

CA DataMinder

Universal Extractor XML Schema Guide

Release 14.6



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CA Technologies Product References

This document references the following CA Technologies products:

- CA DataMinder™

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Chapter 1: About Universal Extractor XML Schema

This document summarizes the schema for output files generated by the XML metadata extractor, a module of the CA DataMinder APM Universal Extractor. It includes an example XML output file.

This section contains the following topics:

[Basic Structure](#) (see page 7)

[Encryption Intervention](#) (see page 8)

Basic Structure

The example XML output file contains a series of <event> elements. Each <event> element can include <trigger>, <audit>, <issue> and <smart_tag> elements. In addition, <issue> elements can themselves contain nested <participant> and <audit> elements, and <audit> elements can contain <auditEmail> elements:

```
<events>
  <event>
    <trigger />
    <audit />
    <issue>
      <participant />
      <audit>
        <auditEmail />
      <audit />
    <issue />
    <smart_tag />
  </event>
</events>
```

All elements within the <event> element are optional.

An <issue> element always contains at least one <audit> element.

All elements can occur multiple times within an event.

Example: There may be several <trigger> elements within an <event>, or several <participant> within an <issue>.

Encryption Intervention

When the trigger intervention is 'Encryption advised', if there are no 'ignored' or 'encrypted' attributes then it means that the user cancelled the operation e.g. for an email event, the email was not sent.

Chapter 2: XML Schema for Metadata Output Files

The XML schema for metadata output files is described in UEExportRecords.xsd. This file is reproduced below. It is available from CA Support at <http://ca.com/support>

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema elementFormDefault="qualified" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
version="1.0">
  <xsd:annotation>
    <xsd:documentation>
      *****
      # © Copyright CA 2010. All rights reserved.
      *****
      #
      # Project:      Universal Extractor
      # Component:    Export Records Schema
      # Author:       Rod Thomas
      # Create Date:  2 November 2005
      # Description:  XML Schema defining the content of an export records file from the UE
      #
      *****
      #
      # Source Code Control Information (do not change this section)
      #
      # Filename:     $Archive: /wigan/UniversalExtractor/schemas/UEExportRecords.xsd $
      # Revision:     $Revision: 15 $
      # Modified by:  $Author: Thorol4 $
      # Modified date: $Modtime: 22/07/10 12:28 $
      #
      *****
    </xsd:documentation>
  </xsd:annotation>
  <xsd:element name="events">
    <xsd:complexType>
      <xsd:choice minOccurs="0" maxOccurs="unbounded">
        <xsd:element ref="event" />
      </xsd:choice>
      <xsd:attribute name="source" use="optional" type="short_string_type"
default="CA DataMinder" />
      <xsd:attribute name="exportTimestamp" use="required" type="xsd:dateTime" />
      <xsd:attribute name="fileno" use="optional" type="xsd:unsignedLong" />
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="event">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="trigger" />
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="audit" />
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="issue" />
        <xsd:element minOccurs="0" maxOccurs="unbounded" ref="smart_tag" />
      </xsd:sequence>
      <xsd:attribute name="eventUID" use="required" type="xsd:unsignedLong" />
      <xsd:attribute name="eventTimestamp" use="required" type="xsd:dateTime" />
      <xsd:attribute name="type" use="required" type="event_type" />
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

```
        <xsd:attribute name="remoteID" use="required" type="string_type" />
        <xsd:attribute name="subject" use="optional" type="long_string_type" />
        <xsd:attribute name="isPermanent" use="optional" type="xsd:boolean" />
        <xsd:attribute name="expiryTimestamp" use="optional" type="xsd:dateTime" />
        <xsd:attribute name="direction" use="optional" type="direction_type" />
        <xsd:attribute name="channel" use="optional" type="channel_type" />
        <xsd:attribute name="IMNetwork" use="optional" type="string_type" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="trigger">
    <xsd:complexType>
        <xsd:attribute name="name" use="required" type="string_type" />
        <xsd:attribute name="policyText" use="optional" type="string_type" />
        <xsd:attribute name="matchText" use="optional" type="long_string_type" />
        <xsd:attribute name="actionName" use="optional" type="string_type" />
        <xsd:attribute name="transactionValue" use="optional" type="string_type" />
        <xsd:attribute name="transactionLimit" use="optional" type="string_type" />
        <xsd:attribute name="classification" use="optional" type="string_type" />
        <xsd:attribute name="ghost" use="optional" type="xsd:boolean" />
        <xsd:attribute name="performed" use="optional" type="xsd:boolean" />
        <xsd:attribute name="auto" use="optional" type="xsd:boolean" />
        <xsd:attribute name="redirect" use="optional" type="string_type" />
        <xsd:attribute name="intervention" use="optional" type="intervention_type"
/>
        <xsd:attribute name="incomingBlock" use="optional" type="incomingBlock_type"
/>
        <xsd:attribute name="ignored" use="optional" type="xsd:boolean" />
        <xsd:attribute name="personal" use="optional" type="xsd:boolean" />
        <xsd:attribute name="encrypted" use="optional" type="xsd:boolean" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="issue">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element minOccurs="0" maxOccurs="unbounded" ref="participant" />
            <xsd:element minOccurs="1" maxOccurs="unbounded" ref="audit" />
        </xsd:sequence>
        <xsd:attribute name="name" use="required" type="string_type" />
        <xsd:attribute name="participant" use="optional" type="string_type" />
        <!-- Deprecated -->
    </xsd:complexType>
</xsd:element>
<xsd:element name="audit">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element minOccurs="0" maxOccurs="unbounded" ref="auditEmail" />
        </xsd:sequence>
        <xsd:attribute name="type" use="required" type="audit_type" />
        <xsd:attribute name="reviewer" use="required" type="short_string_type" />
```

```

        <xsd:attribute name="field1" use="optional" type="string_type" />
        <xsd:attribute name="comment" use="optional" type="string_type" />
        <xsd:attribute name="expiryTimestamp" use="optional" type="xsd:dateTime" />
        <xsd:attribute name="isPermanent" use="optional" type="xsd:boolean" />
        <xsd:attribute name="field2" use="optional" type="string_type" />
        <xsd:attribute name="field3" use="optional" type="long_string_type" />
        <xsd:attribute name="quarantineStatus" use="optional" type="quarantine_type"
/>

        <xsd:attribute name="participant" use="optional" type="string_type" />
        <xsd:attribute name="issueName" use="optional" type="string_type" />
        <xsd:attribute name="timestamp" use="required" type="xsd:dateTime" />
        <xsd:attribute name="exportFormat" use="optional" type="string_type" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="smart_tag">
    <xsd:complexType>
        <xsd:attribute name="name" use="required" type="string_type" />
        <xsd:attribute name="value" use="required" type="string_type" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="participant">
    <xsd:complexType>
        <xsd:attribute name="address" use="required" type="string_type" />
    </xsd:complexType>
</xsd:element>
<xsd:element name="auditEmail">
    <xsd:complexType>
        <xsd:attribute name="to" use="required" type="string_type" />
        <xsd:attribute name="cc" use="optional" type="string_type" />
        <xsd:attribute name="bcc" use="optional" type="string_type" />
        <xsd:attribute name="subject" use="optional" type="string_type" />
        <xsd:attribute name="body" use="optional" type="long_string_type" />
        <xsd:attribute name="attachment" use="optional" type="attachment_type" />
        <xsd:attribute name="readReceipt" use="optional" type="xsd:boolean" />
        <xsd:attribute name="priority" use="optional" type="priority_type" />
    </xsd:complexType>
</xsd:element>
<!-- Type Definitions -->
<xsd:simpleType name="string_type">
    <xsd:restriction base="xsd:string">
        <xsd:minLength value="0" />
        <xsd:maxLength value="255" />
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="short_string_type">
    <xsd:restriction base="xsd:string">
        <xsd:minLength value="0" />
        <xsd:maxLength value="128" />
    </xsd:restriction>

```

```
</xsd:simpleType>
<xsd:simpleType name="long_string_type">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0" />
    <xsd:maxLength value="4000" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="event_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Web" />
    <xsd:enumeration value="E-mail" />
    <xsd:enumeration value="IM" />
    <xsd:enumeration value="Appmon" />
    <xsd:enumeration value="Bloomberg" />
    <xsd:enumeration value="IM as E-mail" />
    <xsd:enumeration value="eFax" />
    <xsd:enumeration value="File" />
    <xsd:enumeration value="File:Exchange" />
    <xsd:enumeration value="File:Sharepoint" />
    <xsd:enumeration value="File:Database" />
    <xsd:enumeration value="File:Network" />
    <xsd:enumeration value="File:Save" />
    <xsd:enumeration value="File:Print" />
    <xsd:enumeration value="Unknown" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="direction_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Incoming" />
    <xsd:enumeration value="Outgoing" />
    <xsd:enumeration value="Webmail" />
    <xsd:enumeration value="Unknown" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="channel_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Webmail" />
    <xsd:enumeration value="Web" />
    <xsd:enumeration value="FTP" />
    <xsd:enumeration value="NNTP" />
    <xsd:enumeration value="IM" />
    <xsd:enumeration value="Unknown" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="intervention_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Block Quietly" />
    <xsd:enumeration value="Block with Notification" />
    <xsd:enumeration value="Warn" />
  </xsd:restriction>
</xsd:simpleType>
```

```
<xsd:enumeration value="Warn with Personal" />
<xsd:enumeration value="None" />
<xsd:enumeration value="Inform" />
<xsd:enumeration value="Notify" />
<xsd:enumeration value="Quarantine Quietly" />
<xsd:enumeration value="Quarantine with Notification" />
<xsd:enumeration value="Legal Hold Notification" />
<xsd:enumeration value="Categorize single" />
<xsd:enumeration value="Categorize multiple" />
<xsd:enumeration value="No further actions" />
<xsd:enumeration value="Encryption advised" />
<xsd:enumeration value="Encryption enforced" />
<xsd:enumeration value="Unknown" />
</xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="incomingBlock_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Deleted" />
    <xsd:enumeration value="Content Replaced" />
    <xsd:enumeration value="None" />
    <xsd:enumeration value="Unknown" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="audit_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Viewed" />
    <xsd:enumeration value="Status Changed" />
    <xsd:enumeration value="Comment" />
    <xsd:enumeration value="Expiry Date Changed" />
    <xsd:enumeration value="Permanent Flag Changed" />
    <xsd:enumeration value="Mailed Event" />
    <xsd:enumeration value="Classifier Changed" />
    <xsd:enumeration value="Action Changed" />
    <xsd:enumeration value="Quarantine Changed" />
    <xsd:enumeration value="Issue Participant Changed" />
    <xsd:enumeration value="Issue Name Changed" />
    <xsd:enumeration value="Issue Created" />
    <xsd:enumeration value="Event Exported" />
    <xsd:enumeration value="Event Printed" />
    <xsd:enumeration value="Participant Added" />
    <xsd:enumeration value="Participant Removed" />
    <xsd:enumeration value="Unknown" />
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="quarantine_type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Reject" />
    <xsd:enumeration value="Release" />
    <xsd:enumeration value="Success" />
  </xsd:restriction>
</xsd:simpleType>
```

```
        <xsd:enumeration value="Fail/Retry" />
        <xsd:enumeration value="Fail/Block" />
        <xsd:enumeration value="Unknown" />
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="attachment_type">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="EVL" />
        <xsd:enumeration value="MSG" />
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="priority_type">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Low" />
        <xsd:enumeration value="Normal" />
        <xsd:enumeration value="Urgent" />
        <xsd:enumeration value="Unknown" />
    </xsd:restriction>
</xsd:simpleType>
</xsd:schema>
```

Chapter 3: Example XML Metadata Output File

```
<?xml version="1.0" encoding="UTF-8" ?>

<events source="CA DataMinder" exportTimestamp="2005-11-10T12:23:53" fileno="1">

    <event eventUID="1021022"
        eventTimestamp="2005-05-13T00:52:31"
        type="E-mail"
        remoteID="0A0D2E01B7CC6241AA3B0C33746F54E3"
        subject="Prospects for Q3"
        direction="Outgoing"/>

    <event eventUID="1021023"
        eventTimestamp="2005-05-24T15:28:45"
        type="E-mail"
        remoteID="0A0CF0A2DECA5045B64B5138F22F4A27"
        subject="New prospect!!">
        <audit type="Viewed"
            reviewer="SRimmel"
            timestamp="2005-11-08T10:12:33" />
    </event>
```

```
<event eventUID="1021024"
  eventTimestamp="2005-05-23T09:38:46"
  type="E-mail"
  remoteID="0A0D578C3B19FA44B275378082A07299"
  subject="FW: Prospects for Q3"
  isPermanent="false"
  expiryTimestamp="2006-05-23T09:38:46" />

<event eventUID="1021025"
  eventTimestamp="2005-05-22T01:26:29"
  type="E-mail"
  remoteID="0A0A72C54DB8BE4EA702EB9119F0D95A"
  subject="RE: Prospects for Q3">
  <audit type="Viewed"
    reviewer="SRimmel"
    timestamp="2005-05-24T09:51:46" />
  <issue name="Refers to ongoing lawsuit"
    participant="All">
    <audit type="Issue Created"
      reviewer="SRimmel"
      timestamp="2005-05-24T17:10:28" />
  </issue>
  <issue name="Client attorney privilege"
    participant="FSchaeffer">
    <audit type="Issue Created"
      reviewer="SRimmel"
      timestamp="2005-05-24T17:10:28" />
  </issue>
</event>

<event eventUID="1021028"
  eventTimestamp="2006-05-26T10:26:10"
  type="E-mail"
  remoteID="03">
  <trigger name="Unauthorized reference to Unipraxis IPO"
    policyText="IPO,initial public offering"
    matchText="IPO"
    actionName="Block unauthorized message"
    performed="true"
    intervention="Block with Notification" />
</event>
```

```
<event eventUID="1021029"
  eventTimestamp="2006-05-26T10:27:40"
  type="E-mail"
  remoteID="02">
  <trigger name="Unauthorized image attachments"
    policyText="*"
    matchText=".jpg,*.gif,*.bmp"
    actionName="Warn sender"
    performed="true"
    intervention="Warn" />
</event>

<event eventUID="1021030"
  eventTimestamp="2006-05-26T10:30:37"
  type="E-mail"
  remoteID="01">
  <trigger name="Third Party Copyright Classifier"
    policyText="Copyright ©2006 Orchestria"
    matchText="scored:5 required: 4"
    actionName="Block unauthorized message"
    classification="Generic:Third Party Copyrighted Material"
    performed="true"
    intervention="Block with Notification" />
</event>

<event eventUID="1021026"
  eventTimestamp="2005-05-23T13:04:58"
  type="E-mail"
  remoteID="0A0A56EF873FB24A81825427FAC79404"
  subject="US sales figures">
  <audit type="Viewed"
    reviewer="SRimmel"
    timestamp="2005-05-24T12:33:44" />
  <audit type="Quarantine Changed"
    reviewer="SRimmel"
    quarantineStatus="Reject"
    timestamp="2005-05-24T16:42:15" />
  <audit type="Permanent Flag Changed"
    reviewer="SRimmel"
    isPermanent="true"
    timestamp="2005-05-26T10:56:29" />
```

```
<audit type="Comment"
  reviewer="SRimmel"
  comment="Retained for compliance review"
  timestamp="2005-05-26T10:56:29" />
<audit type="Expiry Date Changed"
  reviewer="SRimmel"
  expiryTimestamp="2005-08-25T00:00:00"
  timestamp="2005-05-26T10:56:29" />
<audit type="Mailed Event"
  reviewer="SRimmel"
  timestamp="2005-05-26T10:57:11">
  <auditEmail to="Lynda Steel"
    subject="Your urgent attention is required"
    body="Hi Lyn, the attached mail is a possible 472
violation.
                                What do you think? Spencer"
    attachment="EVL"
    priority="Normal"
    readReceipt="true" />
  </audit>
</event>

<event eventUID="1021027"
  eventTimestamp="2005-05-22T09:08:56"
  type="E-mail"
  remoteID="0A0D0C4AF3FA044CAB6C69BFD8E150CE"
  subject="Outstanding market opportunity">
  <audit type="Viewed"
    reviewer="SRimmel"
    timestamp="2005-05-24T09:51:47" />
  <issue name="Client attorney privilege"
    participant="All">
    <audit type="Action Changed"
      reviewer="SRimmel"
      field3="Referred to compliance officer"
      timestamp="2005-05-25T17:10:28" />
    <audit type="Status Changed"
      reviewer="SRimmel"
      field1="Referred"
      timestamp="2005-05-25T17:10:28" />
```

```
<audit type="Issue Created"
  reviewer="SRimmel"
  timestamp="2005-05-25T17:10:28" />
<audit type="Classifier Changed"
  reviewer="SRimmel"
  field2="Internal User Only"
  timestamp="2005-05-25T17:10:28" />
<audit type="Mailed Event"
  reviewer="SRimmel"
  timestamp="2005-05-26T10:57:11">
  <auditEmail to="Compliance Officer"
    subject="Urgent! Possible compliance violation"
    cc="fschaeffer"
    body="***PLEASE REVIEW THE ATTACHED MAIL
URGENTLY***
                                Please review and advise the Compliance
Officer
                                of any action you take"
    priority="Urgent" />
  </audit>
</issue>
</event>
</events>
```