

CA DataMinder

Data Lookup XML Schema Guide

Release 14.5



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CA Technologies Product References

This document references the following CA Technologies products:

- CA DataMinder

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Chapter 1: Introduction

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>
  </client_actions>
</policy>

```

```
<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>
```


Appendix A: Accessibility Features

CA Technologies is committed to ensuring that all customers, regardless of ability, can successfully use its products and supporting documentation to accomplish vital business tasks. This section outlines the accessibility features that are supported by CA DataMinder.

Display

To increase visibility on your computer display, you can adjust the following options:

Font style, color, and size of items

Defines font color, size, and other visual combinations.

The CA DataMinder iConsole also supports a High Visibility mode. This increases the size of text and images in the iConsole screens.

Screen resolution

Defines the pixel count to enlarge objects on the screen.

Cursor width and blink rate

Defines the cursor width or blink rate, which makes the cursor easier to find or minimize its blinking.

Icon size

Defines the size of icons. You can make icons larger for visibility or smaller for increased screen space.

High contrast schemes

Defines color combinations. You can select colors that are easier to see.

Sound

Use sound as a visual alternative or to make computer sounds easier to hear or distinguish by adjusting the following options:

Volume

Sets the computer sound up or down.

Text-to-Speech

Sets the computer's hear command options and text read aloud.

Warnings

Defines visual warnings.

Notices

Defines the aural or visual cues when accessibility features are turned on or off.

Schemes

Associates computer sounds with specific system events.

Captions

Displays captions for speech and sounds.

Keyboard

You can make the following keyboard adjustments:

Repeat Rate

Defines how quickly a character repeats when a key is struck.

Tones

Defines tones when pressing certain keys.

Sticky Keys

Defines the modifier key, such as Shift, Ctrl, Alt, or the Windows Logo key, for shortcut key combinations. Sticky keys remain active until another key is pressed.

Mouse

You can use the following options to make your mouse faster and easier to use:

Click Speed

Defines how fast to click the mouse button to make a selection.

Click Lock

Sets the mouse to highlight or drag without holding down the mouse button.

Reverse Action

Sets the reverse function controlled by the left and right mouse keys.

Blink Rate

Defines how fast the cursor blinks or if it blinks at all.

Pointer Options

Let you do the following:

- Hide the pointer while typing
- Show the location of the pointer
- Set the speed that the pointer moves on the screen
- Choose the pointer's size and color for increased visibility
- Move the pointer to a default location in a dialog box