

CA DataMinder

Data Lookup 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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Contents

Chapter 1: About Data Lookup XML Schema	7
Notes	12
Chapter 2: Full XML Schema	13

Chapter 1: About Data Lookup XML Schema

XML attribute ('xmlattr') data lookup commands can be used to detect metadata attributes of events. This metadata is stored in XML format. This allows policy triggers to access event information that is not accessible through any other trigger.

This guide describes the full XML schema for the event metadata attributes. The schema structure is specified in the file `xmleventattributes.xsd`.

The full supported XML schema is complex. This section summarizes the schema structure and shows the main tags.

```
<?xml version="1.0" ?>
<apm>

  <event>
    <security>

      <email>
        <attributes>
        <channel>
        <protocol>
        <embedding>
          <process_as>
          <network_name>
        <header>
        <envelope>
          <subject>
          <participants>
            <participant>
            <displayName>
            <address>

      <file>
        <host>
        <hash>
        <signature>
        <filename>
        <volume>
        <path>
        <device>
        <application>
        <application_path>
        <channel>
        <protocol>
        <url>
        <created>
        <accessed>
        <modified>
        <size>
        <file_attr>
```

<file> continued

```
<title>
<subject>
<author>
<property_set>
  <property>
<stream>
<size>
<participants>
  <participant>
    <username>
    <address>
<database>
  <type>
  <name>
  <source>
  <datasource>
  <header>
    <column>
  <data>
    <row>
      <cell>
```

```
<policy>
  <state>
    <smart_tags>
      <smart_tag>
    <flags>
      <flag>
```

```
<client_actions>
  <mail_block>
    <dialog_title>
    <dialog_message>
  <mail_warned>
    <dialog_title>
    <dialog_message>
  <mail_personal>
    <dialog_title>
    <dialog_message>
  <mail_inform>
    <dialog_title>
    <dialog_message>
```

```
<client_actions> continued

  <mail_forward>
    <subject>
    <body>
    <to>
  <mail_reply>
    <subject>
    <body>
  <mail_new>
    <subject>
    <body>
    <from>
    <to>
    <cc>
    <bcc>
  <mail_move_to_bcc>
    <recipient>
  <mail_set_xheader>
    <name>
    <value>

  <web_block>
    <redirect_url>

  <appmon_block>
  <appmon_update_timeout>
    <timeout_milliseconds>
  <appmon_title_timeout>
    <timeout_milliseconds>

  <file_delete>
  <file_replace>
    <replacement_text>
  <file_copy>
    <location>
  <file_tag>
    <name>
    <value>
  <file_block>
    <dialog_title>
    <dialog_message>

<action_results>
  <all_results>
    <mail_warned>
    <mail_personal>
    <mail_inform>
```

```
<old_policy_results>
  <mail_warned>
  <mail_personal>
  <mail_inform>

<user>
```

Notes

<event>

This element contains the core attributes of the event. The private section is generated and maintained by CA DataMinder. The public section can be supplied by a third party. Public supplied data is considered less reliable than private data.

<policy>

This element specifies the data attributes needed to allow policy application to complete. It also contains the outcome of policy application.

<user>

This element can specify additional attributes supplied by the caller. Please contact CA Support for guidelines. Briefly, the schema for this element is defined by the caller (when using the public External Agent API).

Chapter 2: Full XML Schema

This section describes the full XML schema for event metadata and includes the type and value attributes for relevant tabs.

```
<?xml version="1.0" ?>
```

```
<apm schema_version="1" xmlns="http://www.orchestria.com"  
xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance  
xsi:schemaLocation=http://www.orchestria.com xmleventattributes.xsd >
```

```
<event>
```

```
<!-- general attributes -->  
<security id="1234" />  
<!-- This attribute is stored in the database and may be -->  
<!-- validated against a session security ID at search time -->  
<!-- to ensure that only allowed users can view this event -->
```

```
<!-- Email attributes -->
<email>
  <attributes draft="true" />
  <!-- draft = true or false -->
  <channel>web</channel>
  <protocol>gmail</protocol>
  <embedding>
    <process_as>IM</process_as>
    <!-- Can be set to IM, eFax, or Bloomberg -->
    <network_name>Bloomberg</network_name>
    <!-- Can be set Bloomberg, Mindalign, Jabber, HubConnex, etc -->
  </embedding>
  <header type="x-header" guid="">
    <!-- type = x-header, mapi_prop, or notes_prop -->
    <item type="xs:string" name="" item_id="0">
      <!-- type = "xs:string|..." -->
    </item>
  </header>
  <envelope direction="none" security="none">
    <!-- direction = one, incoming, outgoing, or transit -->
    <!-- security = none, enc, sig, encsig, or secure -->
    <subject>Email Subject</subject>
    <participants>
      <participant partClass="to" no_create="false">
        <!-- partClass = to, cc, bcc, from, robo, sobo, or transport -->
        <!-- no_create = true or false -->
        <displayName />
        <address addrType="smtp" primary="true" default="true">
          <!-- addrType = smtp, ex, x400, and so on -->
          <!-- primary = true or false -->
          <!-- default = true or false -->
          <!-- no_create = true or false -->
        </address>
      </participant>
    </participants>
  </envelope>
</email>
```

```
<!-- File attributes -->
<file>
  <host>HostName</host>
  <hash type="sha-256">hashvalue</hash>
  <signature offset="0" length="0">FileSig</signature>
  <filename>Filename.txt</filename>
  <volume>C:</volume>
  <path>C:\folder\</path>
  <device local="true" type="printer" connection="network"
    removable="true" server="server_name"
    location="my location">MyPrinter</device>
    <!-- local = true or false -->
    <!-- type = printer or drive -->
    <!-- connection = usb, network, IDE, PCI, SCSI, and so on -->
    <!-- removable = true or false -->
    <!-- location = user defined physical printer location -->
  <application>application</application>
  <application_path>path</application_path>
  <channel>web</channel>
  <protocol>gmail</protocol>
  <url>http://server.com/files</url>
  <created>2000-01-01T00:00:00</created>
  <modified>2000-01-01T00:00:00</modified>
  <accessed>2000-01-01T00:00:00</accessed>
    <!-- date format: yyyy-mm-ddThh:mm:ss -->
  <size>0</size>
  <file_attr compressed="true" encrypted="true" hidden="true"
    offline="true" readonly="true" system="true"
    temporary="true" archive="true" />
    <!-- File attributes = true or false. Individual, but will
    typically only be present if they are "true" -->
  <title>Doc Title</title>
  <subject>Doc Subject</subject>
  <author>Doc Author</author>
  <property_set name="">
    <property name="" prop_id="1" type="xs:string">Prop Value</property>
  </property_set>
  <stream name="">
    <size>0</size>
  </stream>
```

```
<participants>
  <participant partClass="policy" no_create="false">
    <!-- partClass = policy, owner, creator, assoc,
    src, dest, or host -->
    <!-- no_create = true or false -->
    <username />
    <!-- username = CA DataMinder user name -->
    <address addrType="smtp" primary="true" default="true">
      <!-- addrType = smtp, ex, x400, and so on -->
      <!-- primary = true or false -->
      <!-- default = true or false -->
    </address>
  </participant>
</participants>
<database>
  <type>SQL</type>
  <name>Database Name</name>
  <source type="query">SELECT * from MyTable</source>
  <!-- type = query, table, or view -->
  <datasource>datasource from connection string</datasource>
  <header>
    <column name="Column Name" type="varchar" size="255" />
  </header>
  <data>
    <row>
      <cell>Cell Data</cell>
      <cell stream_index="0" size="1024" />
      <!-- cell tags must be one of two types: specifying
      data directly; or a reference to a stream -->
    </row>
  </data>
</database>
</file>
</event>
```

```
<!-- Policy -->
<policy>
  <state>
    <smart_tags>
      <smart_tag name="">
        <!-- Each smart tag can have multiple values -->
        <value />
      </smart_tag>
    </smart_tags>
    <flags>
      <flag name="block_notify" />
      <!--name = stopped, block_notify, block_quiet, and so on.
      Based on the list of event state names -->
    </flags>
  </state>

  <client_actions policy_id="id_string">
    <mail_block>
      <dialog_title>Blocked Title</dialog_title>
      <dialog_message>Blocked Message</dialog_message>
    </mail_block>
    <mail_warned decision_id="id_string">
      <dialog_title>Warn Title</dialog_title>
      <dialog_message>Warn Message</dialog_message>
    </mail_warned>
    <mail_personal decision_id="id_string">
      <dialog_title>Title</dialog_title>
      <dialog_message>Message</dialog_message>
    </mail_personal>

    <mail_inform decision_id="id_string">
      <dialog_title>Inform Title</dialog_title>
      <dialog_message>Inform Message</dialog_message>
    </mail_inform>
    <mail_forward>
      <subject>Email subject</subject>
      <body>Email body</body>
      <to>Recipient address</to>
    </mail_forward>
    <mail_reply attach_original="true" reprocess="true">
      <subject>Email subject</subject>
      <body>Email body</body>
    </mail_reply>
```

```
<mail_new attach_original="true">
  <subject>Email subject</subject>
  <body>Email body</body>
  <!-- Multiple email addresses of each type can be specified. Each
  address is either a 'substitute' address or, (if 'substitute' is
  missing or set to "address") is specified by the Address value. -->
  <from substitute="original_sender">Address</from>
    <!-- substitute = original_sender, apm_user, or address -->
  <to substitute="all_recipients">Address</to>
    <!-- substitute = original_sender, to_recipients,
    cc_recipients, bcc_recipients, all_recipients, or address" -->
  <cc substitute="all_recipients">Address</cc>
    <!-- substitute = original_sender, to_recipients,
    cc_recipients, bcc_recipients, all_recipients, or address" -->
  <bcc substitute="all_recipients">Address</bcc>
    <!-- substitute = original_sender, to_recipients, cc_recipients,
    bcc_recipients, all_recipients, or address" -->
</mail_new>

<mail_move_to_bcc>
  <recipient substitute="all_recipients">Address</recipient>
    <!-- substitute="all_recipients|address" -->
</mail_move_to_bcc>
<mail_set_xheader>
  <name>xheader name</name>
  <value>xheader value</value>
</mail_set_xheader>

<web_block>
  <redirect_url>redirection url</redirect_url>
</web_block>

<appmon_block />
<appmon_update_timeout>
  <timeout_milliseconds>0</timeout_milliseconds>
</appmon_update_timeout>
<appmon_title_timeout>
  <timeout_milliseconds>0</timeout_milliseconds>
</appmon_title_timeout>
```

```
<file_delete secure="true" />
<file_replace secure="true">
  <replacement_text>Replacement text</replacement_text>
</file_replace>
<file_copy mode="absolute" if_conflicts="copy">
  <!-- mode = relative or absolute -->
  <!-- if_conflicts = discard, overwrite, or copy -->
  <location>Copy location</location>
</file_copy>

<file_tag target="original">
  <!-- target = original or copy -->
  <name>Tag name</name>
  <value>Tag value</value>
</file_tag>
<file_block>
  <dialog_title>Blocked Title</dialog_title>
  <dialog_message>Blocked Message</dialog_message>
</file_block>
</client_actions>

<action_results policy_id="id_string">
  <!-- action_res = cancel, continue, or personal -->
  <all_results>
    <mail_warned decision_id="id_string" action_res="continue" />
    <mail_personal decision_id="id_string" action_res="continue" />
    <mail_inform decision_id="id_string" action_res="continue" />
  </all_results>
  <old_policy_results>
    <mail_warned decision_id="id_string" action_res="continue" />
    <mail_personal decision_id="id_string" action_res="continue" />
    <mail_inform decision_id="id_string" action_res="continue" />
  </old_policy_results>
</action_results>

</policy>

<!-- user -->
<user />

</apm>
```