

**SOFTWARE TAG  
IMPLEMENTATION IN  
ADOBE PRODUCTS  
TECH NOTE**



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*Software Tag Implementation in Adobe Products Tech Note*

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# Software Tagging in Adobe Products

## Overview

Organizations have a need to determine, at any given point in time, the installation and license-related information about the software products deployed on their systems. This helps them in their Software Asset Management (SAM) tasks, and helps them to deploy the products effectively while also complying with the licensing terms, and to increase the productivity of users.

As the number of employees in an organization and/or the software products deployed increases, the problem of maintaining the installation and license-related information becomes more and more challenging.

The problem is addressed by the use of software tagging. Software tagging is the process of maintaining a set of tag files (.swidtag) on a client machine to determine the installation and license state of various software products. A software tag file is an XML file that contains information for identification and management of software products.

For asset management, an administrator can run a SAM tool that scans the tag files on the client machine and parses them for analysis and reporting. Software tagging is thus an important part of Software Asset Management.

## ISO/IEC 19770 Standards

The ISO/IEC 19770 standards are developed by Working Group (WG) 21 - the working group delegated with the responsibility for Software Asset Management (SAM) standards.

ISO/IEC 19770 currently consists of three parts.

- ▶ ISO/IEC 19770-1:2006 is a process framework for SAM
- ▶ ISO/IEC 19770-2:2009 provides a SAM standard for software identification tags. These tags accurately identify installed software programs
- ▶ ISO/IEC 19770-3 is in draft form at the time of writing this and will provide a standard for software licensing entitlement tags. Software entitlement tags are computer files that provide authoritative identifying information about software licensing rights.

Prior to ISO/IEC 19770, electronic management of software licensing rights was non-existent. Related data had to be extracted from printed documents such as purchase orders, invoices, and purchase receipts, which were hard to organize and track. Standardization of identification- and entitlement-data tags provides uniform, discoverable data for the identification and license compliance processes of Software Asset Management.

The ISO/IEC 19770-2:2009 document can be purchased from:

[http://www.iso.org/iso/catalogue\\_detail.htm?csnumber=53670](http://www.iso.org/iso/catalogue_detail.htm?csnumber=53670)

## About TagVault.org

TagVault.org is a non-profit program of IEEE-ISTO that has been created as the registration and certification authority for SWID tags. Although Adobe is not yet a member of TagVault.org, Adobe products will attempt to conform with the various specifications and requirements as defined by the TagVault.org working groups.

## ISO/IEC 19770-2 tagging in Adobe products

Adobe Acrobat 9, shipped in the first half of 2008, was the first ever product in the industry to implement ISO/IEC 19770-2 software identification tags. Adobe Creative Suite 4, which was shipped in the second half of 2008, was next to follow.

The active development cycles for these products closed prior to the current ISO/IEC proposed Final Draft International Standard v1 19770-2 dated 2009-05-13. The implementation was, therefore, based on an earlier proposed Final Committee Draft version released on 2008-08-04.

Adobe Creative Suite 5 and Adobe Acrobat X, both shipped in 2010, implement the ISO/IEC proposed Final Draft International Standard v1 19770-2 dated 2009-05-13.

Adobe Creative Suite 5.5 also implements the ISO/IEC proposed Final Draft International Standard v1 19770-2 dated 2009-05-13.

## Tag file generation

The tag files are dynamically generated during installation and product launch.

**NOTE:** Licensing state changes or product configuration changes can result in a change to the tag files.

## Tag File Location

The location of the tag file in the Adobe products is shown in the following table. The difference in location is because the implementation in Adobe Acrobat 9 and Adobe Creative Suite 4 is based on the earlier draft ISO/IEC standard as discussed previously.

Platform	Acrobat 9 and Creative Suite 4	Acrobat 10, Creative Suite 5, and Creative Suite 5.5
Apple Macintosh OS:X	/Users/Shared/Adobe/ISO-19770	/Library/Application Support/regid.1986-12.com.adobe
Windows XP and Server 2003	%ALLUSERSPROFILE%\Application Data\Adobe\ISO-19770	%ALLUSERSPROFILE%\Application Data\regid.1986-12.com.adobe
Windows Vista, Windows 7, and Server 2008	%PROGRAMDATA%\Adobe\ISO-19770	%PROGRAMDATA%\regid.1986-12.com.adobe

## Tag file naming convention

The name of the tag file differs based on the product. The tag file names for the products are described here:

- ▶ [Acrobat 9](#)
- ▶ [Creative Suite 4](#)
- ▶ [Acrobat X, Creative Suite 5, and Creative Suite 5.5](#)

## Acrobat 9

The tag file name in Acrobat 9 is:

```
<product_title>-<unique_software_identifier>.swtag
```

- ▶ `<product_title>`

The product name, which is the same as the value of `<product>` in the tag file.

- ▶ `<unique_software_identifier>`

A GUID value, which is the same as the value of `<product>` inside the tag file.

## Creative Suite 4

The tag file name in Creative Suite 4 is:

```
<product_title>-<unique_software_identifier>.swtag
```

- ▶ `<product_title>`

The product name, which is the same as the value of `<product>` in the tag file.

- ▶ `<unique_software_identifier>`

A combination of product licensing identifier and licensed locale, which is same as the value of `<softwareID>` inside the tag file. For Creative Suite 4 products installed in the trial mode, the locale information is set to "ALL"

## Acrobat X, Creative Suite 5, and Creative Suite 5.5

The tag file name in Acrobat X, Creative Suite 5, and Creative Suite 5.5 is:

```
<regid>_<product_title>-<unique_software_identifier>.swidtag
```

- ▶ `<regid>`

Its value is `regid.1986-12.com.adobe`, which is the regid of Adobe.

- ▶ `<product_title>`

The product name, which is the same as the value of `<product>` in the tag file.

- ▶ `<unique_software_identifier>`

A combination of product licensing identifier and licensed locale, which is the same as the value of `<softwareID/unique_id>` in the tag file. Locale information is applicable only for products that are not installed in the trial mode.

## Identity elements in tag files

This section describes the identity elements in tag files.

### Identity elements in Creative Suite 4 tag file

The tables in this section list the values for the mandatory and the optional tags.

#### Mandatory elements

Tag	Description
entitlement_required	<b>true</b> for serialized/activated <b>false</b> for trial/unlicensed
product_title	
product_version	string version (combination of major, minor)
software_manufacturer	
▶ swmfgName	▶ Adobe Systems Incorporated
▶ swmfgGUID	▶ {ADBEADBE-ADBE-DBE-ADBE-ADBEADBEADBE}
software_id	
▶ unique_id	▶ product licensing identifier
▶ software_manufacturer_domain	▶ http://www.adobe.com

#### Optional elements

Tag	Description
license_linkage	
▶ activation_status	▶ trial/serialized/activated/unlicensed
▶ channel_type	▶ Retail/Trial/Unknown
▶ customer_type	▶ Retail/Trial/Unknown
serial_number	This is the product reconciliation information, and can be used to validate the product against the purchase receipt.

### Identity elements in Acrobat 9 tag file

The tables in this section list the values for the mandatory and the optional tags.

**Mandatory elements**

<b>Tag</b>	<b>Description</b>
entitlement_required	<b>true</b> for serialized/activated <b>false</b> for trial/unlicensed
software_manufacturer	
▶ swmfgName	▶ Adobe Systems Incorporated
▶ swmfgGUID	▶ {ADBEADBE-ADBE-ADBE-ADBE-ADBEADBEADBE}
product_releasedate	Will always be 1970-01-01
version	numeric version number (major, minor)
▶ major	
▶ minor	
product	Product name, for example Acrobat Pro
product_type	VOLUME/TRIAL/RETAIL/UNKNOWN
product_version	string version (major, minor)
software ID	Installer GUID

**Optional elements**

<b>Tag</b>	<b>Description</b>
licensing_dependency	Relevant only if installed as part of Creative Suite4; empty otherwise
serial_number	This is the product reconciliation information, and can be used to validate the product against the purchase receipt.
extended information	
▶ current_product_name	▶ Current active product name
▶ license_state	▶ trial/serialized/activated/unlicensed
▶ part_of_suite	▶ <i>true</i> if installed as pat of Creative Suite 4; <i>false</i> otherwise

**Identity elements in Acrobat X, Creative Suite 5, and Creative Suite 5.5 tag files**

The tables in this section list the values for the mandatory and the optional tags.



**Mandatory elements**

<b>Tag</b>	<b>Description</b>
entitlement_required_indicator	<i>true</i> for serialized/activated <i>false</i> for trial/unlicensed
product_title	Product name, for example Acrobat X Pro
product_version	
▶ name	▶ string version (major, minor)
▶ numeric	▶ numeric version (major, minor, build, review)
software_creator	
▶ name	▶ Adobe Systems Incorporated
▶ regid	▶ regid.1986-12.com.adobe
software_licensor	
▶ name	▶ Adobe Systems Incorporated
▶ regid	▶ regid.1986-12.com.adobe
software_id:	
▶ unique_id	▶ Installer GUID
▶ tag_creator_regid	▶ regid.1986-12.com.adobe
tag_creator	
▶ name	▶ Adobe Systems Incorporated
▶ regid	▶ regid.1986-12.com.adobe

**Optional elements**

<b>Tag</b>	<b>Description</b>
license_linkage:	
▶ activation_status	▶ trial/serialized/activated/unlicensed
▶ channel_type	▶ Retail/Volume/Trial/Unknown/Subscription  <b>NOTE:</b> The value "Subscription" is available only for Creative Suite 5.5
▶ customer_type	▶ Retail/Volume/Trial/Unknown
serial_number	This is the product reconciliation information, and can be used to validate the product against the purchase receipt.

## Tag File Generation and Update

The following sections explain how tag files are created and updated through the life cycle of the suite or an individual product in the suite.

- ▶ [Tag file generation during product installation](#)
- ▶ [Tag file update during product launch](#)
- ▶ [Tag file state after product is uninstalled](#)
- ▶ [Tag file update after product is reinstalled](#)

### Tag file generation during product installation

A tag file gets created for trial product with `<entitlement_required>` set as `false`.

### Tag file update during product launch

When the product is launched, the existing tag file is updated if present. If the tag file is found missing, a new tag file is created.

The tag file is updated per the licensing state of the product. The licensing state can be one of the following:

#### Trial

This represents a product that has been installed in the Trial mode. For this state:

- ▶ The value of `<entitlement_required>` tag is set to `false`
- ▶ The following information is updated:
  - ▷ entitlement key (for reconciliation purposes) in `<serial_number>`
  - ▷ license state, channel type, customer type in `<activation_status>`
  - ▷ `channel_type` and `customer_type` in `<license_linkage>`

#### Serialized/Activated

This represents a product that has been serialized or activated. For this state:

- ▶ The value of `<entitlement_required>` tag is set to `true`
- ▶ The following information is updated:
  - ▷ entitlement key (for reconciliation purposes) in `<serial_number>`
  - ▷ license state, channel type, customer type in `<activation_status>`
  - ▷ `channel_type` and `customer_type` in `<license_linkage>`

#### Unlicensed

The unlicensed state can occur for any of the following reasons:

- ▶ The product has been deactivated
- ▶ The serial number has expired
- ▶ The serial number is invalid
- ▶ The licensing state cannot be determined

For this state:

- ▶ The value of <entitlement\_required> tag is set to false
- ▶ The following information is updated:
  - ▷ entitlement key (for reconciliation purposes) in <serial\_number>
  - ▷ license state, channel type, customer type in <activation\_status>
  - ▷ channel\_type and customer\_type in <license\_linkage>

### Tag file state after product is uninstalled

When the product is uninstalled, the tag file is not removed from the disk. This is so that required information remains available in case the product is reinstalled later.

### Tag file update after product is reinstalled

When a product is reinstalled, the tag file from the previous installation is updated with the latest information per the current licensing state.

## Sample Tag Files

This section includes sample tag files for the following products:

- ▶ Acrobat 9
- ▶ Creative Suite 4
- ▶ Acrobat 10
- ▶ Creative Suite 5

### Sample tag file for Acrobat 9

**NAME:** Acrobat Pro-{AC76BA86-1033-0000-7760-000000000004}.swtag

**CONTENTS:**

```
<?xml version="1.0" encoding="utf-8"?>
<iso_root>
<!--Mandatory Identity elements -->
<entitlement_required>true</entitlement_required>
<software_manufacturer>
```

```

<swmfgName>Adobe Systems Incorporated</swmfgName>
<swmfgGUID>{ADBEADBE-ADBE-ADBE-ADBE-ADBEADBEADBE}</swmfgGUID>
</software_manufacturer>
<manufacturer_part>970787036790036962608881</manufacturer_part>
<product_releasedate>1970-01-01</product_releasedate>
<version>
<major>9</major>
<minor>0.0.0</minor>
</version>
<product>Acrobat Pro</product>
<product_type>RETAIL</product_type>
<product_version>9.0.0.0</product_version>
<softwareID>{AC76BA86-1033-0000-7760-000000000004}</softwareID>
<complex_of>
<component>{BF49AD3D-21FC-43CE-90AC-C4B4F24D19A1}</component>
</complex_of>
<licensing_dependency>
</licensing_dependency>
<serial_number>11181001553426717027</serial_number>
<extended_information>
<current_product_name>Acrobat Pro</current_product_name>
<license_state>activated</license_state>
<part_of_suite>>false</part_of_suite>
</extended_information>
</iso_root>

```

## Sample tag file for Creative Suite 4

The following sample is for Adobe Photoshop CS4 serialized as Creative Suite 4 Design Premium (Suite).

**NAME:** Creative Suite 4 Design Premium-DesignSuitePremium-CS4-Mac-GM-en\_US.swtag

**CONTENTS:**

```

<?xml version="1.0" encoding="utf-8"?>
<sat:software_asset_tag
xsi:schemaLocation="http://standards.iso.org/iso/19770/-2/2008/schema.xsd
software_asset_tag.xsd"
xmlns:sat="http://standards.iso.org/iso/19770/-2/2008/schema.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

```

```

<!--Mandatory Identity elements -->
<sat:entitlement_required>>true</sat:entitlement_required>
<sat:product_title>Creative Suite 4 Design Premium</sat:product_title>
<sat:product_version>
<sat:name>4.0</sat:name>
<sat:numeric>
<sat:major>4</sat:major>
<sat:minor>0</sat:minor>
<sat:build>0</sat:build>
<sat:review>0</sat:review>
</sat:numeric>
</sat:product_version>
<sat:software_manufacturer>
<sat:name>Adobe Systems Incorporated</sat:name>
<sat:guid>ADBEADBE-ADBE-ADBE-ADBE-ADBEADBEADBE</sat:guid>
</sat:software_manufacturer>
<sat:software_id>
<sat:unique_id>DesignSuitePremium-CS4-Mac-GM-en_US</sat:unique_id>
<sat:software_manufacturer_domain>http://www.adobe.com</sat:software_manufacturer_domain>
</sat:software_id>
<!--Optional Identity elements -->
<sat:license_linkage>
<sat:activation_status>activated</sat:activation_status>
<sat:channel_type>RETAIL</sat:channel_type>
<sat:customer_type>RETAIL</sat:customer_type>
</sat:license_linkage>
<sat:serial_number>922197092476177448816394</sat:serial_number>
</sat:software_asset_tag>

```

## Sample tag file for Acrobat X

**NAME:** regid.1986-12.com.adobe\_AcrobatPro-AS1-Win-GM-MUL.swidtag

**CONTENTS:**

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

```
<swid:software_identification_tag
xsi:schemaLocation="http://standards.iso.org/iso/19770/-2/2008/schema.xsd
software_identification_tag.xsd"

  xmlns:swid="http://standards.iso.org/iso/19770/-2/2008/schema.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<!--Mandatory Identity elements -->
<swid:entitlement_required_indicator>true</swid:entitlement_required_indicator>
<swid:product_title>Acrobat X Pro</swid:product_title>
<swid:product_version>
  <swid:name>10.0</swid:name>
  <swid:numeric>
    <swid:major>10</swid:major>
    <swid:minor>0</swid:minor>
    <swid:build>0</swid:build>
    <swid:review>0</swid:review>
  </swid:numeric>
</swid:product_version>
<swid:software_creator>
  <swid:name>Adobe Systems Incorporated</swid:name>
  <swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:software_creator>
<swid:software_licensor>
  <swid:name>Adobe Systems Incorporated</swid:name>
  <swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:software_licensor>
<swid:software_id>
  <swid:unique_id>AcrobatPro-AS1-Win-GM-MUL</swid:unique_id>
  <swid:tag_creator_regid>regid.1986-12.com.adobe</swid:tag_creator_regid>
</swid:software_id>
<swid:tag_creator>
  <swid:name>Adobe Systems Incorporated</swid:name>
  <swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:tag_creator>

<!--Optional Identity elements -->
```

```

<swid:license_linkage>
  <swid:activation_status>unlicensed</swid:activation_status>
  <swid:channel_type>VOLUME</swid:channel_type>
  <swid:customer_type>VOLUME</swid:customer_type>
</swid:license_linkage>
<swid:serial_number>970787034620329571838915</swid:serial_number>
</swid:software_identification_tag>

```

## Sample tag file for Creative Suite 5

The following sample is for Adobe Photoshop CS5 serialized as Creative Suite 5 Master Collection (Suite)

**NAME:** regid.1986-12.com.adobe\_MasterCollection-CS5-Win-GM-en\_GB.swidtag

**CONTENTS:**

```

<?xml version="1.0" encoding="utf-8"?>

<swid:software_identification_tag
xsi:schemaLocation="http://standards.iso.org/iso/19770/-2/2008/schema.xsd
software_identification_tag.xsd"

  xmlns:swid="http://standards.iso.org/iso/19770/-2/2008/schema.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <!--Mandatory Identity elements -->

  <swid:entitlement_required_indicator>true</swid:entitlement_required_indicator>
  <swid:product_title>Adobe Creative Suite 5 Master Collection</swid:product_title>
  <swid:product_version>
    <swid:name>5.0</swid:name>
    <swid:numeric>
      <swid:major>5</swid:major>
      <swid:minor>0</swid:minor>
      <swid:build>0</swid:build>
      <swid:review>0</swid:review>
    </swid:numeric>
  </swid:product_version>
  <swid:software_creator>
    <swid:name>Adobe Systems Incorporated</swid:name>
    <swid:regid>regid.1986-12.com.adobe</swid:regid>
  </swid:software_creator>
  <swid:software_licensor>

```

```
<swid:name>Adobe Systems Incorporated</swid:name>
<swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:software_licensor>
<swid:software_id>
  <swid:unique_id>MasterCollection-CS5-Win-GM-en_GB</swid:unique_id>
  <swid:tag_creator_regid>regid.1986-12.com.adobe</swid:tag_creator_regid>
</swid:software_id>
<swid:tag_creator>
  <swid:name>Adobe Systems Incorporated</swid:name>
  <swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:tag_creator>

<!--Optional Identity elements -->
<swid:license_linkage>
  <swid:activation_status>serialized</swid:activation_status>
  <swid:channel_type>RETAIL</swid:channel_type>
  <swid:customer_type>RETAIL</swid:customer_type>
</swid:license_linkage>
<swid:serial_number>922986767881915530809330</swid:serial_number>
</swid:software_identification_tag>
```

## Example tag files for various scenarios

The information in the tag file depends on the way product is installed and licensed. Therefore, for same product there could be tag files with different set of information based on the way product is serialized and licensed. For example, information in tag file will be different when installing a product as a point product as compared to when the product is installed as part of a suite.

The following examples discuss various scenarios that could be applicable for a single Adobe Creative Suite 5 product, depending on how the product has been serialized and licensed. In all these examples, Adobe Photoshop has been used as the product.

**NOTE:** The files shown in the example are samples. The information in the files in your installation might differ from these samples.

- ▶ [Installing as suite versus installing as a point product](#)
  - ▷ [Adobe Photoshop CS5 serialized as Creative Suite 5 Master Collection \(Suite\)](#)
  - ▷ [Adobe Photoshop CS5 serialized as point product](#)
- ▶ [Standard versus extended](#)
  - ▷ [Adobe Photoshop CS5 serialized as Adobe Photoshop CS5 Standard](#)



- ▷ [Adobe Photoshop CS5 serialized as Adobe Photoshop CS5 Extended](#)
- ▶ [Licensing States](#)

## Installing as suite versus installing as a point product

The following examples show the tag file for Adobe Photoshop installed as part of the Creative Suite 5 Master Collection and installed as a point product. Notice the difference in values for `product_title` and `unique_id.tags`.

### Adobe Photoshop CS5 serialized as Creative Suite 5 Master Collection (Suite)

See [Sample tag file for Creative Suite 5](#)

### Adobe Photoshop CS5 serialized as point product

#### Name

regid.1986-12.com.adobe\_Photoshop-CS5-Win-GM-en\_GB.swidtag

#### File Content

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

<swid:software_identification_tag
xsi:schemaLocation="http://standards.iso.org/iso/19770/-2/2008/schema.xsd
software_identification_tag.xsd"

  xmlns:swid="http://standards.iso.org/iso/19770/-2/2008/schema.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <!--Mandatory Identity elements -->

  <swid:entitlement_required_indicator>true</swid:entitlement_required_indicator>

  <swid:product_title>Adobe Photoshop CS5</swid:product_title>

  <swid:product_version>
    <swid:name>12.0</swid:name>
    <swid:numeric>
      <swid:major>12</swid:major>
      <swid:minor>0</swid:minor>
      <swid:build>0</swid:build>
      <swid:review>0</swid:review>
    </swid:numeric>
  </swid:product_version>

  <swid:software_creator>
    <swid:name>Adobe Systems Incorporated</swid:name>
```

```

    <swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:software_creator>
<swid:software_licensor>
    <swid:name>Adobe Systems Incorporated</swid:name>
    <swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:software_licensor>
<swid:software_id>
    <swid:unique_id>Photoshop-CS5-Win-GM-en_GB</swid:unique_id>
    <swid:tag_creator_regid>regid.1986-12.com.adobe</swid:tag_creator_regid>
</swid:software_id>

<swid:tag_creator>
    <swid:name>Adobe Systems Incorporated</swid:name>
    <swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:tag_creator>

<!--Optional Identity elements -->
<swid:license_linkage>
    <swid:activation_status>serialized</swid:activation_status>
    <swid:channel_type>RETAIL</swid:channel_type>
    <swid:customer_type>RETAIL</swid:customer_type>
</swid:license_linkage>
<swid:serial_number>911987035938961881080853</swid:serial_number>
</swid:software_identification_tag>

```

## Standard versus extended

The following examples show the tag file for Adobe Photoshop installed as part of the Creative Suite 5 Master Collection and installed as a point product. Notice the difference in values for `product_title`.

### Adobe Photoshop CS5 serialized as Adobe Photoshop CS5 Standard

#### Name

```
regid.1986-12.com.adobe_Photoshop-CS5-Win-GM-en_GB.swidtag
```

#### File Content

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

```
<swid:software_identification_tag
xsi:schemaLocation="http://standards.iso.org/iso/19770/-2/2008/schema.xsd
software_identification_tag.xsd"

  xmlns:swid="http://standards.iso.org/iso/19770/-2/2008/schema.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <!--Mandatory Identity elements -->
  <swid:entitlement_required_indicator>true</swid:entitlement_required_indicator>
  <swid:product_title>Adobe Photoshop CS5</swid:product_title>
  <swid:product_version>
    <swid:name>12.0</swid:name>
    <swid:numeric>
      <swid:major>12</swid:major>
      <swid:minor>0</swid:minor>
      <swid:build>0</swid:build>
      <swid:review>0</swid:review>
    </swid:numeric>
  </swid:product_version>
  <swid:software_creator>
    <swid:name>Adobe Systems Incorporated</swid:name>
    <swid:regid>regid.1986-12.com.adobe</swid:regid>
  </swid:software_creator>
  <swid:software_licensor>
    <swid:name>Adobe Systems Incorporated</swid:name>
    <swid:regid>regid.1986-12.com.adobe</swid:regid>
  </swid:software_licensor>
  <swid:software_id>
    <swid:unique_id>Photoshop-CS5-Win-GM-en_GB</swid:unique_id>
    <swid:tag_creator_regid>regid.1986-12.com.adobe</swid:tag_creator_regid>
  </swid:software_id>

  <swid:tag_creator>
    <swid:name>Adobe Systems Incorporated</swid:name>
    <swid:regid>regid.1986-12.com.adobe</swid:regid>
  </swid:tag_creator>
```

```

<!--Optional Identity elements -->
<swid:license_linkage>
  <swid:activation_status>serialized</swid:activation_status>
  <swid:channel_type>RETAIL</swid:channel_type>
  <swid:customer_type>RETAIL</swid:customer_type>
</swid:license_linkage>
<swid:serial_number>911987035938961881080853</swid:serial_number>
</swid:software_identification_tag>

```

## Adobe Photoshop CS5 serialized as Adobe Photoshop CS5 Extended

### Name

regid.1986-12.com.adobe\_Photoshop-CS5-Win-GM-en\_GB.swidtag

### File Content

```

<?xml version="1.0" encoding="utf-8"?>
<swid:software_identification_tag
xsi:schemaLocation="http://standards.iso.org/iso/19770/-2/2008/schema.xsd
software_identification_tag.xsd"
  xmlns:swid="http://standards.iso.org/iso/19770/-2/2008/schema.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <!--Mandatory Identity elements -->
  <swid:entitlement_required_indicator>true</swid:entitlement_required_indicator>
  <swid:product_title>Adobe Photoshop CS5 Extended</swid:product_title>
  <swid:product_version>
    <swid:name>12.0</swid:name>
    <swid:numeric>
      <swid:major>12</swid:major>
      <swid:minor>0</swid:minor>
      <swid:build>0</swid:build>
      <swid:review>0</swid:review>
    </swid:numeric>
  </swid:product_version>
  <swid:software_creator>
    <swid:name>Adobe Systems Incorporated</swid:name>
    <swid:regid>regid.1986-12.com.adobe</swid:regid>
  </swid:software_creator>

```

```
<swid:software_licensor>
  <swid:name>Adobe Systems Incorporated</swid:name>
  <swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:software_licensor>
<swid:software_id>
  <swid:unique_id>Photoshop-CS5-Win-GM-en_GB</swid:unique_id>
  <swid:tag_creator_regid>regid.1986-12.com.adobe</swid:tag_creator_regid>
</swid:software_id>

<swid:tag_creator>
  <swid:name>Adobe Systems Incorporated</swid:name>
  <swid:regid>regid.1986-12.com.adobe</swid:regid>
</swid:tag_creator>

<!--Optional Identity elements -->
<swid:license_linkage>
  <swid:activation_status>serialized</swid:activation_status>
  <swid:channel_type>RETAIL</swid:channel_type>
  <swid:customer_type>RETAIL</swid:customer_type>
</swid:license_linkage>
<swid:serial_number>926282705441318027002064</swid:serial_number>
</swid:software_identification_tag>
```

## Licensing States

- ▶ In the trial and the unlicensed states, the value of `entitlement_required` is `false`, where as in the serialized and activated states it is `true`
- ▶ The `activation_status` field identifies the licensing state: `trial`, `serialized`, `activated` or `unlicensed`