



Denying Rights Management ES Services for Specific Applications

This article explains how you can configure Adobe LiveCycle Rights Management ES to deny services to specific client applications.

Beginning with Rights Management ES version 8.2, you can configure Rights Management ES to deny services to applications that meet specific criteria, provided you are a knowledgeable LiveCycle ES administrator and you have XML experience. The criteria can specify a single attribute such as a platform name or it can specify multiple sets of attributes.

APPLIES TO

Adobe LiveCycle Rights Management ES 8.2

This feature can help you control the requests Rights Management ES must handle. Here are some applications of this feature:

Revenue protection: You may want to deny access to any client application that does not support your revenue conventions.

Application compatibility: Some applications may be incompatible with the policies or behavior of your Rights Management ES server.

CONTENTS

About application information..... 2
 Modifying the configuration file 3
 Reference for the ClientVersionRules element . 5
 Examples 7

When client applications attempt to establish a link with Rights Management ES, they supply application, version, and platform information. Rights Management ES compares this information against Denials settings it obtains from the Rights Management ES configuration file.

The Denials settings can contain several sets of denial conditions. If all of the attributes of any one set match, the requesting application is denied access to the Rights Management ES services.

The denial-of-service feature requires that client applications use the Rights Management ES C++ Client SDK version 8.2 or later. The following Adobe products provide product information when requesting Rights Management ES services:

- Adobe Acrobat 9.0 Professional/Acrobat 9.0 Standard and later
- Adobe Reader 9.0 and later
- Rights Management ES Extension for Microsoft Office 8.2 and later

About application information

Client applications use the Client API from the Rights Management ES C++ Client SDK to request services from Rights Management ES. The Client API requests include platform and SDK version information (precompiled into the Client API) and product information obtained from the client application.

Client applications or plug-ins supply product information in their implementation of a callback function. The application provides the following information:

- Integrator name
- Integrator version
- Application family
- Application name
- Application version

If any information is not applicable, the client application leaves the corresponding field blank.

Several Adobe applications include product information when requesting Rights Management ES services, including Acrobat, Adobe Reader, and Rights Management ES Extension for Microsoft Office.

Acrobat and Adobe Reader

When Acrobat 9.0 or Adobe Reader 9.0 request a service from Rights Management ES, it supplies the following product information:

Integrator: Adobe Systems, Inc.

Integrator version: 1.0

Application family: Acrobat

Application name: Acrobat

Application version: 9.0.0

Rights Management ES Extension for Microsoft Office

Rights Management ES Extension for Microsoft Office is a plug-in used with the Microsoft Office products Microsoft Word, Microsoft Excel, and Microsoft PowerPoint. When it requests a service, it supplies the following information:

Integrator: Adobe Systems Incorporated

Integrator version: 8.2

Application family: Adobe LiveCycle Rights Management ES Extension for Microsoft Office

Application name: Microsoft Word, Microsoft Excel, or Microsoft PowerPoint

Application version: 2003 or 2007

Modifying the configuration file

Modifying the configuration file involves the following general steps:

1. Get a copy of the configuration file (XML format).
2. Make a backup copy of the configuration file in case you need to revert.
3. Add Denials information to the configuration file.
4. Import the modified configuration file to Rights Management ES.

Getting a copy of the LiveCycle ES configuration

These instructions explain how to get an XML file containing the LiveCycle ES configuration. This file reveals only the Rights Management ES settings.

► **To get an XML file containing the LiveCycle ES configuration:**

1. Log in to LiveCycle Administration Console.
2. Navigate to **Home > Services > LiveCycle Rights Management ES > Configuration > Manual Configuration**.
3. Click **Export**.
4. Save the file to your disk.

Adding Denials settings to the configuration file

These instructions explain how to modify the LiveCycle ES configuration file with the Denials settings.

Note: Modify only those settings in the configuration file that pertain to Denials.

► **To add Denials settings to the configuration file:**

1. Open the configuration file, using a line editor or an XML editor.
2. Locate the `PolicyServer` node element.
3. If the `PolicyServer` node element does not already contain a `ClientVersionRules` node element, add one using the [“Syntax of a ClientVersionRules element” on page 4](#) as a template. Copy and paste the template as an immediate child of the `PolicyServer` node element. The italicized text in the template indicates where you should provide your own values.
4. For each additional set of denial data, add another `MyEntryName` element.
5. Save the modified file, specifying a file name that indicates the denial settings it contains. The file name is not meaningful to Rights Management ES; however, it may help you manage the changes you make.

See [“Reference for the ClientVersionRules element” on page 5](#).

Syntax of a ClientVersionRules element

```
<node name="ClientVersionRules">
  <map>
    <entry key="infoURL" value="URL"/>
  </map>
  <node name="Denials">
    <map/>
    <node name="MyEntryName">
      <map>
        <entry key="SDKPlatforms" value="platforms"/>
        <entry key="SDKVersions" value="versions"/>
        <entry key="AppFamilies" value="families"/>
        <entry key="AppNames" value="names"/>
        <entry key="AppVersions" value="versions"/>
        <entry key="Integrators" value="integrators"/>
        <entry key="IntegratorVersions" value="versions"/>
      </map>
    </node>
    <node name="MyOtherEntryName">
      <map>
        [...]
      </map>
    </node>
    [...]
  </node>
</node>
```

Uploading a copy of the configuration file

These instructions explain how to upload a LiveCycle ES configuration file.

► To upload a LiveCycle ES configuration file:

1. Log in to LiveCycle Administration Console.
2. Navigate to **Home > Services > LiveCycle Rights Management ES > Configuration > Manual Configuration**.
3. Click **Browse** and locate the configuration file you modified earlier.
4. Click **Import**.

Reference for the ClientVersionRules element

This section describes the basic syntax and semantics of the ClientVersionRules element in the LiveCycle ES configuration file. This element lets you configure Rights Management ES to deny services to specific client applications.

node name="PolicyServer"

Top-level node for Rights Management ES settings.

```
<node name="PolicyServer">
  <map/> [0..1]
  <node name="ClientVersionRules"/> [0..1]
  <node name="OtherCategories"/> [0..n]
</node>
```

This element includes all Rights Management ES settings.

node name="ClientVersionRules"

Settings related to settings used to determine denial.

```
<node name="ClientVersionRules">
  <map>
    <entry
      key = "infoURL"
      value = "URL"
    />
  </map> [0..1]
  <node name="Denials"/> [0..1]
</node>
```

The `map` element in this node can specify a URL that the server returns to the client as part of the exception if the client is denied access. The client can use the URL to present the user with more information on the denial.

The `map` element can contain the following attributes:

key: Type of data identified in the `value` attribute. A value of `infoURL` indicates that the value specifies a URL that is displayed by the client application to provide more information about the denial.

value: URL that provides information about the denial condition. For example, `value="http://www.dont.use/windows.html"`.

node name="Denials"

Sets of characteristics used to determine whether the client should be denied access to Rights Management ES.

```
<node name="Denials">
  <map/> [0..1]
  <node name="MyEntryName"/> [0..n]
</node>
```

Each [node name="MyEntryName"](#) provides a set of conditions that Rights Management ES compares with corresponding client information. If all types of information specified in any one [node name="MyEntryName"](#) element matches the corresponding client information, the client is denied access.

node name="MyEntryName"

Set of related data that determines denial.

```
<node name="MyEntryName">
  <map>
    <entry
      key="SDKPlatforms" | "SDKVersions" | "AppFamilies" | "AppNames" |
        "AppVersions" | "Integrators" | "IntegratorVersions"
      value=string
    /> [0..n]
  </map> [0..1]
</node>
```

The value of each `entry` element is a comma-separated list of strings. Only the entries present in this node are considered in the matching. A client is denied access if each entry contains a string that matches the corresponding data supplied with the client information. For entries that include multiple comma-separated strings, a positive match for the entry is the result of one of the strings in the entry matching the corresponding client information. The match is case-sensitive and white-space sensitive.

key: Type of data provided in the `value` attribute. The following values are defined:

SDKPlatforms: Platform hosting the client application. Here are the possible platform names :

Microsoft Windows

Apple OS X

Sun Solaris

HP-UX

SDKVersions: Version of the Rights Management ES C++ Client API used by the client application. For example, "8.2".

AppFamilies: Client API defines this entry.

AppNames: Name of the client application.

AppVersions: Version of the client application.

Integrators: Name of the company or group that developed the plug-in or integrated application. For example, "Acme Plugin Co., Integrated Solutions Inc.". (Notice that commas are omitted from both strings. Commas can be used only as name separators.)

IntegratorVersions: Version of the plug-in or integrated application.

value: One or more string-separated entries that correspond to the type specified in the `key` attribute. The names are case-sensitive. For a successful match at the key level, at least one of the strings must match the corresponding string supplied by the client application.

Caution: Commas can be used only as name separators and there is no way to escape commas. As a result, you should omit any commas that appear within a name. In the example, `Integrated Solutions Inc.` the comma is omitted within the integrator name.

Examples

In this example, all Windows clients are denied access.

```
<node name="ClientVersionRules">
  <map>
    <entry key="infoURL" value="http://www.dont.use/windows.html"/>
  </map>
  <node name="Denials">
    <map/>
    <node name="Entry_1">
      <map>
        <entry key="SDKPlatforms" value="Microsoft Windows"/>
      </map>
    </node>
  </node>
</node>
```

In this example, My Application version 3.0 and My Other Application version 2.0 are denied access. The same denials information URL is used regardless of the reason for denial.

```
<node name="ClientVersionRules">
  <map>
    <entry key="infoURL" value="http://get.a.new/version.html"/>
  </map>
  <node name="Denials">
    <map/>
    <node name="FirstDenialSettings">
      <map>
        <entry key="AppNames" value="My Application"/>
        <entry key="AppVersions" value="3.0"/>
      </map>
    </node>
    <node name="SecondDenialSettings">
      <map>
        <entry key="AppNames" value="My Other Application"/>
        <entry key="AppVersions" value="2.0"/>
      </map>
    </node>
  </node>
</node>
```

In this example, all requests from a Microsoft PowerPoint 2003 or Microsoft PowerPoint 2007 installation of Rights Management ES Extension for Microsoft Office are denied.

```
<node name="ClientVersionRules">
  <map>
    <entry key="infoURL" value="http://get.a.new/version.html"/>
  </map>
  <node name="Denials">
    <map/>
    <node name="Entry_1">
      <map>
        <entry key="AppFamilies" value=
"Adobe LiveCycle Rights Management ES Extension for Microsoft Office"/>
        <entry key="AppNames" value= "Microsoft PowerPoint"/>
        <entry key="AppVersions" value="2003, 2007"/>
      </map>
    </node>
  </node>
</node>
```



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