

ADOBE PROVISIONING TOOLKIT ENTERPRISE EDITION TECH NOTE

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Adobe Provisioning Toolkit Enterprise Edition Tech Note

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Adobe Provisioning Toolkit Enterprise Edition

Overview

The Adobe Provisioning Toolkit Enterprise Edition is a command-line tool that helps you track and manage *serialization* of Adobe® products that you have deployed using the Adobe Application Manager Enterprise Edition.

The toolkit supplies commands that enable you to conveniently serialize or reserialize an installed product. You might need to do this in various cases:

- ▶ Single-serial-number deployment does not match varied product use

Adobe Application Manager Enterprise Edition requires that you serialize your deployment package with a single serial number; the license that you use for this may not match the actual product use within your organization. For example, suppose a company has 200 Photoshop® users, 200 InDesign® users, 200 Illustrator® users and 200 who use multiple Design Suite Premium products. It may make perfect sense to install the complete set of suite payloads to all 800 machines, but it is not acceptable to buy 800 suite licenses.

In this case, you can use the Adobe Provisioning Toolkit Enterprise Edition to re-serialize machines after deployment for exactly the desired products, removing the single media-specific serialization used in the deployment.

- ▶ Term license agreements

If you have a term site-license agreement, your serial numbers expire at the end of the term. You must reserialize all machines to which products are deployed when you renew your agreement, to reflect the new expiration date.

- ▶ Student licensing

A specific form of term site-license agreement used in the education market allows the volume licensee to grant or resell (expiring) retail licenses to their students. Because most of these institutions renew these resale licenses on a per-year basis, and because many of their students leave each year, the institution must re-serialize each student's machine with a unique replacement serial number. This replacement process needs to verify that the replacement serial number is only applied when its matching original is present on the machine, so that a student who is no longer eligible for the program cannot apply someone else's new serial number.

Using the Adobe Provisioning Toolkit Enterprise Edition

The toolkit itself is a platform-specific executable file, `adobe_prtk.exe` in Windows or `adobe_prtk` in Mac OS.

The toolkit contains a command, `ReplaceSN`, that you can use to serialize, unserialize, or reserialize previously deployed products. Bring up a DOS command shell in Windows or a Terminal in Mac OS, go to the folder where you have downloaded the executable, and invoke the commands as follows:

```
adobe_prtk --tool=ReplaceSN --serialize=LEID --serial=SN
adobe_prtk --tool=ReplaceSN --unserialize=LEID [--locale=locale]
adobe_prtk --tool=ReplaceSN --reserialize=LEID --replacement=pseudoSN

adobe_prtk --tool=MakeReplacementSN --old=oldSN --new=newSN
```

Tool syntax

ReplaceSN

Replaces serial numbers for products installed on the current computer. The different forms can be combined so as to perform multiple actions with a single invocation.

serialize option

```
adobe_prtk --tool=ReplaceSN --serialize=LEID --serial=SN
```

ARGUMENTS:

<code>--serialize LEID</code>	The product's licensing identifier (see "Product identification" on page 7).
<code>--serial SN</code>	The new serial number.

Applies the given serial number to the given product. If the product has only been pre-serialized, applies the new number as a replacement pre-serialization; otherwise, validates the serial number and applies it to the correct locale, replacing any existing serial for that locale.

unserialize option

```
adobe_prtk --tool=ReplaceSN --unserialize=LEID [ --locale=locale ]
```

ARGUMENTS:

<code>--unserialize LEID</code>	The product's licensing identifier.
<code>--locale locale</code>	Optional, a locale code. For a list of the codes and the corresponding locales, see "Locale Codes" on page 8 .

Removes all existing non-trial serializations applied to the given product, including any pre-serialization. If locale is specified, removes the serialization only for that locale.

reserialize option

```
adobe_prtk --tool=ReplaceSN --reserialize=LEID --replacement=pseudoSN
```

ARGUMENTS:

<code>--reserialize LEID</code>	The product's licensing identifier (see " Product identification " on page 7).
<code>--replacement pseudoSN</code>	An encoded version of the replacement serial number created with the MakeReplacementSN command.

Examines all serializations for the specified product (including pre-serializations) to find one whose existing serial number can correctly decrypt the replacement serial number; replaces the serial number for that product.

MakeReplacementSN

This helper function creates and returns an encoded version of a new serial number that can be decoded using the old serial number. Run this function on the administrative system, and save the result to use with the [reserialize option](#) for the [ReplaceSN](#) command on client machines.

```
adobe_prtk --tool=MakeReplacementSN --old=oldSN --new=newSN
```

ARGUMENTS:

<code>--old=oldSN</code>	The serial number being replaced.
<code>--new newSN</code>	The new serial number.

RETURN: A pseudo-serial number, which is a simply-encoded version of the old and new serial numbers to pass to the [reserialize option](#) for the [ReplaceSN](#) command.

Logging

The tools write information about the progress and result of each command to the licensing log:

<code>oobelib.log</code>	Location in Windows: %temp%
	Location in Mac OS: /tmp/

These are the error codes that can be reported if serialization is unsuccessful:

- | | |
|---|--|
| 1 | Arguments passed in command line are invalid. |
| 2 | Serial number entered is not a valid Adobe serial number. |
| 3 | Serial number is not well formed. |
| 4 | Locale of serial number is not installed for the target product. |
| 5 | Serial number entered is not for the current operating system. |
| 6 | Product whose LEID is entered is not installed on the target computer. |
| 7 | User does not have write permissions to the cache database. |

8	AMTConfigPath is incorrect or missing, possibly due to an unsuccessful or incomplete installation.
9	Serial number entered is of type upgrade.
10	Old and new serial numbers are the same.
11	Cache and/or PCD database is not accessible.
12	Pseudo serial number entered is not a valid code.
13	Target product does not contain the old serial number to be replaced.

Product identification

A serialized product, as installed from a deployment package you create with Adobe Application Manager Enterprise Edition, is uniquely identified by a *licensing identifier* (LEID). For example, if the product name is *Photoshop CS5 Extended*, and it is installed in Mac OS, the LEID is `Photoshop-CS5-Mac-GM`.

Use the LEID to identify the installed products whose serial numbers you want to query or change.

For a list of LEIDs, see:

http://www.adobe.com/go/aptee_leid

Locale Codes

The following table lists the locale codes that you can use with the [unserialize option](#) to remove the serialization only for that locale.

da_DK	Danish
de_DE	German
en_GB	English, International
en_US	English, U.S.
es_LA	Spanish, Latin America
es_MX	Spanish, Spain
es_NA	Spanish, North America
fi_FI	Finnish
fr_CA	French, Canada
fr_FR	French, France
hr_HR	Croatian
hu_HU	Hungarian
it_IT	Italian
ja_JP	Japanese
ko_KR	Korean

nb_NO	Norwegian
nl_NL	Dutch
pl_PL	Polish
pt_BR	Portuguese, Brazilian
ro_RO	Romanian
ru_RU	Russian
sk_SK	Slovak
sl_SI	Slovenian
sv_SE	Swedish
tr_TR	Turkish
uk_UA	Ukrainian
zh_CN	Chinese, Simplified
zh_TW	Chinese, Traditional

Serialization Examples

1. Suppose you want to deploy all of the applications from the Design Premium suite for some users, and just Photoshop for others. You might build two packages:

- ▷ Package 1: Design Premium full suite. When you build this package, you specify the Design Premium suite serial number and select all of the applications for installation. This means that a standard deployment of the package installs and serializes the suite, so that the target machine is completely ready to use. The resulting `payloads/` folder in the target deployment location contains all of the application payloads.
- ▷ Package 2: Photoshop only. When you build this package, you choose a trial install (that is, no serialization), and select only Photoshop (and any optional recommended payloads) for installation. Stage the resulting package in the same folder as a copy of the `ReplaceSN` tool.

In Windows, when you build the SCCM program to do the deployment of package 2, you specify a standard `msiexec` command line to invoke the Photoshop MSI, which deploys the trial copy of Photoshop. You then add a second command line:

```
adobe_prtk --tool=ReplaceSN --serialize=Photoshop-CS5-Win-GM --serial=<PS-sn>
```

This second command licenses the trial copy using the supplied Photoshop serial number.

2. Suppose you want to deploy the video applications from the Master Collection. You build one package, specifying the Master Collection suite serial number (in order to install protected content), and selecting the desired products (Photoshop, Adobe Premiere® Pro, and After Effects®).

In Windows, when you build the SCCM program to do the deployment of this package, it contains five lines. The first is the standard `msiexec` invocation, followed by:

```
adobe_prtk --tool=ReplaceSN --unserialize=MasterCollection-CS5-Win-GM
```

This removes the Master Collection suite serial number that you used to build the package.


```
adobe_prtk --tool=ReplaceSN --serialize=Photoshop-CS5-Win-GM --serial=<PS-sn>  
adobe_prtk --tool=ReplaceSN --serialize=Premiere-CS5-Win-GM --serial=<Premiere-sn>  
adobe_prtk --tool=ReplaceSN --serialize=AfterEffects-CS5-Win-GM --serial=<AE-sn>
```

These commands then serialize the three applications that you are actually deploying.

3. Suppose you want to remove the serialization for Adobe Photoshop on the Mac OS for the English, United States locale. Run the following command to accomplish this:

```
adobe_prtk --tool=ReplaceSN --unserialize=Photoshop-CS5-Mac-GM  
[ --locale=en_US ]
```