



Contract Tools

Administrator Guide

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Chapter 1

Getting Started

Learn prerequisites for deploying Contract Tools. Review the files in the Contract Tools folder.

This guide describes how to deploy Contract Tools and use Contract Tools License Server. To understand this guide, you should be familiar with entering commands in Command Prompt. If you're using Contract Tools License Server, you should also be familiar with reading and editing XML files. If you're unfamiliar with either topic, there are resources available to help you; search the internet for "Windows Command Prompt" and "XML tutorial" to find many sources of information.

1.1 What's in the Contract Tools folder?

The Contract Tools folder contains:

- This guide
- PaperSoftwareContractTools.msi, an MSI file you can use to install Contract Tools
- If you're using Contract Tools License Server, a folder named Contract Tools License Server (see Section 2.1, "What's in the Contract Tools License Server folder?" on page 5 to learn more)

You can move the Contract Tools folder wherever you'd like.

If you're using Contract Tools License Server, you should configure and install it before deploying Contract Tools. See Chapter 2, "Contract Tools License Server" on page 5 to learn how. If you're not using Contract Tools License Server, you can skip to Chapter 3, "Contract Tools" on page 9 to learn how to deploy Contract Tools.

1.2 Configuring Your Proxy and Firewall

Contract Tools and Contract Tools License Server use the LimeLM suite of license management software by wyDay, LLC for license activation and management. To enable Contract Tools and

Contract Tools License Server to connect to the LimeLM servers, you should configure your proxy server and firewall to allow access to wyday.com.

Chapter 2

Contract Tools License Server

Configure and install Contract Tools License Server. Update the server to a new version. Uninstall the server.

2.1 What's in the Contract Tools License Server folder?

The Contract Tools License Server folder contains several files.

configuration.xml is an XML file that contains configuration settings for Contract Tools License Server. See Section 2.2, "Configuring Contract Tools License Server" on the next page to learn about these settings.

stop.cmd and **start.cmd** are scripts you can use to stop and restart Contract Tools License Server when updating it. See Section 2.4, "Updating Contract Tools License Server" on page 7 to learn more about updating Contract Tools License Server.

TurboActivate.dat is a file that Contract Tools License Server reads when it runs. You must not edit this file.

The Contract Tools License Server folder also contains folders named **x86** and **x64**. Each folder contains an executable named **Contract Tools License Server.exe**. Use the executable in the **x86** folder on 32-bit operating systems, and the executable in the **x64** folder on 64-bit operating systems. Both executables require Windows XP or later. The **x86** and **x64** folders also contain identical copies of two scripts.

install.cmd is a script you can use to install Contract Tools License Server on your computer. See Section 2.3, "Installing Contract Tools License Server" on page 7 to learn more about installing Contract Tools License Server.

uninstall.cmd is a script you can use to stop Contract Tools License Server from running when your computer starts. See Section 2.5, "Uninstalling Contract Tools License Server" on page 8 to learn more.

You can move the Contract Tools License Server folder wherever you'd like. However, it's not a good idea to move the files in the **x86** and **x64** folders to other folders. If you do this, scripts like **install.cmd** may not work.

2.2 Configuring Contract Tools License Server

You configure Contract Tools License Server by editing the XML file *configuration.xml* in the Contract Tools License Server folder. Here are the default contents of *configuration.xml*:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <config>
3 <bind port="4"/>
4 <lease length="1800"/> <!-- seconds -->
5 <log file="Contract Tools License Server.log" level="notification"/>
6 <isgenuine days_between="90" grace="14"/> <!-- days -->
7 <cpu threads="0"/> <!-- 0 means one child thread per CPU core -->
8 <!--
9 <proxy url="http://username:password@127.0.0.1:8080/">
10 -->
11 </config>
```

Typically, you need to change only the `port` attribute of the `bind` element in line 3.

`<bind port="4"/>` sets the port on which Contract Tools License Server communicates. You also use this port to configure Contract Tools; see Chapter 3.2, “Configuring Contract Tools” on page 9 to learn more. Using the default configuration settings, Contract Tools License Server communicates on port 4. The port number should not exceed 49151.

You should rarely need to change the values of the attributes in lines 4–7.

`<lease length="1800"/>` sets the amount of time a license provided by Contract Tools License Server to Contract Tools is valid. Using the default configuration settings, licenses are valid for 1,800 seconds (30 minutes), and Contract Tools will begin attempting to extend the duration of its license when approximately 15 minutes remain. You can use a minimum time of 30 seconds, but shorter times may increase traffic on your network to an unacceptable level.

`<log file="Contract Tools License Server.log" level="notification"/>` sets the path of the file to which Contract Tools License Server logs messages and the verbosity level of these messages. If the value of the `file` attribute is a relative path, the log is placed relative to Contract Tools License Server.exe. The value of the `level` attribute can be, in order of increasing verbosity, `error`, `warning`, or `notification`. Using the default configuration settings, messages are logged in a file named *Contract Tools License Server.log* in the same folder as Contract Tools License Server.exe, and this file will contain errors, warnings, and notifications.

`<isgenuine days_between="90" grace="14"/>` sets the number of days between Contract Tools License Server’s periodic verifications of your activation key. Using the default configuration settings, the number of days is at least 90 and at most 104. The value of the `days_between` attribute can be any whole number up to 90, and the value of the `grace` attribute can be any whole number up to 14.

`<cpu threads="0"/>` sets the number of child threads Contract Tools License Server spawns. If this number is 0, Contract Tools License Server spawns one child thread per CPU core. Using the default configuration settings, if your computer’s CPU has 8 cores, Contract Tools License Server will use a total of 9 threads.

The `proxy` element in line 9 is in a comment because it’s optional. Use a `proxy` element and set its `url` attribute to a value appropriate for your proxy server to allow Contract Tools License Server to verify your activation key through a proxy server.

2.3 Installing Contract Tools License Server

After you configure Contract Tools License Server, you can install it by running the script *install.cmd*. To run this script, open an administrator Command Prompt in the x86 folder on a 32-bit operating system or the x64 folder on a 64-bit operating system, and then enter:

```
install
```

This script:

1. Verifies your Contract Tools License Server activation key
2. Configures Windows Firewall to allow inbound connections to Contract Tools License Server
3. Runs Contract Tools License Server as a Windows service
4. Installs Contract Tools License Server to run as a Windows service if the computer on which it is installed is restarted

To verify that Contract Tools License Server is running, enter in Command Prompt:

```
sc qc TurboFloatServer-2942
```

If Contract Tools License Server is running, *sc* will output the configuration of Contract Tools License Server.

Note: The service name `TurboFloatServer-2942` contains `TurboFloatServer` because `Contract Tools License Server.exe` is a renamed executable from `TurboFloat Server`; see Section 2.6, “Contract Tools License Server is TurboFloat Server” on the next page to learn more. The number 2942 is an identifier for Contract Tools.

If Contract Tools License Server is not running, examine Contract Tools License Server’s log to diagnose the problem. If you need help, send an email to support@papersoftware.com.

2.4 Updating Contract Tools License Server

Occasionally, you’ll need to update Contract Tools License Server. It’s a good idea to update Contract Tools License Server when usage of Contract Tools is at a minimum.

To update Contract Tools License Server:

1. Open Command Prompt.
2. `cd` to the Contract Tools License Server folder.
3. To stop Contract Tools License Server, enter in Command Prompt:

```
stop
```
4. Replace the Contract Tools License Server executable with a new version.
5. To restart Contract Tools License Server, enter in Command Prompt:

```
start .cmd
```


2.5 Uninstalling Contract Tools License Server

To uninstall Contract Tools License Server, open an administrator Command Prompt in the x86 folder on a 32-bit operating system or the x64 folder on a 64-bit operating system, and then enter:

```
uninstall
```

This script:

1. Stops Contract Tools License Server
2. Removes Contract Tools License Server configuration settings from Windows Firewall if possible
3. Removes Contract Tools License Server from the list of Windows services so that it does not run as a background process if the computer on which it is present is restarted

Uninstalling Contract Tools License Server does not delete the Contract Tools License Server folder from your computer. To delete the Contract Tools License Server folder, move it to the Recycle Bin, and then empty the Recycle Bin.

2.6 Contract Tools License Server is TurboFloat Server

TurboFloat Server is part of the LimeLM suite of license management software by wyDay, LLC. The Contract Tools License Server executables are the executables distributed with TurboFloat Server, renamed to identify them as Contract Tools' license server in case you administer other software that uses TurboFloat Server.

Here is how Contract Tools License Server renames TurboFloat Server files.

This Contract Tools License Server file	is this TurboFloat Server file, renamed
Contract Tools License Server.exe	TurboFloatServer.exe
configuration.xml	TurboFloatServer-config.xml

Visit <https://wyday.com/limelm/help/turbofloat-server/> to learn more about TurboFloat Server.

Chapter 3

Contract Tools

Learn prerequisites for installing Contract Tools. Configure and install Contract Tools. Uninstall Contract Tools.

3.1 Prerequisites for Installing Contract Tools

Contract Tools requires Windows 7 or later, Word 2007 or later, and these additional prerequisites:

To download an installer for this	Visit
Visual C++ 2010 Redistributable Package	https://www.microsoft.com/en-us/download/details.aspx?id=5555
Visual Studio 2010 Tools for Office Runtime	https://www.microsoft.com/en-us/download/details.aspx?id=48217

In addition, on computers with Windows 7 and 8.1, Contract Tools requires .NET Framework 4.5.2 or later. To download an installer for .NET Framework 4.5.2, visit <https://www.microsoft.com/en-us/download/details.aspx?id=42643>.

On computers with Word 2007, Contract Tools also requires .NET Framework 3.5. To download an installer for .NET Framework 3.5, visit <https://www.microsoft.com/en-us/download/details.aspx?id=21>.

3.2 Configuring Contract Tools

You configure Contract Tools by modifying Registry values using Group Policy; see *Registry Extension* (<https://technet.microsoft.com/en-us/library/cc771589.aspx>) to learn how.

You can change how Word loads Contract Tools by modifying its LoadBehavior Registry value; see *Registry Entries for VSTO Add-ins* (<https://msdn.microsoft.com/en-us/library/bb386106.aspx>) to learn more. Here is where you can find Contract Tools' LoadBehavior Registry value:

- If you install Contract Tools for all users of a computer (a *per-machine* installation), the LoadBehavior Registry value is stored in the HKEY_LOCAL_MACHINE hive.
 - On 32-bit operating systems with the 32-bit version of Office, and 64-bit operating systems with the 64-bit version of Office, the key path is SOFTWARE\Microsoft\Office\Word\Addins\Paper Software.Contract Tools.
 - On 64-bit operating systems with the 32-bit version of Office, the key path is SOFTWARE\WOW6432Node\Microsoft\Office\Word\Addins\Paper Software.Contract Tools.
- If you install Contract Tools for a single user of a computer (a *per-user* installation), the LoadBehavior Registry value is stored in the HKEY_CURRENT_USER hive with key path SOFTWARE\Microsoft\Office\Word\Addins\Paper Software.Contract Tools.

To change other Contract Tools settings, you create Registry values in the HKEY_CURRENT_USER hive with key path SOFTWARE\Paper Software\Contract Tools.

Contract Tools can periodically check for updates and prompt the user to install them. To disable updating, you can create the following Registry value:

Name	Type	Data
Disable updating	REG_SZ	True

In Word 2010 and later, Contract Tools can save analysis settings within the Word document to which the settings apply. To disable saving analysis settings, you can create the following Registry value:

Name	Type	Data
Disable saving analysis settings	REG_SZ	True

If you're using Contract Tools License Server, you can configure Contract Tools to connect to Contract Tools License Server by creating Registry values for the server IP address and port:

Name	Type	Data
License server IP address	REG_SZ	The IP address of the computer running Contract Tools License Server
License server port	REG_DWORD	Contract Tools License Server's port

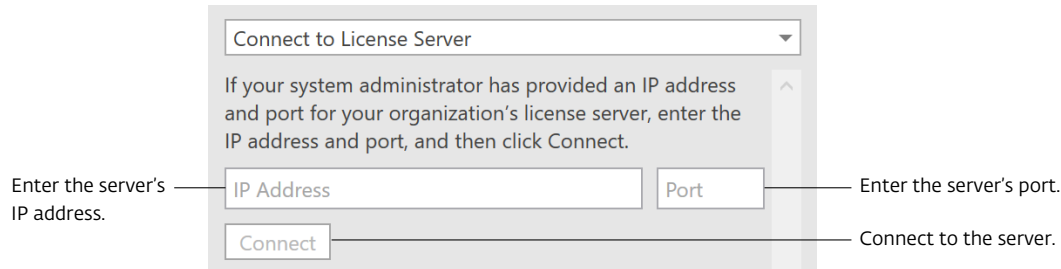
To determine the IP address of the computer running Contract Tools License Server, open Command Prompt on that computer, enter `ipconfig`, and look for the IPv4 Address in `ipconfig`'s output.

Use the port you set when you configured Contract Tools License Server; see Section 2.2, "Configuring Contract Tools License Server" on page 6 to learn more about configuring Contract Tools License Server.

If you're unable to configure Contract Tools to connect to Contract Tools License Server by modifying Registry values, you can distribute the server's IP address and port on an intranet webpage, in an email, or by some other means. Your users must then use the controls in the Contract Tools pane to connect to the server. Here are instructions you can offer to your users:

To connect Contact Tools to Contract Tools License Server:

1. Open a document or create a new document in Word.
2. Choose "Connect to License Server" from the pop-up menu at the top of the Contract Tools pane.
3. Enter Contract Tools License Server's IP address and port, and then click Connect.



See Section 3.4, "Disconnecting from Contract Tools License Server" on page 13 to learn about disconnecting Contract Tools from Contract Tools License Server.

3.3 Installing Contract Tools

You can install Contract Tools with an MSI file or an executable. To install Contract Tools using Group Policy, you must use an MSI file.

3.3.1 Installing with an MSI File

You can use PaperSoftwareContractTools.msi with Group Policy to install Contract Tools; see *Editing Software Settings* (<https://technet.microsoft.com/en-us/library/cc753792.aspx>) to learn how. You can also use PaperSoftwareContractTools.msi with `msiexec` to install Contract Tools. To do this, enter in Command Prompt:

```
msiexec /i PaperSoftwareContractTools.msi /q /log setup.log /norestart
```

- `/q` prevents Windows Installer dialogs from appearing.
- `/log setup.log` creates a log named `setup.log` in the same folder as `PaperSoftwareContractTools.msi`.
- `/norestart` prevents an automatic computer restart if one is required.

See Section 3.3.3, "Resources about Installation Parameters" on the next page for resources that describe additional `msiexec` parameters.

3.3.2 Installing with an Executable

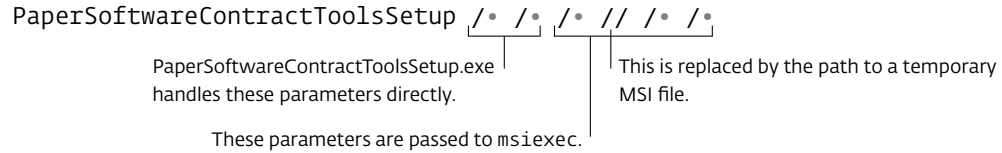
You can use PaperSoftwareContractToolsSetup.exe (an installer executable available at <https://papersoftware.com/support.html>) from Command Prompt to install Contract Tools. Here is a typical installation command:

```
PaperSoftwareContractToolsSetup /exenoui /q /log setup.log /norestart
```

The `/exenoui` parameter prevents Contract Tools Setup from appearing. The other parameters are passed to `msiexec`:

- /q prevents Windows Installer dialogs from appearing.
- /log setup.log produces a log named setup.log in the same folder as PaperSoftwareContractToolsSetup.exe.
- /norestart prevents an automatic computer restart if one is required.

Letting /• mean any parameter, PaperSoftwareContractToolsSetup.exe commands generally look like:



You pass two groups of parameters to PaperSoftwareContractToolsSetup.exe:

1. The first group of parameters is handled directly by PaperSoftwareContractToolsSetup.exe. When installing Contract Tools, this group will typically contain only /exenoui.
2. The second group of parameters, beginning with /• //, is passed to msexec. PaperSoftwareContractToolsSetup.exe replaces // with the path to a temporary MSI file.

If you omit the pair of parameters /• //, PaperSoftwareContractToolsSetup.exe uses /i //. For example:

PaperSoftwareContractToolsSetup /exenoui /q

is the same as

PaperSoftwareContractToolsSetup /exenoui /i // /q

All parameters are optional. Entering PaperSoftwareContractToolsSetup in Command Prompt starts Contract Tools Setup as if you double-clicked PaperSoftwareContractToolsSetup.exe.

See Section 3.3.3, “Resources about Installation Parameters” on this page for resources that describe additional PaperSoftwareContractToolsSetup.exe parameters.

3.3.3 Resources about Installation Parameters

To learn more about msexec parameters, enter in Command Prompt:

msexec /help

To learn more about PaperSoftwareContractToolsSetup.exe parameters, enter in Command Prompt:

PaperSoftwareContractToolsSetup /help

You can also use the following resources:

To learn about	See
msiexec parameters	<i>Command-Line Options</i> (https://msdn.microsoft.com/en-us/library/windows/desktop/aa367988.aspx) <i>Standard Installer Command-Line Options</i> (https://msdn.microsoft.com/en-us/library/windows/desktop/aa372024.aspx) <i>Msiexec.exe Command Line</i> (http://www.advancedinstaller.com/user-guide/msiexec.html)
PaperSoftwareContractToolsSetup.exe parameters	<i>EXE setup file</i> (http://www.advancedinstaller.com/user-guide/exe-setup-file.html)

3.4 Disconnecting from Contract Tools License Server

Contract Tools disconnects from Contract Tools License Server (and stops using a license) when Word quits. In addition, a user can disconnect Contract Tools from Contract Tools License Server by clicking the Disconnect button in the Subscription view. Here are instructions you can offer to your users:

To disconnect Contract Tools from Contract Tools License Server:

- Choose Subscription from the pop-up menu at the top of the Contract Tools pane to show the Subscription view, and then click the Disconnect button.

Note: Turning off Contract Tools by clicking the On / Off button in the Contract Tools ribbon tab does not disconnect Contract Tools from Contract Tools License Server. Also, hiding the Contract Tools pane does not disconnect Contract Tools from Contract Tools License Server.

See Section 3.2, “Configuring Contract Tools” on page 9 to learn about connecting Contract Tools to Contract Tools License Server.

3.5 Uninstalling Contract Tools

You can use PaperSoftwareContractTools.msi or PaperSoftwareContractToolsSetup.exe to uninstall Contract Tools.

3.5.1 Uninstalling with an MSI File

If you used PaperSoftwareContractTools.msi to install Contract Tools, you can uninstall Contract Tools by entering in Command Prompt:

```
msiexec /x PaperSoftwareContractTools.msi /q
```

3.5.2 Uninstalling with an Executable

If you used PaperSoftwareContractToolsSetup.exe to install Contract Tools, you can uninstall Contract Tools by entering in Command Prompt:

```
PaperSoftwareContractToolsSetup /x // /q
```

While this command will uninstall Contract Tools without prompting a user, Contract Tools Setup will appear. To uninstall Contract Tools without showing Contract Tools Setup, you can pass a Contract Tools product code to `msiexec`. For example, to uninstall Contract Tools v1.21.1.0 without user interaction, enter in Command Prompt:

```
msiexec /x {E6C4BCCD-FB94-4AD6-A6BA-00F87C7DEDB8} /q
```

To determine the product code of your version of Contract Tools, enter in Command Prompt:

```
set query="Name='Contract Tools' AND Vendor='Paper Software LLC'"
wmic product where %query% get IdentifyingNumber, Version
```

After a few seconds, you should see output like:

```
IdentifyingNumber          Version
{E6C4BCCD-FB94-4AD6-A6BA-00F87C7DEDB8}  1.21.1.0
```

The `IdentifyingNumber` is the product code.

For a table of Contract Tools version numbers and corresponding product codes, see Appendix A, "Contract Tools Product Codes" on the next page.

Appendix A

Contract Tools Product Codes

Here are Contract Tools version numbers and corresponding product codes. If you used PaperSoftwareContractToolsSetup.exe to install Contract Tools, you can pass a Contract Tools product code to msiexec to uninstall Contract Tools without showing Contract Tools Setup; see Section 3.5.2, “Uninstalling with an Executable” on page 13 to learn how.

Contract Tools version	Product code
1.21.1.0	{E6C4BCCD-FB94-4AD6-A6BA-00F87C7DED8}
1.21.0.0	{8D94BC8C-D3C8-45F9-BEBB-639D7AE9BDB0}
1.20.1.0	{B4CE72E7-5C45-4D6A-B7BE-EE8FFA1065B3}
1.20.0.0	{FA9FB2A6-2816-4DFA-9032-8285AD3C2532}
1.19.4.0	{B86D2EC8-C902-4893-A84D-B27F99F44C85}
1.19.3.0	{57C1157D-60C9-4C5E-B199-BB99FB63BFE4}
1.19.2.0	{D99CBFC0-0D2B-4E53-BF4F-A0B349BD1D82}
1.19.1.0	{D53C1295-3F74-4735-875D-E9349C204485}
1.19.0.0	{64CAE0BC-3F97-4938-A3CC-5E907C8C0BF2}
1.18.6.0	{69F2B766-A061-4F9F-8887-85019897D33E}
1.18.5.0	{3493D517-F429-4FD8-9E75-42524180441D}
1.18.4.0	{BB36FCB3-BE0A-4910-BCD2-1A7EEF132415}
1.18.3.0	{7C80F46E-5CC2-4F48-9A2C-CBBB8176F4C6}
1.18.2.0	{1EF788E5-2D3A-4C6E-BFE1-2861A64B391F}
1.18.1.0	{61CF5353-89B8-49D2-9D52-954ABE187F3B}
1.18.0.0	{A8608D32-D590-4596-BB67-D78DFB881E07}
1.17.8.0	{86A21335-6227-42F5-B8ED-E517EFD9EDBF}
1.17.7.0	{2E8A3C7C-CD97-451B-8245-959CC45323B4}
1.17.6.0	{EF862871-258C-45E6-B37A-D2C5B116D03B}

Contract Tools version	Product code
1.17.5.0	{D034D9E8-6854-48B4-9DCF-B34CA1402233}
1.17.4.0	{C6B8EFA4-1A2B-44E9-96B3-OCA6D1A7DE36}
1.17.3.0	{26FD68B8-910F-43FA-943B-BE3C56D85883}
1.17.2.0	{D9586ACB-44E5-4D98-8262-B835538F0736}
1.17.1.0	{216F95BC-7D1D-493B-ACC1-5849466D5AF3}
1.17.0.0	{0CDF4A42-164B-40BC-9171-7CDF3FBB3714}
1.16.5.0	{AC41251D-3340-46E6-81F4-47A034783E4E}
1.16.4.0	{B6209071-4FC5-4039-96F1-AEE939C61DD9}
1.16.3.0	{33D2E91C-430A-4AF1-AODD-874BAB3CCFB1}
1.16.2.0	{8219C72E-D659-4AF1-B9C7-616F2D889E0C}
1.16.1.0	{B60971B5-D8B2-45D8-8ECF-73C83B1F89BA}
1.16.0.0	{8618D9E9-051F-4A04-A889-847BE918CC13}
1.15.12.0	{36F5E732-F411-43B4-9488-E3FEAE197007}
1.15.11.0	{E03F1D66-A306-43B8-A248-A779F0F73C4E}
1.15.10.0	{8A7001E9-F228-4CDD-92F8-9DC5176AD81B}
1.15.9.0	{0B53425D-076C-4D74-9BAD-804FC208C8DD}
1.15.8.0	{91CF89DF-2909-49EB-9DE2-COCED6714388}
1.15.7.0	{811928AC-BB01-47C1-B15F-FD1A8865DCA9}
1.15.6.0	{E6DC5A97-B0E0-4628-971E-37F812893A9C}
1.15.5.0	{CE38A45E-AB39-4106-A53E-COF132103C1F}
1.15.4.0	{A639DA03-156C-4D3A-B682-6DB7E9252976}
1.15.3.0	{4AF837D6-5A36-4779-8BF8-4A0542B6E6AA}
1.15.2.0	{DC1F7C51-9F8C-46D5-A706-B9E0A1251A5A}
1.15.1.0	{2DB12D18-9320-4A1C-AB69-88EFA5D9050B}
1.15.0.0	{9D34107E-D752-4491-AE40-4E3452042228}
1.14.2.0	{C0436F1D-1264-4A99-908C-88B5B9314805}
1.14.1.0	{8E28B9EE-1A85-495C-B8F9-BA1DC9F10C4E}
1.14.0.0	{B9974EAB-15F4-493F-B76E-441156E09D8A}
1.13.0.0	{04A52A26-933D-4B63-98A0-C365041A46B5}
1.12.0.0	{14D5A1A7-6377-4COB-817F-00F5B6A977CC}
1.11.1.0	{4FC989AE-B926-4B25-B1E0-3807B5369509}
1.11.0.0	{A70F3A5B-6586-4D99-87D2-EE856FE11250}

Contract Tools version	Product code
1.10.2.0	{A3308E2A-5F7F-49CB-A210-309D5711CDA0}
1.10.1.0	{873AB223-AA1F-4A6C-B9A2-26FE47FE7000}
1.10.0.0	{110E07B3-B4C2-4119-9CA0-DA192656B554}

Contract Tools v1.9.0.0 and earlier use Microsoft ClickOnce installation and cannot be uninstalled using `msiexec`.