCESVersion="201709"
    usagency:CESVersion="201609"
    icid:DESVersion="1"
    edh:DESVersion="201609"
    ntk:DESVersion="201508"
    arh:DESVersion="3">
<icid:Identifier>guide://999001/00001</icid:Identifier>
<DataItemCreateDateTime>2010-10-26T00:00:00Z</DataItemCreateDateTime>
<ResponsibleEntity edh:role="Custodian">
  <Country>USA</Country>
  <Organization>DNI</Organization>
</ResponsibleEntity>
<Security xmlns="urn:us:gov:ic:arh"
  ism:compliesWith="USGov USIC"
  ism:resourceElement="true"
  ism:createDate="2011-03-01"
  ism:classification="U"
  ism:ownerProducer="USA"/>
</Edh>
</HandlingStatement>
</HandlingAssertion>
<Assertion tdf:scope="TDO">
  <StatementMetadata>
    <Security xmlns="urn:us:gov:ic:arh"
      ism:compliesWith="USGov USIC"
      ism:DESVersion="201609.201707"
      ism:ISMATCESVersion="201709"
      ism:resourceElement="true"
      ism:createDate="2012-07-21"
      ism:classification="U"
      ism:ownerProducer="USA"/>
  </StatementMetadata>
  <StructuredStatement>
    <its:Its xmlns:its="urn:us:gov:ic:its"
      xsi:schemaLocation="urn:us:gov:ic:its ../../Schema/ITS-MS/ITS-MS.xsd"
      DESVersion="201502">
      <its:MessageId>7874ea40-1a1b-4229-a8e0-d301dbf145ec</its:MessageId>
      <its:ObjectType>AUDIT</its:ObjectType>
      <its:Priority>ROUTINE</its:Priority>
      <its:PublishDateTime>2001-12-17T09:30:47.0Z</its:PublishDateTime>
      <its:Originator ism:classification="U" ism:ownerProducer="USA">
        <its:Client ism:classification="U" ism:ownerProducer="USA">
          <its:ClientId>nro-ea</its:ClientId>
        </its:Client>
        <its:CreateDateTime>2013-03-25T09:30:47.0Z</its:CreateDateTime>
        <its:OriginatorObjectID ism:classification="U" ism:ownerProducer="USA">InternalIDForTheTDO-NRO_12341</its:OriginatorObjectID>
        <its:POC ism:classification="U" ism:ownerProducer="USA">String</its:POC>
      </its:Originator>
      <its:RecipientList ism:classification="U" ism:ownerProducer="USA">
```

```

        <its:Client ism:classification="U" ism:ownerProducer="USA">
          <its:ClientId>nro-ea</its:ClientId>
        </its:Client>
      </its:RecipientList>
      <its:Topic ism:classification="U" ism:ownerProducer="USA">top1</its:Topic>
      <its:Topic ism:classification="U" ism:ownerProducer="USA">top2</its:Topic>
      <its:encryptTDO>true</its:encryptTDO>
      <its:Description ism:classification="U" ism:ownerProducer="USA">TDO only</its:Description>
      <its:Fabric ism:classification="U" ism:ownerProducer="USA">EA-SCI</its:Fabric>
    </its:Its>
  </StructuredStatement>
</Assertion>
<StructuredPayload>
  <AuditRecordList xmlns="urn:us:gov:ic:audit:root"
    xmlns:audit="urn:us:gov:ic:audit"
    xmlns:virt="urn:us:gov:ic:virt"
    audit:DESVersion="201609"
    xsi:schemaLocation="urn:us:gov:ic:audit:root ../../Schema/AUDIT/IC-AUDIT-Root.xsd"
    ism:DESVersion="201609.201707"
    ism:ISMATCESVersion="201709"
    virt:DESVersion="201508.201707">
    <Edh xmlns="urn:us:gov:ic:edh"
      xmlns:usagency="urn:us:gov:ic:usagency"
      xmlns:icid="urn:us:gov:ic:id"
      xmlns:edh="urn:us:gov:ic:edh"
      xmlns:ntk="urn:us:gov:ic:ntk"
      xmlns:arh="urn:us:gov:ic:arh"
      ism:ISMATCESVersion="201709"
      usagency:CESVersion="201609"
      icid:DESVersion="1"
      edh:DESVersion="201609"
      ntk:DESVersion="201508"
      arh:DESVersion="3">
      <icid:Identifier>guide://999001/00001</icid:Identifier>
      <DataItemCreateDateTime>2012-10-26T00:00:00Z</DataItemCreateDateTime>
      <ResponsibleEntity edh:role="Custodian">
        <Country>USA</Country>
        <Organization>DNI</Organization>
      </ResponsibleEntity>
      <Security xmlns="urn:us:gov:ic:arh"
        ism:compliesWith="USGov USIC"
        ism:resourceElement="true"
        ism:createDate="2012-11-01"
        ism:classification="U"
        ism:ownerProducer="USA" />
    </Edh>
    <EventAuthenticate xmlns="urn:us:gov:ic:audit">
      <Edh xmlns="urn:us:gov:ic:edh"
        xmlns:usagency="urn:us:gov:ic:usagency"
        xmlns:icid="urn:us:gov:ic:id"
        ism:ISMATCESVersion="201709"
        usagency:CESVersion="201609"
        icid:DESVersion="1">
        <icid:Identifier>guide://999234/ac4c86c2-c1bd-40e9-b97b-4c7fe3f5d484</icid:Identifier>

```

```
<DataItemCreateDateTime>2012-09-30T00:00:00.000Z</DataItemCreateDateTime>
<ResponsibleEntity xmlns:edh="urn:us:gov:ic:edh" edh:role="Custodian">
  <Country>USA</Country>
  <Organization>NSA</Organization>
</ResponsibleEntity>
<Security xmlns="urn:us:gov:ic:arh"
  ism:classification="U"
  ism:ownerProducer="USA"/>
</Edh>
<audit:AuditRecordHeader>
  <audit:Id>
    <audit:TypeOfGenericIdentifier>REPORTED</audit:TypeOfGenericIdentifier>
    <audit:GenericIdentifierValue>111</audit:GenericIdentifierValue>
  </audit:Id>
  <audit:Action>LOGIN</audit:Action>
  <audit:ActionInitiator xmlns:uias="urn:us:gov:ic:uias" audit:identityType="DISTINGUISHED_NAME">testdn1</audit:ActionInitiator>
  <audit:ActionLocationList>
    <audit:ActionLocation audit:identityType="DEVICE_ID">2</audit:ActionLocation>
    <audit:ActionLocation audit:identityType="APPLICATION">THATSYSTEM</audit:ActionLocation>
    <audit:ActionLocation audit:identityType="IP_ADDRESS">127.0.0.1</audit:ActionLocation>
    <audit:ActionLocation audit:identityType="APPLICATION">loc1</audit:ActionLocation>
  </audit:ActionLocationList>
  <audit:ActionResult>SUCCESS</audit:ActionResult>
  <audit:ActionTargetList>
    <audit:ActionTarget ism:classification="U"
      ism:ownerProducer="USA"
      audit:identityType="HOST_NAME"
      ism:excludeFromRollup="true">tgt1</audit:ActionTarget>
  </audit:ActionTargetList>
  <audit:ActionMode>USER_INITIATED</audit:ActionMode>
  <Agency>NRO</Agency>
  <CountryOfCitizenshipList>
    <CountryOfCitizenship>USA</CountryOfCitizenship>
  </CountryOfCitizenshipList>
</audit:AuditRecordHeader>
</EventAuthenticate>
<EventAuthenticate xmlns="urn:us:gov:ic:audit">
  <Edh xmlns="urn:us:gov:ic:edh"
    xmlns:usagency="urn:us:gov:ic:usagency"
    xmlns:icid="urn:us:gov:ic:id"
    ism:ISMCA TCESVersion="201709"
    usagency:CESVersion="201609"
    icid:DESVersion="1">
    <icid:Identifier>guide://999003/c47f2fd7-dde8-49df-99d9-8f53504c51a8</icid:Identifier>
    <DataItemCreateDateTime>2012-09-04T12:49:17Z</DataItemCreateDateTime>
    <ResponsibleEntity xmlns:edh="urn:us:gov:ic:edh" edh:role="Custodian">
      <Country>USA</Country>
      <Organization>CIA</Organization>
    </ResponsibleEntity>
    <Security xmlns="urn:us:gov:ic:arh"
      ism:classification="U"
      ism:ownerProducer="USA"/>
  </Edh>
</audit:AuditRecordHeader>
```



```
<audit:Agency>DIA</audit:Agency>
<audit:Action>LOGIN</audit:Action>
<audit:ActionMode>USER_INITIATED</audit:ActionMode>
<audit:ActionInitiator audit:identityType="DISTINGUISHED_NAME">CN=USER JOE D
A123456,OU=PEOPLE,OU=DODIIS,OU=DOD,OU=U.S.
GOVERNMENT,C=US</audit:ActionInitiator>
<audit:ActionResult>SUCCESS</audit:ActionResult>
<audit:ActionTargetList>
  <audit:ActionTarget ism:classification="U"
ism:ownerProducer="USA"
audit:identityType="WORKSTATION_ID"
ism:excludeFromRollup="true">TESTSERVER</audit:ActionTarget>
</audit:ActionTargetList>
</audit:AuditRecordHeader>
</EventAuthenticate>
<EventAuthenticate xmlns="urn:us:gov:ic:audit">
  <Edh xmlns="urn:us:gov:ic:edh"
xmlns:usagency="urn:us:gov:ic:usagency"
xmlns:icid="urn:us:gov:ic:id"
ism:ISMCA TCESVersion="201709"
usagency:CESVersion="201609"
icid:DESVersion="1">
    <icid:Identifier>guide://999003/D30F8432-A43E-41C4-9AAF-5C826AD85BC3</icid:Identifier>
    <DataItemCreateDateTime>2012-09-04T18:32:12Z</DataItemCreateDateTime>
    <ResponsibleEntity xmlns:edh="urn:us:gov:ic:edh" edh:role="Custodian">
      <Country>USA</Country>
      <Organization>CIA</Organization>
    </ResponsibleEntity>
    <Security xmlns="urn:us:gov:ic:arh"
ism:classification="U"
ism:ownerProducer="USA"/>
  </Edh>
  <audit:AuditRecordHeader>
    <audit:Agency>DIA</audit:Agency>
    <audit:Action>LOGIN</audit:Action>
    <audit:ActionMode>USER_INITIATED</audit:ActionMode>
    <audit:ActionInitiator audit:identityType="DISTINGUISHED_NAME">CN=ISPACE.DODIIS.IC.GOV,OU=COMPONENTS,OU=DODIIS,OU=DOD,OU=U.S.
GOVERNMENT,C=US</audit:ActionInitiator>
    <audit:ActionResult>FAILURE</audit:ActionResult>
    <audit:ActionTargetList>
      <audit:ActionTarget ism:classification="U"
ism:ownerProducer="USA"
audit:identityType="IP_ADDRESS"
ism:excludeFromRollup="true">10.168.1.1</audit:ActionTarget>
    </audit:ActionTargetList>
    <audit:ActionTargetMessageList>
      <audit:Message>ABAC Error. User not authorized to enter.</audit:Message>
    </audit:ActionTargetMessageList>
  </audit:AuditRecordHeader>
</EventAuthenticate>
<EventAuthenticate xmlns="urn:us:gov:ic:audit">
  <Edh xmlns="urn:us:gov:ic:edh"
xmlns:usagency="urn:us:gov:ic:usagency"
xmlns:icid="urn:us:gov:ic:id"
```

```

        ism:ISMCATCESVersion="201709"
        usagency:CESVersion="201609"
        icid:DESVersion="1">
<icid:Identifier>guide://999642/D30F8432-A43E-41C4-9AAF-5C826AD85BC3</icid:Identifier>
<DataItemCreateDateTime>2012-10-02T06:17:14.433-04:00</DataItemCreateDateTime>
<ResponsibleEntity xmlns:edh="urn:us:gov:ic:edh" edh:role="Custodian">
    <Country>USA</Country>
    <Organization>NGA</Organization>
</ResponsibleEntity>
<Security xmlns="urn:us:gov:ic:arh"
    ism:classification="U"
    ism:ownerProducer="USA"/>
</Edh>
<audit:AuditRecordHeader virt:network="JWICS">
    <audit:Action>LOGIN</audit:Action>
    <audit:Creator audit:identityType="USER_ID">user_id</audit:Creator>
    <audit:ActionInitiator audit:identityType="DISTINGUISHED_NAME">user_distinguished_name</audit:ActionInitiator>
    <audit:ActionLocationList>
        <audit:ActionLocation audit:identityType="PHYSICAL_LOCATION">NGA-EAST</audit:ActionLocation>
    </audit:ActionLocationList>
    <audit:ActionTargetList>
        <audit:ActionTarget ism:classification="U"
            ism:ownerProducer="USA"
            audit:identityType="HOST_NAME"
            ism:excludeFromRollup="true">DTE</audit:ActionTarget>
    </audit:ActionTargetList>
    <audit:ActionResult>GRANT</audit:ActionResult>
    <audit:ActionMode>USER_INITIATED</audit:ActionMode>
    <audit:Agency>NRO</audit:Agency>
    <audit:HomeAgency>CIA</audit:HomeAgency>
</audit:AuditRecordHeader>
</EventAuthenticate>
<EventAuthenticate xmlns="urn:us:gov:ic:audit">
    <Edh xmlns="urn:us:gov:ic:edh"
        xmlns:usagency="urn:us:gov:ic:usagency"
        xmlns:icid="urn:us:gov:ic:id"
        ism:ISMCATCESVersion="201709"
        usagency:CESVersion="201609"
        icid:DESVersion="1">
<icid:Identifier>guide://999342/a682ef36-c37c-4288-92bb-5ca04181ac6a</icid:Identifier>
<DataItemCreateDateTime>2012-07-24T20:48:17.558-04:00</DataItemCreateDateTime>
<ResponsibleEntity xmlns:edh="urn:us:gov:ic:edh" edh:role="Custodian">
    <Country>USA</Country>
    <Organization>DIA</Organization>
</ResponsibleEntity>
<Security xmlns="urn:us:gov:ic:arh"
    ism:classification="U"
    ism:ownerProducer="USA"/>
</Edh>
<audit:AuditRecordHeader>
    <audit:Id>
        <audit:TypeOfGenericIdentifier>Jive Event ID</audit:TypeOfGenericIdentifier>
        <audit:GenericIdentifierValue>1682ef36-c37c-4288-92bb-5ca04181ac6a</audit:GenericIdentifierValue>
    </audit:Id>

```

```
<audit:Creator audit:identityType="APPLICATION">ASpace</audit:Creator>
<audit:Agency>DIA</audit:Agency>
<audit:CountryOfCitizenshipList>
  <audit:CountryOfCitizenship>USA</audit:CountryOfCitizenship>
</audit:CountryOfCitizenshipList>
<audit:Action>LOGIN</audit:Action>
<audit:ActionInitiator audit:identityType="DISTINGUISHED_NAME">C=US, O=U.S.
Government, OU=ManTech, OU=Aspace, OU=People, CN=Brad Giaccio
d1079</audit:ActionInitiator>
<audit:ActionLocationList>
  <audit:ActionLocation audit:identityType="IP_ADDRESS">127.0.0.1</audit:ActionLocation>
</audit:ActionLocationList>
<audit:ActionResult>SUCCESS</audit:ActionResult>
<audit:ActionTargetList>
  <audit:ActionTarget ism:classification="U"
                        ism:ownerProducer="USA"
                        audit:identityType="IP_ADDRESS"
                        ism:excludeFromRollup="true">127.0.0.1</audit:ActionTarget>
  <audit:ActionTarget ism:classification="U"
                        ism:ownerProducer="USA"
                        audit:identityType="USER_ID"
                        ism:excludeFromRollup="true">2327</audit:ActionTarget>
</audit:ActionTargetList>
<audit:ActionMode>USER_INITIATED</audit:ActionMode>
</audit:AuditRecordHeader>
</EventAuthenticate>
</AuditRecordList>
</StructuredPayload>
</TrustedDataObject>
```