

# Setting the Install Sequence for applications

In some cases, when some applications are installed together, they need to be installed in a certain order. You can do this in Application Migration by adding applications that have specific installation order constraints to the Install Sequence.

## On this page:

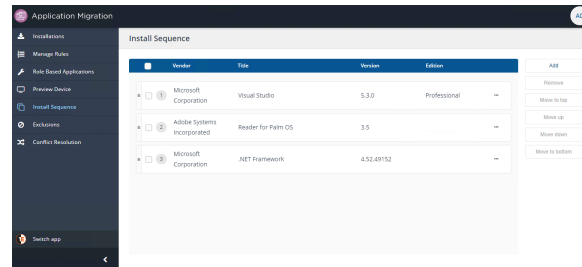
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## Introduction

In previous versions of Application Migration, the order in which applications were installed was not set. In some cases, if certain applications are installed together, they must be installed in a particular order or sequence. This requirement may also apply when multiple versions of the same application are to be installed side-by-side.

In the case where migration rules or role-based applications result in multiple versions of the same application to be installed, Application Migration will automatically install these in order of ascending version. In the case where certain different applications need to be installed in a certain order, users can now define a sequence in which applications should be installed.

For example, a new computer needs setting up with Visual Studio and .NET Framework. In previous versions of Application Migration, if it attempted to install Visual Studio before .NET Framework, the installation would fail. On the **Install Sequence** page, users can now define that .NET Framework should be installed before Visual Studio.



Install sequence is different from application dependency:

- **Install sequence** - means that *if* applicable migration rules or role-based application sets result in these identified applications being installed together, they will be installed in the defined order or sequence
- **Application dependency** - means that *every time* a certain application is installed, one or more other applications must be installed first. Application dependencies must be defined on the Application or Program in Configuration Manager, independent of Application Migration.

## Using the Install Sequence page

Users can add, remove or reorder applications on the Install Sequence page.

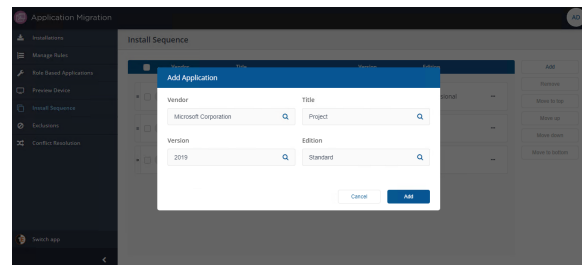
### Adding an application

To add an application:

1. Click on the **Add** button to open the **Add Application** popup.
2. On the **Add Application** popup, fill the Vendor, Title, Version and Edition fields then click **Add** to save.



When adding an application for installation sequencing, be sure to define the Vendor, Title, Version and Edition exactly as defined in the migration rule or role-based application set that will install the application. For example, if you add 7-Zip v9.20.0.0 but have a migration rule that will install v9.20 (readable version), the sequencing will not apply to that migration rule and 7-Zip would be installed after all specifically sequenced applications.

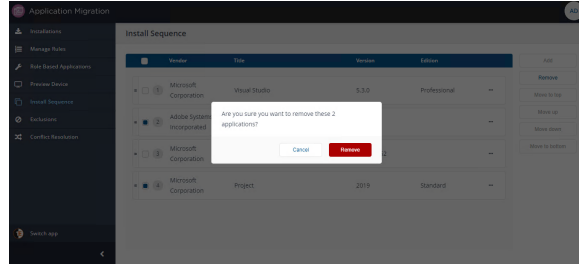


3. The application is added to the end of the sequence.

## Removing an application

To remove one or more applications:

1. Select the applications.
2. Click **Remove**, a popup to confirm the removal will appear.
3. Click **Remove** to remove the selected applications.

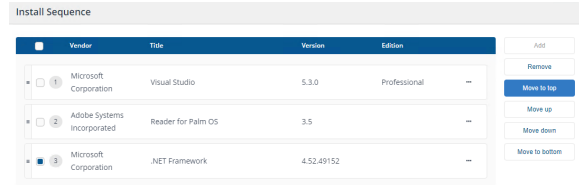


## Move an application to the top

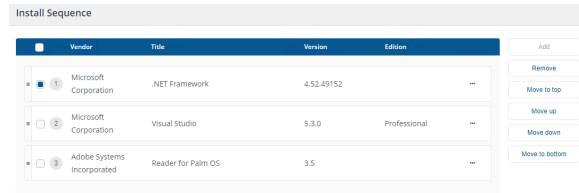
To move an application to the top:

1. Select the application, for example .NET Framework.
2. Click the **Move to top** button.
3. The application will be moved to the top of the sequence.

Before moving the application:



After moving the application:

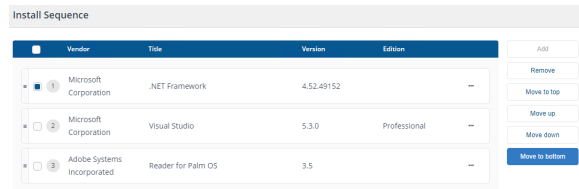


## Move an application to the bottom

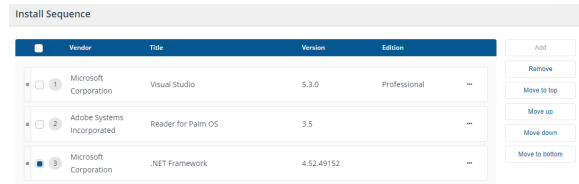
To move an application to the bottom:

1. Select the application, for example .NET Framework.
2. Click the **Move to bottom** button.
3. The application will be moved to the bottom of the sequence.

Before moving the application:



After moving the application:

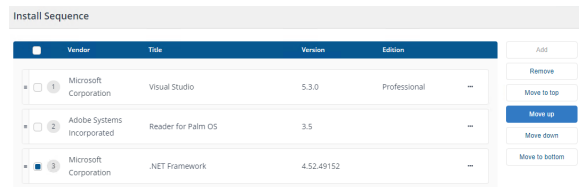


## Move an application up one spot

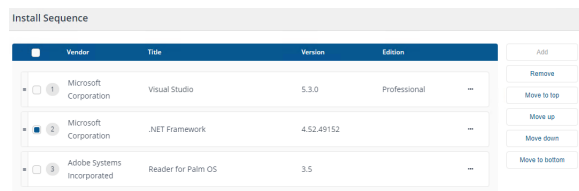
To move an application up one spot:

1. Select the application, for example .NET Framework.
2. Click the **Move up** button.
3. The application will be moved one spot up in the sequence.

Before moving the application:



After moving the application:



Before moving the application:

## Move an application down one spot

To move an application down one spot:

1. Select the application, for example Visual Studio.
2. Click the **Move down** button.
3. The application will be moved one spot down in the sequence.

**i** Users can only move one application at a time. Selecting multiple applications will disable the movement buttons.

Install Sequence				
Vendor	Title	Version	Edition	
Microsoft Corporation	Visual Studio	5.3.0	Professional	--
Microsoft Corporation	.NET Framework	4.52.49152		--
Adobe Systems Incorporated	Reader for Palm OS	3.5		--

After moving the application:

Install Sequence				
Vendor	Title	Version	Edition	
Microsoft Corporation	.NET Framework	4.52.49152		--
Microsoft Corporation	Visual Studio	5.3.0	Professional	--
Adobe Systems Incorporated	Reader for Palm OS	3.5		--

## Move an application directly to the desired spot

A user can also move an application to the desired spot by simply dragging the application.

## Alternate controls for operations

All the above operations (excluding the add operation) have shortcuts on each application row. These controls are visible by hovering over the ellipses.

Install Sequence				
Vendor	Title	Version	Edition	
Microsoft Corporation	.NET Framework	4.52.49152		--
Microsoft Corporation	Visual Studio	5.3.0	Professional	--
Adobe Systems Incorporated	Reader for Palm OS	3.5		--

## Application Ordering

When the Application Migration step is executed in a Configuration Manager Task Sequence, applications will be sorted according to the following algorithm:

1. Applications added in the Install Sequence page are sorted in the ascending order of the install sequence.
2. Remaining applications are sorted as follows:
  - a. If any application (defined by Vendor, Title and Edition) has multiple versions to be installed and the migration rule or application set defines a full or readable version, these applications will be installed in ascending version order.
  - b. Applications with colloquial versions are not sorted at all but appear after applications with full or readable versions.

**i** To order versions in ascending order, Application Migration attempts to convert the version number defined in the target of the migration rule or role-based application set into a 10-part version number. For a version to successfully convert into a 10-part version, it should be separated by dots and each part should be a non-negative integer. There should be a minimum of 2 and a maximum of 10 parts separated by dots.

For example, if we have the following applications which are to be installed on a machine:

Vendor	Title	Version	Version Type	Edition
Microsoft Corporation	Visual Studio	2013	Colloquial	Professional
Microsoft Corporation	Visual Studio	2010	Colloquial	Professional
Microsoft Corporation	Visual Studio	2015	Colloquial	Professional
Microsoft Corporation	Visual Studio	2017	Colloquial	Professional
Microsoft Corporation	Visual Studio	1.12.47.803	Full	Professional
Microsoft Corporation	Visual Studio	1.11	Readable	Professional
Microsoft Corporation	Visual Studio	a.b.c.d	Full	Professional

and we have the following applications defined in the Install Sequence:

Install Sequence	Vendor	Title	Version	Edition
1	Microsoft Corporation	Visual Studio	2010	Professional

2	Microsoft Corporation	Visual Studio	2013	Professional
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The the final order of applications will be:

Vendor	Title	Version	Edition	Comment
Microsoft Corporation	Visual Studio	2010	Professional	Defined in the Install Sequence page
Microsoft Corporation	Visual Studio	2013	Professional	Defined in the Install Sequence page
Microsoft Corporation	Visual Studio	1.11	Professional	1.11 converted to 10-part version is 1.11.0.0.0.0.0.0.0, which comes before the 10-part version 1.12.47.803.0.0.0.0.0.0
Microsoft Corporation	Visual Studio	1.12.47.803	Professional	1.12.47.803 converted to 10-part version is 1.12.47.803.0.0.0.0.0.0, which comes after the 10-part version 1.11.0.0.0.0.0.0.0
Microsoft Corporation	Visual Studio	2015	Professional	Colloquial versions are not sorted
Microsoft Corporation	Visual Studio	2017	Professional	Colloquial versions are not sorted
Microsoft Corporation	Visual Studio	a.b.c.d	Professional	Considered as a colloquial version as a.b.c.d cannot be converted into a 10-part version



If the applications defined in the Install Sequence use a combination of Configuration Manager Applications and Package/Programs, the installations may not follow the expected order. This is because in a Task Sequence, all Configuration Manager Applications are installed in one step and all Packages are installed in a different step.

For example, if in the above example, Visual Studio 2010 was installed using a Package/Program and Visual Studio 2013 was installed using an Application, then if the Install Package step in the Task Sequence was positioned after the Install Applications, Visual Studio 2013 would be installed first (with the Install Application step) followed by Visual Studio 2010 (with the Install Package step).